19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		8355 Masuo							
	h m	° ′			°	m	°	°	°
12 23	12 26.23	− 0 51.7	2.943	3.007	19.0	20.0	84 W	44	55*
1 2	12 32.78	− 1 13.1	2.797	3.009	19.1	19.9	93 W	44	61*
1 12	12 37.71	− 1 21.8	2.651	3.009	18.7	19.8	102 W	44	65*
1 22	12 40.78	− 1 16.4	2.509	3.009	17.8	19.6	111 W	44	65
2 1	12 41.75	− 0 55.4	2.375	3.007	16.3	19.4	121 W	44	65
2 11	12 40.45	− 0 18.3	2.254	3.005	14.1	19.3	132 W	45	64
2 21	12 36.83	+ 0 34.3	2.151	3.001	11.4	19.1	143 W	46	63
3 2	12 31.04	+ 1 40.5	2.071	2.997	8.1	18.8	155 W	47	62
3 12	12 23.50	+ 2 55.8	2.017	2.992	4.5	18.6	166 W	48	61
3 17	12 19.26	+ 3 35.1	2.001	2.989	2.7	18.5	172 W	49	60
3 22	12 14.85	+ 4 14.3	1.992	2.986	1.8	18.4	175 W	49	60
3 27	12 10.38	+ 4 52.6	1.991	2.982	2.7	18.5	172 E	50	59
4 1	12 5.96	+ 5 29.1	1.998	2.978	4.5	18.6	167 E	50	59
4 6	12 1.71	+ 6 3.0	2.011	2.975	6.4	18.7	161 E	51	58
4 11	11 57.72	+ 6 33.6	2.032	2.970	8.2	18.8	155 E	52	57
4 21	11 50.89	+ 7 23.2	2.093	2.961	11.7	19.0	143 E	52	57
5 1	11 46.00	+ 7 55.4	2.175	2.951	14.6	19.2	133 E	53	56
5 11	11 43.34	+ 8 9.9	2.275	2.941	16.9	19.3	122 E	53	56
5 21	11 42.93	+ 8 7.6	2.387	2.929	18.6	19.5	113 E	53*	56
5 31	11 44.67	+ 7 50.2	2.507	2.916	19.8	19.6	104 E	50*	56
6 10	11 48.39	+ 7 19.7	2.631	2.902	20.4	19.7	95 E	46*	57
6 20	11 53.84	+ 6 37.8	2.755	2.888	20.6	19.8	87 E	40*	57
6 30	12 0.83	+ 5 46.4	2.877	2.872	20.4	19.9	80 E	35*	58*
7 10	12 9.14	+ 4 46.9	2.995	2.856	19.8	20.0	72 E	30*	57*
7 20	12 18.59	+ 3 40.7	3.106	2.839	19.0	20.0	65 E	25*	54*
7 30	12 29.06	+ 2 28.9	3.209	2.820	17.9	20.0	59 E	22*	49*
8 9	12 40.40	+ 1 12.7	3.302	2.801	16.7	20.0	52 E	18*	44*
8 19	12 52.53	− 0 6.9	3.385	2.781	15.2	20.0	46 E	16*	39*
8 29	13 5.37	− 1 29.2	3.456	2.760	13.6	20.0	40 E	13*	33*
9 8	13 18.87	− 2 53.0	3.514	2.739	11.9	19.9	34 E	11*	27*
9 18	13 32.97	− 4 17.5	3.559	2.716	10.1	19.9	28 E	9*	21*
9 28	13 47.66	− 5 41.9	3.591	2.693	8.2	19.8	23 E	7*	16*
10 8	14 2.88	− 7 5.1	3.608	2.668	6.3	19.7	17 E	5*	10*
10 18	14 18.64	− 8 26.4	3.612	2.643	4.4	19.6	12 E	3*	4*
10 28	14 34.90	− 9 44.9	3.601	2.617	2.6	19.5	7 E	1*	—
11 7	14 51.65	−10 59.4	3.576	2.591	2.0	19.4	5 E	—	—
11 17	15 8.86	−12 9.3	3.537	2.563	3.3	19.4	8 W	2*	—
11 27	15 26.50	−13 13.5	3.484	2.535	5.2	19.5	13 W	7*	—
12 7	15 44.54	−14 11.1	3.419	2.506	7.2	19.5	19 W	11*	5*
12 17	16 2.93	−15 1.3	3.341	2.476	9.4	19.5	24 W	15*	10*
12 27	16 21.63	−15 43.3	3.252	2.446	11.5	19.5	30 W	17*	16*
1 6	16 40.56	−16 16.4	3.152	2.415	13.6	19.5	35 W	19*	23*
1 16	16 59.67	−16 40.1	3.042	2.384	15.6	19.5	41 W	21*	29*
		26760 2001 KP_{41}							
12 23	12 26.37	+ 1 38.6	3.119	3.191	17.9	21.2	85 W	47	53*
1 2	12 33.28	+ 1 25.0	2.921	3.141	18.2	21.1	94 W	46	58*
1 12	12 38.92	+ 1 23.8	2.724	3.090	18.1	20.9	103 W	46	62*
1 22	12 43.00	+ 1 37.0	2.531	3.037	17.5	20.6	112 W	47	62
2 1	12 45.24	+ 2 6.6	2.348	2.984	16.4	20.4	122 W	47	62
2 11	12 45.36	+ 2 53.9	2.178	2.929	14.6	20.1	132 W	48	61
2 21	12 43.14	+ 3 59.4	2.025	2.873	12.1	19.9	142 W	49	60
3 2	12 38.48	+ 5 21.8	1.894	2.816	9.0	19.5	154 W	50	59
3 12	12 31.54	+ 6 57.1	1.789	2.758	5.7	19.2	164 W	52	57
3 17	12 27.34	+ 7 47.6	1.747	2.728	4.3	19.1	168 W	53	56
3 22	12 22.76	+ 8 38.6	1.712	2.699	3.7	19.0	170 W	54	55
3 27	12 17.92	+ 9 29.0	1.685	2.669	4.5	19.0	168 E	54	55
4 1	12 12.95	+10 17.6	1.665	2.638	6.2	19.0	163 E	55	54
4 6	12 7.98	+11 3.0	1.652	2.608	8.2	19.0	158 E	56	53
4 11	12 3.15	+11 44.4	1.646	2.577	10.3	19.1	153 E	57	52
4 16	11 58.60	+12 20.9	1.646	2.546	12.5	19.2	147 E	57	52
4 21	11 54.44	+12 51.8	1.652	2.514	14.5	19.2	141 E	58	51
5 1	11 47.74	+13 35.3	1.679	2.451	18.4	19.3	130 E	59	50
5 11	11 43.65	+13 53.7	1.720	2.386	21.6	19.4	120 E	59	50
5 21	11 42.45	+13 48.3	1.772	2.321	24.2	19.5	110 E	59*	50
5 31	11 44.15	+13 21.4	1.828	2.255	26.2	19.6	101 E	55*	51
6 10	11 48.61	+12 35.5	1.886	2.188	27.6	19.6	93 E	50*	51
6 20	11 55.60	+11 33.0	1.941	2.120	28.6	19.6	86 E	44*	52
6 30	12 4.91	+10 15.8	1.991	2.052	29.1	19.6	79 E	39*	54*
7 10	12 16.31	+ 8 45.5	2.035	1.983	29.3	19.6	73 E	34*	54*
7 20	12 29.64	+ 7 3.4	2.071	1.915	29.2	19.6	67 E	30*	52*
7 30	12 44.78	+ 5 10.5	2.099	1.847	28.9	19.5	62 E	26*	50*
8 9	13 1.66	+ 3 8.0	2.118	1.779	28.5	19.4	57 E	23*	47*
8 19	13 20.26	+ 0 56.9	2.128	1.712	28.0	19.3	52 E	21*	44*
8 29	13 40.61	− 1 21.7	2.131	1.647	27.4	19.2	49 E	19*	41*
9 8	14 2.75	− 3 45.9	2.127	1.583	26.7	19.1	45 E	18*	37*
9 18	14 26.80	− 6 14.0	2.117	1.523	26.1	19.0	42 E	16*	34*
9 28	14 52.88	− 8 43.2	2.103	1.466	25.5	18.9	39 E	15*	32*
10 8	15 21.10	−11 10.0	2.086	1.414	24.9	18.8	37 E	14*	29*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		26760 2001 KP_{41} *(continuation)*							
	h m	° ′			°	m	°	°	°
10 18	15 51.57	−13 30.3	2.069	1.368	24.3	18.7	34 E	14*	27*
10 28	16 24.33	−15 38.7	2.053	1.329	23.8	18.6	33 E	13*	25*
11 7	16 59.30	−17 29.2	2.040	1.297	23.3	18.5	31 E	13*	23*
11 17	17 36.29	−18 55.8	2.034	1.275	22.7	18.5	30 E	13*	21*
11 27	18 14.90	−19 52.6	2.034	1.262	22.1	18.4	29 E	13*	19*
12 7	18 54.53	−20 15.4	2.044	1.260	21.4	18.4	28 E	13*	18*
12 17	19 34.51	−20 2.3	2.064	1.268	20.6	18.4	27 E	13*	17*
12 27	20 14.10	−19 14.0	2.095	1.286	19.6	18.4	26 E	13*	15*
1 1	20 33.54	−18 37.7	2.115	1.299	19.1	18.5	26 E	13*	15*
1 6	20 52.65	−17 54.0	2.137	1.314	18.5	18.5	25 E	13*	14*
1 11	21 11.39	−17 3.7	2.162	1.331	17.8	18.5	24 E	13*	13*
1 16	21 29.71	−16 7.6	2.189	1.349	17.1	18.6	24 E	13*	13*
		32575 2001 QY_{78}							
12 23	12 26.51	− 5 1.1	2.837	2.879	19.8	20.8	82 W	40	58*
1 2	12 33.63	− 5 51.4	2.677	2.863	20.1	20.6	91 W	39	65*
1 12	12 39.20	− 6 32.1	2.516	2.847	19.9	20.5	99 W	38	70*
1 22	12 42.95	− 7 1.4	2.359	2.829	19.3	20.3	108 W	38	71
2 1	12 44.57	− 7 17.2	2.208	2.811	18.0	20.1	118 W	38	71
2 11	12 43.81	− 7 17.8	2.068	2.791	16.1	19.9	128 W	38	71
2 21	12 40.51	− 7 1.6	1.944	2.770	13.4	19.6	139 W	38	71
3 2	12 34.68	− 6 27.8	1.839	2.748	10.1	19.4	151 W	39	70
3 12	12 26.65	− 5 37.5	1.759	2.725	6.1	19.1	163 W	39	70
3 22	12 17.08	− 4 34.1	1.707	2.701	1.8	18.7	175 W	40	69
3 27	12 11.99	− 3 59.1	1.692	2.688	1.2	18.7	177 E	41	68
4 1	12 6.90	− 3 23.2	1.684	2.676	3.3	18.8	171 E	42	67
4 6	12 1.94	− 2 47.4	1.683	2.662	5.6	18.9	165 E	42	67
4 11	11 57.24	− 2 12.5	1.690	2.649	7.8	19.0	159 E	43	66
4 16	11 52.92	− 1 39.5	1.703	2.636	10.0	19.1	153 E	43	66
4 21	11 49.08	− 1 9.2	1.722	2.622	12.1	19.2	147 E	44	65
5 1	11 43.15	− 0 18.9	1.777	2.593	15.8	19.4	135 E	45	64
5 11	11 39.86	+ 0 14.8	1.850	2.564	18.9	19.5	125 E	45	64
5 21	11 39.27	+ 0 30.9	1.935	2.533	21.3	19.7	115 E	45*	63
5 31	11 41.30	+ 0 29.6	2.028	2.501	23.0	19.8	106 E	43*	64
6 10	11 45.70	+ 0 12.1	2.124	2.469	24.1	19.9	97 E	39*	64
6 20	11 52.22	− 0 19.9	2.222	2.435	24.7	20.0	89 E	34*	64
6 30	12 0.61	− 1 4.9	2.317	2.400	24.8	20.1	82 E	29*	65*
7 10	12 10.64	− 2 1.3	2.408	2.365	24.6	20.1	75 E	25*	63*
7 20	12 22.11	− 3 7.4	2.494	2.328	24.0	20.1	69 E	21*	60*
7 30	12 34.89	− 4 22.0	2.572	2.291	23.2	20.2	63 E	17*	55*
8 9	12 48.86	− 5 43.5	2.641	2.253	22.1	20.1	57 E	15*	50*
8 19	13 3.93	− 7 10.7	2.702	2.214	20.9	20.1	51 E	12*	45*
8 29	13 20.08	− 8 42.2	2.753	2.175	19.5	20.1	46 E	10*	40*
9 8	13 37.26	−10 16.7	2.794	2.135	17.9	20.0	41 E	9*	35*
9 18	13 55.49	−11 52.8	2.826	2.095	16.3	19.9	36 E	7*	30*
9 28	14 14.77	−13 28.9	2.847	2.054	14.5	19.9	31 E	6*	25*
10 8	14 35.13	−15 3.3	2.859	2.012	12.7	19.8	26 E	4*	20*
10 18	14 56.60	−16 34.4	2.862	1.971	10.8	19.6	22 E	3*	16*
10 28	15 19.22	−18 0.1	2.855	1.930	8.9	19.5	17 E	2*	11*
11 7	15 43.01	−19 18.3	2.840	1.889	6.9	19.4	13 E	1*	7*
11 17	16 7.98	−20 26.7	2.818	1.848	4.9	19.2	9 E	—	3*
11 27	16 34.12	−21 22.9	2.788	1.808	2.8	19.0	5 E	—	—
12 7	17 1.37	−22 4.5	2.753	1.768	0.9	18.8	2 E	—	—
12 17	17 29.67	−22 29.2	2.713	1.730	1.3	18.7	2 W	—	—
12 27	17 58.88	−22 34.7	2.669	1.693	3.3	18.8	6 W	—	—
1 6	18 28.84	−22 19.3	2.622	1.658	5.3	18.8	9 W	—	2*
1 16	18 59.36	−21 41.7	2.573	1.625	7.3	18.8	12 W	1*	5*
		164207 2004 GU_9							
12 23	12 26.67	+53 42.5	0.299	1.101	59.5	20.8	105 W	81	7*
12 28	12 41.06	+55 55.0	0.299	1.108	58.1	20.8	107 W	79	6*
1 2	12 54.14	+58 9.6	0.298	1.114	56.8	20.8	108 W	77	4*
1 7	13 5.63	+60 26.4	0.298	1.120	55.7	20.7	110 W	75	2*
1 12	13 15.13	+62 45.5	0.297	1.125	54.7	20.7	111 W	72	—
1 17	13 22.08	+65 6.9	0.296	1.129	53.9	20.7	112 W	70	—
1 22	13 25.60	+67 30.0	0.295	1.132	53.2	20.7	113 W	68	—
1 27	13 24.41	+69 52.6	0.294	1.134	52.7	20.7	114 W	65	—
2 1	13 16.76	+72 10.4	0.293	1.136	52.4	20.6	114 W	63	—
2 6	13 0.35	+74 16.7	0.292	1.137	52.3	20.6	114 W	61	—
2 11	12 32.65	+76 1.2	0.292	1.137	52.4	20.6	114 W	59	—
2 16	11 52.38	+77 9.5	0.291	1.137	52.7	20.6	114 W	58	—
2 21	11 2.88	+77 24.6	0.291	1.136	53.1	20.6	113 W	58	—
2 26	10 13.42	+76 37.1	0.291	1.134	53.8	20.7	112 E	58	—
3 2	9 33.02	+74 51.5	0.292	1.131	54.7	20.7	111 E	60	—
3 7	9 4.56	+72 21.6	0.292	1.127	55.7	20.7	110 E	63	—
3 12	8 46.37	+69 20.8	0.293	1.123	56.9	20.7	109 E	66	—
3 17	8 35.72	+65 58.3	0.294	1.118	58.3	20.8	107 E	69	—
3 22	8 30.38	+62 20.4	0.296	1.112	59.8	20.8	105 E	73	2
3 27	8 28.77	+58 31.3	0.297	1.105	61.4	20.9	103 E	76	5
4 1	8 29.75	+54 34.2	0.299	1.098	63.1	20.9	101 E	80	9

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		164207 2004 GU_9				*(continuation)*			
	h m	° ′			°	m	°	°	°
4 6	8 32.50	+50 31.6	0.301	1.090	64.9	21.0	99 E	84	13
4 11	8 36.44	+46 24.8	0.303	1.082	66.8	21.0	97 E	89	18
4 16	8 41.16	+42 15.0	0.305	1.073	68.8	21.1	95 E	86*	22
4 21	8 46.43	+38 3.0	0.307	1.063	70.8	21.2	92 E	81*	26
4 26	8 52.06	+33 49.7	0.309	1.053	72.8	21.2	90 E	75*	30
5 1	8 57.87	+29 35.6	0.311	1.043	74.9	21.3	88 E	69*	34
5 6	9 3.70	+25 21.4	0.313	1.032	77.0	21.3	85 E	62*	39
5 11	9 9.41	+21 7.5	0.314	1.021	79.2	21.4	83 E	56*	43
5 16	9 14.91	+16 54.3	0.315	1.009	81.4	21.5	81 E	50*	47*
		307660 2003 SB_{220}							
12 23	12 27.27	+ 2 48.6	2.859	2.948	19.4	21.4	85 W	48	52*
1 2	12 32.29	+ 2 36.7	2.764	3.003	19.1	21.4	94 W	48	58*
1 12	12 35.34	+ 2 38.5	2.669	3.057	18.2	21.3	104 W	48	61*
1 22	12 36.24	+ 2 54.6	2.579	3.110	16.8	21.2	114 W	48	61
2 1	12 34.88	+ 3 24.8	2.499	3.161	14.9	21.1	124 W	48	61
2 11	12 31.25	+ 4 7.9	2.433	3.212	12.4	21.0	135 W	49	60
2 21	12 25.55	+ 5 1.2	2.388	3.262	9.5	20.9	147 W	50	59
3 2	12 18.15	+ 6 0.7	2.368	3.311	6.3	20.8	159 W	51	58
3 12	12 9.65	+ 7 1.2	2.377	3.358	3.2	20.6	169 W	52	57
3 22	12 0.80	+ 7 57.4	2.417	3.405	2.5	20.7	171 E	53	56
4 1	11 52.36	+ 8 44.4	2.487	3.451	5.2	20.9	162 E	54	55
4 11	11 45.01	+ 9 19.1	2.586	3.495	8.0	21.1	151 E	54	55
4 21	11 39.21	+ 9 40.0	2.711	3.539	10.6	21.4	140 E	55	54
		391 Ingeborg							
12 23	12 27.31	−18 48.5	3.079	3.017	18.5	16.6	77 W	26	65*
1 2	12 34.15	−19 45.9	2.941	3.021	18.9	16.5	85 W	25	74*
1 12	12 39.38	−20 34.2	2.800	3.025	18.9	16.4	94 W	24	82*
1 22	12 42.77	−21 11.2	2.659	3.027	18.5	16.3	102 W	24	85
2 1	12 44.04	−21 34.2	2.522	3.028	17.6	16.1	112 W	23	86
2 11	12 43.04	−21 39.9	2.393	3.029	16.1	16.0	122 W	23	86
2 21	12 39.70	−21 25.3	2.278	3.028	14.1	15.8	132 W	24	85
3 2	12 34.13	−20 47.2	2.180	3.026	11.5	15.6	142 W	24	85
3 12	12 26.75	−19 44.5	2.105	3.024	8.6	15.4	153 W	25	84
3 22	12 18.20	−18 18.4	2.057	3.020	5.8	15.2	162 W	27	82
3 27	12 13.75	−17 27.7	2.043	3.018	4.9	15.2	165 E	28	81
4 1	12 9.34	−16 33.1	2.038	3.016	4.7	15.1	166 E	28	81
4 6	12 5.08	−15 35.6	2.040	3.013	5.4	15.2	164 E	29	80
4 11	12 1.09	−14 36.3	2.049	3.010	6.5	15.2	160 E	30	79
4 16	11 57.44	−13 36.5	2.065	3.007	8.0	15.3	155 E	31	78
4 21	11 54.22	−12 37.1	2.089	3.004	9.5	15.4	150 E	32	77
4 26	11 51.49	−11 39.2	2.119	3.000	11.1	15.5	145 E	33	76
5 1	11 49.30	−10 43.9	2.155	2.996	12.5	15.6	140 E	34	75
5 11	11 46.61	− 9 3.5	2.243	2.988	15.1	15.8	129 E	36	73
5 21	11 46.19	− 7 39.8	2.347	2.978	17.2	15.9	119 E	37*	72
5 31	11 47.96	− 6 34.4	2.464	2.968	18.7	16.1	110 E	37*	71
6 10	11 51.70	− 5 47.5	2.589	2.956	19.7	16.2	101 E	34*	70
6 20	11 57.20	− 5 17.7	2.717	2.944	20.2	16.3	93 E	30*	69
6 30	12 4.24	− 5 3.5	2.846	2.930	20.2	16.4	85 E	26*	69*
7 10	12 12.60	− 5 3.0	2.971	2.916	19.9	16.5	77 E	22*	66*
7 20	12 22.10	− 5 14.1	3.092	2.901	19.2	16.5	70 E	19*	61*
7 30	12 32.61	− 5 35.3	3.205	2.884	18.2	16.6	63 E	16*	56*
8 9	12 43.97	− 6 4.7	3.310	2.867	17.0	16.6	56 E	13*	49*
8 19	12 56.11	− 6 40.6	3.403	2.849	15.6	16.6	49 E	11*	43*
8 29	13 8.95	− 7 21.8	3.485	2.829	14.1	16.6	43 E	9*	37*
9 8	13 22.41	− 8 6.7	3.554	2.809	12.3	16.5	37 E	8*	30*
9 18	13 36.46	− 8 54.1	3.609	2.788	10.5	16.5	30 E	6*	24*
9 28	13 51.04	− 9 42.7	3.649	2.766	8.6	16.4	24 E	5*	18*
10 8	14 6.13	−10 31.1	3.674	2.743	6.5	16.3	18 E	3*	12*
10 18	14 21.70	−11 18.2	3.684	2.719	4.5	16.2	12 E	1*	6*
10 28	14 37.72	−12 2.8	3.678	2.695	2.5	16.1	7 E	—	—
11 7	14 54.15	−12 43.7	3.657	2.669	1.4	15.9	4 E	—	—
11 17	15 10.98	−13 19.6	3.620	2.642	2.7	16.0	7 W	1*	—
11 27	15 28.16	−13 49.4	3.568	2.615	4.8	16.1	13 W	6*	—
12 7	15 45.63	−14 11.9	3.502	2.587	6.9	16.1	18 W	11*	5*
12 17	16 3.36	−14 25.9	3.422	2.558	9.1	16.1	24 W	15*	10*
12 27	16 21.27	−14 30.3	3.329	2.528	11.3	16.1	30 W	19*	16*
1 6	16 39.29	−14 24.1	3.225	2.497	13.4	16.1	36 W	21*	22*
1 16	16 57.34	−14 6.1	3.109	2.465	15.4	16.1	42 W	24*	29*
		10051 Albee							
12 23	12 27.97	− 0 57.5	2.374	2.469	23.3	19.5	84 W	44	54*
1 2	12 36.58	− 0 44.7	2.268	2.504	23.1	19.5	92 W	44	60*
1 12	12 43.23	− 0 12.7	2.161	2.538	22.4	19.4	101 W	45	63*
1 22	12 47.66	+ 0 40.3	2.058	2.571	21.0	19.2	110 W	46	63
2 1	12 49.59	+ 1 55.7	1.962	2.603	19.0	19.1	120 W	47	62
2 11	12 48.85	+ 3 33.1	1.879	2.635	16.4	19.0	131 W	49	60
2 21	12 45.41	+ 5 29.8	1.813	2.665	13.1	18.8	142 W	50	59

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		10051 Albee				*(continuation)*			
	h m	° ′			°	m	°	°	°
2 26	12 42.73	+ 6 33.6	1.789	2.679	11.3	18.7	148 W	52	57
3 2	12 39.47	+ 7 39.8	1.771	2.694	9.5	18.6	153 W	53	56
3 7	12 35.73	+ 8 47.1	1.760	2.708	7.7	18.5	159 W	54	55
3 12	12 31.59	+ 9 54.0	1.756	2.722	6.1	18.5	163 W	55	54
3 17	12 27.17	+10 59.3	1.759	2.736	5.0	18.4	166 W	56	53
3 22	12 22.58	+12 1.5	1.770	2.749	4.8	18.4	167 W	57	52
3 27	12 17.97	+12 59.5	1.788	2.762	5.6	18.5	164 E	58	51
4 1	12 13.45	+13 52.2	1.814	2.775	7.0	18.6	160 E	59	50
4 6	12 9.17	+14 38.8	1.847	2.788	8.6	18.7	155 E	60	49
4 11	12 5.22	+15 18.7	1.886	2.800	10.2	18.9	150 E	60	49
4 21	11 58.65	+16 18.3	1.983	2.824	13.3	19.1	140 E	61	48
5 1	11 54.22	+16 51.3	2.100	2.847	15.9	19.3	129 E	62	47
5 11	11 52.12	+17 0.5	2.232	2.869	17.8	19.6	120 E	62	47
5 21	11 52.30	+16 49.8	2.375	2.890	19.1	19.8	111 E	62*	47
5 31	11 54.57	+16 22.7	2.525	2.910	19.9	19.9	102 E	59*	48
6 10	11 58.70	+15 42.6	2.679	2.928	20.2	20.1	94 E	54*	48
6 20	12 4.43	+14 52.3	2.833	2.946	20.1	20.2	86 E	48*	49
6 30	12 11.52	+13 54.0	2.984	2.962	19.7	20.3	79 E	43*	50*
7 10	12 19.75	+12 49.7	3.132	2.978	18.9	20.4	72 E	37*	50*
7 20	12 28.95	+11 40.9	3.272	2.992	18.0	20.5	65 E	33*	48*
7 30	12 38.98	+10 28.8	3.405	3.006	16.8	20.5	59 E	29*	45*
8 9	12 49.69	+ 9 14.7	3.528	3.018	15.4	20.6	52 E	26*	41*
8 19	13 1.01	+ 7 59.4	3.640	3.029	14.0	20.6	46 E	23*	36*
8 29	13 12.84	+ 6 44.1	3.739	3.039	12.4	20.6	40 E	20*	30*
9 8	13 25.11	+ 5 29.4	3.825	3.048	10.8	20.6	34 E	18*	25*
9 18	13 37.77	+ 4 16.4	3.898	3.056	9.1	20.6	29 E	16*	19*
9 28	13 50.77	+ 3 5.7	3.955	3.063	7.5	20.6	24 E	14*	12*
10 8	14 4.05	+ 1 58.3	3.996	3.069	6.1	20.5	19 E	12*	6*
10 18	14 17.57	+ 0 54.8	4.022	3.073	5.0	20.5	15 E	9*	—
10 28	14 31.29	− 0 3.8	4.031	3.077	4.5	20.5	14 E	7*	—
11 7	14 45.15	− 0 56.8	4.024	3.080	4.9	20.5	15 W	6*	—
11 17	14 59.10	− 1 43.4	4.000	3.081	5.9	20.5	19 W	12*	—
11 27	15 13.07	− 2 22.8	3.960	3.081	7.4	20.6	24 W	18*	—
12 7	15 26.98	− 2 54.4	3.905	3.081	8.9	20.6	29 W	23*	4*
12 17	15 40.76	− 3 17.3	3.834	3.079	10.5	20.6	35 W	27*	10*
12 27	15 54.30	− 3 31.1	3.748	3.076	12.1	20.6	41 W	31*	17*
1 6	16 7.49	− 3 35.1	3.650	3.072	13.7	20.6	48 W	34*	25*
1 16	16 20.21	− 3 28.8	3.539	3.067	15.1	20.6	54 W	37*	32*
		144411 2004 EW_9							
12 23	12 28.12	−11 6.5	2.095	2.151	26.7	21.1	80 W	34	61*
1 2	12 41.18	−13 16.2	1.915	2.093	28.0	20.9	86 W	32	69*
1 12	12 53.79	−15 29.3	1.735	2.032	28.9	20.6	93 W	30	76*
1 22	13 5.81	−17 46.3	1.558	1.968	29.6	20.3	99 W	27	82*
2 1	13 17.03	−20 8.1	1.384	1.903	29.9	20.0	106 W	25	84
2 11	13 27.20	−22 35.9	1.217	1.835	29.9	19.6	112 W	22	87
2 21	13 35.98	−25 11.4	1.058	1.764	29.3	19.2	119 W	20	89
3 2	13 42.87	−27 56.4	0.909	1.692	28.4	18.8	126 W	17	88
3 7	13 45.42	−29 23.2	0.839	1.655	27.7	18.5	129 W	16	87
3 12	13 47.26	−30 53.3	0.771	1.618	26.9	18.3	133 W	14	85
3 17	13 48.26	−32 27.1	0.707	1.580	26.1	18.0	136 W	13	84
3 22	13 48.29	−34 4.6	0.645	1.542	25.2	17.7	139 W	11	82
3 27	13 47.17	−35 46.0	0.588	1.503	24.3	17.5	142 W	9	80
4 1	13 44.75	−37 31.2	0.533	1.465	23.6	17.2	144 W	7	78
4 6	13 40.84	−39 20.4	0.482	1.426	23.2	16.9	146 W	6	77
4 11	13 35.20	−41 13.3	0.435	1.387	23.3	16.6	147 W	4	75
4 16	13 27.53	−43 9.6	0.390	1.347	24.0	16.3	147 E	2	73
4 21	13 17.48	−45 8.2	0.349	1.308	25.6	16.1	146 E	—	71
4 26	13 4.65	−47 8.2	0.311	1.269	28.3	15.8	143 E	—	69
5 1	12 48.50	−49 8.7	0.275	1.231	31.9	15.6	140 E	—	67
5 3	12 40.94	−49 56.8	0.262	1.215	33.7	15.5	138 E	—	66
5 5	12 32.65	−50 44.8	0.249	1.200	35.7	15.4	136 E	—	65
5 7	12 23.53	−51 32.6	0.236	1.185	37.8	15.4	134 E	—	64
5 9	12 13.47	−52 19.9	0.224	1.170	40.1	15.3	132 E	—	64
5 11	12 2.32	−53 6.4	0.212	1.156	42.7	15.2	129 E	—	63
5 13	11 49.91	−53 51.5	0.200	1.141	45.4	15.1	127 E	—	62
5 15	11 36.03	−54 34.6	0.189	1.127	48.3	15.1	124 E	—	61
5 17	11 20.42	−55 14.6	0.178	1.112	51.5	15.0	121 E	—	61
5 19	11 2.81	−55 49.8	0.167	1.098	55.0	14.9	117 E	—	60
5 21	10 42.85	−56 17.9	0.157	1.085	58.7	14.9	114 E	—	60
5 22	10 31.89	−56 28.2	0.151	1.078	60.7	14.8	112 E	—	60
5 23	10 20.22	−56 35.3	0.146	1.071	62.8	14.8	110 E	—	59
5 24	10 7.80	−56 38.5	0.142	1.064	65.0	14.8	108 E	—	59
5 25	9 54.62	−56 37.1	0.137	1.058	67.3	14.8	106 E	—	59
5 26	9 40.65	−56 30.0	0.132	1.051	69.7	14.8	103 E	—	59*
5 27	9 25.91	−56 16.3	0.128	1.045	72.2	14.8	101 E	—	59*
5 28	9 10.43	−55 54.8	0.123	1.039	74.8	14.8	98 E	—	58*
5 29	8 54.26	−55 24.2	0.119	1.032	77.6	14.8	96 E	—	58*
5 30	8 37.49	−54 43.0	0.115	1.026	80.5	14.8	93 E	—	56*

144411 2004 EW_9 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 31	8 20.24	−53 49.9	0.111	1.020	83.6	14.8	90 E	—	55*
6 1	8 2.67	−52 43.5	0.108	1.014	86.8	14.8	87 E	—	53*
6 2	7 44.94	−51 22.5	0.104	1.009	90.2	14.9	84 E	—	51*
6 3	7 27.25	−49 45.9	0.101	1.003	93.7	15.0	81 E	—	48*
6 4	7 9.79	−47 53.1	0.098	0.997	97.4	15.1	77 E	—	45*
6 5	6 52.73	−45 43.8	0.096	0.992	101.2	15.2	73 E	—	42*
6 6	6 36.24	−43 18.3	0.094	0.986	105.1	15.3	70 E	—	38*
6 7	6 20.44	−40 37.5	0.092	0.981	109.1	15.5	66 E	—	35*
6 8	6 5.45	−37 43.0	0.091	0.976	113.1	15.7	62 E	—	30*
6 9	5 51.31	−34 37.0	0.091	0.971	117.0	15.9	58 E	—	26*
6 10	5 38.07	−31 22.1	0.090	0.966	120.9	16.2	55 E	—	22*
6 11	5 25.73	−28 1.2	0.091	0.961	124.6	16.5	51 E	—	17*
6 12	5 14.29	−24 37.4	0.092	0.956	128.1	16.8	48 W	—	16*
6 13	5 3.71	−21 13.8	0.093	0.952	131.3	17.2	45 W	—	18*
6 14	4 53.96	−17 53.2	0.095	0.948	134.1	17.5	42 W	—	20*
6 15	4 44.99	−14 37.8	0.097	0.943	136.4	17.8	40 W	—	22*
6 16	4 36.75	−11 29.7	0.100	0.939	138.3	18.1	38 W	—	23*
6 17	4 29.20	− 8 30.1	0.103	0.935	139.7	18.3	37 W	—	24*
6 18	4 22.28	− 5 40.1	0.106	0.932	140.5	18.5	36 W	—	26*
6 19	4 15.95	− 3 0.0	0.110	0.928	141.0	18.6	35 W	—	27*
6 20	4 10.17	− 0 30.0	0.115	0.925	141.0	18.7	35 W	—	28*
6 22	4 0.09	+ 4 0.3	0.124	0.918	140.0	18.7	36 W	—	29*
6 24	3 51.72	+ 7 54.0	0.134	0.913	138.0	18.6	37 W	5*	31*
6 26	3 44.84	+11 15.4	0.145	0.908	135.4	18.5	39 W	10*	31*
6 28	3 39.23	+14 9.4	0.157	0.904	132.5	18.3	41 W	14*	32*
6 30	3 34.72	+16 40.2	0.170	0.900	129.5	18.2	43 W	18*	32*
7 2	3 31.17	+18 51.8	0.183	0.897	126.5	18.1	45 W	22*	33*
7 4	3 28.46	+20 47.2	0.196	0.896	123.5	17.9	47 W	25*	33*
7 6	3 26.50	+22 29.2	0.209	0.894	120.5	17.8	49 W	28*	33*
7 8	3 25.19	+24 0.1	0.223	0.894	117.6	17.8	51 W	31*	32*
7 10	3 24.45	+25 21.5	0.236	0.895	114.8	17.7	53 W	34*	32*
7 12	3 24.22	+26 35.0	0.250	0.896	112.0	17.6	55 W	37*	32*
7 14	3 24.43	+27 41.8	0.264	0.898	109.4	17.6	56 W	39*	32*
7 16	3 25.02	+28 42.7	0.278	0.901	106.8	17.6	58 W	41*	31*
7 18	3 25.95	+29 38.8	0.291	0.904	104.3	17.6	60 W	43*	31*
7 20	3 27.17	+30 30.4	0.305	0.909	101.9	17.5	61 W	45*	31*
7 25	3 31.20	+32 24.1	0.337	0.923	96.2	17.5	65 W	50*	30*
7 30	3 36.25	+34 0.1	0.368	0.941	90.8	17.5	68 W	55*	29*
8 4	3 41.89	+35 22.9	0.397	0.963	85.9	17.5	71 W	59*	28*
8 9	3 47.75	+36 35.3	0.423	0.988	81.2	17.5	74 W	63*	27*
8 14	3 53.48	+37 39.3	0.447	1.016	76.9	17.6	78 W	67*	26*
8 19	3 58.76	+38 36.4	0.468	1.047	72.7	17.6	81 W	71*	25*
8 24	4 3.30	+39 27.3	0.485	1.080	68.7	17.6	85 W	76*	25
8 29	4 6.88	+40 12.7	0.501	1.115	64.9	17.6	88 W	80*	24
9 3	4 9.27	+40 53.0	0.513	1.151	61.1	17.6	92 W	84*	23
9 8	4 10.27	+41 28.2	0.523	1.188	57.4	17.6	97 W	86*	23
9 13	4 9.67	+41 57.9	0.531	1.226	53.6	17.6	101 W	87	22
9 18	4 7.29	+42 21.2	0.538	1.264	49.8	17.6	106 W	87	22
9 23	4 3.02	+42 36.7	0.544	1.303	45.9	17.6	111 W	88	21
9 28	3 56.85	+42 42.6	0.550	1.342	41.8	17.6	117 W	88	21
10 3	3 48.87	+42 37.0	0.556	1.381	37.7	17.5	122 W	88	21
10 8	3 39.29	+42 17.9	0.564	1.420	33.4	17.5	129 W	87	22
10 13	3 28.42	+41 43.7	0.573	1.460	29.0	17.5	135 W	87	22
10 18	3 16.74	+40 53.4	0.586	1.498	24.7	17.5	141 W	86	23
10 23	3 4.82	+39 47.4	0.603	1.537	20.5	17.5	147 W	85	24
10 28	2 53.23	+38 27.9	0.624	1.575	16.7	17.5	153 W	83	26
11 2	2 42.46	+36 58.1	0.651	1.613	13.6	17.5	158 W	82	27
11 7	2 32.87	+35 22.0	0.683	1.650	11.5	17.6	161 E	80	29
11 12	2 24.69	+33 43.6	0.720	1.687	11.0	17.7	161 E	79	30
11 17	2 18.03	+32 6.7	0.763	1.724	11.8	17.9	159 E	77	32
11 22	2 12.92	+30 34.6	0.812	1.760	13.4	18.2	156 E	76	33
11 27	2 9.30	+29 9.6	0.866	1.795	15.3	18.4	151 E	74	35
12 2	2 7.05	+27 53.0	0.925	1.830	17.3	18.7	146 E	73	36
12 7	2 6.04	+26 45.4	0.989	1.864	19.2	18.9	142 E	72	37
12 12	2 6.13	+25 46.9	1.057	1.898	20.8	19.1	137 E	71	38
12 17	2 7.21	+24 57.3	1.129	1.931	22.3	19.4	132 E	70	39
12 22	2 9.17	+24 16.2	1.205	1.964	23.5	19.6	127 E	69	40
12 27	2 11.89	+23 42.8	1.284	1.996	24.5	19.8	123 E	69	40
1 1	2 15.28	+23 16.4	1.365	2.027	25.2	20.0	118 E	68	41
1 6	2 19.25	+22 56.3	1.449	2.058	25.8	20.2	114 E	68	41*
1 11	2 23.73	+22 41.6	1.535	2.089	26.2	20.3	110 E	68	41*
1 16	2 28.67	+22 31.8	1.622	2.118	26.5	20.5	106 E	68	41*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 28.35	+10 25.3	1.662	1.906	31.1	21.2	88 W	55	46*
1 2	12 46.67	+ 9 31.7	1.533	1.874	31.6	21.0	94 W	55	50*
1 12	13 4.22	+ 8 49.2	1.407	1.843	31.8	20.8	99 W	54	53*
1 22	13 20.76	+ 8 19.6	1.288	1.813	31.6	20.6	105 W	53	55*
2 1	13 35.90	+ 8 4.6	1.174	1.785	31.0	20.3	111 W	53	56
2 11	13 49.21	+ 8 4.8	1.069	1.758	29.8	20.1	118 W	53	56
2 21	14 0.16	+ 8 19.8	0.972	1.734	28.1	19.8	124 W	53	56
3 2	14 8.11	+ 8 47.5	0.885	1.711	25.7	19.5	131 W	54	55

500788 2013 EP_{109} *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 7	14 10.78	+ 9 4.5	0.846	1.700	24.3	19.3	135 W	54	55
3 12	14 12.50	+ 9 22.6	0.809	1.690	22.7	19.2	139 W	54	55
3 17	14 13.20	+ 9 40.5	0.777	1.681	21.0	19.0	143 W	55	54
3 22	14 12.87	+ 9 57.0	0.747	1.672	19.1	18.9	147 W	55	54
3 27	14 11.50	+10 10.3	0.722	1.664	17.3	18.7	150 W	55	54
4 1	14 9.16	+10 18.7	0.700	1.657	15.5	18.6	154 W	55	54
4 6	14 5.97	+10 20.3	0.683	1.650	13.9	18.5	157 W	55	54
4 11	14 2.08	+10 13.5	0.670	1.644	12.9	18.4	159 W	55	54
4 16	13 57.69	+ 9 57.1	0.661	1.639	12.5	18.3	159 W	55	54
4 21	13 53.04	+ 9 30.0	0.657	1.634	12.9	18.3	159 E	54	55
4 26	13 48.39	+ 8 51.8	0.657	1.631	14.1	18.4	157 E	54	55
5 1	13 44.02	+ 8 2.6	0.662	1.628	15.8	18.4	154 E	53	56
5 6	13 40.16	+ 7 3.1	0.670	1.626	17.9	18.5	150 E	52	57
5 11	13 36.99	+ 5 54.5	0.683	1.624	20.0	18.6	147 E	51	58
5 16	13 34.66	+ 4 38.0	0.700	1.624	22.2	18.7	143 E	50	59
5 21	13 33.26	+ 3 15.3	0.720	1.624	24.3	18.9	139 E	48	61
5 26	13 32.84	+ 1 47.5	0.744	1.625	26.2	19.0	135 E	47	62
5 31	13 33.43	+ 0 16.1	0.770	1.627	28.0	19.1	131 E	45	64
6 5	13 35.01	− 1 17.8	0.800	1.630	29.6	19.3	128 E	44	65
6 10	13 37.52	− 2 53.0	0.832	1.634	31.0	19.4	124 E	42	67
6 15	13 40.91	− 4 28.6	0.866	1.638	32.2	19.5	121 E	40*	68
6 20	13 45.14	− 6 4.0	0.903	1.643	33.2	19.6	118 E	38*	70
6 30	13 55.87	− 9 12.1	0.983	1.655	34.8	19.9	112 E	34*	73
7 10	14 9.26	−12 13.3	1.070	1.671	35.7	20.1	106 E	29*	76
7 20	14 24.89	−15 4.9	1.163	1.689	36.2	20.3	101 E	26*	79
7 30	14 42.46	−17 45.3	1.262	1.709	36.2	20.5	97 E	22*	82
8 9	15 1.69	−20 12.7	1.366	1.732	35.8	20.7	92 E	19*	84*
8 19	15 22.35	−22 25.7	1.475	1.756	35.2	20.9	88 E	17*	82*
8 29	15 44.26	−24 23.4	1.588	1.783	34.2	21.1	84 E	15*	78*
9 8	16 7.21	−26 4.7	1.704	1.811	33.1	21.2	79 E	14*	73*
9 18	16 31.03	−27 28.8	1.822	1.841	31.8	21.4	75 E	13*	69*

368160 1999 HW_2

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 28.98	−10 37.1	2.341	2.373	24.1	20.9	80 W	34	61*
1 2	12 42.28	−11 5.7	2.166	2.327	25.0	20.8	87 W	34	67*
1 12	12 54.90	−11 18.3	1.991	2.280	25.5	20.6	94 W	34	73*
1 22	13 6.64	−11 10.4	1.819	2.233	25.6	20.3	101 W	34	75*
1 27	13 12.09	−10 57.2	1.734	2.210	25.4	20.2	105 W	34	75
2 1	13 17.21	−10 36.8	1.651	2.186	25.1	20.0	109 W	34	75
2 6	13 21.96	−10 8.3	1.570	2.163	24.7	19.9	114 W	35	74
2 11	13 26.29	− 9 31.1	1.491	2.139	24.0	19.7	118 W	35	74
2 16	13 30.16	− 8 44.1	1.415	2.116	23.2	19.6	122 W	36	73
2 21	13 33.52	− 7 46.4	1.343	2.093	22.2	19.4	127 W	37	72
2 26	13 36.30	− 6 37.3	1.274	2.069	20.9	19.2	132 W	38	71
3 2	13 38.47	− 5 15.8	1.209	2.046	19.4	19.0	137 W	40	69
3 12	13 40.83	− 1 54.8	1.094	2.000	15.8	18.7	147 W	43	66
3 22	13 40.42	+ 2 15.9	1.001	1.955	11.9	18.3	156 W	47	62
4 1	13 37.35	+ 7 4.9	0.935	1.910	9.3	18.0	162 W	52	57
4 6	13 35.00	+ 9 36.7	0.912	1.888	9.5	17.9	162 W	55	54
4 11	13 32.28	+12 8.4	0.896	1.867	10.9	17.9	159 W	57	52
4 16	13 29.33	+14 36.1	0.886	1.846	13.2	17.9	155 E	60	49
4 21	13 26.31	+16 55.8	0.883	1.825	15.8	18.0	150 E	62	47
4 26	13 23.42	+19 4.0	0.885	1.805	18.6	18.1	145 E	64	45
5 1	13 20.86	+20 58.3	0.893	1.785	21.4	18.2	140 E	66	43
5 6	13 18.80	+22 37.0	0.905	1.766	24.0	18.2	135 E	68	41
5 11	13 17.37	+23 59.5	0.920	1.747	26.4	18.3	130 E	69	40
5 16	13 16.67	+25 5.8	0.939	1.729	28.7	18.4	125 E	70	39
5 21	13 16.80	+25 56.3	0.959	1.712	30.6	18.5	120 E	71	38
5 26	13 17.80	+26 31.9	0.982	1.695	32.4	18.6	116 E	72	37
5 31	13 19.70	+26 53.6	1.005	1.679	33.9	18.6	113 E	72	37
6 5	13 22.50	+27 2.8	1.029	1.664	35.2	18.7	109 E	72	37
6 10	13 26.16	+27 0.5	1.053	1.649	36.3	18.8	106 E	72*	37
6 15	13 30.65	+26 47.8	1.078	1.636	37.3	18.8	103 E	71*	37
6 20	13 35.93	+26 25.6	1.102	1.623	38.1	18.9	100 E	69*	38
6 25	13 41.97	+25 54.6	1.126	1.612	38.7	18.9	97 E	67*	38
6 30	13 48.72	+25 15.9	1.150	1.601	39.2	19.0	95 E	65*	39
7 5	13 56.12	+24 30.0	1.172	1.592	39.6	19.0	93 E	64*	39
7 10	14 4.14	+23 37.6	1.195	1.583	39.9	19.1	91 E	62*	40
7 15	14 12.72	+22 39.2	1.217	1.576	40.2	19.1	89 E	60*	41
7 20	14 21.84	+21 35.3	1.238	1.570	40.3	19.1	88 E	58*	42
7 25	14 31.47	+20 26.4	1.259	1.565	40.4	19.2	86 E	57*	44
7 30	14 41.57	+19 13.1	1.280	1.561	40.4	19.2	85 E	55*	45
8 4	14 52.11	+17 55.9	1.301	1.559	40.3	19.2	84 E	54*	46
8 9	15 3.06	+16 35.2	1.322	1.558	40.2	19.3	82 E	52*	47*
8 14	15 14.39	+15 11.6	1.344	1.557	40.0	19.3	81 E	51*	49*
8 19	15 26.09	+13 45.6	1.366	1.559	39.8	19.3	80 E	50*	50*
8 24	15 38.14	+12 17.8	1.389	1.561	39.5	19.3	79 E	49*	51*
8 29	15 50.50	+10 49.0	1.413	1.565	39.2	19.4	79 E	48*	51*
9 3	16 3.16	+ 9 19.8	1.438	1.569	38.9	19.4	78 E	47*	52*

368160 1999 HW_2 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 8	16 16.08	+ 7 50.7	1.464	1.575	38.5	19.5	77 E	46*	53*
9 13	16 29.24	+ 6 22.6	1.492	1.583	38.1	19.5	76 E	45*	53*
9 18	16 42.63	+ 4 56.1	1.522	1.591	37.6	19.5	75 E	44*	53*
9 23	16 56.22	+ 3 31.9	1.554	1.600	37.1	19.6	74 E	43*	53*
9 28	17 9.97	+ 2 10.7	1.588	1.611	36.5	19.6	73 E	42*	53*
10 8	17 37.85	− 0 20.3	1.663	1.635	35.3	19.7	71 E	41*	52*
10 18	18 6.03	− 2 32.9	1.746	1.662	33.9	19.8	68 E	39*	51*
10 28	18 34.29	− 4 24.1	1.839	1.693	32.3	19.9	66 E	38*	48*
11 7	19 2.37	− 5 52.1	1.939	1.727	30.7	20.0	63 E	36*	45*
11 17	19 30.06	− 6 56.7	2.047	1.764	28.9	20.2	59 E	35*	42*
11 27	19 57.21	− 7 38.6	2.160	1.803	27.0	20.3	56 E	34*	37*
12 7	20 23.66	− 7 59.3	2.277	1.844	24.9	20.4	52 E	33*	33*
12 17	20 49.34	− 8 1.1	2.397	1.886	22.8	20.5	48 E	32*	28*
12 27	21 14.19	− 7 46.2	2.517	1.930	20.6	20.6	44 E	30*	24*
1 6	21 38.18	− 7 17.4	2.636	1.975	18.4	20.6	39 E	28*	20*
1 16	22 1.35	− 6 37.0	2.751	2.021	16.1	20.7	35 E	25*	16*

308020 2004 RM_{222}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 29.09	+ 7 10.6	2.099	2.268	25.7	19.8	87 W	52	48*
1 2	12 36.80	+ 6 18.0	2.019	2.317	25.0	19.7	95 W	51	54*
1 12	12 42.04	+ 5 39.9	1.938	2.367	23.8	19.6	103 W	51	58*
1 22	12 44.55	+ 5 16.8	1.861	2.417	22.1	19.5	113 W	50	59
2 1	12 44.06	+ 5 8.5	1.791	2.467	19.6	19.4	123 W	50	59
2 11	12 40.52	+ 5 13.7	1.733	2.516	16.5	19.3	134 W	50	59
2 21	12 34.05	+ 5 29.8	1.692	2.565	12.8	19.1	145 W	50	59
3 2	12 25.13	+ 5 52.7	1.673	2.614	8.6	19.0	157 W	51	58
3 7	12 20.01	+ 6 4.9	1.674	2.638	6.4	18.9	163 W	51	58
3 12	12 14.62	+ 6 16.8	1.681	2.662	4.3	18.8	168 W	51	58
3 17	12 9.11	+ 6 27.6	1.696	2.686	2.7	18.8	173 W	51	58
3 22	12 3.62	+ 6 36.8	1.718	2.710	2.7	18.8	173 E	52	57
4 1	11 53.27	+ 6 47.9	1.784	2.757	6.0	19.1	163 E	52	57
4 11	11 44.54	+ 6 47.4	1.878	2.803	9.6	19.4	152 E	52	57
4 21	11 38.01	+ 6 34.5	1.996	2.849	12.8	19.7	141 E	52	57
5 1	11 33.94	+ 6 9.5	2.134	2.894	15.3	20.0	131 E	51	58
5 11	11 32.31	+ 5 33.8	2.289	2.938	17.1	20.2	121 E	51	58
5 21	11 32.92	+ 4 48.9	2.455	2.982	18.4	20.5	112 E	49*	59
5 31	11 35.51	+ 3 56.1	2.630	3.025	19.1	20.7	103 E	46*	60
6 10	11 39.78	+ 2 56.7	2.809	3.067	19.3	20.9	95 E	41*	61
6 20	11 45.47	+ 1 51.8	2.990	3.108	19.1	21.0	87 E	35*	62
6 30	11 52.33	+ 0 42.4	3.170	3.149	18.5	21.1	80 E	29*	63*
7 10	12 0.16	− 0 30.8	3.347	3.189	17.7	21.3	72 E	24*	61*
7 20	12 8.79	− 1 46.9	3.519	3.228	16.6	21.4	65 E	20*	57*
7 30	12 18.08	− 3 5.4	3.682	3.266	15.3	21.4	58 E	16*	51*

10115 1992 *SK*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 30.89	+20 27.9	0.820	1.301	49.1	19.0	92 W	65	37*
12 28	12 46.92	+18 59.0	0.772	1.277	50.3	18.8	93 W	64	39*
1 2	13 3.44	+17 20.9	0.726	1.253	51.6	18.7	93 W	62	41*
1 7	13 20.56	+15 31.7	0.681	1.227	53.1	18.6	93 W	61	43*
1 12	13 38.42	+13 29.6	0.638	1.202	54.8	18.4	93 W	58	46*
1 17	13 57.18	+11 12.4	0.597	1.176	56.7	18.3	93 W	56	48*
1 22	14 17.00	+ 8 37.9	0.559	1.150	58.8	18.2	92 W	54	51*
1 27	14 38.10	+ 5 43.8	0.524	1.123	61.2	18.0	91 W	51	54*
2 1	15 0.69	+ 2 28.5	0.492	1.097	63.9	17.9	89 W	47	57*
2 11	15 51.44	− 5 6.2	0.442	1.044	70.2	17.8	85 W	40	63*
2 21	16 51.01	−13 37.8	0.415	0.994	77.2	17.8	79 W	31*	66*
3 2	17 59.17	−21 41.0	0.414	0.947	83.7	17.9	72 W	21*	65*
3 4	18 13.55	−23 4.1	0.417	0.939	84.7	17.9	70 W	19*	64*
3 6	18 28.07	−24 20.9	0.422	0.930	85.7	18.0	69 W	18*	63*
3 8	18 42.68	−25 30.5	0.427	0.922	86.6	18.0	68 W	16*	62*
3 10	18 57.32	−26 32.7	0.434	0.914	87.3	18.1	67 W	14*	61*
3 12	19 11.91	−27 27.1	0.441	0.906	87.9	18.1	66 W	12*	60*
3 17	19 47.82	−29 8.5	0.464	0.889	88.9	18.2	63 W	8*	57*
3 22	20 22.23	−30 2.1	0.492	0.874	89.1	18.3	61 W	5*	54*
3 27	20 54.52	−30 13.1	0.524	0.862	88.7	18.4	60 W	3*	52*
4 1	21 24.37	−29 48.3	0.559	0.852	87.6	18.5	58 W	1*	50*
4 6	21 51.72	−28 54.8	0.596	0.846	86.0	18.5	58 W	—	49*
4 11	22 16.71	−27 38.9	0.636	0.843	84.1	18.6	57 W	—	48*
4 16	22 39.56	−26 5.9	0.675	0.844	81.9	18.6	56 W	—	48*
4 21	23 0.52	−24 20.4	0.715	0.847	79.6	18.7	56 W	—	48*
4 26	23 19.83	−22 25.9	0.754	0.854	77.2	18.7	56 W	—	48*
5 1	23 37.73	−20 25.3	0.792	0.865	74.8	18.8	56 W	—	48*
5 6	23 54.42	−18 20.8	0.828	0.878	72.4	18.8	56 W	—	49*
5 11	0 10.09	−16 14.3	0.862	0.893	70.2	18.9	56 W	—	49*
5 16	0 24.88	−14 7.1	0.894	0.911	68.1	19.0	57 W	1*	50*
5 21	0 38.92	−12 0.4	0.923	0.931	66.2	19.0	57 W	3*	51*
5 26	0 52.30	− 9 55.2	0.948	0.953	64.4	19.1	58 W	5*	52*
5 31	1 5.08	− 7 52.0	0.971	0.976	62.8	19.1	59 W	7*	53*

10115 1992 *SK* *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 10	1 29.14	− 3 53.6	1.007	1.025	59.9	19.2	61 W	11*	54*
6 20	1 51.50	− 0 7.4	1.030	1.077	57.6	19.3	64 W	17*	55*
6 30	2 12.33	+ 3 26.0	1.039	1.130	55.7	19.4	67 W	23*	55*
7 10	2 31.74	+ 6 47.0	1.036	1.182	54.1	19.4	70 W	30*	54*
7 20	2 49.69	+ 9 57.2	1.021	1.234	52.5	19.4	75 W	38*	53*
7 30	3 6.00	+12 58.2	0.995	1.283	51.0	19.4	79 W	45*	51*
8 9	3 20.40	+15 52.7	0.960	1.331	49.3	19.4	85 W	53*	48*
8 19	3 32.46	+18 43.7	0.916	1.375	47.4	19.3	91 W	60*	45
8 29	3 41.46	+21 34.2	0.867	1.417	44.9	19.2	98 W	66*	42
9 3	3 44.55	+23 0.2	0.840	1.436	43.5	19.1	102 W	68*	41
9 8	3 46.53	+24 27.2	0.813	1.455	41.8	19.0	106 W	69	40
9 13	3 47.21	+25 55.2	0.786	1.473	39.9	18.9	110 W	71	38
9 18	3 46.42	+27 24.0	0.760	1.491	37.8	18.8	115 W	72	37
9 23	3 43.96	+28 52.9	0.734	1.507	35.4	18.7	119 W	74	35
9 28	3 39.66	+30 20.9	0.710	1.522	32.8	18.5	125 W	75	34
10 3	3 33.35	+31 46.3	0.688	1.537	29.9	18.4	130 W	77	32
10 8	3 24.96	+33 6.5	0.670	1.551	26.7	18.3	136 W	78	31
10 13	3 14.46	+34 18.4	0.654	1.564	23.4	18.2	142 W	79	30
10 18	3 2.04	+35 18.0	0.644	1.576	20.1	18.0	147 W	80	29
10 23	2 48.08	+36 2.0	0.638	1.587	17.0	17.9	152 W	81	28
10 28	2 33.20	+36 27.8	0.638	1.598	14.6	17.9	156 W	81	28
11 2	2 18.09	+36 34.5	0.643	1.607	13.4	17.8	158 E	82	27
11 7	2 3.52	+36 23.0	0.655	1.616	13.6	17.9	157 E	81	28
11 12	1 50.14	+35 56.2	0.672	1.623	15.1	18.0	155 E	81	28
11 17	1 38.46	+35 18.0	0.695	1.630	17.4	18.2	150 E	80	29
11 22	1 28.80	+34 33.0	0.723	1.636	19.9	18.4	146 E	80	29
11 27	1 21.25	+33 45.4	0.756	1.641	22.5	18.5	140 E	79	30
12 2	1 15.79	+32 58.7	0.792	1.646	25.0	18.7	135 E	78	31
12 7	1 12.27	+32 15.3	0.832	1.649	27.2	18.9	130 E	77	32
12 12	1 10.52	+31 36.8	0.874	1.651	29.1	19.1	125 E	77	32
12 17	1 10.38	+31 4.1	0.918	1.653	30.8	19.2	121 E	76	33
12 22	1 11.67	+30 37.9	0.964	1.654	32.3	19.4	116 E	76	33*
12 27	1 14.23	+30 18.2	1.012	1.654	33.5	19.5	112 E	75	33*
1 1	1 17.88	+30 4.8	1.060	1.652	34.5	19.6	108 E	75	33*
1 6	1 22.51	+29 57.0	1.108	1.651	35.3	19.8	104 E	75	32*
1 11	1 28.02	+29 54.6	1.157	1.648	35.9	19.9	100 E	75	31*
1 16	1 34.31	+29 57.0	1.205	1.644	36.4	20.0	97 E	75	30*

417204 2005 XS_{39}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 32.65	−16 53.8	1.585	1.661	35.2	19.3	77 W	28	63*
12 28	12 43.71	−18 47.8	1.542	1.655	35.6	19.3	78 W	26	66*
1 2	12 54.74	−20 40.8	1.501	1.651	36.0	19.2	80 W	24	70*
1 7	13 5.74	−22 32.3	1.461	1.647	36.3	19.2	82 W	22	73*
1 12	13 16.67	−24 21.9	1.422	1.644	36.5	19.1	84 W	21	76*
1 17	13 27.53	−26 9.3	1.384	1.643	36.7	19.1	86 W	19	79*
1 22	13 38.27	−27 53.9	1.347	1.642	36.8	19.0	88 W	17	82*
1 27	13 48.85	−29 35.4	1.311	1.643	36.8	19.0	90 W	15	84*
2 1	13 59.21	−31 13.2	1.277	1.645	36.8	18.9	92 W	14	84*
2 6	14 9.30	−32 47.1	1.243	1.648	36.6	18.8	95 W	12	83
2 11	14 19.06	−34 16.7	1.210	1.652	36.4	18.8	97 W	11	82
2 16	14 28.41	−35 41.8	1.179	1.657	36.0	18.7	99 W	9	80
2 21	14 37.26	−37 1.9	1.148	1.663	35.6	18.7	102 W	8	79
2 26	14 45.50	−38 16.7	1.118	1.670	35.0	18.6	105 W	7	78
3 2	14 53.05	−39 25.9	1.089	1.679	34.3	18.5	107 W	6	77
3 7	14 59.79	−40 29.1	1.061	1.688	33.4	18.5	110 W	5	76
3 12	15 5.62	−41 25.9	1.035	1.698	32.4	18.4	114 W	4	75
3 17	15 10.45	−42 16.0	1.010	1.709	31.3	18.3	117 W	3	74
3 22	15 14.15	−42 58.6	0.987	1.721	30.0	18.2	120 W	2	73
3 27	15 16.66	−43 33.2	0.965	1.733	28.5	18.2	124 W	1	72
4 1	15 17.94	−43 58.7	0.946	1.747	26.9	18.1	128 W	1	72
4 6	15 17.99	−44 14.6	0.929	1.761	25.1	18.0	132 W	1	72
4 11	15 16.87	−44 19.8	0.915	1.776	23.2	18.0	136 W	1	72
4 16	15 14.67	−44 13.8	0.903	1.792	21.1	17.9	140 W	1	72
4 21	15 11.56	−43 55.7	0.896	1.808	19.1	17.8	144 W	1	72
4 26	15 7.76	−43 25.4	0.892	1.825	17.0	17.8	148 W	2	73
5 1	15 3.56	−42 43.1	0.893	1.843	15.1	17.7	152 W	2	73
5 6	14 59.24	−41 50.0	0.898	1.861	13.4	17.7	155 W	3	74
5 11	14 55.06	−40 47.3	0.909	1.879	12.2	17.7	157 E	4	75
5 16	14 51.27	−39 37.1	0.924	1.898	11.7	17.7	158 E	5	76
5 21	14 48.05	−38 21.4	0.944	1.918	11.8	17.8	157 E	7	78
5 26	14 45.57	−37 2.8	0.970	1.938	12.6	17.9	155 E	8	79
5 31	14 43.91	−35 43.5	1.001	1.958	13.8	18.1	153 E	9	80
6 5	14 43.12	−34 25.7	1.037	1.979	15.2	18.2	149 E	11	82
6 10	14 43.18	−33 11.0	1.078	2.000	16.7	18.4	146 E	12	83
6 15	14 44.07	−32 0.6	1.124	2.021	18.2	18.5	142 E	13	84
6 20	14 45.75	−30 55.4	1.174	2.042	19.6	18.7	138 E	14	85
6 25	14 48.17	−29 56.0	1.228	2.064	20.9	18.8	134 E	15	86
6 30	14 51.28	−29 2.6	1.286	2.086	22.1	19.0	130 E	16*	87
7 10	14 59.27	−27 33.6	1.412	2.130	23.9	19.3	122 E	17*	88
7 20	15 9.25	−26 26.2	1.549	2.175	25.2	19.6	114 E	17*	90

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		417204 2005 XS_{39}				*(continuation)*			
	h m	° ′			°	m	°	°	°
7 30	15 20.86	−25 37.0	1.696	2.220	25.9	19.9	107 E	17*	90
8 9	15 33.77	−25 2.5	1.850	2.266	26.1	20.1	101 E	17*	89
8 19	15 47.72	−24 38.7	2.009	2.311	25.9	20.3	94 E	17*	88*
8 29	16 2.53	−24 22.6	2.172	2.357	25.3	20.5	88 E	17*	82*
9 8	16 18.02	−24 11.2	2.338	2.402	24.5	20.7	81 E	17*	75*
9 18	16 34.06	−24 2.2	2.503	2.447	23.4	20.8	75 E	17*	69*
9 28	16 50.54	−23 53.5	2.667	2.492	22.1	21.0	69 E	16*	63*
10 8	17 7.34	−23 43.4	2.827	2.537	20.6	21.1	63 E	16*	57*
10 18	17 24.38	−23 30.7	2.983	2.581	18.9	21.2	57 E	16*	51*
10 28	17 41.58	−23 14.2	3.133	2.624	17.1	21.3	51 E	16*	44*
11 7	17 58.84	−22 53.2	3.275	2.667	15.2	21.3	45 E	15*	38*
11 17	18 16.09	−22 27.0	3.407	2.710	13.3	21.4	39 E	14*	31*
11 27	18 33.25	−21 55.2	3.528	2.752	11.2	21.4	33 E	13*	24*
12 7	18 50.24	−21 17.7	3.638	2.793	9.1	21.4	27 E	11*	17*
12 17	19 7.01	−20 34.4	3.734	2.834	7.0	21.4	21 E	9*	11*
12 27	19 23.47	−19 45.4	3.816	2.873	4.9	21.4	14 E	6*	5*
1 6	19 39.57	−18 51.0	3.882	2.913	2.8	21.4	8 E	2*	—
1 16	19 55.24	−17 51.6	3.933	2.951	1.1	21.3	3 E	—	—
		134681 1999 XC_{25}							
12 23	12 32.67	+ 5 43.0	2.980	3.062	18.7	21.4	85 W	51	49*
1 2	12 39.36	+ 5 26.9	2.823	3.050	18.8	21.2	94 W	50	54*
1 12	12 44.48	+ 5 23.4	2.666	3.038	18.4	21.1	103 W	50	58*
1 22	12 47.79	+ 5 33.5	2.514	3.024	17.6	20.9	112 W	51	58
2 1	12 49.00	+ 5 57.9	2.371	3.009	16.2	20.7	122 W	51	58
2 11	12 47.91	+ 6 36.2	2.241	2.993	14.2	20.5	132 W	52	57
2 21	12 44.41	+ 7 27.0	2.129	2.977	11.6	20.3	143 W	52	57
3 2	12 38.55	+ 8 27.0	2.038	2.959	8.6	20.1	154 W	53	56
3 7	12 34.83	+ 8 58.8	2.003	2.950	7.0	20.0	159 W	54	55
3 12	12 30.69	+ 9 30.8	1.974	2.941	5.5	19.9	164 W	55	54
3 17	12 26.20	+10 2.1	1.953	2.931	4.4	19.8	167 W	55	54
3 22	12 21.46	+10 31.9	1.939	2.921	4.0	19.7	168 W	56	53
3 27	12 16.60	+10 59.3	1.932	2.911	4.7	19.8	166 E	56	53
4 1	12 11.73	+11 23.5	1.933	2.901	6.0	19.8	162 E	56	53
4 6	12 7.00	+11 43.9	1.941	2.891	7.6	19.9	157 E	57	52
4 11	12 2.50	+11 59.9	1.955	2.880	9.3	20.0	152 E	57	52
4 21	11 54.60	+12 18.0	2.003	2.858	12.7	20.1	141 E	57	52
5 1	11 48.71	+12 16.6	2.071	2.835	15.6	20.3	131 E	57	52
5 11	11 45.17	+11 57.0	2.156	2.811	18.0	20.4	121 E	57	52
5 21	11 44.06	+11 21.1	2.253	2.787	19.8	20.6	111 E	56*	53
5 31	11 45.30	+10 31.3	2.357	2.761	21.0	20.7	103 E	53*	53
6 10	11 48.70	+ 9 29.6	2.465	2.735	21.7	20.8	94 E	48*	55
6 20	11 54.01	+ 8 18.1	2.573	2.707	22.0	20.9	86 E	42*	56
6 30	12 1.02	+ 6 58.3	2.678	2.679	21.9	20.9	79 E	36*	57*
7 10	12 9.49	+ 5 31.4	2.779	2.650	21.4	21.0	72 E	30*	56*
7 20	12 19.26	+ 3 58.7	2.874	2.621	20.7	21.0	65 E	26*	54*
7 30	12 30.17	+ 2 21.0	2.960	2.590	19.7	21.0	59 E	22*	50*
8 9	12 42.10	+ 0 39.2	3.038	2.559	18.4	21.0	53 E	18*	45*
8 19	12 54.96	− 1 5.8	3.106	2.527	17.0	21.0	47 E	15*	40*
8 29	13 8.69	− 2 53.4	3.163	2.495	15.5	20.9	41 E	13*	35*
9 8	13 23.23	− 4 42.7	3.209	2.461	13.8	20.9	36 E	10*	29*
9 18	13 38.57	− 6 32.9	3.243	2.427	12.0	20.8	30 E	8*	24*
9 28	13 54.69	− 8 23.1	3.266	2.393	10.1	20.7	25 E	6*	18*
10 8	14 11.58	−10 12.4	3.276	2.358	8.1	20.6	19 E	4*	13*
10 18	14 29.26	−12 0.0	3.275	2.323	6.1	20.5	14 E	2*	8*
10 28	14 47.73	−13 44.7	3.262	2.287	4.0	20.3	9 E	—	2*
11 7	15 7.02	−15 25.3	3.238	2.251	1.9	20.1	4 E	—	—
11 17	15 27.14	−17 0.9	3.202	2.215	0.9	20.0	2 W	—	—
11 27	15 48.09	−18 30.1	3.156	2.178	2.8	20.1	6 W	—	—
12 7	16 9.88	−19 51.6	3.101	2.141	5.0	20.1	11 W	3*	2*
12 17	16 32.51	−21 4.2	3.036	2.105	7.2	20.2	16 W	6*	6*
12 27	16 55.94	−22 6.5	2.963	2.069	9.5	20.2	20 W	8*	11*
1 6	17 20.15	−22 57.3	2.883	2.032	11.7	20.2	25 W	9*	16*
1 16	17 45.07	−23 35.6	2.797	1.997	13.9	20.1	29 W	10*	21*
		326717 2003 EA_{17}							
12 23	12 34.42	−13 46.2	1.883	1.925	29.9	20.3	77 W	31	61*
1 2	12 49.17	−14 4.9	1.805	1.963	29.9	20.2	84 W	31	68*
1 12	13 1.93	−14 2.2	1.724	2.004	29.4	20.2	91 W	31	74*
1 22	13 12.38	−13 35.1	1.641	2.044	28.4	20.1	99 W	31	77*
2 1	13 20.15	−12 40.6	1.559	2.086	26.7	20.0	108 W	32	77
2 11	13 24.94	−11 15.9	1.483	2.128	24.3	19.8	118 W	34	75
2 21	13 26.51	− 9 19.8	1.417	2.171	21.0	19.7	128 W	36	73
3 2	13 24.80	− 6 53.3	1.365	2.214	16.9	19.5	139 W	38	71
3 7	13 22.79	− 5 30.2	1.347	2.235	14.6	19.4	145 W	39	70
3 12	13 20.12	− 4 2.2	1.334	2.256	12.2	19.3	151 W	41	68
3 17	13 16.87	− 2 30.7	1.327	2.278	9.7	19.2	157 W	42	67
3 22	13 13.15	− 0 57.5	1.327	2.299	7.2	19.2	163 W	44	65
3 27	13 9.11	+ 0 35.2	1.335	2.321	5.0	19.1	168 W	46	63
4 1	13 4.92	+ 2 5.5	1.349	2.342	3.7	19.0	171 W	47	62

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		326717 2003 EA_{17}				*(continuation)*			
	h m	° ′			°	m	°	°	°
4 6	13 0.71	+ 3 31.3	1.371	2.363	4.2	19.1	170 W	49	60
4 11	12 56.66	+ 4 51.0	1.400	2.384	5.9	19.3	166 E	50	59
4 16	12 52.86	+ 6 3.3	1.436	2.406	8.0	19.5	160 E	51	58
4 21	12 49.46	+ 7 7.3	1.479	2.427	10.1	19.6	155 E	52	57
5 1	12 44.14	+ 8 48.8	1.582	2.468	13.9	20.0	144 E	54	55
5 11	12 41.15	+ 9 55.4	1.705	2.510	17.0	20.3	133 E	55	54
5 21	12 40.55	+10 30.8	1.845	2.551	19.2	20.5	124 E	56	53
5 31	12 42.24	+10 39.8	1.996	2.591	20.8	20.8	115 E	56*	53
6 10	12 45.97	+10 27.7	2.155	2.631	21.7	21.0	107 E	54*	54
6 20	12 51.46	+ 9 59.1	2.320	2.670	22.1	21.2	99 E	50*	54
6 30	12 58.45	+ 9 17.7	2.487	2.708	22.0	21.4	91 E	46*	55
		245215 2004 WW_9							
12 23	12 35.35	+25 7.0	2.507	2.738	21.0	21.3	93 W	70	32*
1 2	12 42.78	+25 48.6	2.404	2.760	20.5	21.2	101 W	71	35*
1 12	12 47.99	+26 47.5	2.305	2.781	19.6	21.1	109 W	72	37*
1 22	12 50.65	+28 2.6	2.214	2.801	18.2	21.0	117 W	73	36
2 1	12 50.42	+29 30.3	2.135	2.821	16.6	20.9	125 W	75	34
2 11	12 47.10	+31 4.7	2.071	2.839	14.7	20.8	133 W	76	33
2 21	12 40.68	+32 37.4	2.027	2.856	12.9	20.7	140 W	78	31
3 2	12 31.49	+33 58.2	2.005	2.872	11.5	20.6	145 W	79	30
3 12	12 20.29	+34 56.7	2.008	2.888	11.0	20.6	146 W	80	29
3 22	12 8.19	+35 25.7	2.037	2.902	11.7	20.7	144 W	80	29
4 1	11 56.45	+35 21.5	2.089	2.915	13.1	20.8	139 E	80	29
4 11	11 46.23	+34 45.5	2.164	2.928	14.8	20.9	132 E	80	29
4 21	11 38.28	+33 42.4	2.258	2.939	16.5	21.1	124 E	79	30
5 1	11 33.00	+32 18.2	2.367	2.950	17.9	21.3	116 E	77	32
5 11	11 30.41	+30 38.8	2.488	2.959	18.9	21.4	108 E	76	33
		5261 Eureka							
12 23	12 35.36	−26 2.2	1.609	1.622	35.4	19.6	73 W	19	65*
12 28	12 45.72	−27 35.9	1.568	1.622	35.9	19.6	75 W	17	68*
1 2	12 56.00	−29 7.5	1.527	1.622	36.2	19.5	77 W	16	70*
1 7	13 6.20	−30 36.7	1.485	1.621	36.6	19.5	79 W	14	73*
1 12	13 16.31	−32 3.4	1.442	1.621	36.9	19.4	81 W	13	75*
1 17	13 26.31	−33 27.3	1.399	1.620	37.1	19.4	84 W	12	77*
1 22	13 36.15	−34 48.3	1.356	1.619	37.3	19.3	86 W	10	79*
1 27	13 45.80	−36 5.9	1.312	1.618	37.5	19.2	88 W	9	79*
2 1	13 55.21	−37 19.9	1.267	1.616	37.5	19.2	91 W	8	79*
2 6	14 4.32	−38 30.1	1.223	1.615	37.5	19.1	93 W	6	77
2 11	14 13.10	−39 36.1	1.178	1.613	37.5	19.0	96 W	5	76
2 16	14 21.45	−40 37.7	1.133	1.611	37.3	18.9	99 W	4	75
2 21	14 29.28	−41 34.5	1.088	1.609	37.0	18.8	101 W	3	74
2 26	14 36.50	−42 25.9	1.044	1.607	36.6	18.7	104 W	3	74
3 2	14 42.99	−43 11.5	0.999	1.605	36.1	18.6	107 W	2	73
3 7	14 48.64	−43 50.6	0.955	1.602	35.4	18.5	111 W	1	72
3 12	14 53.34	−44 22.4	0.912	1.600	34.5	18.3	114 W	1	72
3 17	14 56.94	−44 46.0	0.870	1.597	33.5	18.2	118 W	—	71
3 22	14 59.32	−45 0.1	0.829	1.594	32.2	18.1	121 W	—	71
3 27	15 0.35	−45 3.1	0.789	1.591	30.7	17.9	125 W	—	71
4 1	14 59.96	−44 53.0	0.751	1.588	29.0	17.8	130 W	—	71
4 6	14 58.14	−44 27.9	0.715	1.584	27.0	17.6	134 W	1	72
4 11	14 54.94	−43 45.4	0.682	1.581	24.7	17.4	139 W	1	72
4 16	14 50.46	−42 43.3	0.652	1.577	22.1	17.2	144 W	2	73
4 21	14 44.93	−41 19.7	0.626	1.573	19.4	17.0	149 W	4	75
4 26	14 38.67	−39 33.3	0.604	1.570	16.7	16.9	153 W	5	76
5 1	14 32.09	−37 24.5	0.586	1.566	14.2	16.7	158 E	8	79
5 6	14 25.61	−34 55.5	0.574	1.562	12.4	16.6	161 E	10	81
5 11	14 19.61	−32 10.1	0.567	1.558	11.9	16.6	161 E	13	84
5 16	14 14.41	−29 13.8	0.565	1.553	13.1	16.6	160 E	16	87
5 21	14 10.24	−26 12.8	0.569	1.549	15.5	16.7	156 E	19	90
5 26	14 7.28	−23 13.4	0.578	1.545	18.5	16.8	151 E	22	87
5 31	14 5.60	−20 21.6	0.592	1.540	21.7	17.0	146 E	25	84
6 5	14 5.20	−17 41.8	0.611	1.536	24.9	17.1	140 E	27	82
6 10	14 6.01	−15 16.6	0.634	1.531	27.8	17.3	135 E	30	79
6 15	14 7.95	−13 7.6	0.659	1.527	30.5	17.4	130 E	32	77
6 20	14 10.94	−11 15.2	0.688	1.522	32.9	17.6	125 E	34*	75
6 25	14 14.89	− 9 38.9	0.719	1.518	35.0	17.7	121 E	35*	74
6 30	14 19.72	− 8 17.9	0.752	1.513	36.8	17.9	117 E	36*	72
7 5	14 25.32	− 7 10.8	0.786	1.509	38.3	18.0	113 E	36*	71
7 10	14 31.60	− 6 16.1	0.821	1.504	39.6	18.1	109 E	37*	70
7 15	14 38.51	− 5 32.4	0.857	1.500	40.6	18.2	106 E	37*	70
7 20	14 45.99	− 4 58.4	0.893	1.496	41.5	18.4	103 E	37*	69
7 25	14 53.99	− 4 32.9	0.930	1.491	42.1	18.5	100 E	37*	69
7 30	15 2.47	− 4 14.6	0.966	1.487	42.6	18.5	97 E	37*	68
8 4	15 11.38	− 4 2.5	1.003	1.483	43.0	18.6	95 E	36*	68
8 9	15 20.69	− 3 55.5	1.039	1.478	43.3	18.7	92 E	36*	68
8 14	15 30.38	− 3 52.8	1.074	1.474	43.4	18.8	90 E	36*	68*
8 19	15 40.43	− 3 53.7	1.109	1.470	43.5	18.8	88 E	36*	68*

5261 Eureka *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 29	16 1.54	− 4 3.2	1.178	1.463	43.3	19.0	84 E	36*	66*
9 8	16 23.89	− 4 18.6	1.244	1.456	42.9	19.1	80 E	36*	64*
9 18	16 47.41	− 4 35.9	1.306	1.449	42.4	19.1	76 E	36*	62*
9 28	17 12.04	− 4 51.3	1.366	1.443	41.7	19.2	73 E	36*	59*
10 8	17 37.68	− 5 1.5	1.423	1.438	40.9	19.3	70 E	36*	55*
10 18	18 4.26	− 5 4.0	1.478	1.434	40.0	19.3	68 E	37*	52*
10 28	18 31.71	− 4 56.2	1.531	1.430	39.0	19.4	65 E	37*	48*
11 7	18 59.89	− 4 36.5	1.582	1.427	38.0	19.4	63 E	37*	44*
11 17	19 28.70	− 4 3.7	1.633	1.426	37.0	19.4	60 E	38*	40*
11 27	19 58.00	− 3 17.1	1.682	1.425	35.8	19.5	58 E	38*	36*
12 7	20 27.64	− 2 16.8	1.733	1.425	34.7	19.5	55 E	39*	31*
12 17	20 57.51	− 1 3.5	1.783	1.426	33.4	19.5	53 E	39*	27*
12 27	21 27.49	+ 0 21.7	1.835	1.428	32.1	19.6	51 E	39*	23*
1 6	21 57.47	+ 1 56.6	1.887	1.431	30.7	19.6	48 E	38*	20*
1 16	22 27.42	+ 3 39.3	1.940	1.435	29.3	19.6	46 E	37*	17*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 36.07	−14 51.5	1.704	1.760	32.9	20.9	77 W	30	61*
1 2	12 51.10	−16 46.6	1.635	1.796	32.9	20.8	83 W	28	69*
1 12	13 4.17	−18 27.5	1.562	1.832	32.5	20.8	89 W	27	77*
1 22	13 14.93	−19 52.7	1.486	1.869	31.6	20.7	96 W	25	83*
2 1	13 22.91	−20 59.7	1.409	1.904	30.1	20.5	104 W	24	85
2 11	13 27.66	−21 45.3	1.334	1.940	28.0	20.4	113 W	23	86
2 21	13 28.77	−22 6.0	1.264	1.974	25.1	20.2	122 W	23	86
3 2	13 25.99	−21 57.0	1.203	2.008	21.4	20.1	132 W	23	86
3 12	13 19.51	−21 14.7	1.156	2.042	16.8	19.9	143 W	24	85
3 17	13 15.09	−20 40.5	1.139	2.058	14.3	19.8	149 W	24	85
3 22	13 10.04	−19 57.9	1.127	2.074	11.7	19.7	155 W	25	84
3 27	13 4.58	−19 7.6	1.122	2.090	9.1	19.6	161 W	26	83
4 1	12 58.89	−18 10.7	1.122	2.105	6.7	19.5	166 W	27	82
4 6	12 53.22	−17 8.9	1.129	2.121	5.1	19.4	169 E	28	81
4 11	12 47.75	−16 4.0	1.143	2.136	5.1	19.5	169 E	29	80
4 16	12 42.68	−14 57.9	1.163	2.150	6.5	19.6	166 E	30	79
4 21	12 38.15	−13 52.5	1.190	2.165	8.7	19.7	161 E	31	78
4 26	12 34.30	−12 49.6	1.223	2.179	11.0	19.9	156 E	32	77
5 1	12 31.20	−11 50.7	1.261	2.193	13.2	20.1	150 E	33	76
5 6	12 28.90	−10 57.0	1.305	2.207	15.3	20.2	145 E	34	75
5 11	12 27.40	−10 9.1	1.354	2.220	17.2	20.4	139 E	35	74
5 21	12 26.75	− 8 52.1	1.464	2.246	20.4	20.7	129 E	36	73
5 31	12 29.00	− 8 0.7	1.588	2.271	22.7	21.0	120 E	37*	72
6 10	12 33.76	− 7 32.8	1.721	2.295	24.3	21.2	111 E	36*	72
6 20	12 40.62	− 7 25.4	1.860	2.317	25.3	21.4	103 E	33*	71

307536 2003 CV_3

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 36.18	+ 6 40.8	2.467	2.575	22.4	20.4	85 W	52	47*
1 2	12 44.90	+ 7 26.1	2.370	2.618	22.0	20.3	93 W	52	52*
1 12	12 51.68	+ 8 31.7	2.274	2.660	21.2	20.2	102 W	54	54*
1 22	12 56.28	+ 9 58.2	2.182	2.702	19.8	20.1	111 W	55	54
2 1	12 58.43	+11 45.0	2.101	2.742	17.9	20.0	121 W	57	52
2 11	12 57.97	+13 49.4	2.034	2.782	15.5	19.9	131 W	59	50
2 16	12 56.75	+14 56.4	2.007	2.802	14.2	19.9	136 W	60	49
2 21	12 54.87	+16 5.5	1.986	2.821	12.8	19.8	141 W	61	48
2 26	12 52.38	+17 15.5	1.971	2.841	11.5	19.7	145 W	62	47
3 2	12 49.32	+18 25.1	1.962	2.860	10.2	19.7	149 W	63	46
3 7	12 45.77	+19 32.9	1.960	2.878	9.1	19.7	153 W	65	44
3 12	12 41.82	+20 37.5	1.964	2.897	8.3	19.7	155 W	66	43
3 17	12 37.57	+21 37.8	1.976	2.915	7.9	19.7	156 W	67	42
3 22	12 33.14	+22 32.5	1.995	2.933	8.0	19.7	156 W	68	41
3 27	12 28.64	+23 20.8	2.022	2.951	8.5	19.8	154 W	68	41
4 1	12 24.20	+24 2.0	2.055	2.969	9.4	19.8	151 E	69	40
4 6	12 19.95	+24 35.7	2.094	2.986	10.4	19.9	147 E	70	39
4 11	12 15.98	+25 1.9	2.140	3.004	11.5	20.0	143 E	70	39
4 21	12 9.22	+25 32.3	2.247	3.038	13.7	20.3	134 E	71	38
5 1	12 4.42	+25 35.8	2.374	3.070	15.5	20.5	125 E	71	38
5 11	12 1.80	+25 17.0	2.515	3.102	16.9	20.7	117 E	70	39
5 21	12 1.34	+24 40.2	2.666	3.134	17.9	20.8	108 E	70	39
5 31	12 2.89	+23 49.7	2.824	3.164	18.4	21.0	100 E	67*	40
6 10	12 6.24	+22 48.9	2.985	3.193	18.5	21.1	92 E	61*	41
6 20	12 11.14	+21 40.6	3.147	3.221	18.3	21.3	85 E	55*	42
6 30	12 17.38	+20 26.8	3.306	3.249	17.8	21.4	78 E	48*	44*
7 10	12 24.73	+19 9.5	3.461	3.275	17.1	21.5	71 E	43*	44*

23738 1998 JZ_1

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 36.56	+ 1 37.7	2.278	2.366	24.4	19.3	83 W	47	51*
1 2	12 47.93	+ 0 35.2	2.120	2.336	24.9	19.1	90 W	46	57*
1 12	12 58.09	− 0 17.9	1.962	2.306	25.0	18.9	97 W	45	62*
1 22	13 6.74	− 1 0.4	1.807	2.274	24.7	18.7	105 W	44	65*
2 1	13 13.47	− 1 30.6	1.657	2.242	23.7	18.5	114 W	43	66
2 11	13 17.88	− 1 46.9	1.516	2.209	22.1	18.2	123 W	43	66

23738 1998 JZ_1 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 21	13 19.51	− 1 48.3	1.385	2.176	19.7	17.9	132 W	43	66
3 2	13 17.92	− 1 34.3	1.268	2.142	16.3	17.5	143 W	43	66
3 12	13 12.94	− 1 6.0	1.170	2.107	12.1	17.2	154 W	44	65
3 22	13 4.70	− 0 26.8	1.093	2.072	7.0	16.8	165 W	45	64
3 27	12 59.56	− 0 4.8	1.064	2.055	4.5	16.6	171 W	45	64
4 1	12 53.93	+ 0 17.2	1.040	2.037	2.8	16.4	174 W	45	64
4 6	12 48.02	+ 0 38.3	1.023	2.019	3.8	16.4	172 E	46	63
4 11	12 42.02	+ 0 57.2	1.012	2.001	6.5	16.5	167 E	46	63
4 16	12 36.16	+ 1 12.8	1.007	1.984	9.4	16.6	161 E	46	63
4 21	12 30.63	+ 1 24.2	1.008	1.966	12.5	16.7	155 E	46	63
5 1	12 21.40	+ 1 31.5	1.026	1.930	18.2	16.9	143 E	47	62
5 11	12 15.48	+ 1 15.5	1.060	1.895	23.1	17.1	133 E	46	63
5 21	12 13.34	+ 0 36.2	1.107	1.860	27.3	17.3	123 E	46	63
5 31	12 15.04	− 0 24.8	1.162	1.825	30.5	17.4	114 E	44*	64
6 10	12 20.33	− 1 44.9	1.221	1.791	33.0	17.6	106 E	40*	66
6 20	12 28.79	− 3 21.1	1.283	1.758	34.8	17.7	99 E	36*	67
6 30	12 40.10	− 5 11.1	1.346	1.726	36.0	17.8	93 E	31*	69
7 10	12 53.91	− 7 12.2	1.407	1.696	36.8	17.9	87 E	26*	71*
7 20	13 9.96	− 9 21.9	1.467	1.667	37.1	17.9	82 E	23*	71*
7 30	13 28.10	−11 37.7	1.524	1.641	37.2	18.0	78 E	19*	70*
8 9	13 48.18	−13 56.7	1.579	1.616	37.0	18.0	74 E	17*	67*
8 19	14 10.14	−16 15.9	1.632	1.594	36.5	18.1	70 E	15*	64*
8 29	14 33.94	−18 32.2	1.684	1.575	35.9	18.1	66 E	13*	60*
9 8	14 59.54	−20 41.7	1.734	1.559	35.1	18.1	63 E	12*	57*
9 18	15 26.88	−22 40.6	1.783	1.546	34.2	18.1	60 E	11*	54*
9 28	15 55.90	−24 24.9	1.832	1.536	33.2	18.1	57 E	11*	51*
10 8	16 26.42	−25 50.5	1.882	1.530	32.0	18.2	54 E	10*	48*
10 18	16 58.22	−26 53.8	1.933	1.528	30.7	18.2	52 E	10*	46*
10 28	17 30.99	−27 31.7	1.986	1.529	29.3	18.2	49 E	11*	43*
11 7	18 4.33	−27 42.2	2.040	1.534	27.9	18.2	46 E	11*	40*
11 17	18 37.83	−27 24.6	2.097	1.543	26.3	18.2	44 E	12*	37*
11 22	18 54.50	−27 5.3	2.126	1.549	25.5	18.3	42 E	12*	35*
11 27	19 11.06	−26 39.2	2.156	1.555	24.7	18.3	41 E	13*	34*
12 2	19 27.46	−26 6.6	2.187	1.562	23.8	18.3	40 E	13*	32*
12 7	19 43.65	−25 27.7	2.218	1.570	23.0	18.3	38 E	13*	30*
12 12	19 59.62	−24 43.0	2.249	1.579	22.1	18.3	37 E	14*	29*
12 17	20 15.33	−23 52.9	2.281	1.589	21.2	18.3	36 E	14*	27*
12 22	20 30.76	−22 57.7	2.313	1.599	20.3	18.3	34 E	14*	25*
12 27	20 45.90	−21 57.9	2.346	1.610	19.3	18.4	33 E	14*	23*
1 1	21 0.72	−20 54.0	2.379	1.622	18.4	18.4	31 E	14*	21*
1 6	21 15.24	−19 46.4	2.412	1.634	17.4	18.4	30 E	14*	20*
1 11	21 29.46	−18 35.6	2.445	1.647	16.4	18.4	28 E	14*	18*
1 16	21 43.37	−17 22.1	2.479	1.660	15.5	18.4	27 E	13*	16*

54401 2000 LM

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 36.76	−23 20.0	2.040	1.998	28.2	21.4	74 W	22	64*
1 2	12 52.58	−25 41.8	1.910	1.975	29.3	21.3	79 W	19	71*
1 12	13 7.86	−28 0.0	1.778	1.950	30.1	21.1	85 W	17	78*
1 22	13 22.41	−30 13.4	1.645	1.923	30.8	20.9	90 W	15	84*
2 1	13 35.93	−32 20.1	1.512	1.896	31.1	20.7	96 W	13	84
2 11	13 48.05	−34 17.8	1.381	1.867	31.0	20.5	103 W	11	82
2 16	13 53.45	−35 12.4	1.317	1.852	30.8	20.4	106 W	10	81
2 21	13 58.30	−36 3.7	1.254	1.836	30.5	20.2	109 W	9	80
2 26	14 2.51	−36 50.8	1.191	1.821	30.1	20.1	113 W	8	79
3 2	14 6.00	−37 33.1	1.131	1.805	29.5	19.9	116 W	7	78
3 7	14 8.69	−38 9.7	1.072	1.789	28.7	19.8	120 W	7	78
3 12	14 10.49	−38 39.5	1.015	1.772	27.7	19.6	124 W	6	77
3 17	14 11.30	−39 1.3	0.960	1.756	26.6	19.4	128 W	6	77
3 22	14 11.03	−39 13.5	0.907	1.739	25.2	19.2	132 W	6	77
3 27	14 9.63	−39 14.2	0.857	1.722	23.7	19.1	136 W	6	77
4 1	14 7.11	−39 1.2	0.811	1.705	21.9	18.9	140 W	6	77
4 6	14 3.51	−38 32.6	0.768	1.687	20.0	18.7	145 W	6	77
4 11	13 58.96	−37 46.3	0.728	1.670	17.9	18.5	149 W	7	78
4 16	13 53.63	−36 40.4	0.693	1.652	15.9	18.3	153 W	8	79
4 21	13 47.77	−35 13.7	0.663	1.634	14.2	18.1	157 E	10	81
4 26	13 41.72	−33 26.1	0.637	1.617	13.1	17.9	159 E	12	83
5 1	13 35.84	−31 19.0	0.616	1.599	13.0	17.8	159 E	14	85
5 6	13 30.49	−28 55.1	0.601	1.581	14.2	17.8	157 E	16	87
5 11	13 25.96	−26 18.7	0.591	1.563	16.4	17.8	154 E	19	90
5 16	13 22.46	−23 34.4	0.586	1.545	19.3	17.9	150 E	21	88
5 21	13 20.16	−20 47.8	0.585	1.527	22.6	17.9	145 E	24	85
5 26	13 19.18	−18 3.8	0.589	1.510	25.9	18.0	139 E	27	82
5 31	13 19.53	−15 27.0	0.597	1.492	29.2	18.1	134 E	30	79
6 5	13 21.19	−13 0.6	0.608	1.475	32.3	18.2	129 E	32	77
6 10	13 24.08	−10 46.6	0.622	1.458	35.2	18.3	124 E	34*	75
6 15	13 28.13	− 8 46.1	0.638	1.442	37.8	18.4	120 E	36*	73
6 20	13 33.25	− 6 59.5	0.656	1.426	40.1	18.5	115 E	37*	71

54401 2000 *LM* *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 30	13 46.39	− 4 6.7	0.695	1.394	44.0	18.7	108 E	38*	68
7 10	14 2.81	− 2 2.0	0.735	1.366	46.9	18.9	101 E	39*	66
7 20	14 21.96	− 0 37.2	0.776	1.339	49.0	19.0	96 E	39*	65
7 25	14 32.44	− 0 7.3	0.796	1.327	49.8	19.1	93 E	39*	64
7 30	14 43.47	+ 0 15.5	0.815	1.316	50.5	19.1	91 E	39*	64
8 4	14 55.01	+ 0 32.2	0.834	1.306	51.0	19.2	89 E	39*	63
8 9	15 7.01	+ 0 43.6	0.852	1.297	51.4	19.2	88 E	39*	63*
8 14	15 19.47	+ 0 50.3	0.870	1.288	51.7	19.3	86 E	39*	63*
8 19	15 32.38	+ 0 53.1	0.887	1.281	51.9	19.3	85 E	40*	63*
8 29	15 59.47	+ 0 49.0	0.919	1.270	52.0	19.4	82 E	40*	62*
9 8	16 28.16	+ 0 36.4	0.950	1.263	51.8	19.4	80 E	41*	60*
9 18	16 58.36	+ 0 18.9	0.980	1.262	51.4	19.5	79 E	41*	59*
9 28	17 29.99	+ 0 0.6	1.011	1.265	50.8	19.5	78 E	42*	58*
10 8	18 2.86	− 0 14.8	1.044	1.273	49.9	19.6	77 E	43*	56*
10 18	18 36.76	− 0 24.1	1.081	1.285	48.9	19.6	76 E	43*	55*
10 28	19 11.41	− 0 24.1	1.123	1.302	47.7	19.7	76 E	44*	53*
11 7	19 46.42	− 0 12.6	1.172	1.323	46.3	19.8	75 E	44*	51*
11 17	20 21.42	+ 0 11.8	1.229	1.347	44.8	19.9	74 E	45*	48*
11 27	20 56.04	+ 0 49.5	1.295	1.374	43.3	20.0	73 E	46*	45*
12 7	21 29.96	+ 1 39.7	1.369	1.404	41.6	20.1	71 E	46*	42*
12 17	22 2.94	+ 2 41.0	1.452	1.436	39.8	20.3	69 E	47*	39*
12 27	22 34.87	+ 3 51.5	1.542	1.469	38.0	20.4	67 E	48*	36*
1 6	23 5.66	+ 5 8.8	1.639	1.503	36.1	20.5	64 E	48*	33*
1 16	23 35.36	+ 6 30.5	1.742	1.538	34.2	20.7	62 E	47*	30*

26385 1999 RN_{20}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 37.07	− 6 9.1	2.645	2.651	21.4	20.4	80 W	39	56*
1 2	12 45.75	− 6 9.6	2.512	2.663	21.7	20.3	88 W	39	63*
1 12	12 52.81	− 5 53.4	2.378	2.674	21.4	20.2	97 W	39	68*
1 22	12 57.98	− 5 18.0	2.245	2.685	20.7	20.0	106 W	40	69
2 1	13 0.96	− 4 20.8	2.118	2.694	19.3	19.9	116 W	41	68
2 11	13 1.53	− 3 0.1	2.001	2.702	17.2	19.7	126 W	42	67
2 21	12 59.52	− 1 15.6	1.900	2.710	14.4	19.5	137 W	44	65
3 2	12 54.95	+ 0 50.7	1.820	2.716	10.9	19.3	149 W	46	63
3 7	12 51.80	+ 2 0.2	1.789	2.718	9.0	19.1	155 W	47	62
3 12	12 48.16	+ 3 12.8	1.765	2.721	7.1	19.0	160 W	48	61
3 17	12 44.10	+ 4 27.0	1.748	2.723	5.2	18.9	166 W	49	60
3 22	12 39.74	+ 5 41.6	1.739	2.725	3.9	18.8	169 W	51	58
3 27	12 35.19	+ 6 54.9	1.738	2.726	3.6	18.8	170 W	52	57
4 1	12 30.58	+ 8 5.5	1.745	2.728	4.7	18.9	167 E	53	56
4 6	12 26.06	+ 9 12.1	1.759	2.729	6.4	19.0	162 E	54	55
4 11	12 21.74	+10 13.5	1.780	2.730	8.4	19.1	157 E	55	54
4 16	12 17.73	+11 8.9	1.809	2.730	10.3	19.2	151 E	56	53
4 21	12 14.12	+11 57.6	1.844	2.730	12.1	19.3	145 E	57	52
5 1	12 8.44	+13 14.1	1.930	2.730	15.3	19.6	134 E	58	51
5 11	12 5.09	+14 3.0	2.034	2.729	17.9	19.8	124 E	59	50
5 21	12 4.15	+14 26.8	2.150	2.726	19.8	19.9	114 E	59	50
5 31	12 5.56	+14 29.0	2.275	2.723	21.1	20.1	105 E	58*	50
6 10	12 9.09	+14 13.1	2.404	2.718	21.8	20.2	97 E	54*	50
6 20	12 14.51	+13 42.7	2.534	2.713	22.0	20.3	89 E	49*	50
6 30	12 21.57	+13 0.4	2.662	2.706	21.8	20.4	82 E	43*	51
7 10	12 30.05	+12 8.7	2.785	2.699	21.3	20.5	75 E	39*	51*
7 20	12 39.73	+11 9.7	2.902	2.690	20.5	20.6	68 E	34*	50*
7 30	12 50.48	+10 5.0	3.011	2.680	19.5	20.6	62 E	31*	47*
8 9	13 2.15	+ 8 56.2	3.110	2.669	18.2	20.6	55 E	28*	43*
8 19	13 14.64	+ 7 44.5	3.199	2.657	16.9	20.6	50 E	25*	38*
8 29	13 27.87	+ 6 31.2	3.276	2.644	15.4	20.6	44 E	23*	33*
9 8	13 41.77	+ 5 17.4	3.341	2.630	13.8	20.6	39 E	21*	28*
9 18	13 56.29	+ 4 4.2	3.394	2.615	12.2	20.6	33 E	19*	23*
9 28	14 11.40	+ 2 52.7	3.434	2.599	10.6	20.5	29 E	17*	17*
10 8	14 27.05	+ 1 44.0	3.460	2.582	9.1	20.5	24 E	16*	11*
10 18	14 43.22	+ 0 39.1	3.473	2.564	7.8	20.4	21 E	14*	5*
10 28	14 59.90	− 0 20.8	3.473	2.545	6.8	20.3	18 E	12*	—
11 7	15 17.03	− 1 14.7	3.459	2.525	6.4	20.3	17 E	10*	—
11 17	15 34.60	− 2 1.4	3.432	2.503	6.6	20.3	17 E	7*	—
11 27	15 52.56	− 2 40.0	3.393	2.481	7.5	20.3	19 W	11*	—
12 7	16 10.86	− 3 9.3	3.342	2.458	8.7	20.3	22 W	16*	—
12 17	16 29.46	− 3 28.4	3.280	2.435	10.2	20.3	26 W	20*	—
12 27	16 48.29	− 3 36.5	3.207	2.410	11.9	20.3	30 W	24*	5*
1 6	17 7.29	− 3 32.8	3.125	2.384	13.6	20.2	35 W	27*	11*
1 16	17 26.37	− 3 16.6	3.034	2.358	15.4	20.2	39 W	30*	18*

363626 2004 RA_{11}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 37.93	−25 9.8	1.119	1.251	48.6	21.4	73 W	20	64*
12 28	12 49.65	−24 16.3	1.098	1.275	48.3	21.3	75 W	21	66*
1 2	13 0.77	−23 13.0	1.075	1.299	47.8	21.3	78 W	22	69*
1 7	13 11.28	−21 59.1	1.049	1.324	47.2	21.3	81 W	23	72*
1 12	13 21.13	−20 33.6	1.023	1.350	46.5	21.3	85 W	24	74*
1 17	13 30.26	−18 55.7	0.994	1.376	45.6	21.2	88 W	26	76*

363626 2004 RA_{11} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 22	13 38.62	−17 4.0	0.965	1.403	44.5	21.2	92 W	28	78*
1 27	13 46.13	−14 57.4	0.936	1.430	43.2	21.1	96 W	30	78*
2 1	13 52.71	−12 34.8	0.908	1.458	41.6	21.0	101 W	32	77*
2 6	13 58.30	− 9 55.5	0.880	1.485	39.8	21.0	105 W	35	74
2 11	14 2.82	− 6 58.9	0.855	1.513	37.7	20.9	110 W	38	71
2 16	14 6.20	− 3 45.4	0.832	1.541	35.4	20.8	115 W	41	68
2 21	14 8.36	− 0 15.9	0.813	1.569	32.8	20.7	121 W	45	64
2 26	14 9.24	+ 3 27.0	0.798	1.596	30.1	20.6	126 W	48	61
3 2	14 8.80	+ 7 19.7	0.789	1.624	27.3	20.6	131 W	52	57
3 7	14 7.06	+11 16.8	0.787	1.651	24.7	20.5	136 W	56	53
3 12	14 4.06	+15 12.1	0.791	1.679	22.3	20.5	140 W	60	49
3 17	13 59.89	+18 59.0	0.802	1.706	20.5	20.5	143 W	64	45
3 22	13 54.69	+22 31.2	0.820	1.732	19.4	20.5	145 W	68	41
3 27	13 48.67	+25 43.2	0.845	1.759	19.0	20.6	145 W	71	38
4 1	13 42.11	+28 30.9	0.877	1.785	19.2	20.7	144 W	74	35
4 6	13 35.30	+30 52.4	0.915	1.811	20.0	20.9	142 W	76	33
4 11	13 28.53	+32 47.4	0.959	1.836	21.1	21.1	139 W	78	31
4 16	13 22.06	+34 16.9	1.008	1.861	22.2	21.2	135 E	79	30
4 21	13 16.13	+35 22.7	1.060	1.886	23.4	21.4	132 E	80	29
4 26	13 10.93	+36 7.3	1.117	1.910	24.5	21.6	128 E	81	28
5 1	13 6.57	+36 33.2	1.177	1.934	25.4	21.8	124 E	82	27
5 6	13 3.14	+36 43.2	1.239	1.958	26.3	21.9	121 E	82	27
5 11	13 0.64	+36 39.9	1.303	1.981	27.0	22.1	117 E	82	27

44200 1998 MJ_{25}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 38.79	− 5 33.0	3.148	3.122	18.0	20.9	79 W	39	56*
1 2	12 45.69	− 6 18.0	2.987	3.109	18.4	20.8	88 W	39	63*
1 12	12 51.18	− 6 53.8	2.826	3.095	18.4	20.7	96 W	38	69*
1 22	12 55.01	− 7 18.9	2.666	3.081	17.9	20.5	106 W	38	71
2 1	12 56.91	− 7 31.9	2.512	3.065	16.9	20.3	115 W	37	72
2 11	12 56.67	− 7 31.2	2.368	3.049	15.3	20.1	125 W	37	72
2 21	12 54.15	− 7 15.7	2.239	3.032	13.0	19.9	136 W	38	71
3 2	12 49.35	− 6 45.0	2.129	3.013	10.2	19.7	148 W	38	71
3 12	12 42.53	− 6 0.1	2.044	2.994	6.7	19.4	159 W	39	70
3 22	12 34.18	− 5 3.6	1.985	2.974	2.8	19.1	172 W	40	69
3 27	12 29.65	− 4 32.5	1.967	2.964	0.8	19.0	178 W	40	69
4 1	12 25.05	− 4 0.3	1.956	2.953	1.4	19.0	176 E	41	68
4 6	12 20.49	− 3 28.0	1.953	2.943	3.5	19.1	170 E	42	67
4 11	12 16.08	− 2 56.2	1.957	2.932	5.6	19.2	164 E	42	67
4 16	12 11.92	− 2 25.8	1.968	2.920	7.6	19.3	157 E	43	66
4 21	12 8.12	− 1 57.5	1.986	2.909	9.5	19.4	152 E	43	66
5 1	12 1.88	− 1 9.3	2.039	2.885	13.0	19.6	140 E	44	65
5 11	11 57.83	− 0 35.0	2.113	2.861	15.9	19.8	129 E	44	65
5 21	11 56.12	− 0 16.3	2.202	2.836	18.2	19.9	119 E	45*	64
5 31	11 56.75	− 0 13.1	2.302	2.809	19.9	20.0	110 E	43*	64
6 10	11 59.59	− 0 24.8	2.408	2.782	21.0	20.2	101 E	40*	64
6 20	12 4.42	− 0 49.9	2.517	2.755	21.6	20.3	92 E	35*	65
6 30	12 11.03	− 1 27.1	2.625	2.726	21.8	20.3	85 E	30*	65*
7 10	12 19.21	− 2 14.8	2.730	2.696	21.6	20.4	77 E	26*	64*
7 20	12 28.77	− 3 11.5	2.829	2.666	21.0	20.4	70 E	22*	61*
7 30	12 39.56	− 4 16.0	2.922	2.635	20.2	20.4	64 E	18*	56*
8 9	12 51.45	− 5 26.9	3.006	2.603	19.1	20.4	57 E	15*	51*
8 19	13 4.34	− 6 43.1	3.081	2.571	17.9	20.4	51 E	13*	45*
8 29	13 18.18	− 8 3.3	3.146	2.538	16.4	20.4	45 E	10*	39*
9 8	13 32.88	− 9 26.5	3.199	2.504	14.8	20.3	39 E	8*	33*
9 18	13 48.44	−10 51.4	3.241	2.470	13.1	20.3	34 E	7*	28*
9 28	14 4.83	−12 16.9	3.270	2.435	11.2	20.2	28 E	5*	22*
10 8	14 22.02	−13 41.9	3.288	2.399	9.3	20.1	23 E	3*	17*
10 18	14 40.04	−15 5.0	3.294	2.363	7.3	20.0	18 E	2*	11*
10 28	14 58.87	−16 25.0	3.288	2.327	5.2	19.8	12 E	—	6*
11 7	15 18.50	−17 40.4	3.270	2.290	3.1	19.7	7 E	—	1*
11 17	15 38.96	−18 50.0	3.240	2.253	1.0	19.5	2 E	—	—
11 27	16 0.21	−19 52.2	3.200	2.215	1.3	19.4	3 W	—	—
12 7	16 22.23	−20 45.6	3.150	2.178	3.5	19.5	8 W	—	—
12 17	16 45.00	−21 28.7	3.090	2.141	5.8	19.6	13 W	4*	4*
12 27	17 8.46	−22 0.2	3.022	2.104	8.0	19.6	17 W	6*	9*
1 6	17 32.52	−22 18.8	2.945	2.066	10.3	19.6	22 W	8*	13*
1 16	17 57.13	−22 23.4	2.863	2.030	12.5	19.6	26 W	9*	18*

302366 2002 CJ_{10}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 39.49	+12 29.8	2.882	2.990	19.2	21.3	87 W	57	42*
1 2	12 46.42	+13 10.3	2.762	3.014	19.0	21.2	95 W	58	47*
1 12	12 51.59	+14 8.4	2.644	3.037	18.3	21.1	104 W	59	49*
1 22	12 54.77	+15 24.3	2.533	3.058	17.2	21.0	113 W	60	49
2 1	12 55.70	+16 57.0	2.432	3.079	15.6	20.8	123 W	62	47
2 11	12 54.20	+18 43.2	2.347	3.098	13.6	20.7	132 W	64	45
2 21	12 50.26	+20 37.9	2.282	3.116	11.4	20.6	141 W	66	43
3 2	12 44.00	+22 33.2	2.241	3.133	9.4	20.5	149 W	68	41
3 7	12 40.15	+23 28.3	2.231	3.141	8.6	20.4	152 W	68	41
3 12	12 35.91	+24 20.2	2.228	3.148	8.1	20.4	154 W	69	40

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
302366 2002 CJ_{10}									
	h m	° ′			°	m	°	°	°
3 17	12 31.37	+25 7.8	2.231	3.156	8.0	20.4	154 W	70	39
3 22	12 26.65	+25 50.2	2.242	3.163	8.2	20.4	153 W	71	38
3 27	12 21.86	+26 26.7	2.260	3.170	8.8	20.5	151 E	71	38
4 1	12 17.13	+26 56.5	2.285	3.176	9.6	20.5	148 E	72	37
4 6	12 12.56	+27 19.6	2.316	3.182	10.6	20.6	144 E	72	37
4 11	12 8.26	+27 35.7	2.353	3.188	11.6	20.7	140 E	73	36
4 16	12 4.32	+27 45.2	2.395	3.194	12.6	20.8	136 E	73	36
4 21	12 0.80	+27 48.1	2.443	3.199	13.6	20.8	132 E	73	36
4 26	11 57.78	+27 44.9	2.495	3.205	14.5	20.9	127 E	73	36
5 1	11 55.28	+27 36.1	2.552	3.209	15.3	21.0	123 E	73	36
5 6	11 53.33	+27 22.3	2.612	3.214	16.1	21.1	118 E	72	37
5 11	11 51.94	+27 3.9	2.674	3.218	16.7	21.2	114 E	72	37
5 16	11 51.09	+26 41.4	2.739	3.222	17.2	21.2	110 E	72	37
5 21	11 50.79	+26 15.4	2.806	3.226	17.6	21.3	105 E	71*	38
5 26	11 51.01	+25 46.4	2.875	3.229	17.9	21.4	101 E	70*	38
5 31	11 51.73	+25 14.6	2.944	3.232	18.1	21.4	97 E	67*	39
6 5	11 52.92	+24 40.5	3.014	3.235	18.2	21.5	93 E	64*	39
192952 2000 BZ_{18}									
12 23	12 40.17	− 1 57.1	1.563	1.705	34.7	20.1	81 W	43	53*
1 2	13 1.40	− 4 35.5	1.450	1.677	35.7	19.9	85 W	40	59*
1 12	13 22.47	− 7 13.6	1.340	1.651	36.6	19.7	89 W	38	65*
1 22	13 43.30	− 9 50.4	1.235	1.627	37.1	19.5	94 W	35	71*
2 1	14 3.68	−12 24.7	1.136	1.606	37.4	19.3	98 W	33	76*
2 11	14 23.35	−14 55.5	1.042	1.588	37.3	19.1	103 W	30	79
2 21	14 41.97	−17 22.2	0.954	1.573	36.7	18.9	108 W	28	81
3 2	14 59.03	−19 44.0	0.873	1.561	35.6	18.6	114 W	25	84
3 7	15 6.79	−20 53.0	0.836	1.557	34.8	18.5	116 W	24	85
3 12	15 13.94	−22 0.7	0.800	1.553	33.8	18.4	120 W	23	86
3 17	15 20.36	−23 6.9	0.767	1.550	32.7	18.3	123 W	22	87
3 22	15 25.96	−24 11.4	0.735	1.548	31.3	18.1	126 W	21	88
3 27	15 30.63	−25 14.1	0.706	1.548	29.7	18.0	130 W	20	89
4 1	15 34.28	−26 14.4	0.679	1.548	27.9	17.8	134 W	19	90
4 6	15 36.84	−27 12.0	0.655	1.548	25.9	17.7	137 W	18	89
4 11	15 38.25	−28 6.3	0.634	1.550	23.7	17.6	142 W	17	88
4 16	15 38.49	−28 56.3	0.616	1.553	21.2	17.4	146 W	16	87
4 21	15 37.56	−29 41.1	0.602	1.557	18.6	17.3	150 W	15	86
4 26	15 35.56	−30 19.7	0.591	1.561	15.9	17.2	155 W	15	86
5 1	15 32.65	−30 51.1	0.584	1.567	13.2	17.1	159 W	14	85
5 6	15 29.06	−31 14.7	0.580	1.573	10.7	17.0	163 W	14	85
5 11	15 25.08	−31 30.2	0.581	1.580	8.9	16.9	166 W	13	84
5 16	15 20.97	−31 37.8	0.586	1.588	8.1	16.9	167 E	13	84
5 21	15 17.06	−31 37.9	0.596	1.597	8.7	17.0	166 E	13	84
5 26	15 13.63	−31 31.6	0.610	1.607	10.4	17.1	163 E	13	84
5 31	15 10.94	−31 20.6	0.628	1.617	12.6	17.3	160 E	14	85
6 5	15 9.16	−31 6.4	0.650	1.628	15.0	17.5	155 E	14	85
6 10	15 8.38	−30 50.3	0.675	1.639	17.4	17.6	151 E	14	85
6 15	15 8.63	−30 33.6	0.705	1.652	19.6	17.8	147 E	14	85
6 20	15 9.94	−30 17.4	0.738	1.664	21.7	18.0	143 E	15	86
6 25	15 12.27	−30 2.4	0.774	1.678	23.5	18.2	139 E	15	86
6 30	15 15.58	−29 49.1	0.813	1.692	25.2	18.4	135 E	15	86
7 5	15 19.79	−29 37.9	0.855	1.706	26.6	18.5	131 E	15	86
7 10	15 24.80	−29 28.8	0.900	1.721	27.9	18.7	128 E	15*	87
7 15	15 30.55	−29 21.5	0.948	1.736	29.0	18.9	124 E	15*	87
7 20	15 36.96	−29 16.0	0.997	1.752	29.8	19.0	121 E	15*	87
7 30	15 51.52	−29 9.3	1.104	1.784	31.1	19.3	115 E	15*	87
8 9	16 7.95	−29 6.4	1.218	1.818	31.9	19.6	109 E	15*	87
8 19	16 25.84	−29 4.5	1.339	1.852	32.2	19.8	103 E	15*	87
8 29	16 44.88	−29 1.5	1.466	1.887	32.0	20.1	98 E	15*	87
9 8	17 4.77	−28 55.1	1.598	1.923	31.6	20.3	92 E	15*	85*
9 18	17 25.27	−28 43.8	1.734	1.959	30.8	20.5	87 E	15*	81*
9 28	17 46.22	−28 26.2	1.872	1.996	29.8	20.7	82 E	15*	76*
10 8	18 7.41	−28 1.3	2.013	2.032	28.6	20.8	77 E	16*	71*
10 18	18 28.71	−27 28.4	2.154	2.069	27.2	21.0	72 E	16*	66*
10 28	18 50.01	−26 47.1	2.294	2.105	25.6	21.1	66 E	17*	60*
11 7	19 11.18	−25 57.5	2.433	2.141	24.0	21.2	61 E	17*	54*
11 17	19 32.14	−24 59.5	2.568	2.176	22.1	21.3	56 E	18*	48*
11 27	19 52.81	−23 53.4	2.699	2.212	20.2	21.4	51 E	18*	42*
12 7	20 13.13	−22 39.9	2.824	2.246	18.2	21.5	45 E	18*	36*
15673 Chetaev									
12 23	12 40.65	− 7 27.5	2.712	2.691	21.0	19.7	78 W	38	57*
1 2	12 49.40	− 8 43.2	2.558	2.676	21.5	19.6	86 W	36	64*
1 12	12 56.75	− 9 51.8	2.403	2.660	21.6	19.5	94 W	35	71*
1 22	13 2.41	−10 52.3	2.248	2.643	21.3	19.3	103 W	34	75
2 1	13 6.04	−11 42.7	2.098	2.625	20.4	19.1	112 W	33	76
2 11	13 7.30	−12 21.3	1.956	2.606	18.9	18.9	121 W	33	76
2 21	13 5.91	−12 45.9	1.825	2.586	16.7	18.7	131 W	32	77
3 2	13 1.68	−12 54.1	1.711	2.565	13.7	18.4	142 W	32	77
3 12	12 54.73	−12 44.3	1.616	2.544	10.1	18.1	153 W	32	77
3 22	12 45.51	−12 16.2	1.546	2.521	6.0	17.8	165 W	33	76
4 1	12 34.87	−11 31.8	1.503	2.498	2.9	17.6	173 E	33	76

(continuation)

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
15673 Chetaev									
	h m	° ′			°	m	°	°	°
4 6	12 29.40	−11 5.0	1.492	2.486	3.6	17.6	171 E	34	75
4 11	12 24.03	−10 36.4	1.488	2.473	5.5	17.7	166 E	34	75
4 16	12 18.93	−10 6.8	1.491	2.461	7.7	17.8	161 E	35	74
4 21	12 14.22	− 9 37.4	1.500	2.448	10.0	17.9	155 E	35	74
4 26	12 10.05	− 9 9.0	1.516	2.435	12.2	18.0	149 E	36	73
5 1	12 6.50	− 8 42.7	1.537	2.422	14.3	18.1	144 E	36	73
5 11	12 1.54	− 7 59.1	1.593	2.395	18.1	18.2	133 E	37	72
5 21	11 59.57	− 7 30.4	1.665	2.368	21.1	18.4	123 E	37	72
5 31	12 0.59	− 7 18.8	1.747	2.340	23.5	18.6	113 E	37*	71
6 10	12 4.36	− 7 24.3	1.836	2.311	25.2	18.7	105 E	34*	71
6 20	12 10.60	− 7 45.9	1.929	2.281	26.3	18.8	97 E	30*	72
6 30	12 19.03	− 8 22.2	2.021	2.251	26.8	18.9	89 E	25*	72
7 10	12 29.36	− 9 11.4	2.112	2.221	27.0	19.0	82 E	21*	72*
7 20	12 41.38	−10 11.7	2.199	2.190	26.8	19.0	76 E	18*	68*
7 30	12 54.93	−11 21.3	2.281	2.158	26.3	19.1	70 E	15*	64*
8 9	13 9.85	−12 38.4	2.357	2.126	25.5	19.1	64 E	12*	58*
8 19	13 26.07	−14 1.2	2.427	2.094	24.5	19.1	59 E	10*	53*
8 29	13 43.54	−15 28.0	2.489	2.062	23.3	19.1	54 E	9*	48*
9 8	14 2.21	−16 56.9	2.544	2.030	22.0	19.0	49 E	7*	43*
9 18	14 22.07	−18 25.9	2.592	1.997	20.5	19.0	44 E	6*	38*
9 28	14 43.12	−19 53.0	2.631	1.965	19.0	18.9	40 E	5*	34*
10 8	15 5.37	−21 16.0	2.663	1.934	17.3	18.9	35 E	4*	29*
10 18	15 28.81	−22 32.7	2.688	1.903	15.6	18.8	31 E	3*	25*
10 28	15 53.43	−23 40.5	2.706	1.872	13.8	18.7	27 E	3*	21*
11 7	16 19.18	−24 37.1	2.717	1.842	12.0	18.6	23 E	2*	17*
11 17	16 46.00	−25 20.0	2.722	1.813	10.1	18.5	19 E	1*	13*
11 27	17 13.77	−25 46.7	2.721	1.786	8.2	18.4	15 E	—	9*
12 7	17 42.34	−25 55.3	2.715	1.759	6.3	18.3	11 E	—	5*
12 17	18 11.52	−25 44.0	2.705	1.735	4.4	18.1	8 E	—	2*
12 27	18 41.09	−25 11.6	2.690	1.712	2.5	18.0	4 E	—	—
1 6	19 10.82	−24 17.6	2.673	1.691	1.1	17.8	2 E	—	—
1 16	19 40.50	−23 1.9	2.653	1.672	1.9	17.9	3 W	—	—
65817 1996 TC_{33}									
12 23	12 40.82	− 8 54.4	2.570	2.550	22.1	21.1	78 W	36	57*
1 2	12 51.48	−10 13.7	2.411	2.523	22.8	21.0	85 W	35	65*
1 12	13 1.01	−11 26.1	2.251	2.495	23.2	20.8	92 W	34	72*
1 22	13 9.13	−12 30.4	2.091	2.467	23.1	20.7	100 W	32	76*
2 1	13 15.49	−13 24.6	1.935	2.438	22.5	20.4	109 W	32	77
2 11	13 19.74	−14 6.6	1.786	2.408	21.3	20.2	118 W	31	78
2 21	13 21.50	−14 33.8	1.647	2.378	19.4	19.9	127 W	30	79
3 2	13 20.44	−14 43.4	1.521	2.347	16.7	19.7	137 W	30	79
3 12	13 16.42	−14 32.7	1.413	2.316	13.2	19.3	148 W	30	79
3 22	13 9.61	−13 59.9	1.325	2.284	8.9	19.0	159 W	31	78
4 1	13 0.61	−13 5.5	1.261	2.252	4.3	18.6	170 W	32	77
4 6	12 55.63	−12 31.4	1.238	2.236	2.8	18.5	174 E	32	77
4 11	12 50.55	−11 54.0	1.223	2.220	3.5	18.5	172 E	33	76
4 16	12 45.53	−11 14.3	1.213	2.203	5.8	18.6	167 E	34	75
4 21	12 40.76	−10 33.5	1.210	2.187	8.4	18.7	162 E	34	75
4 26	12 36.42	− 9 53.1	1.213	2.170	11.0	18.8	156 E	35	74
5 1	12 32.64	− 9 14.4	1.222	2.154	13.6	18.9	150 E	36	73
5 6	12 29.55	− 8 38.5	1.236	2.138	16.0	19.0	144 E	36	73
5 11	12 27.21	− 8 6.5	1.255	2.121	18.3	19.1	139 E	37	72
5 21	12 25.00	− 7 16.3	1.303	2.088	22.3	19.2	128 E	38	71
5 31	12 26.16	− 6 47.5	1.364	2.055	25.6	19.4	119 E	38*	71
6 10	12 30.54	− 6 40.5	1.433	2.023	28.1	19.6	110 E	36*	71
6 20	12 37.83	− 6 54.0	1.506	1.991	29.9	19.7	103 E	33*	71
6 30	12 47.73	− 7 25.8	1.581	1.959	31.1	19.8	95 E	30*	71
7 10	12 59.91	− 8 13.4	1.656	1.928	31.8	19.9	89 E	26*	72*
7 20	13 14.11	− 9 13.9	1.730	1.898	32.1	19.9	83 E	23*	72*
7 30	13 30.14	−10 24.8	1.801	1.869	32.0	20.0	78 E	21*	69*
8 9	13 47.82	−11 43.1	1.869	1.841	31.7	20.0	73 E	19*	66*
8 19	14 7.04	−13 6.2	1.934	1.815	31.1	20.1	68 E	17*	61*
8 29	14 27.72	−14 31.4	1.996	1.790	30.3	20.1	63 E	16*	57*
9 8	14 49.78	−15 55.9	2.054	1.766	29.4	20.1	59 E	15*	53*
9 18	15 13.17	−17 16.7	2.109	1.745	28.3	20.1	55 E	14*	49*
9 28	15 37.84	−18 31.0	2.161	1.726	27.0	20.1	52 E	14*	45*
10 8	16 3.68	−19 36.0	2.210	1.709	25.7	20.1	48 E	13*	42*
10 18	16 30.61	−20 28.7	2.257	1.694	24.3	20.0	44 E	13*	38*
10 28	16 58.48	−21 6.8	2.302	1.683	22.8	20.0	41 E	13*	34*
11 7	17 27.10	−21 27.8	2.345	1.674	21.2	20.0	38 E	13*	30*
11 17	17 56.29	−21 30.2	2.388	1.668	19.6	20.0	34 E	13*	26*
11 27	18 25.80	−21 12.8	2.429	1.664	17.9	20.0	31 E	13*	22*
12 7	18 55.38	−20 35.2	2.469	1.664	16.1	19.9	28 E	13*	18*
12 17	19 24.82	−19 37.7	2.508	1.667	14.4	19.9	25 E	12*	14*
12 27	19 53.90	−18 21.4	2.547	1.673	12.5	19.9	22 E	11*	10*
1 6	20 22.46	−16 47.8	2.585	1.681	10.7	19.9	19 E	10*	7*
1 16	20 50.38	−14 59.0	2.622	1.693	8.8	19.8	15 E	8*	4*

(continuation)

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		415949 2001 XY_{10}							
	h m	° ′			°	m	°	°	°
12 23	12 41.32	+27 21.5	0.643	1.199	55.0	20.7	93 W	72	30*
12 28	12 58.99	+30 4.2	0.621	1.204	54.5	20.7	95 W	75	28*
1 2	13 17.50	+32 56.5	0.602	1.208	54.0	20.6	96 W	78	26*
1 7	13 36.96	+35 56.5	0.585	1.209	53.7	20.5	98 W	81	23*
1 12	13 57.47	+39 1.5	0.571	1.209	53.6	20.5	99 W	84	21*
1 17	14 19.12	+42 8.3	0.559	1.206	53.6	20.4	99 W	87	18*
1 22	14 41.98	+45 13.2	0.550	1.202	54.0	20.4	99 W	90	15*
1 27	15 6.10	+48 12.3	0.544	1.195	54.5	20.4	99 W	87	13*
2 1	15 31.47	+51 1.4	0.540	1.187	55.3	20.3	98 W	84*	10*
2 6	15 58.07	+53 36.8	0.538	1.176	56.4	20.3	97 W	81*	7*
2 11	16 25.83	+55 55.6	0.538	1.164	57.6	20.4	95 W	78*	5*
2 16	16 54.62	+57 56.1	0.538	1.150	59.1	20.4	93 W	75*	3*
2 21	17 24.20	+59 37.0	0.540	1.133	60.7	20.4	91 W	73*	1*
2 26	17 54.32	+60 57.9	0.541	1.115	62.6	20.4	88 W	70*	—
3 2	18 24.70	+61 58.4	0.542	1.094	64.6	20.5	86 W	68*	—
3 7	18 55.11	+62 38.4	0.542	1.072	66.8	20.5	83 W	66*	—
3 12	19 25.36	+62 57.9	0.540	1.048	69.2	20.5	80 W	64*	—
3 17	19 55.33	+62 56.6	0.537	1.022	71.9	20.5	77 W	62*	—
3 22	20 24.94	+62 33.5	0.531	0.993	74.8	20.5	74 W	60*	—
3 27	20 54.14	+61 46.3	0.524	0.963	78.2	20.5	71 W	58*	—
4 1	21 22.94	+60 31.3	0.515	0.931	82.0	20.6	67 W	55*	—
4 6	21 51.40	+58 43.2	0.504	0.897	86.3	20.6	64 W	53*	—
4 11	22 19.58	+56 15.6	0.492	0.862	91.3	20.7	59 W	50*	—
4 16	22 47.50	+53 0.9	0.480	0.825	97.0	20.8	55 W	47*	—
4 21	23 15.13	+48 51.7	0.469	0.788	103.3	20.9	50 W	43*	3*
4 26	23 42.40	+43 43.6	0.463	0.749	110.0	21.2	44 W	38*	6*
5 1	0 9.24	+37 39.8	0.463	0.710	116.7	21.5	39 W	33*	9*
		10165 1995 BL_2							
12 23	12 41.47	−16 20.2	1.454	1.528	38.4	20.6	75 W	29	61*
1 2	13 3.28	−21 14.8	1.311	1.470	40.9	20.3	78 W	24	68*
1 12	13 28.03	−26 45.4	1.173	1.407	43.7	20.1	81 W	18	74*
1 22	13 57.67	−32 56.6	1.045	1.338	46.8	19.8	82 W	12	76*
1 27	14 15.30	−36 17.1	0.986	1.302	48.6	19.7	83 W	9	76*
2 1	14 35.60	−39 45.6	0.931	1.265	50.6	19.5	83 W	5	73*
2 6	14 59.44	−43 18.3	0.880	1.226	52.8	19.4	82 W	2	70*
2 11	15 27.91	−46 48.3	0.835	1.186	55.2	19.3	81 W	—	67*
2 13	15 40.88	−48 9.3	0.818	1.170	56.2	19.2	80 W	—	66*
2 15	15 54.87	−49 27.1	0.803	1.154	57.3	19.2	80 W	—	64*
2 17	16 9.97	−50 40.6	0.788	1.137	58.4	19.2	79 W	—	63*
2 19	16 26.21	−51 48.6	0.775	1.120	59.6	19.1	78 W	—	61*
2 21	16 43.63	−52 49.7	0.763	1.103	60.8	19.1	77 W	—	59*
2 23	17 2.22	−53 42.2	0.752	1.086	62.0	19.1	76 W	—	58*
2 25	17 21.91	−54 24.7	0.742	1.069	63.3	19.0	75 W	—	56*
2 27	17 42.57	−54 55.5	0.733	1.051	64.5	19.0	73 W	—	55*
2 29	18 4.00	−55 13.3	0.726	1.034	65.8	19.0	72 W	—	53*
3 2	18 25.94	−55 17.0	0.720	1.016	67.1	19.0	71 W	—	52*
3 3	18 37.02	−55 13.3	0.718	1.007	67.8	19.0	70 W	—	51*
3 4	18 48.10	−55 5.8	0.716	0.998	68.4	19.0	69 W	—	50*
3 5	18 59.15	−54 54.5	0.714	0.989	69.1	19.0	69 W	—	50*
3 6	19 10.14	−54 39.4	0.712	0.980	69.7	19.0	68 W	—	49*
3 7	19 21.01	−54 20.5	0.711	0.971	70.3	19.0	67 W	—	48*
3 8	19 31.75	−53 57.9	0.710	0.962	71.0	19.0	66 W	—	48*
3 9	19 42.31	−53 31.6	0.710	0.953	71.6	19.0	66 W	—	47*
3 10	19 52.66	−53 1.9	0.710	0.944	72.2	19.0	65 W	—	46*
3 11	20 2.78	−52 28.7	0.710	0.935	72.8	19.0	64 W	—	46*
3 12	20 12.66	−51 52.3	0.711	0.926	73.4	19.0	63 W	—	45*
3 14	20 31.59	−50 30.3	0.713	0.908	74.6	19.0	62 W	—	44*
3 16	20 49.38	−48 57.3	0.717	0.890	75.6	19.0	60 W	—	43*
3 18	21 6.00	−47 14.7	0.721	0.872	76.6	19.0	59 W	—	42*
3 20	21 21.48	−45 23.9	0.728	0.854	77.6	19.0	57 W	—	41*
3 22	21 35.86	−43 26.2	0.735	0.837	78.4	19.0	55 W	—	40*
3 24	21 49.23	−41 22.7	0.744	0.819	79.1	19.0	54 W	—	39*
3 26	22 1.66	−39 14.7	0.754	0.802	79.7	19.0	52 W	—	38*
3 28	22 13.25	−37 3.1	0.766	0.785	80.1	19.0	51 W	—	37*
3 30	22 24.09	−34 48.6	0.779	0.768	80.5	19.0	49 W	—	37*
4 1	22 34.27	−32 32.0	0.792	0.751	80.6	19.0	48 W	—	36*
4 3	22 43.87	−30 13.9	0.808	0.735	80.6	19.0	47 W	—	35*
4 5	22 52.98	−27 54.8	0.824	0.720	80.5	19.0	45 W	—	35*
4 7	23 1.66	−25 35.2	0.841	0.705	80.1	19.0	44 W	—	34*
4 9	23 9.98	−23 15.4	0.859	0.691	79.6	19.0	43 W	—	34*
4 11	23 18.01	−20 55.7	0.879	0.678	79.0	18.9	42 W	—	33*
4 16	23 37.15	−15 9.1	0.932	0.650	76.5	18.9	39 W	—	32*
4 21	23 55.52	− 9 29.1	0.990	0.628	72.9	18.8	37 W	—	30*
4 26	0 13.67	− 3 59.7	1.052	0.616	68.6	18.8	35 W	2*	29*
5 1	0 31.99	+ 1 15.6	1.117	0.613	63.6	18.7	33 W	5*	27*
5 6	0 50.70	+ 6 12.9	1.183	0.620	58.5	18.7	32 W	7*	25*
5 11	1 9.92	+10 49.0	1.249	0.636	53.5	18.8	30 W	9*	23*
5 16	1 29.62	+15 1.7	1.314	0.660	48.9	18.8	29 W	11*	21*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		10165 1995 BL_2 *(continuation)*							
	h m	° ′			°	m	°	°	°
5 21	1 49.75	+18 49.5	1.378	0.691	44.8	18.9	29 W	12*	19*
5 26	2 10.20	+22 12.2	1.439	0.727	41.3	19.0	28 W	14*	18*
5 31	2 30.85	+25 10.2	1.498	0.767	38.3	19.1	28 W	15*	16*
6 5	2 51.59	+27 44.6	1.554	0.810	35.8	19.3	28 W	16*	14*
6 10	3 12.33	+29 56.9	1.607	0.854	33.8	19.4	28 W	17*	13*
6 15	3 32.96	+31 48.6	1.657	0.899	32.1	19.5	28 W	18*	12*
6 20	3 53.37	+33 21.4	1.705	0.944	30.8	19.7	28 W	19*	11*
6 25	4 13.48	+34 37.0	1.749	0.989	29.7	19.8	29 W	20*	10*
6 30	4 33.20	+35 37.0	1.790	1.033	28.9	19.9	29 W	21*	10*
7 5	4 52.46	+36 22.9	1.827	1.077	28.3	20.0	30 W	22*	9*
7 10	5 11.21	+36 56.3	1.862	1.120	27.8	20.1	31 W	23*	9*
7 15	5 29.41	+37 18.6	1.893	1.162	27.6	20.2	32 W	24*	9*
7 20	5 47.03	+37 31.0	1.920	1.202	27.4	20.3	33 W	26*	9*
7 25	6 4.03	+37 34.8	1.943	1.242	27.3	20.4	34 W	27*	9*
7 30	6 20.40	+37 30.9	1.963	1.280	27.4	20.5	35 W	29*	9*
8 4	6 36.14	+37 20.5	1.979	1.317	27.5	20.6	37 W	30*	9*
8 9	6 51.26	+37 4.3	1.991	1.352	27.7	20.7	38 W	32*	10*
8 14	7 5.76	+36 43.1	2.000	1.387	28.0	20.8	40 W	34*	10*
8 19	7 19.67	+36 17.8	2.004	1.420	28.3	20.8	42 W	35*	11*
8 24	7 32.98	+35 49.0	2.005	1.451	28.7	20.9	44 W	37*	11*
8 29	7 45.72	+35 17.1	2.001	1.482	29.1	20.9	46 W	39*	12*
9 3	7 57.90	+34 42.8	1.994	1.511	29.6	21.0	48 W	41*	13*
9 8	8 9.54	+34 6.6	1.983	1.539	30.0	21.0	50 W	44*	14*
9 13	8 20.66	+33 28.7	1.968	1.566	30.5	21.1	52 W	46*	15*
9 18	8 31.27	+32 49.8	1.949	1.591	30.9	21.1	54 W	48*	16*
9 23	8 41.37	+32 10.1	1.927	1.615	31.4	21.1	57 W	51*	17*
9 28	8 50.97	+31 29.9	1.901	1.638	31.8	21.1	59 W	53*	18*
10 3	9 0.08	+30 49.6	1.871	1.660	32.2	21.1	62 W	56*	19*
10 8	9 8.70	+30 9.5	1.838	1.681	32.6	21.1	65 W	58*	20*
10 13	9 16.82	+29 29.8	1.802	1.700	32.9	21.1	68 W	61*	22*
10 18	9 24.44	+28 51.0	1.763	1.718	33.2	21.1	71 W	63*	23*
10 23	9 31.53	+28 13.2	1.721	1.735	33.5	21.1	74 W	66*	25*
10 28	9 38.06	+27 36.8	1.676	1.751	33.6	21.0	77 W	68*	26*
11 2	9 44.02	+27 2.0	1.628	1.766	33.7	21.0	81 W	69*	28*
11 7	9 49.37	+26 29.1	1.579	1.780	33.7	20.9	84 W	71*	30*
11 12	9 54.07	+25 58.5	1.527	1.792	33.5	20.9	88 W	71*	32*
11 17	9 58.04	+25 30.3	1.474	1.803	33.2	20.8	92 W	71	34*
11 22	10 1.21	+25 4.9	1.419	1.814	32.8	20.7	96 W	70	35*
11 27	10 3.52	+24 42.5	1.364	1.823	32.2	20.6	100 W	70	37*
12 2	10 4.87	+24 23.4	1.308	1.831	31.3	20.5	105 W	69	38*
12 7	10 5.16	+24 7.7	1.253	1.838	30.3	20.4	110 W	69	39*
12 12	10 4.25	+23 55.5	1.198	1.844	29.0	20.3	115 W	69	40*
12 17	10 2.02	+23 46.9	1.145	1.849	27.3	20.2	120 W	69	40
12 22	9 58.33	+23 41.4	1.093	1.852	25.4	20.0	126 W	69	40
12 27	9 53.07	+23 38.7	1.045	1.855	23.1	19.8	132 W	69	40
1 1	9 46.14	+23 37.8	1.000	1.856	20.4	19.7	139 W	69	40
1 6	9 37.51	+23 37.6	0.960	1.857	17.4	19.5	146 W	69	40
1 11	9 27.19	+23 36.6	0.926	1.856	14.0	19.3	153 W	69	40
1 16	9 15.33	+23 32.9	0.898	1.855	10.3	19.1	160 W	69	40
		433959 1999 FQ_{19}							
12 23	12 41.54	−10 58.5	1.622	1.694	34.4	20.6	77 W	34	58*
1 2	13 4.33	−14 18.4	1.524	1.672	35.5	20.5	81 W	31	65*
1 12	13 27.16	−17 34.9	1.431	1.654	36.3	20.3	84 W	27	71*
1 22	13 49.90	−20 45.3	1.345	1.642	36.8	20.2	88 W	24	78*
1 27	14 1.16	−22 17.1	1.303	1.637	37.0	20.1	90 W	23	81*
2 1	14 12.29	−23 46.2	1.263	1.634	37.0	20.1	92 W	21	85*
2 6	14 23.24	−25 12.1	1.225	1.632	37.0	20.0	95 W	20	88*
2 11	14 33.97	−26 34.6	1.188	1.631	36.9	19.9	97 W	18	89
2 16	14 44.40	−27 53.4	1.152	1.632	36.7	19.9	99 W	17	88
2 21	14 54.47	−29 8.2	1.118	1.634	36.4	19.8	102 W	16	87
2 26	15 4.09	−30 18.7	1.085	1.637	35.9	19.7	104 W	15	86
3 2	15 13.15	−31 24.7	1.053	1.641	35.3	19.6	107 W	14	85
3 7	15 21.59	−32 26.0	1.023	1.647	34.6	19.6	110 W	13	84
3 12	15 29.29	−33 22.4	0.994	1.654	33.7	19.5	113 W	12	83
3 17	15 36.17	−34 13.7	0.967	1.662	32.6	19.4	116 W	11	82
3 22	15 42.09	−34 59.6	0.941	1.671	31.4	19.3	119 W	10	81
3 27	15 46.98	−35 39.9	0.918	1.681	30.0	19.2	123 W	9	80
4 1	15 50.74	−36 14.0	0.896	1.693	28.4	19.2	126 W	9	80
4 6	15 53.34	−36 41.6	0.877	1.705	26.6	19.1	130 W	8	79
4 11	15 54.75	−37 2.2	0.860	1.718	24.6	19.0	134 W	8	79
4 16	15 54.97	−37 15.2	0.847	1.733	22.4	18.9	139 W	8	79
4 21	15 54.05	−37 20.1	0.836	1.748	20.1	18.8	143 W	8	79
4 26	15 52.11	−37 16.2	0.829	1.764	17.7	18.8	148 W	8	79
5 1	15 49.33	−37 3.3	0.827	1.781	15.2	18.7	152 W	8	79
5 6	15 45.93	−36 41.7	0.828	1.799	12.8	18.6	157 W	8	79
5 11	15 42.15	−36 11.9	0.834	1.818	10.7	18.6	161 W	9	80
5 16	15 38.25	−35 34.6	0.845	1.837	9.0	18.6	163 W	9	80
5 21	15 34.47	−34 51.2	0.861	1.857	8.2	18.6	165 E	10	81
5 26	15 31.05	−34 3.2	0.882	1.877	8.4	18.7	164 E	11	82
5 31	15 28.18	−33 12.5	0.909	1.899	9.6	18.8	162 E	12	83

433959 1999 FQ_{19} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 5	15 26.00	−32 20.8	0.940	1.920	11.2	19.0	158 E	13	84
6 10	15 24.59	−31 29.8	0.976	1.942	13.0	19.2	154 E	14	85
6 15	15 23.97	−30 40.6	1.017	1.965	14.9	19.3	150 E	14	85
6 20	15 24.17	−29 54.3	1.063	1.988	16.7	19.5	146 E	15	86
6 30	15 26.95	−28 33.0	1.167	2.035	19.8	19.9	137 E	16	87
7 10	15 32.59	−27 28.6	1.286	2.083	22.3	20.2	129 E	18*	89
7 20	15 40.66	−26 40.4	1.419	2.132	24.0	20.5	121 E	18*	89
7 30	15 50.75	−26 6.2	1.562	2.182	25.2	20.8	114 E	18*	90
8 9	16 2.48	−25 43.0	1.714	2.232	25.7	21.1	107 E	18*	90
8 19	16 15.52	−25 27.7	1.874	2.283	25.9	21.3	100 E	18*	89

48450 1991 *NA*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 41.83	−16 36.3	2.968	2.870	19.3	21.1	75 W	28	61*
1 2	12 50.44	−18 9.6	2.807	2.845	20.0	21.0	82 W	27	70*
1 12	12 57.80	−19 39.1	2.643	2.820	20.4	20.9	90 W	25	78*
1 22	13 3.62	−21 3.5	2.480	2.794	20.4	20.7	98 W	24	85*
2 1	13 7.58	−22 20.9	2.319	2.766	20.0	20.5	107 W	23	86
2 11	13 9.34	−23 29.0	2.165	2.738	19.0	20.3	115 W	22	87
2 21	13 8.60	−24 24.8	2.022	2.709	17.5	20.1	125 W	21	88
3 2	13 5.13	−25 4.0	1.892	2.679	15.4	19.9	134 W	20	89
3 12	12 58.95	−25 22.3	1.780	2.649	12.7	19.6	144 W	20	89
3 22	12 50.39	−25 15.5	1.689	2.617	9.9	19.4	153 W	20	89
3 27	12 45.44	−25 1.9	1.653	2.601	8.6	19.3	157 W	20	89
4 1	12 40.21	−24 41.3	1.624	2.585	7.7	19.2	160 E	20	89
4 6	12 34.86	−24 14.3	1.601	2.568	7.2	19.1	161 E	21	88
4 11	12 29.54	−23 41.4	1.584	2.551	7.5	19.1	161 E	21	88
4 16	12 24.41	−23 3.4	1.575	2.535	8.4	19.1	158 E	22	87
4 21	12 19.62	−22 21.4	1.572	2.518	9.8	19.1	155 E	23	86
4 26	12 15.30	−21 36.6	1.575	2.500	11.4	19.2	151 E	23	86
5 1	12 11.58	−20 50.4	1.584	2.483	13.2	19.2	146 E	24	85
5 6	12 8.54	−20 4.2	1.598	2.465	14.9	19.3	141 E	25	84
5 11	12 6.22	−19 19.1	1.618	2.447	16.6	19.4	136 E	26	83
5 16	12 4.67	−18 36.1	1.642	2.430	18.3	19.4	131 E	26	83
5 21	12 3.89	−17 56.1	1.670	2.411	19.8	19.5	126 E	27	82
5 31	12 4.66	−16 47.6	1.734	2.375	22.3	19.6	117 E	27*	81
6 10	12 8.34	−15 57.0	1.808	2.338	24.3	19.8	108 E	26*	80
6 20	12 14.65	−15 25.0	1.887	2.300	25.8	19.9	100 E	23*	79
6 30	12 23.32	−15 11.4	1.969	2.262	26.7	19.9	93 E	20*	79
7 10	12 34.06	−15 14.4	2.050	2.224	27.1	20.0	86 E	17*	78*
7 20	12 46.62	−15 32.1	2.128	2.185	27.2	20.1	79 E	14*	73*
7 30	13 0.85	−16 2.4	2.203	2.146	27.0	20.1	73 E	12*	67*
8 9	13 16.58	−16 43.0	2.273	2.107	26.4	20.1	68 E	10*	62*
8 19	13 33.71	−17 31.4	2.337	2.068	25.6	20.1	62 E	9*	56*
8 29	13 52.19	−18 25.5	2.395	2.030	24.7	20.1	57 E	8*	51*
9 8	14 11.95	−19 22.7	2.446	1.991	23.5	20.0	52 E	7*	46*
9 18	14 32.97	−20 20.6	2.490	1.953	22.2	20.0	47 E	6*	41*
9 28	14 55.24	−21 16.7	2.528	1.916	20.8	20.0	43 E	6*	37*
10 8	15 18.71	−22 8.2	2.559	1.880	19.3	19.9	38 E	5*	32*
10 18	15 43.37	−22 52.5	2.583	1.845	17.6	19.8	34 E	5*	28*
10 28	16 9.15	−23 26.8	2.601	1.811	16.0	19.7	30 E	5*	24*
11 7	16 35.97	−23 48.5	2.614	1.779	14.2	19.6	26 E	5*	20*
11 17	17 3.70	−23 55.1	2.622	1.748	12.4	19.5	22 E	4*	16*
11 27	17 32.20	−23 44.3	2.625	1.720	10.6	19.4	19 E	4*	12*
12 7	18 1.27	−23 14.3	2.625	1.694	8.8	19.3	15 E	3*	8*
12 17	18 30.70	−22 23.7	2.621	1.671	7.0	19.2	12 E	2*	4*
12 27	19 0.28	−21 12.1	2.615	1.650	5.2	19.1	9 E	1*	—
1 6	19 29.80	−19 39.5	2.608	1.633	3.6	19.0	6 E	—	—
1 16	19 59.08	−17 46.7	2.599	1.619	2.3	18.9	4 E	—	—

80107 1999 RG_{29}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 42.05	− 1 0.2	2.462	2.497	22.9	20.7	81 W	44	52*
1 2	12 51.91	− 0 44.9	2.342	2.516	23.0	20.6	89 W	44	58*
1 12	13 0.11	− 0 10.5	2.220	2.535	22.6	20.5	97 W	45	62*
1 22	13 6.38	+ 0 45.4	2.100	2.553	21.7	20.4	106 W	46	63*
2 1	13 10.39	+ 2 4.6	1.986	2.570	20.2	20.2	116 W	47	62
2 11	13 11.88	+ 3 47.8	1.883	2.586	18.1	20.1	126 W	49	60
2 21	13 10.66	+ 5 53.3	1.796	2.600	15.3	19.9	136 W	51	58
2 26	13 9.01	+ 7 3.2	1.760	2.607	13.7	19.8	141 W	52	57
3 2	13 6.70	+ 8 16.7	1.729	2.614	12.0	19.7	147 W	53	56
3 7	13 3.76	+ 9 32.5	1.705	2.621	10.4	19.6	152 W	55	54
3 12	13 0.27	+10 49.2	1.687	2.627	8.8	19.5	156 W	56	53
3 17	12 56.31	+12 5.4	1.677	2.633	7.5	19.5	160 W	57	52
3 22	12 51.98	+13 19.5	1.673	2.639	6.7	19.4	162 W	58	51
3 27	12 47.41	+14 29.8	1.678	2.644	6.7	19.4	162 W	59	50
4 1	12 42.73	+15 35.0	1.689	2.650	7.5	19.5	160 W	61	48
4 6	12 38.09	+16 33.7	1.708	2.655	8.7	19.6	156 E	62	47
4 11	12 33.62	+17 25.2	1.733	2.660	10.2	19.7	152 E	62	47
4 16	12 29.44	+18 9.0	1.765	2.664	11.8	19.8	147 E	63	46
4 21	12 25.65	+18 44.6	1.802	2.668	13.3	19.9	142 E	64	45

80107 1999 RG_{29} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 1	12 19.59	+19 31.9	1.893	2.676	16.2	20.1	132 E	65	44
5 11	12 15.89	+19 49.7	2.000	2.683	18.5	20.3	123 E	65	44
5 21	12 14.66	+19 42.4	2.119	2.688	20.2	20.5	114 E	65	44
5 31	12 15.82	+19 14.5	2.246	2.693	21.3	20.6	105 E	63*	45
6 10	12 19.15	+18 30.4	2.377	2.697	21.9	20.8	97 E	59*	45
6 20	12 24.39	+17 33.8	2.509	2.699	22.1	20.9	90 E	53*	46
6 30	12 31.30	+16 27.5	2.640	2.701	21.9	21.0	82 E	48*	48
7 10	12 39.62	+15 13.9	2.766	2.701	21.4	21.1	76 E	42*	48*
7 20	12 49.15	+13 54.9	2.888	2.701	20.6	21.2	69 E	38*	48*
7 30	12 59.72	+12 32.0	3.002	2.699	19.6	21.2	63 E	34*	46*
8 9	13 11.20	+11 6.6	3.108	2.696	18.4	21.3	57 E	31*	43*
8 19	13 23.47	+ 9 40.0	3.205	2.693	17.1	21.3	51 E	28*	39*
8 29	13 36.45	+ 8 13.0	3.291	2.688	15.7	21.3	46 E	26*	34*
9 8	13 50.06	+ 6 46.9	3.366	2.682	14.2	21.3	41 E	23*	29*
9 18	14 4.25	+ 5 22.5	3.429	2.675	12.6	21.3	36 E	21*	24*
9 28	14 18.98	+ 4 0.8	3.480	2.667	11.1	21.2	31 E	19*	18*
10 8	14 34.19	+ 2 42.7	3.518	2.659	9.6	21.2	26 E	17*	12*
10 18	14 49.87	+ 1 29.3	3.543	2.649	8.2	21.1	22 E	15*	6*
10 28	15 5.96	+ 0 21.4	3.555	2.638	7.2	21.1	19 E	13*	—
11 7	15 22.42	− 0 40.1	3.553	2.626	6.6	21.0	18 E	11*	—
11 17	15 39.23	− 1 34.2	3.539	2.613	6.6	21.0	18 E	8*	—
11 27	15 56.33	− 2 20.0	3.511	2.599	7.2	21.0	19 W	10*	—
12 7	16 13.65	− 2 56.9	3.470	2.584	8.2	21.0	22 W	15*	—
12 17	16 31.15	− 3 24.0	3.418	2.568	9.6	21.0	26 W	20*	—
12 27	16 48.74	− 3 40.6	3.353	2.551	11.2	21.1	30 W	24*	5*
1 6	17 6.35	− 3 46.4	3.277	2.533	12.8	21.1	35 W	27*	12*
1 16	17 23.89	− 3 40.9	3.191	2.514	14.5	21.0	40 W	30*	18*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 43.38	−10 0.9	2.304	2.288	24.7	19.8	77 W	35	57*
1 2	12 58.52	−10 26.1	2.133	2.242	25.8	19.6	83 W	35	64*
1 12	13 13.27	−10 34.5	1.962	2.195	26.6	19.4	90 W	34	69*
1 22	13 27.49	−10 21.7	1.793	2.148	27.0	19.1	97 W	35	73*
1 27	13 34.33	−10 5.7	1.709	2.125	27.1	19.0	101 W	35	74*
2 1	13 40.94	− 9 42.4	1.628	2.102	27.0	18.9	104 W	35	74
2 6	13 47.29	− 9 10.8	1.548	2.079	26.8	18.7	108 W	36	73
2 11	13 53.35	− 8 30.3	1.470	2.056	26.4	18.6	112 W	36	73
2 16	13 59.07	− 7 39.9	1.395	2.033	25.9	18.4	116 W	37	72
2 21	14 4.41	− 6 38.7	1.323	2.010	25.2	18.3	120 W	38	71
2 26	14 9.29	− 5 25.8	1.254	1.987	24.3	18.1	124 W	40	69
3 2	14 13.69	− 4 0.5	1.189	1.965	23.3	17.9	128 W	41	68
3 12	14 20.80	− 0 30.4	1.071	1.921	20.7	17.6	137 W	44	65
3 22	14 25.35	+ 3 52.2	0.973	1.878	17.8	17.2	145 W	49	60
4 1	14 27.08	+ 8 58.7	0.899	1.836	15.5	16.9	151 W	54	55
4 6	14 26.91	+11 42.2	0.871	1.816	15.1	16.8	152 W	57	52
4 11	14 26.11	+14 27.7	0.850	1.796	15.3	16.8	152 W	59	50
4 16	14 24.74	+17 11.2	0.835	1.777	16.3	16.7	150 W	62	47
4 21	14 22.92	+19 48.1	0.825	1.759	17.8	16.7	148 W	65	44
4 26	14 20.80	+22 14.4	0.822	1.741	19.8	16.8	144 W	67	42
5 1	14 18.56	+24 26.5	0.823	1.723	21.9	16.8	140 E	69	40
5 6	14 16.39	+26 21.9	0.829	1.707	24.1	16.9	136 E	71	38
5 11	14 14.47	+27 59.2	0.839	1.691	26.3	17.0	132 E	73	36
5 16	14 12.95	+29 17.7	0.851	1.675	28.4	17.0	128 E	74	35
5 21	14 11.99	+30 17.5	0.867	1.661	30.3	17.1	124 E	75	34
5 26	14 11.73	+30 59.2	0.884	1.648	32.0	17.2	120 E	76	33
5 31	14 12.24	+31 24.0	0.902	1.635	33.5	17.2	117 E	76	33
6 5	14 13.60	+31 33.1	0.922	1.623	34.9	17.3	114 E	77	32
6 10	14 15.81	+31 28.0	0.942	1.613	36.0	17.4	111 E	76	33
6 15	14 18.87	+31 10.0	0.963	1.603	37.0	17.4	108 E	76	33
6 20	14 22.78	+30 40.1	0.984	1.595	37.8	17.5	106 E	76	33
6 25	14 27.51	+29 59.6	1.005	1.587	38.5	17.6	104 E	75*	34
6 30	14 33.03	+29 9.4	1.025	1.581	39.1	17.6	101 E	73*	35
7 5	14 39.29	+28 10.7	1.046	1.576	39.5	17.7	100 E	71*	36
7 10	14 46.23	+27 4.2	1.066	1.572	39.8	17.7	98 E	69*	37
7 15	14 53.82	+25 50.6	1.087	1.569	40.1	17.7	96 E	68*	38
7 20	15 2.01	+24 30.7	1.108	1.568	40.2	17.8	95 E	66*	39
7 25	15 10.77	+23 5.1	1.129	1.567	40.3	17.8	94 E	64*	41
7 30	15 20.06	+21 34.7	1.150	1.568	40.3	17.9	93 E	62*	42
8 4	15 29.83	+20 0.1	1.172	1.570	40.2	17.9	92 E	60*	44
8 9	15 40.04	+18 22.1	1.194	1.573	40.1	18.0	91 E	59*	46
8 14	15 50.67	+16 41.4	1.218	1.578	39.9	18.0	90 E	57*	47
8 19	16 1.68	+14 58.8	1.243	1.583	39.7	18.0	89 E	55*	49
8 24	16 13.05	+13 15.0	1.269	1.590	39.4	18.1	88 E	54*	51*
8 29	16 24.74	+11 31.1	1.297	1.598	39.1	18.1	87 E	52*	52*
9 3	16 36.72	+ 9 47.8	1.327	1.607	38.8	18.2	86 E	51*	54*
9 8	16 48.96	+ 8 5.9	1.359	1.617	38.4	18.2	85 E	50*	55*
9 13	17 1.43	+ 6 26.3	1.393	1.628	37.9	18.3	84 E	48*	56*
9 18	17 14.10	+ 4 49.7	1.429	1.640	37.4	18.4	83 E	47*	57*
9 23	17 26.95	+ 3 16.9	1.468	1.653	36.9	18.4	82 E	46*	57*
9 28	17 39.94	+ 1 48.5	1.509	1.667	36.4	18.5	80 E	45*	58*

306464 1999 RO_{44} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 8	18 6.22	− 0 52.8	1.599	1.697	35.1	18.6	78 E	42*	57*
10 18	18 32.69	− 3 10.8	1.698	1.730	33.8	18.7	75 E	40*	56*
10 28	18 59.15	− 5 3.6	1.806	1.766	32.3	18.9	72 E	39*	54*
11 7	19 25.38	− 6 30.6	1.922	1.804	30.6	19.0	68 E	37*	50*
11 17	19 51.21	− 7 32.8	2.044	1.845	28.9	19.1	64 E	36*	46*
11 27	20 16.51	− 8 11.6	2.171	1.886	27.0	19.3	60 E	35*	42*
12 7	20 41.18	− 8 29.4	2.301	1.930	25.0	19.4	56 E	34*	37*
12 17	21 5.15	− 8 28.5	2.432	1.974	22.9	19.5	51 E	33*	32*
12 27	21 28.40	− 8 11.7	2.562	2.019	20.8	19.6	47 E	31*	27*
1 6	21 50.91	− 7 41.5	2.690	2.065	18.5	19.7	42 E	29*	23*
1 16	22 12.71	− 7 0.4	2.813	2.111	16.3	19.7	37 E	26*	19*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 43.52	+ 2 11.9	2.504	2.551	22.4	21.3	81 W	47	50*
1 2	12 54.37	+ 1 28.8	2.339	2.519	23.0	21.1	89 W	46	56*
1 12	13 4.06	+ 0 56.8	2.175	2.486	23.1	21.0	97 W	46	61*
1 22	13 12.32	+ 0 37.5	2.013	2.453	22.8	20.8	105 W	46	63*
2 1	13 18.79	+ 0 32.7	1.856	2.419	22.0	20.5	113 W	46	63
2 11	13 23.10	+ 0 43.9	1.708	2.384	20.5	20.3	122 W	46	63
2 21	13 24.87	+ 1 11.9	1.572	2.348	18.3	20.0	132 W	46	63
3 2	13 23.73	+ 1 56.6	1.450	2.312	15.3	19.7	142 W	47	62
3 12	13 19.54	+ 2 55.6	1.348	2.276	11.7	19.3	152 W	48	61
3 17	13 16.33	+ 3 29.1	1.305	2.257	9.6	19.2	158 W	48	61
3 22	13 12.44	+ 4 4.0	1.268	2.239	7.6	19.0	163 W	49	60
3 27	13 7.96	+ 4 39.4	1.237	2.220	5.9	18.9	167 W	50	59
4 1	13 3.02	+ 5 13.8	1.212	2.201	5.0	18.8	169 W	50	59
4 6	12 57.79	+ 5 46.0	1.194	2.182	5.6	18.7	168 E	51	58
4 11	12 52.44	+ 6 14.7	1.182	2.164	7.3	18.8	164 E	51	58
4 16	12 47.14	+ 6 38.8	1.177	2.145	9.6	18.8	159 E	52	57
4 21	12 42.07	+ 6 57.3	1.177	2.126	12.1	18.9	154 E	52	57
5 1	12 33.36	+ 7 15.1	1.194	2.087	17.0	19.1	143 E	52	57
5 11	12 27.36	+ 7 5.3	1.229	2.049	21.4	19.2	132 E	52	57
5 21	12 24.63	+ 6 29.2	1.277	2.012	25.1	19.4	123 E	51	58
5 31	12 25.33	+ 5 29.4	1.335	1.974	28.1	19.5	114 E	50*	59
6 10	12 29.30	+ 4 9.5	1.398	1.937	30.3	19.7	106 E	47*	60
6 20	12 36.25	+ 2 32.9	1.464	1.900	31.9	19.8	98 E	42*	61
6 30	12 45.86	+ 0 42.3	1.530	1.864	33.0	19.9	92 E	37*	63
7 10	12 57.83	− 1 19.4	1.596	1.830	33.7	19.9	86 E	32*	65*
7 20	13 11.90	− 3 30.1	1.659	1.796	33.9	20.0	80 E	28*	66*
7 30	13 27.91	− 5 47.5	1.720	1.765	33.8	20.0	75 E	24*	65*
8 9	13 45.70	− 8 9.4	1.778	1.734	33.5	20.0	71 E	21*	63*
8 19	14 5.20	−10 33.3	1.833	1.706	33.0	20.1	67 E	19*	60*
8 29	14 26.37	−12 56.8	1.885	1.680	32.3	20.1	63 E	17*	56*
9 8	14 49.15	−15 17.0	1.934	1.657	31.4	20.1	59 E	15*	53*
9 18	15 13.55	−17 30.7	1.982	1.637	30.4	20.1	55 E	14*	49*
9 28	15 39.55	−19 34.9	2.028	1.619	29.2	20.1	52 E	13*	46*
10 8	16 7.05	−21 25.7	2.073	1.605	28.0	20.1	49 E	12*	43*
10 18	16 35.98	−23 0.0	2.117	1.595	26.7	20.0	46 E	12*	40*
10 28	17 6.16	−24 14.3	2.162	1.588	25.3	20.0	43 E	11*	37*
11 7	17 37.35	−25 5.7	2.207	1.584	23.8	20.0	40 E	11*	34*
11 17	18 9.25	−25 32.3	2.253	1.585	22.2	20.0	37 E	11*	30*
11 27	18 41.52	−25 32.8	2.300	1.589	20.6	20.0	35 E	11*	27*
12 7	19 13.76	−25 7.1	2.349	1.597	18.9	20.0	32 E	11*	24*
12 17	19 45.66	−24 16.2	2.398	1.609	17.2	20.0	29 E	11*	20*
12 27	20 16.92	−23 2.2	2.449	1.624	15.4	20.0	26 E	10*	17*
1 6	20 47.29	−21 27.7	2.500	1.642	13.6	20.0	23 E	9*	14*
1 16	21 16.66	−19 36.0	2.552	1.663	11.7	20.1	20 E	8*	11*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 44.74	− 7 18.1	2.501	2.480	22.8	20.6	77 W	38	56*
1 2	12 52.08	− 8 54.8	2.410	2.528	22.8	20.6	85 W	36	64*
1 12	12 57.43	−10 22.3	2.316	2.574	22.4	20.6	94 W	35	72*
1 22	13 0.49	−11 39.7	2.222	2.620	21.5	20.5	103 W	33	76
2 1	13 1.00	−12 45.4	2.132	2.666	20.0	20.4	112 W	32	77
2 11	12 58.77	−13 37.6	2.050	2.710	17.9	20.3	122 W	31	78
2 21	12 53.78	−14 14.3	1.982	2.754	15.2	20.1	133 W	31	78
3 2	12 46.22	−14 33.6	1.932	2.797	11.9	20.0	144 W	30	79
3 12	12 36.67	−14 34.9	1.905	2.839	8.3	19.8	155 W	30	79
3 22	12 25.96	−14 19.2	1.905	2.881	5.0	19.7	165 W	31	78
3 27	12 20.49	−14 6.0	1.917	2.901	3.9	19.7	168 E	31	78
4 1	12 15.13	−13 50.0	1.935	2.921	3.9	19.7	169 E	31	78
4 6	12 10.02	−13 32.0	1.961	2.941	4.8	19.8	166 E	31	78
4 11	12 5.25	−13 12.7	1.994	2.961	6.2	19.9	161 E	32	77
4 16	12 0.91	−12 53.0	2.034	2.981	7.8	20.1	156 E	32	77
4 21	11 57.08	−12 33.4	2.081	3.000	9.3	20.2	151 E	32	77
5 1	11 51.15	−11 57.7	2.192	3.038	12.2	20.4	140 E	33	76
5 11	11 47.64	−11 29.6	2.324	3.075	14.5	20.7	130 E	34	75
5 21	11 46.48	−11 11.7	2.472	3.111	16.3	20.9	121 E	34*	75
5 31	11 47.50	−11 5.0	2.631	3.146	17.5	21.1	111 E	32*	75

306865 2001 SS_{263} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 10	11 50.43	−11 9.6	2.799	3.181	18.1	21.3	103 E	29*	75
6 20	11 55.01	−11 24.8	2.971	3.214	18.4	21.4	95 E	25*	75

39235 2000 YH_{55}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 44.96	+ 8 23.6	2.831	2.894	19.7	20.0	84 W	53	45*
1 2	12 53.74	+ 8 25.5	2.672	2.874	20.0	19.8	92 W	53	50*
1 12	13 1.15	+ 8 42.6	2.513	2.854	19.8	19.7	100 W	54	54*
1 22	13 6.91	+ 9 16.3	2.359	2.832	19.2	19.5	109 W	54	55*
2 1	13 10.71	+10 7.7	2.213	2.810	18.1	19.3	118 W	55	54
2 11	13 12.24	+11 16.5	2.078	2.787	16.4	19.1	127 W	56	53
2 21	13 11.27	+12 40.9	1.959	2.763	14.2	18.9	137 W	58	51
2 26	13 9.79	+13 27.9	1.907	2.751	13.0	18.8	141 W	58	51
3 2	13 7.64	+14 16.9	1.860	2.738	11.7	18.6	146 W	59	50
3 7	13 4.86	+15 7.1	1.819	2.725	10.4	18.5	150 W	60	49
3 12	13 1.50	+15 57.3	1.784	2.712	9.2	18.4	154 W	61	48
3 17	12 57.60	+16 46.3	1.756	2.699	8.3	18.4	157 W	62	47
3 22	12 53.25	+17 33.0	1.734	2.686	7.9	18.3	158 W	63	46
3 27	12 48.57	+18 15.9	1.719	2.672	7.9	18.3	158 W	63	46
4 1	12 43.68	+18 54.0	1.711	2.658	8.6	18.3	157 W	64	45
4 6	12 38.73	+19 26.1	1.710	2.644	9.7	18.3	154 E	64	45
4 11	12 33.86	+19 51.5	1.715	2.630	11.1	18.4	150 E	65	44
4 16	12 29.19	+20 9.9	1.726	2.615	12.6	18.4	145 E	65	44
4 21	12 24.86	+20 20.8	1.743	2.600	14.1	18.5	141 E	65	44
5 1	12 17.65	+20 20.7	1.791	2.570	17.1	18.6	131 E	65	44
5 11	12 12.83	+19 53.3	1.855	2.540	19.7	18.8	122 E	65	44
5 21	12 10.68	+19 2.7	1.932	2.508	21.8	18.9	113 E	64	45
5 31	12 11.21	+17 53.1	2.015	2.476	23.3	19.0	105 E	62*	46
6 10	12 14.25	+16 28.3	2.103	2.443	24.4	19.1	97 E	57*	48
6 20	12 19.55	+14 51.5	2.192	2.409	24.9	19.2	90 E	50*	49
6 30	12 26.86	+13 5.3	2.280	2.375	25.1	19.2	83 E	44*	51
7 10	12 35.93	+11 11.5	2.364	2.341	25.0	19.3	76 E	39*	52*
7 20	12 46.54	+ 9 11.7	2.444	2.305	24.5	19.3	70 E	34*	52*
7 30	12 58.53	+ 7 7.1	2.518	2.270	23.8	19.3	64 E	30*	50*
8 9	13 11.76	+ 4 58.8	2.585	2.234	22.8	19.3	59 E	26*	47*
8 19	13 26.14	+ 2 47.9	2.645	2.198	21.7	19.3	53 E	23*	44*
8 29	13 41.60	+ 0 35.3	2.696	2.161	20.4	19.2	48 E	21*	40*
9 8	13 58.09	− 1 37.9	2.740	2.124	19.0	19.2	43 E	18*	35*
9 18	14 15.61	− 3 50.7	2.776	2.088	17.5	19.1	39 E	16*	31*
9 28	14 34.15	− 6 1.7	2.804	2.051	15.9	19.1	34 E	14*	26*
10 8	14 53.70	− 8 9.7	2.823	2.015	14.2	19.0	30 E	13*	22*
10 18	15 14.31	−10 13.4	2.835	1.980	12.4	18.9	25 E	11*	17*
10 28	15 35.97	−12 11.0	2.839	1.944	10.6	18.8	21 E	9*	12*
11 7	15 58.71	−14 1.0	2.836	1.910	8.7	18.7	17 E	7*	8*
11 17	16 22.53	−15 41.5	2.826	1.876	6.8	18.5	13 E	5*	4*
11 27	16 47.41	−17 10.8	2.811	1.844	4.9	18.4	9 E	3*	—
12 7	17 13.32	−18 27.0	2.790	1.813	3.2	18.2	6 E	—	—
12 17	17 40.20	−19 28.4	2.764	1.783	2.1	18.1	4 E	—	—
12 27	18 7.93	−20 13.4	2.733	1.755	2.7	18.1	5 W	—	—
1 6	18 36.40	−20 40.7	2.700	1.730	4.3	18.1	7 W	—	—
1 16	19 5.46	−20 49.5	2.663	1.706	6.1	18.2	11 W	1*	3*

7358 Oze

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 46.09	− 9 52.1	3.396	3.302	16.8	20.7	76 W	35	57*
1 2	12 51.75	−10 41.1	3.243	3.301	17.3	20.7	85 W	34	65*
1 12	12 55.94	−11 22.0	3.087	3.300	17.3	20.6	94 W	34	73*
1 22	12 58.42	−11 53.6	2.932	3.296	16.9	20.4	103 W	33	76
2 1	12 58.94	−12 14.0	2.781	3.292	16.0	20.3	113 W	33	76
2 11	12 57.33	−12 21.7	2.639	3.286	14.5	20.1	123 W	33	76
2 21	12 53.49	−12 15.0	2.512	3.278	12.5	19.9	134 W	33	76
3 2	12 47.48	−11 52.7	2.404	3.270	9.9	19.7	146 W	33	76
3 12	12 39.60	−11 14.9	2.321	3.259	6.8	19.5	157 W	34	75
3 22	12 30.37	−10 23.1	2.265	3.248	3.5	19.3	168 W	35	74
4 1	12 20.54	− 9 21.0	2.241	3.235	2.2	19.2	173 E	36	73
4 6	12 15.68	− 8 47.6	2.241	3.228	3.5	19.2	169 E	36	73
4 11	12 10.99	− 8 13.7	2.248	3.221	5.1	19.3	163 E	37	72
4 16	12 6.56	− 7 40.0	2.263	3.213	6.9	19.4	157 E	37	72
4 21	12 2.49	− 7 7.3	2.285	3.205	8.6	19.5	152 E	38	71
5 1	11 55.68	− 6 7.2	2.347	3.188	11.7	19.7	140 E	39	70
5 11	11 50.95	− 5 17.7	2.432	3.169	14.3	19.8	129 E	40	69
5 21	11 48.42	− 4 41.2	2.533	3.150	16.3	20.0	119 E	40*	69
5 31	11 48.10	− 4 18.7	2.645	3.128	17.8	20.1	109 E	39*	68
6 10	11 49.82	− 4 10.1	2.764	3.105	18.8	20.2	100 E	35*	68
6 20	11 53.40	− 4 14.7	2.886	3.081	19.3	20.3	91 E	31*	68
6 30	11 58.63	− 4 31.4	3.006	3.056	19.3	20.4	83 E	26*	68*
7 10	12 5.31	− 4 58.9	3.122	3.028	18.9	20.4	75 E	21*	65*
7 20	12 13.25	− 5 35.8	3.232	3.000	18.3	20.5	68 E	17*	60*
7 30	12 22.31	− 6 21.2	3.332	2.970	17.3	20.5	61 E	14*	54*
8 9	12 32.36	− 7 13.7	3.421	2.938	16.2	20.5	54 E	11*	48*
8 19	12 43.29	− 8 12.2	3.499	2.905	14.8	20.5	47 E	8*	41*

7358 Oze *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 29	12 55.03	− 9 15.9	3.562	2.870	13.2	20.4	41 E	6*	35*
9 8	13 7.51	−10 23.7	3.611	2.834	11.5	20.4	34 E	4*	28*
9 18	13 20.69	−11 34.7	3.645	2.796	9.7	20.3	28 E	2*	22*
9 28	13 34.55	−12 48.0	3.663	2.757	7.7	20.2	22 E	—	16*
10 8	13 49.04	−14 2.6	3.665	2.716	5.7	20.0	16 E	—	10*
10 18	14 4.18	−15 17.7	3.651	2.674	3.6	19.9	10 E	—	4*
10 28	14 19.95	−16 32.4	3.620	2.630	1.6	19.7	4 E	—	—
11 7	14 36.35	−17 45.6	3.573	2.584	1.3	19.6	3 W	—	—
11 17	14 53.39	−18 56.4	3.510	2.537	3.3	19.7	9 W	—	2*
11 27	15 11.06	−20 3.8	3.432	2.488	5.6	19.7	14 W	4*	6*
12 7	15 29.38	−21 6.7	3.341	2.438	7.9	19.7	20 W	8*	11*
12 17	15 48.36	−22 4.2	3.235	2.385	10.2	19.7	26 W	11*	16*
12 27	16 7.98	−22 55.0	3.118	2.332	12.6	19.7	31 W	13*	22*
1 6	16 28.25	−23 38.1	2.990	2.276	14.9	19.6	37 W	14*	28*
1 16	16 49.17	−24 12.3	2.852	2.219	17.2	19.5	42 W	15*	34*

31832 2000 AP_{59}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 46.66	− 9 36.0	2.376	2.344	24.0	19.6	76 W	35	57*
1 2	12 58.89	−11 22.5	2.223	2.316	24.9	19.4	83 W	34	64*
1 12	13 10.16	−13 5.5	2.068	2.287	25.5	19.2	90 W	32	72*
1 22	13 20.21	−14 44.1	1.915	2.258	25.6	19.1	97 W	30	78*
2 1	13 28.69	−16 17.1	1.764	2.228	25.3	18.8	105 W	29	80
2 11	13 35.21	−17 43.3	1.619	2.198	24.5	18.6	113 W	27	82
2 21	13 39.32	−19 0.8	1.482	2.167	23.0	18.3	121 W	26	83
3 2	13 40.52	−20 6.8	1.356	2.136	20.7	18.0	130 W	25	84
3 12	13 38.42	−20 57.6	1.243	2.104	17.6	17.7	140 W	24	85
3 22	13 32.86	−21 28.9	1.148	2.072	13.8	17.4	150 W	24	85
4 1	13 24.11	−21 35.7	1.072	2.041	9.6	17.0	160 W	23	86
4 6	13 18.82	−21 29.2	1.043	2.025	7.7	16.9	164 W	24	85
4 11	13 13.15	−21 16.0	1.020	2.009	6.5	16.7	167 E	24	85
4 16	13 7.30	−20 56.6	1.002	1.993	6.5	16.7	167 E	24	85
4 21	13 1.50	−20 31.6	0.990	1.977	7.9	16.7	164 E	24	85
4 26	12 56.00	−20 2.4	0.985	1.961	10.1	16.8	160 E	25	84
5 1	12 51.01	−19 30.3	0.984	1.945	12.6	16.9	155 E	25	84
5 6	12 46.73	−18 57.0	0.989	1.929	15.2	16.9	150 E	26	83
5 11	12 43.29	−18 24.0	0.999	1.914	17.8	17.0	145 E	27	82
5 16	12 40.79	−17 52.6	1.012	1.898	20.2	17.1	140 E	27	82
5 21	12 39.29	−17 24.0	1.030	1.883	22.5	17.2	135 E	28	81
5 26	12 38.83	−16 59.3	1.051	1.868	24.7	17.3	130 E	28	81
5 31	12 39.40	−16 39.1	1.074	1.853	26.6	17.4	125 E	28*	81
6 10	12 43.52	−16 14.0	1.127	1.824	29.9	17.6	117 E	28*	80
6 20	12 51.28	−16 9.5	1.186	1.795	32.4	17.7	109 E	26*	80
6 30	13 2.29	−16 24.5	1.249	1.768	34.2	17.8	102 E	23*	80
7 10	13 16.12	−16 56.5	1.313	1.742	35.5	18.0	96 E	20*	81
7 20	13 32.45	−17 42.2	1.378	1.718	36.3	18.0	90 E	18*	81*
7 30	13 51.00	−18 38.2	1.443	1.696	36.6	18.1	85 E	16*	79*
8 9	14 11.55	−19 40.7	1.507	1.676	36.7	18.2	81 E	15*	75*
8 19	14 33.91	−20 45.9	1.570	1.658	36.4	18.3	77 E	14*	71*
8 29	14 57.97	−21 50.2	1.632	1.642	35.9	18.3	73 E	13*	67*
9 8	15 23.53	−22 49.5	1.694	1.629	35.2	18.4	69 E	13*	63*
9 18	15 50.47	−23 40.4	1.756	1.619	34.3	18.4	65 E	13*	59*
9 28	16 18.59	−24 19.4	1.817	1.612	33.3	18.4	62 E	13*	56*
10 8	16 47.68	−24 43.5	1.880	1.607	32.1	18.5	59 E	14*	53*
10 18	17 17.49	−24 50.1	1.942	1.606	30.8	18.5	56 E	14*	49*
10 28	17 47.75	−24 37.6	2.006	1.607	29.4	18.5	52 E	15*	46*
11 7	18 18.16	−24 4.8	2.071	1.612	27.8	18.6	49 E	16*	42*
11 17	18 48.45	−23 11.7	2.136	1.620	26.2	18.6	46 E	17*	38*
11 27	19 18.38	−21 58.8	2.203	1.630	24.5	18.6	43 E	18*	34*
12 7	19 47.73	−20 27.5	2.270	1.643	22.7	18.6	40 E	18*	30*
12 17	20 16.37	−18 39.6	2.337	1.659	20.9	18.7	37 E	19*	25*
12 27	20 44.19	−16 37.4	2.405	1.677	19.0	18.7	34 E	19*	21*
1 6	21 11.14	−14 23.1	2.472	1.697	17.0	18.7	30 E	18*	17*
1 16	21 37.24	−11 59.3	2.538	1.720	15.0	18.7	27 E	17*	13*

299198 2005 GQ_{172}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 46.87	+ 7 53.1	1.788	1.934	30.3	20.3	83 W	53	45*
1 2	12 59.48	+ 6 50.3	1.714	1.972	29.9	20.2	90 W	52	50*
1 12	13 9.74	+ 6 2.7	1.638	2.011	29.0	20.2	97 W	51	55*
1 22	13 17.31	+ 5 31.2	1.562	2.051	27.6	20.1	105 W	51	58*
2 1	13 21.78	+ 5 16.2	1.489	2.091	25.5	19.9	114 W	50	59
2 11	13 22.84	+ 5 16.9	1.422	2.131	22.8	19.8	123 W	50	59
2 21	13 20.27	+ 5 31.2	1.367	2.171	19.2	19.6	134 W	51	58
3 2	13 14.11	+ 5 55.3	1.326	2.211	15.0	19.5	145 W	51	58
3 7	13 9.83	+ 6 9.1	1.314	2.231	12.7	19.4	150 W	51	58
3 12	13 4.89	+ 6 23.0	1.307	2.251	10.4	19.3	156 W	51	58
3 17	12 59.43	+ 6 35.9	1.306	2.271	8.1	19.2	161 W	52	57
3 22	12 53.60	+ 6 47.1	1.311	2.290	6.1	19.2	166 W	52	57
3 27	12 47.59	+ 6 55.6	1.323	2.310	4.8	19.1	169 W	52	57
4 1	12 41.60	+ 7 0.8	1.342	2.330	4.9	19.2	168 E	52	57

299198 2005 GQ_{172} *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 11	12 30.38	+ 6 59.1	1.400	2.368	8.1	19.5	161 E	52	57
4 21	12 21.10	+ 6 40.5	1.483	2.407	12.0	19.8	150 E	52	57
5 1	12 14.49	+ 6 5.5	1.589	2.444	15.5	20.1	140 E	51	58
5 11	12 10.78	+ 5 16.4	1.712	2.482	18.3	20.4	130 E	50	59
5 21	12 9.87	+ 4 15.9	1.851	2.518	20.3	20.7	120 E	49	60
5 31	12 11.49	+ 3 6.3	2.000	2.554	21.7	20.9	112 E	47*	61
6 10	12 15.28	+ 1 49.6	2.157	2.589	22.4	21.1	103 E	43*	62
6 20	12 20.91	+ 0 27.6	2.319	2.624	22.7	21.3	96 E	38*	64
6 30	12 28.07	− 0 58.6	2.483	2.657	22.5	21.5	88 E	33*	65

146134 2000 SE_1

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 47.19	−30 22.6	1.677	1.616	34.7	19.6	69 W	15	62*
12 28	12 59.77	−32 50.3	1.629	1.599	35.5	19.5	71 W	12	64*
1 2	13 12.91	−35 18.5	1.582	1.582	36.2	19.5	72 W	10	66*
1 7	13 26.71	−37 46.3	1.537	1.565	36.9	19.4	73 W	7	67*
1 12	13 41.27	−40 12.8	1.494	1.549	37.7	19.3	74 W	5	67*
1 17	13 56.68	−42 37.0	1.453	1.533	38.4	19.3	75 W	2	67*
1 22	14 13.07	−44 57.6	1.414	1.517	39.0	19.2	76 W	—	66*
1 27	14 30.53	−47 13.1	1.376	1.502	39.7	19.2	77 W	—	65*
2 1	14 49.17	−49 21.8	1.341	1.487	40.4	19.1	78 W	—	64*
2 6	15 9.09	−51 22.0	1.306	1.473	41.0	19.0	79 W	—	63*
2 11	15 30.35	−53 11.9	1.274	1.459	41.6	19.0	79 W	—	61*
2 16	15 52.96	−54 49.5	1.242	1.446	42.3	18.9	80 W	—	60*
2 21	16 16.86	−56 13.2	1.212	1.433	42.9	18.9	81 W	—	58*
2 26	16 41.85	−57 21.1	1.183	1.422	43.5	18.8	81 W	—	57*
3 2	17 7.67	−58 11.9	1.155	1.411	44.1	18.8	82 W	—	56*
3 4	17 18.14	−58 27.1	1.144	1.407	44.3	18.7	82 W	—	56*
3 6	17 28.66	−58 39.4	1.132	1.403	44.5	18.7	82 W	—	56*
3 8	17 39.20	−58 48.8	1.121	1.399	44.7	18.7	83 W	—	55*
3 10	17 49.72	−58 55.2	1.110	1.395	44.9	18.7	83 W	—	55*
3 12	18 0.20	−58 58.7	1.100	1.391	45.2	18.6	83 W	—	55*
3 14	18 10.61	−58 59.3	1.089	1.388	45.4	18.6	83 W	—	55*
3 16	18 20.91	−58 57.0	1.078	1.385	45.6	18.6	84 W	—	55*
3 18	18 31.07	−58 51.9	1.067	1.381	45.8	18.6	84 W	—	55*
3 20	18 41.07	−58 44.1	1.056	1.378	46.0	18.6	84 W	—	55*
3 22	18 50.88	−58 33.7	1.045	1.375	46.2	18.5	85 W	—	55*
3 27	19 14.44	−57 56.5	1.018	1.369	46.6	18.5	86 W	—	56*
4 1	19 36.39	−57 4.9	0.990	1.364	47.0	18.4	87 W	—	56*
4 6	19 56.56	−56 0.3	0.962	1.359	47.4	18.4	88 W	—	57*
4 11	20 14.89	−54 44.5	0.934	1.356	47.6	18.3	89 W	—	59*
4 21	20 45.96	−51 44.8	0.875	1.352	48.0	18.2	92 W	—	62*
5 1	21 9.81	−48 14.0	0.815	1.353	47.9	18.0	95 W	—	67*
5 11	21 26.86	−44 15.7	0.752	1.358	47.1	17.8	100 W	—	72*
5 16	21 32.94	−42 6.2	0.720	1.362	46.4	17.7	102 W	—	74
5 21	21 37.36	−39 49.1	0.689	1.368	45.5	17.6	105 W	2*	76
5 26	21 40.11	−37 23.7	0.658	1.374	44.3	17.5	109 W	5*	79
5 31	21 41.15	−34 48.8	0.628	1.381	42.7	17.3	112 W	8*	81
6 5	21 40.45	−32 3.1	0.599	1.389	40.8	17.2	117 W	11*	84
6 10	21 37.98	−29 5.6	0.571	1.398	38.5	17.1	121 W	15*	87
6 20	21 27.60	−22 32.4	0.525	1.419	32.5	16.7	131 W	22	87
6 30	21 10.33	−15 12.9	0.495	1.443	25.1	16.4	143 W	30	79
7 10	20 47.97	− 7 37.0	0.487	1.470	17.8	16.2	154 W	37	72
7 15	20 35.83	− 3 59.6	0.493	1.484	15.2	16.2	158 W	41	68
7 20	20 23.68	− 0 39.2	0.505	1.498	14.0	16.2	159 W	44	65
7 25	20 12.04	+ 2 18.3	0.523	1.514	14.6	16.3	158 E	47	62
7 30	20 1.34	+ 4 49.8	0.548	1.529	16.3	16.5	155 E	50	59
8 9	19 43.91	+ 8 34.2	0.612	1.561	21.0	16.9	147 E	54	55
8 19	19 32.57	+10 48.0	0.693	1.595	25.2	17.4	138 E	56	53
8 29	19 27.27	+11 56.7	0.787	1.629	28.5	17.8	130 E	57	52
9 3	19 26.66	+12 14.6	0.837	1.647	29.7	18.0	126 E	57	52
9 8	19 27.24	+12 24.8	0.890	1.665	30.7	18.2	123 E	57	52
9 13	19 28.90	+12 29.2	0.944	1.682	31.5	18.3	119 E	57	52
9 18	19 31.53	+12 29.5	0.999	1.700	32.1	18.5	116 E	57	52
9 23	19 35.03	+12 27.1	1.056	1.718	32.5	18.7	113 E	57	52
9 28	19 39.32	+12 23.4	1.113	1.735	32.8	18.8	110 E	57	52
10 3	19 44.29	+12 19.0	1.172	1.753	33.0	18.9	107 E	57	52
10 8	19 49.87	+12 14.8	1.231	1.771	33.1	19.1	105 E	57	52
10 13	19 55.99	+12 11.3	1.291	1.789	33.1	19.2	102 E	57	52
10 18	20 2.61	+12 9.0	1.352	1.806	33.0	19.3	99 E	57	52*
10 28	20 17.11	+12 9.7	1.474	1.841	32.6	19.5	94 E	57	50*
11 7	20 32.98	+12 19.1	1.598	1.875	31.9	19.7	90 E	57	47*
11 17	20 49.93	+12 38.3	1.722	1.908	31.1	19.9	85 E	58	43*
11 27	21 7.75	+13 8.2	1.846	1.941	30.1	20.1	80 E	58*	39*
12 7	21 26.23	+13 48.6	1.970	1.973	28.9	20.2	76 E	58*	33*
12 17	21 45.22	+14 39.2	2.092	2.003	27.7	20.3	71 E	58*	28*
12 27	22 4.63	+15 39.4	2.212	2.033	26.4	20.5	67 E	57*	23*

146134 2000 SE_1 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 6	22 24.33	+16 48.1	2.329	2.062	24.9	20.6	62 E	54*	18*
1 16	22 44.30	+18 4.2	2.443	2.089	23.4	20.6	58 E	51*	13*

1221 Amor

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 47.20	−11 56.5	1.042	1.236	50.3	20.1	75 W	33	58*
12 28	13 8.29	−13 11.4	1.009	1.213	51.6	20.0	75 W	32	59*
1 2	13 30.15	−14 19.7	0.980	1.191	52.8	20.0	75 W	31	59*
1 7	13 52.74	−15 19.9	0.954	1.170	54.0	19.9	74 W	30	60*
1 12	14 15.96	−16 10.4	0.933	1.151	55.1	19.9	74 W	29	60*
1 17	14 39.67	−16 50.1	0.915	1.135	56.1	19.8	73 W	28	61*
1 22	15 3.72	−17 17.7	0.901	1.120	57.0	19.8	73 W	28*	61*
1 27	15 27.90	−17 32.6	0.891	1.108	57.8	19.8	72 W	27*	61*
2 1	15 52.00	−17 34.5	0.884	1.098	58.4	19.7	72 W	27*	61*
2 6	16 15.82	−17 23.9	0.881	1.091	58.9	19.7	71 W	27*	61*
2 11	16 39.18	−17 1.3	0.880	1.086	59.1	19.7	71 W	27*	61*
2 16	17 1.92	−16 27.9	0.882	1.084	59.3	19.7	71 W	27*	61*
2 21	17 23.90	−15 44.9	0.886	1.085	59.2	19.7	70 W	28*	61*
2 26	17 45.01	−14 53.7	0.892	1.088	59.0	19.8	70 W	28*	61*
3 2	18 5.18	−13 55.8	0.898	1.095	58.7	19.8	71 W	28*	61*
3 7	18 24.38	−12 52.7	0.906	1.103	58.2	19.8	71 W	29*	61*
3 12	18 42.58	−11 45.6	0.914	1.115	57.6	19.8	71 W	29*	61*
3 17	18 59.81	−10 35.6	0.922	1.128	57.0	19.8	72 W	30*	61*
3 22	19 16.05	− 9 23.9	0.930	1.144	56.3	19.9	73 W	31*	62*
4 1	19 45.64	− 6 58.4	0.943	1.182	54.7	19.9	75 W	32*	63*
4 11	20 11.52	− 4 35.1	0.952	1.226	53.0	20.0	78 W	33*	64*
4 21	20 33.85	− 2 18.1	0.955	1.276	51.1	20.0	81 W	35*	64*
5 1	20 52.64	− 0 11.3	0.951	1.329	49.1	20.0	85 W	38*	64*
5 11	21 7.88	+ 1 41.9	0.940	1.386	46.8	20.0	91 W	40*	62
5 21	21 19.44	+ 3 18.0	0.923	1.444	44.1	20.0	96 W	43*	61
5 31	21 27.02	+ 4 32.5	0.901	1.504	41.0	20.0	103 W	47*	59
6 5	21 29.24	+ 4 59.9	0.889	1.534	39.2	19.9	107 W	48*	59
6 10	21 30.39	+ 5 19.9	0.877	1.564	37.2	19.9	111 W	49*	59
6 15	21 30.41	+ 5 31.7	0.865	1.594	35.1	19.8	116 W	50*	58
6 20	21 29.31	+ 5 34.5	0.854	1.624	32.7	19.8	120 W	51*	58
6 25	21 27.08	+ 5 27.3	0.844	1.653	30.2	19.7	125 W	50	59
6 30	21 23.78	+ 5 9.7	0.836	1.683	27.4	19.7	130 W	50	59
7 10	21 14.34	+ 4 1.9	0.829	1.742	21.4	19.5	141 W	49	60
7 20	21 2.09	+ 2 13.0	0.837	1.799	15.2	19.4	152 W	47	62
7 30	20 48.79	− 0 8.1	0.865	1.856	10.0	19.4	161 W	45	64
8 4	20 42.36	− 1 25.6	0.888	1.883	8.7	19.4	164 E	44	65
8 9	20 36.39	− 2 45.0	0.917	1.911	8.6	19.5	164 E	42	67
8 14	20 31.04	− 4 3.9	0.951	1.938	9.7	19.7	161 E	41	68
8 19	20 26.45	− 5 20.8	0.992	1.964	11.5	19.9	157 E	40	69
8 24	20 22.73	− 6 33.9	1.038	1.990	13.5	20.1	153 E	38	71
8 29	20 19.95	− 7 42.2	1.089	2.016	15.5	20.3	148 E	37	72
9 8	20 17.15	− 9 41.9	1.206	2.067	19.1	20.7	138 E	35	74
9 18	20 17.85	−11 17.5	1.339	2.115	21.9	21.0	128 E	34	75
9 28	20 21.64	−12 29.5	1.485	2.162	23.8	21.4	119 E	33	76
10 8	20 28.02	−13 19.9	1.641	2.207	25.0	21.6	111 E	32	77

6487 Tonyspear

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 47.63	−11 29.7	2.436	2.382	23.5	18.5	75 W	34	57*
1 2	13 1.21	−12 14.3	2.274	2.348	24.5	18.4	82 W	33	64*
1 12	13 14.04	−12 46.0	2.111	2.314	25.1	18.2	89 W	32	71*
1 22	13 25.92	−13 2.1	1.948	2.279	25.4	18.0	96 W	32	76*
2 1	13 36.56	−12 58.7	1.789	2.243	25.2	17.8	104 W	32	77
2 6	13 41.31	−12 48.5	1.710	2.226	24.9	17.7	108 W	32	77
2 11	13 45.62	−12 31.9	1.634	2.208	24.4	17.5	112 W	32	77
2 16	13 49.45	−12 8.4	1.560	2.190	23.8	17.4	117 W	33	76
2 21	13 52.73	−11 37.2	1.488	2.172	22.9	17.2	121 W	33	76
3 2	13 57.47	−10 9.6	1.353	2.136	20.6	16.9	131 W	35	74
3 12	13 59.48	− 8 5.4	1.234	2.100	17.4	16.6	141 W	37	72
3 22	13 58.56	− 5 23.4	1.134	2.064	13.3	16.2	151 W	40	69
3 27	13 56.99	− 3 49.2	1.092	2.047	11.1	16.0	157 W	41	68
4 1	13 54.76	− 2 7.7	1.056	2.029	8.9	15.9	162 W	43	66
4 6	13 51.94	− 0 20.7	1.026	2.011	7.0	15.7	166 W	45	64
4 11	13 48.65	+ 1 29.6	1.003	1.994	6.2	15.6	168 W	46	63
4 16	13 45.03	+ 3 20.4	0.987	1.976	6.9	15.6	166 W	48	61
4 21	13 41.24	+ 5 9.0	0.977	1.959	8.8	15.6	163 E	50	59
4 26	13 37.46	+ 6 52.5	0.973	1.942	11.4	15.7	158 E	52	57
5 1	13 33.90	+ 8 28.2	0.976	1.925	14.1	15.8	152 E	53	56
5 6	13 30.71	+ 9 54.3	0.983	1.909	16.9	15.9	147 E	55	54
5 11	13 28.06	+11 9.2	0.996	1.892	19.5	16.0	141 E	56	53
5 21	13 24.77	+13 3.0	1.033	1.860	24.3	16.2	131 E	58	51
5 31	13 24.68	+14 8.7	1.082	1.830	28.2	16.3	122 E	59	50
6 10	13 27.96	+14 31.1	1.139	1.800	31.2	16.5	113 E	59*	49

6487 Tonyspear *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 15	13 30.82	+14 28.2	1.169	1.786	32.4	16.6	110 E	59*	50
6 20	13 34.45	+14 16.9	1.199	1.773	33.4	16.6	106 E	58*	50
6 25	13 38.83	+13 58.0	1.230	1.760	34.3	16.7	103 E	56*	50
6 30	13 43.91	+13 32.5	1.262	1.747	35.0	16.8	100 E	55*	50
7 5	13 49.65	+13 1.0	1.293	1.735	35.6	16.8	97 E	53*	51
7 10	13 56.00	+12 24.2	1.324	1.724	36.0	16.9	94 E	51*	52
7 15	14 2.92	+11 42.7	1.354	1.713	36.4	16.9	91 E	49*	52
7 20	14 10.38	+10 57.0	1.385	1.703	36.6	17.0	89 E	48*	53
7 25	14 18.36	+10 7.6	1.415	1.693	36.8	17.0	87 E	46*	54
7 30	14 26.83	+ 9 15.1	1.444	1.684	36.9	17.0	85 E	45*	55*
8 9	14 45.09	+ 7 22.5	1.502	1.669	36.8	17.1	81 E	42*	56*
8 19	15 5.00	+ 5 22.8	1.559	1.656	36.5	17.1	77 E	40*	56*
8 29	15 26.43	+ 3 19.3	1.615	1.647	36.1	17.2	74 E	39*	56*
9 8	15 49.23	+ 1 15.8	1.672	1.640	35.4	17.2	71 E	37*	55*
9 18	16 13.28	− 0 44.6	1.729	1.637	34.6	17.3	68 E	36*	53*
9 28	16 38.47	− 2 38.2	1.788	1.638	33.7	17.3	65 E	35*	51*
10 8	17 4.62	− 4 21.8	1.850	1.642	32.6	17.4	62 E	34*	48*
10 18	17 31.60	− 5 52.5	1.914	1.649	31.4	17.4	59 E	33*	45*
10 28	17 59.20	− 7 7.6	1.983	1.659	30.0	17.5	57 E	32*	42*
11 7	18 27.21	− 8 5.3	2.055	1.672	28.6	17.5	54 E	31*	39*
11 17	18 55.40	− 8 44.4	2.131	1.689	27.0	17.6	51 E	31*	35*
11 27	19 23.57	− 9 4.6	2.210	1.708	25.3	17.6	48 E	30*	31*
12 7	19 51.50	− 9 6.2	2.292	1.730	23.5	17.7	44 E	29*	26*
12 17	20 19.03	− 8 50.2	2.375	1.754	21.5	17.7	41 E	28*	22*
12 27	20 46.02	− 8 18.3	2.460	1.780	19.5	17.8	37 E	26*	18*
1 6	21 12.36	− 7 32.3	2.544	1.808	17.5	17.8	34 E	24*	14*
1 16	21 38.00	− 6 34.5	2.627	1.837	15.3	17.9	30 E	22*	11*

259146 2002 XF_{84}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 49.77	+38 57.8	1.190	1.620	37.1	19.4	96 W	84	19*
12 28	13 3.62	+38 46.5	1.161	1.614	37.2	19.4	97 W	84	20*
1 2	13 16.69	+38 35.9	1.133	1.608	37.2	19.3	99 W	84	21*
1 7	13 28.91	+38 26.5	1.106	1.603	37.1	19.2	100 W	83	22*
1 12	13 40.22	+38 18.6	1.081	1.600	37.0	19.2	102 W	83	23*
1 17	13 50.53	+38 12.5	1.056	1.597	36.9	19.1	103 W	83	24*
1 22	13 59.77	+38 8.5	1.031	1.596	36.6	19.1	105 W	83	25*
1 27	14 7.85	+38 6.6	1.007	1.596	36.3	19.0	107 W	83	25*
2 1	14 14.68	+38 6.4	0.984	1.597	35.8	18.9	108 W	83	26*
2 6	14 20.18	+38 7.7	0.961	1.599	35.3	18.9	110 W	83	26*
2 11	14 24.27	+38 9.8	0.938	1.602	34.6	18.8	113 W	83	26
2 16	14 26.86	+38 11.9	0.916	1.607	33.9	18.7	115 W	83	26
2 21	14 27.86	+38 12.9	0.896	1.612	32.9	18.7	118 W	83	26
2 26	14 27.19	+38 11.2	0.876	1.619	31.9	18.6	120 W	83	26
3 2	14 24.83	+38 4.7	0.857	1.626	30.7	18.5	123 W	83	26
3 7	14 20.79	+37 51.0	0.841	1.635	29.4	18.5	126 W	83	26
3 12	14 15.15	+37 27.9	0.827	1.644	28.0	18.4	129 W	82	27
3 17	14 8.05	+36 52.7	0.815	1.655	26.6	18.4	132 W	82	27
3 22	13 59.72	+36 3.1	0.807	1.666	25.1	18.3	135 W	81	28
3 27	13 50.48	+34 57.1	0.803	1.679	23.8	18.3	137 W	80	29
4 1	13 40.73	+33 33.6	0.803	1.692	22.6	18.2	139 W	79	30
4 6	13 30.90	+31 52.7	0.808	1.706	21.7	18.2	141 W	77	32
4 11	13 21.37	+29 55.6	0.818	1.721	21.1	18.3	142 W	75	34
4 16	13 12.48	+27 44.9	0.833	1.736	21.0	18.3	142 E	73	36
4 21	13 4.50	+25 23.4	0.855	1.752	21.3	18.4	141 E	70	39
4 26	12 57.61	+22 54.4	0.882	1.769	21.9	18.5	139 E	68	41
5 1	12 51.93	+20 21.4	0.914	1.786	22.8	18.7	137 E	65	44
5 6	12 47.47	+17 47.3	0.952	1.804	23.8	18.8	134 E	63	46
5 11	12 44.20	+15 14.8	0.995	1.823	24.8	18.9	131 E	60	49
5 16	12 42.05	+12 45.7	1.043	1.842	25.8	19.1	127 E	58	51
5 21	12 40.96	+10 21.2	1.095	1.861	26.8	19.3	124 E	55	54
5 31	12 41.58	+ 5 48.8	1.212	1.901	28.3	19.6	117 E	51*	58
6 10	12 45.35	+ 1 39.8	1.341	1.943	29.3	19.9	110 E	45*	62
6 20	12 51.63	− 2 6.8	1.480	1.985	29.8	20.1	104 E	39*	66
6 30	12 59.96	− 5 33.9	1.627	2.029	29.8	20.4	98 E	33*	70
7 10	13 9.94	− 8 44.0	1.780	2.073	29.4	20.6	92 E	27*	73
7 20	13 21.27	−11 39.6	1.936	2.118	28.6	20.8	86 E	22*	75*
7 30	13 33.76	−14 22.9	2.094	2.162	27.5	21.0	80 E	18*	73*
8 9	13 47.24	−16 55.4	2.252	2.208	26.3	21.2	74 E	14*	68*
8 19	14 1.60	−19 18.2	2.409	2.253	24.8	21.3	69 E	11*	63*
8 29	14 16.75	−21 32.2	2.563	2.298	23.2	21.4	64 E	8*	57*

237486 2000 KM_2

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 50.42	− 2 5.0	2.700	2.678	21.1	21.4	78 W	43	51*
1 2	13 1.01	− 2 2.4	2.537	2.655	21.7	21.3	86 W	43	57*
1 12	13 10.48	− 1 43.0	2.372	2.631	21.9	21.1	94 W	43	62*
1 22	13 18.58	− 1 3.7	2.210	2.606	21.6	21.0	103 W	44	65*
2 1	13 25.00	− 0 1.5	2.052	2.581	20.8	20.7	111 W	45	64
2 11	13 29.39	+ 1 26.1	1.904	2.554	19.4	20.5	121 W	46	63
2 21	13 31.44	+ 3 20.7	1.769	2.526	17.3	20.3	131 W	48	61
3 2	13 30.86	+ 5 41.9	1.652	2.498	14.6	20.0	141 W	51	58

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		237486 2000 KM_2				*(continuation)*			
	h m	° ′			°	m	°	°	°
3 7	13 29.54	+ 7 1.3	1.601	2.483	13.1	19.9	145 W	52	57
3 12	13 27.54	+ 8 25.3	1.557	2.469	11.6	19.7	150 W	53	56
3 17	13 24.90	+ 9 52.8	1.519	2.454	10.1	19.6	154 W	55	54
3 22	13 21.64	+11 22.2	1.487	2.438	8.9	19.5	158 W	56	53
3 27	13 17.86	+12 51.6	1.463	2.423	8.3	19.4	160 W	58	51
4 1	13 13.66	+14 19.1	1.446	2.408	8.3	19.4	160 W	59	50
4 6	13 9.18	+15 42.6	1.436	2.392	9.1	19.4	158 W	61	48
4 11	13 4.55	+17 0.3	1.432	2.376	10.5	19.4	154 E	62	47
4 16	12 59.93	+18 10.8	1.435	2.360	12.2	19.5	150 E	63	46
4 21	12 55.47	+19 12.7	1.445	2.344	14.0	19.5	146 E	64	45
4 26	12 51.31	+20 5.1	1.460	2.327	15.9	19.6	141 E	65	44
5 1	12 47.60	+20 47.7	1.480	2.311	17.7	19.7	136 E	66	43
5 11	12 41.93	+21 43.3	1.532	2.277	21.0	19.8	126 E	67	42
5 21	12 38.98	+22 2.5	1.597	2.243	23.8	20.0	117 E	67	42
5 31	12 38.99	+21 50.0	1.669	2.208	25.9	20.1	108 E	67*	42
6 5	12 40.09	+21 33.7	1.707	2.190	26.7	20.2	104 E	66*	42
6 10	12 41.88	+21 11.6	1.745	2.173	27.4	20.2	100 E	64*	43
6 15	12 44.34	+20 44.2	1.784	2.155	27.9	20.3	97 E	61*	43
6 20	12 47.43	+20 12.2	1.822	2.137	28.3	20.3	93 E	59*	44
6 30	12 55.39	+18 56.0	1.897	2.101	28.9	20.4	87 E	53*	45
7 10	13 5.46	+17 26.3	1.969	2.065	29.1	20.4	81 E	48*	47
7 20	13 17.41	+15 45.8	2.035	2.029	29.0	20.4	75 E	44*	48*
7 30	13 31.05	+13 56.5	2.096	1.994	28.6	20.5	70 E	40*	48*
8 9	13 46.21	+12 0.3	2.150	1.958	28.1	20.5	65 E	37*	47*
8 19	14 2.78	+ 9 58.9	2.198	1.923	27.4	20.5	61 E	35*	45*
8 29	14 20.69	+ 7 53.8	2.240	1.888	26.6	20.4	57 E	33*	42*
9 8	14 39.88	+ 5 46.8	2.276	1.854	25.7	20.4	53 E	31*	39*
9 18	15 0.31	+ 3 39.4	2.307	1.820	24.8	20.4	49 E	29*	36*
9 28	15 21.98	+ 1 33.6	2.333	1.788	23.8	20.3	46 E	28*	33*
10 8	15 44.84	− 0 28.5	2.355	1.758	22.7	20.3	43 E	27*	29*
10 18	16 8.90	− 2 24.9	2.374	1.729	21.6	20.2	40 E	25*	26*
10 28	16 34.11	− 4 13.1	2.391	1.701	20.4	20.2	37 E	24*	22*
11 7	17 0.40	− 5 51.0	2.407	1.676	19.2	20.1	34 E	23*	18*
11 17	17 27.69	− 7 16.3	2.422	1.653	17.9	20.0	31 E	21*	14*
11 27	17 55.86	− 8 27.0	2.436	1.633	16.5	20.0	28 E	20*	11*
12 7	18 24.74	− 9 21.4	2.452	1.616	15.1	19.9	25 E	18*	7*
12 17	18 54.18	− 9 58.4	2.467	1.602	13.5	19.9	22 E	16*	4*
12 27	19 23.97	−10 17.4	2.484	1.591	11.9	19.8	19 E	13*	—
1 6	19 53.91	−10 18.6	2.501	1.583	10.2	19.7	16 E	10*	—
1 16	20 23.82	−10 2.7	2.519	1.579	8.4	19.7	13 E	7*	—
		206913 2004 PH_{20}							
12 23	12 51.03	+ 6 54.9	2.460	2.514	22.8	21.3	82 W	52	45*
1 2	13 1.00	+ 7 21.2	2.357	2.548	22.7	21.3	90 W	52	50*
1 12	13 9.19	+ 8 6.4	2.254	2.580	22.2	21.2	98 W	53	54*
1 22	13 15.34	+ 9 11.7	2.154	2.612	21.2	21.1	107 W	54	55*
2 1	13 19.12	+10 37.2	2.060	2.643	19.6	21.0	116 W	56	53
2 11	13 20.31	+12 21.4	1.978	2.673	17.5	20.8	125 W	57	52
2 21	13 18.75	+14 20.2	1.912	2.702	15.0	20.7	135 W	59	50
3 2	13 14.44	+16 26.9	1.865	2.730	12.3	20.6	144 W	61	48
3 12	13 7.72	+18 31.8	1.843	2.757	9.9	20.5	151 W	64	45
3 17	13 3.64	+19 30.4	1.842	2.771	9.1	20.4	154 W	65	44
3 22	12 59.21	+20 24.6	1.847	2.784	8.6	20.4	155 W	65	44
3 27	12 54.55	+21 13.2	1.860	2.796	8.7	20.5	155 W	66	43
4 1	12 49.80	+21 55.3	1.879	2.809	9.1	20.5	153 W	67	42
4 6	12 45.09	+22 30.2	1.905	2.821	10.0	20.6	151 E	68	41
4 11	12 40.55	+22 57.6	1.937	2.833	11.0	20.7	147 E	68	41
4 16	12 36.29	+23 17.2	1.975	2.845	12.1	20.8	143 E	68	41
4 21	12 32.41	+23 29.3	2.019	2.856	13.3	20.9	139 E	68	41
4 26	12 28.99	+23 34.1	2.068	2.868	14.4	21.0	135 E	69	40
5 1	12 26.09	+23 32.0	2.121	2.879	15.5	21.1	130 E	69	40
5 6	12 23.76	+23 23.6	2.179	2.889	16.4	21.2	126 E	68	41
5 11	12 22.00	+23 9.6	2.240	2.900	17.3	21.3	122 E	68	41
5 16	12 20.82	+22 50.5	2.304	2.910	18.0	21.4	117 E	68	41
5 21	12 20.22	+22 27.0	2.371	2.920	18.6	21.5	113 E	67	42
		85628 1998 KV_2							
12 23	12 51.41	+19 31.4	0.459	1.064	67.4	17.9	87 W	65	35*
12 28	13 13.26	+18 48.2	0.466	1.065	67.3	17.9	87 W	64	36*
1 2	13 33.53	+18 2.7	0.473	1.067	67.0	18.0	87 W	63	37*
1 7	13 52.25	+17 16.5	0.480	1.071	66.4	18.0	87 W	62	38*
1 12	14 9.49	+16 30.7	0.487	1.078	65.7	18.0	87 W	62	39*
1 22	14 39.79	+15 4.6	0.500	1.097	63.8	18.1	89 W	60	43*
2 1	15 4.75	+13 50.4	0.508	1.123	61.3	18.1	92 W	59	46*
2 11	15 24.58	+12 49.7	0.511	1.155	58.2	18.1	96 W	58	50*
2 21	15 39.21	+12 2.3	0.508	1.193	54.6	18.0	101 W	57	52*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		85628 1998 KV_2				*(continuation)*			
	h m	° ′			°	m	°	°	°
2 26	15 44.43	+11 43.0	0.504	1.213	52.5	18.0	104 W	57	52
3 2	15 48.16	+11 25.8	0.500	1.234	50.2	17.9	107 W	56	53
3 7	15 50.33	+11 9.7	0.495	1.256	47.7	17.9	111 W	56	53
3 12	15 50.85	+10 53.8	0.489	1.278	44.9	17.8	115 W	56	53
3 17	15 49.67	+10 36.9	0.483	1.301	41.9	17.7	119 W	56	53
3 22	15 46.70	+10 17.7	0.478	1.324	38.6	17.6	124 W	55	54
3 27	15 41.94	+ 9 54.4	0.473	1.348	35.0	17.6	129 W	55	54
4 1	15 35.45	+ 9 25.4	0.471	1.371	31.2	17.5	135 W	54	55
4 6	15 27.43	+ 8 48.9	0.470	1.395	27.3	17.4	140 W	54	55
4 11	15 18.14	+ 8 3.9	0.473	1.419	23.2	17.3	146 W	53	56
4 16	15 7.92	+ 7 10.1	0.479	1.443	19.3	17.3	152 W	52	57
4 21	14 57.21	+ 6 7.5	0.490	1.467	15.9	17.2	156 W	51	58
4 26	14 46.50	+ 4 57.0	0.505	1.491	13.4	17.3	160 W	50	59
5 1	14 36.25	+ 3 40.1	0.525	1.515	12.3	17.3	161 W	49	60
5 6	14 26.87	+ 2 18.7	0.551	1.538	12.9	17.5	160 E	47	62
5 11	14 18.62	+ 0 55.0	0.581	1.561	14.6	17.7	157 E	46	63
5 16	14 11.67	− 0 29.3	0.615	1.584	16.9	17.9	153 E	45	64
5 21	14 6.10	− 1 53.1	0.655	1.607	19.3	18.2	148 E	43	66
5 26	14 1.93	− 3 15.4	0.698	1.629	21.6	18.4	144 E	42	67
5 31	13 59.11	− 4 35.6	0.745	1.651	23.7	18.7	139 E	40	69
6 10	13 57.15	− 7 8.9	0.849	1.693	27.2	19.1	130 E	38	71
6 20	13 59.36	− 9 32.2	0.964	1.734	29.7	19.5	122 E	35*	74
6 30	14 4.98	−11 46.6	1.088	1.773	31.4	19.9	115 E	32*	76
7 10	14 13.33	−13 52.9	1.218	1.810	32.3	20.2	108 E	28*	78
7 20	14 23.87	−15 51.9	1.353	1.846	32.7	20.5	101 E	25*	80
7 30	14 36.24	−17 44.1	1.491	1.879	32.6	20.7	95 E	22*	82
8 9	14 50.12	−19 29.7	1.631	1.910	32.1	20.9	89 E	19*	82*
8 19	15 5.29	−21 8.5	1.770	1.939	31.2	21.1	84 E	17*	77*
8 29	15 21.62	−22 40.3	1.909	1.966	30.2	21.3	78 E	15*	72*
9 8	15 38.95	−24 4.7	2.045	1.991	28.9	21.4	73 E	13*	67*
		516154 2016 CL_{32}							
12 23	12 52.09	− 3 4.3	0.712	1.081	62.6	21.0	77 W	42	52*
12 28	13 2.39	− 2 30.2	0.718	1.116	60.3	21.0	80 W	42	53*
1 2	13 11.86	− 1 51.7	0.721	1.152	58.0	21.0	84 W	43	55*
1 7	13 20.43	− 1 7.8	0.721	1.187	55.8	21.0	87 W	44	57*
1 12	13 28.05	− 0 17.7	0.719	1.223	53.5	21.0	90 W	45	59*
1 17	13 34.66	+ 0 39.2	0.716	1.259	51.2	21.0	94 W	46	60*
1 22	13 40.16	+ 1 43.9	0.710	1.295	48.7	20.9	98 W	47	61*
1 27	13 44.45	+ 2 56.7	0.703	1.330	46.2	20.9	103 W	48	61*
2 1	13 47.45	+ 4 17.9	0.696	1.365	43.5	20.9	107 W	49	60
2 6	13 49.07	+ 5 47.4	0.688	1.400	40.7	20.8	112 W	51	58
2 11	13 49.25	+ 7 24.7	0.681	1.434	37.6	20.8	117 W	52	57
2 16	13 47.92	+ 9 8.7	0.675	1.468	34.5	20.7	123 W	54	55
2 21	13 45.03	+10 57.9	0.672	1.501	31.1	20.6	128 W	56	53
2 26	13 40.59	+12 49.8	0.670	1.533	27.7	20.6	134 W	58	51
3 2	13 34.70	+14 41.1	0.673	1.565	24.3	20.5	139 W	60	49
3 7	13 27.52	+16 28.2	0.680	1.596	21.1	20.5	145 W	61	48
3 12	13 19.30	+18 7.3	0.691	1.626	18.2	20.5	149 W	63	46
3 17	13 10.34	+19 35.0	0.708	1.656	16.0	20.5	153 W	65	44
3 22	13 1.01	+20 48.4	0.729	1.685	14.7	20.6	155 W	66	43
3 27	12 51.69	+21 45.7	0.757	1.713	14.4	20.7	155 W	67	42
4 1	12 42.77	+22 26.1	0.790	1.741	15.1	20.8	153 W	67	42
4 6	12 34.56	+22 50.0	0.828	1.767	16.4	21.0	150 E	68	41
4 11	12 27.29	+22 58.8	0.871	1.793	18.1	21.2	146 E	68	41
4 16	12 21.08	+22 54.2	0.919	1.819	19.8	21.4	142 E	68	41
4 21	12 16.02	+22 38.1	0.971	1.843	21.5	21.6	138 E	68	41
4 26	12 12.13	+22 12.3	1.027	1.867	23.1	21.8	133 E	67	42
5 1	12 9.37	+21 38.5	1.086	1.890	24.5	22.0	129 E	67	42
		306415 1997 YL_{11}							
12 23	12 52.16	+ 0 5.7	1.434	1.571	37.9	20.9	79 W	45	49*
1 2	13 13.04	− 2 7.7	1.378	1.594	37.8	20.8	83 W	43	55*
1 12	13 32.02	− 4 7.9	1.322	1.622	37.3	20.8	88 W	41	62*
1 22	13 48.80	− 5 53.4	1.265	1.653	36.4	20.7	94 W	39	67*
2 1	14 2.93	− 7 23.3	1.209	1.688	35.1	20.6	100 W	38	71*
2 11	14 13.98	− 8 36.9	1.154	1.726	33.1	20.5	107 W	36	73
2 21	14 21.46	− 9 34.1	1.101	1.766	30.4	20.4	115 W	35	74
3 2	14 24.91	−10 14.8	1.055	1.808	26.9	20.2	124 W	35	74
3 12	14 24.10	−10 39.5	1.017	1.853	22.6	20.1	134 W	34	75
3 22	14 19.15	−10 48.9	0.993	1.899	17.4	19.9	145 W	34	75
4 1	14 10.70	−10 44.9	0.986	1.946	11.5	19.7	157 W	34	75
4 6	14 5.57	−10 39.1	0.990	1.970	8.4	19.6	163 W	34	75
4 11	14 0.11	−10 31.7	1.000	1.994	5.2	19.5	170 W	34	75
4 16	13 54.53	−10 23.3	1.016	2.018	2.1	19.4	176 W	35	74
4 21	13 49.04	−10 14.7	1.038	2.043	1.1	19.4	178 E	35	74
4 26	13 43.85	−10 6.7	1.066	2.067	4.0	19.7	172 E	35	74
5 1	13 39.14	−10 0.2	1.100	2.092	6.8	19.9	166 E	35	74
5 11	13 31.65	− 9 53.9	1.186	2.141	11.8	20.3	154 E	35	74
5 21	13 27.14	− 9 58.6	1.292	2.191	15.9	20.7	144 E	35	74

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
306415 1997 YL_{11} *(continuation)*									
	h m	° ′			°	m	°	°	°
5 31	13 25.73	−10 15.6	1.415	2.241	19.0	21.1	134 E	35	74
6 10	13 27.21	−10 44.4	1.553	2.290	21.3	21.4	125 E	34*	75
26677 2001 EJ_{18}									
12 23	12 52.53	+33 38.5	1.126	1.535	39.8	19.5	93 W	79	23*
12 28	13 6.61	+34 7.4	1.097	1.534	39.7	19.4	95 W	79	23*
1 2	13 20.26	+34 39.3	1.070	1.532	39.6	19.3	96 W	80	24*
1 7	13 33.42	+35 14.5	1.044	1.531	39.5	19.3	98 W	80	24*
1 12	13 46.02	+35 53.2	1.019	1.530	39.3	19.2	100 W	81	25*
1 17	13 57.99	+36 35.5	0.995	1.529	39.1	19.2	101 W	82	25*
1 22	14 9.24	+37 21.6	0.971	1.527	38.9	19.1	103 W	82	25*
1 27	14 19.67	+38 11.5	0.949	1.526	38.7	19.0	104 W	83	25*
2 1	14 29.17	+39 5.0	0.927	1.525	38.4	19.0	106 W	84	24*
2 6	14 37.64	+40 1.7	0.906	1.524	38.1	18.9	107 W	85	24*
2 11	14 44.96	+41 1.2	0.885	1.523	37.8	18.9	109 W	86	23*
2 16	14 51.02	+42 3.2	0.865	1.522	37.5	18.8	110 W	87	22
2 21	14 55.65	+43 6.8	0.846	1.521	37.1	18.7	112 W	88	21
2 26	14 58.69	+44 10.8	0.827	1.520	36.8	18.7	113 W	89	20
3 2	14 59.99	+45 13.7	0.810	1.519	36.4	18.6	115 W	90	19
3 7	14 59.41	+46 13.5	0.793	1.518	35.9	18.6	116 W	89	18
3 12	14 56.84	+47 7.9	0.776	1.517	35.5	18.5	117 W	88	17
3 17	14 52.18	+47 54.2	0.761	1.516	35.1	18.5	119 W	87	16
3 22	14 45.42	+48 29.0	0.748	1.516	34.7	18.4	120 W	87	16
3 27	14 36.66	+48 48.5	0.736	1.515	34.3	18.4	121 W	86	15
4 1	14 26.17	+48 48.8	0.725	1.514	34.0	18.3	122 W	86	15
4 6	14 14.39	+48 26.6	0.717	1.514	33.8	18.3	123 W	87	16
4 11	14 1.85	+47 39.3	0.711	1.513	33.6	18.3	123 W	87	16
4 16	13 49.16	+46 25.6	0.707	1.513	33.6	18.2	123 W	89	18
4 21	13 36.91	+44 45.3	0.706	1.512	33.8	18.3	123 E	90	19
4 26	13 25.63	+42 39.6	0.709	1.512	34.1	18.3	123 E	88	21
5 1	13 15.72	+40 11.3	0.714	1.512	34.5	18.3	122 E	85	24
5 6	13 7.40	+37 24.2	0.723	1.511	35.0	18.3	121 E	82	27
5 11	13 0.74	+34 22.4	0.735	1.511	35.7	18.4	119 E	79	30
5 16	12 55.71	+31 10.0	0.751	1.511	36.5	18.5	117 E	76	33
5 21	12 52.23	+27 50.7	0.770	1.511	37.3	18.5	115 E	73	36
5 26	12 50.21	+24 28.1	0.792	1.511	38.1	18.6	113 E	69	40
5 31	12 49.49	+21 5.0	0.818	1.511	38.9	18.7	111 E	66	43
6 5	12 49.95	+17 43.9	0.846	1.511	39.6	18.8	108 E	62*	46
6 10	12 51.44	+14 26.5	0.877	1.511	40.3	18.9	106 E	58*	50
6 15	12 53.86	+11 14.0	0.910	1.511	40.9	19.0	103 E	53*	53
6 20	12 57.11	+ 8 7.2	0.945	1.512	41.3	19.1	101 E	49*	56
6 30	13 5.79	+ 2 12.2	1.021	1.512	42.0	19.3	96 E	40*	62
7 10	13 16.95	− 3 17.1	1.102	1.513	42.2	19.5	91 E	33*	67
7 20	13 30.23	− 8 21.4	1.187	1.514	42.0	19.6	86 E	26*	72*
7 30	13 45.45	−13 2.9	1.273	1.516	41.6	19.8	82 E	20*	74*
8 9	14 2.49	−17 23.0	1.360	1.517	40.8	19.9	78 E	16*	72*
8 19	14 21.31	−21 23.1	1.446	1.519	39.8	20.0	74 E	12*	68*
8 29	14 41.98	−25 4.3	1.530	1.521	38.7	20.1	70 E	9*	64*
9 8	15 4.53	−28 26.4	1.611	1.523	37.4	20.2	67 E	6*	59*
9 18	15 29.07	−31 28.7	1.688	1.525	36.0	20.2	63 E	4*	55*
9 28	15 55.67	−34 10.1	1.762	1.528	34.6	20.3	60 E	2*	52*
10 8	16 24.35	−36 28.4	1.831	1.530	33.1	20.3	57 E	1*	49*
10 18	16 55.09	−38 20.9	1.895	1.533	31.6	20.4	54 E	—	46*
10 28	17 27.73	−39 45.0	1.956	1.535	30.1	20.4	51 E	—	43*
11 2	17 44.66	−40 15.5	1.984	1.536	29.4	20.4	49 E	—	42*
11 7	18 1.93	−40 37.8	2.011	1.538	28.7	20.4	48 E	—	41*
11 12	18 19.49	−40 51.7	2.038	1.539	27.9	20.4	47 E	—	40*
11 17	18 37.28	−40 57.1	2.063	1.540	27.2	20.4	45 E	—	39*
11 22	18 55.20	−40 53.7	2.088	1.542	26.5	20.4	44 E	—	38*
11 27	19 13.19	−40 41.7	2.111	1.543	25.8	20.4	43 E	—	37*
12 2	19 31.17	−40 20.9	2.134	1.544	25.1	20.4	42 E	—	35*
12 7	19 49.06	−39 51.6	2.156	1.545	24.5	20.5	41 E	1*	34*
12 12	20 6.80	−39 13.9	2.177	1.547	23.8	20.5	39 E	1*	33*
12 17	20 24.34	−38 28.1	2.198	1.548	23.1	20.5	38 E	1*	32*
12 22	20 41.61	−37 34.7	2.218	1.549	22.4	20.5	37 E	2*	31*
12 27	20 58.58	−36 34.0	2.237	1.550	21.8	20.5	36 E	2*	30*
1 1	21 15.21	−35 26.5	2.256	1.552	21.1	20.5	35 E	3*	29*
1 6	21 31.49	−34 12.7	2.275	1.553	20.5	20.5	34 E	3*	27*
1 11	21 47.40	−32 53.2	2.293	1.554	19.8	20.5	32 E	3*	26*
1 16	22 2.94	−31 28.4	2.310	1.555	19.2	20.4	31 E	4*	25*
506459 2002 AL_{14}									
12 23	12 52.74	− 1 46.3	0.804	1.131	58.2	19.7	78 W	43	51*
1 2	13 26.74	− 0 12.1	0.763	1.143	58.1	19.6	81 W	45	52*
1 12	14 1.34	+ 1 53.6	0.723	1.154	57.9	19.5	84 W	47	52*
1 22	14 36.41	+ 4 32.3	0.686	1.161	57.7	19.4	86 W	50	52*
2 1	15 11.64	+ 7 43.5	0.652	1.166	57.6	19.3	88 W	53	51*
2 6	15 29.21	+ 9 29.9	0.638	1.168	57.6	19.2	89 W	54	50*
2 11	15 46.69	+11 22.4	0.624	1.168	57.6	19.2	90 W	56	49*
2 16	16 4.04	+13 20.0	0.612	1.168	57.7	19.2	91 W	58	48*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
506459 2002 AL_{14} *(continuation)*									
	h m	° ′			°	m	°	°	°
2 21	16 21.21	+15 21.7	0.601	1.168	57.8	19.1	91 W	60	46*
2 26	16 38.15	+17 26.1	0.591	1.167	58.0	19.1	92 W	62*	45*
3 2	16 54.82	+19 31.9	0.582	1.165	58.3	19.1	92 W	64*	43*
3 7	17 11.20	+21 37.7	0.574	1.162	58.6	19.0	92 W	66*	42*
3 12	17 27.28	+23 42.4	0.566	1.159	59.0	19.0	92 W	68*	40*
3 17	17 43.07	+25 44.9	0.559	1.155	59.5	19.0	92 W	70*	38*
3 22	17 58.55	+27 44.6	0.552	1.150	60.0	19.0	91 W	72*	36*
3 27	18 13.74	+29 40.6	0.546	1.145	60.6	18.9	91 W	73*	34*
4 1	18 28.64	+31 32.1	0.538	1.139	61.3	18.9	90 W	75*	32*
4 6	18 43.34	+33 18.5	0.531	1.133	62.1	18.9	90 W	76*	31
4 11	18 57.90	+34 59.5	0.522	1.126	62.9	18.9	89 W	76*	29
4 16	19 12.39	+36 35.1	0.513	1.118	63.8	18.9	89 W	77*	27
4 21	19 26.91	+38 5.0	0.503	1.110	64.8	18.8	88 W	78*	26
4 26	19 41.55	+39 29.0	0.491	1.102	65.9	18.8	88 W	78*	25
5 1	19 56.47	+40 46.5	0.478	1.093	67.0	18.8	87 W	78*	23
5 6	20 11.87	+41 57.1	0.464	1.083	68.3	18.7	86 W	78*	22
5 11	20 27.98	+43 0.7	0.449	1.074	69.7	18.7	86 W	77*	21
5 16	20 45.05	+43 56.6	0.432	1.064	71.2	18.6	85 W	77*	20
5 21	21 3.37	+44 43.6	0.414	1.053	72.9	18.5	84 W	76*	19
5 26	21 23.29	+45 20.0	0.394	1.043	74.7	18.5	83 W	75*	19
5 31	21 45.24	+45 42.8	0.374	1.032	76.7	18.4	82 W	74*	18
6 5	22 9.69	+45 47.9	0.352	1.021	78.9	18.3	81 W	73*	18
6 10	22 37.10	+45 29.9	0.331	1.011	81.4	18.3	80 W	71*	19
6 15	23 7.79	+44 40.6	0.310	1.000	84.0	18.2	78 W	69*	19
6 20	23 41.82	+43 9.4	0.290	0.990	87.0	18.1	76 W	66*	21
6 22	23 56.30	+42 18.3	0.282	0.985	88.2	18.1	76 W	65*	22
6 24	0 11.23	+41 17.7	0.275	0.981	89.4	18.1	75 W	63*	23
6 26	0 26.53	+40 6.8	0.268	0.977	90.7	18.1	74 W	62*	24
6 28	0 42.14	+38 44.9	0.262	0.973	92.0	18.1	73 W	60*	25
6 30	0 57.97	+37 11.8	0.257	0.969	93.2	18.1	72 W	58*	27*
7 2	1 13.92	+35 27.4	0.252	0.966	94.5	18.1	71 W	56*	28*
7 4	1 29.91	+33 31.9	0.248	0.962	95.7	18.1	70 W	54*	30*
7 6	1 45.82	+31 26.0	0.245	0.958	96.8	18.1	69 W	52*	32*
7 8	2 1.57	+29 10.8	0.243	0.954	97.9	18.2	68 W	49*	34*
7 10	2 17.06	+26 47.7	0.242	0.951	98.9	18.2	68 W	47*	36*
7 12	2 32.21	+24 18.7	0.242	0.947	99.7	18.2	67 W	44*	38*
7 14	2 46.96	+21 45.6	0.243	0.944	100.5	18.2	66 W	42*	40*
7 16	3 1.26	+19 10.8	0.245	0.941	101.0	18.3	65 W	39*	42*
7 18	3 15.07	+16 36.4	0.248	0.938	101.4	18.3	65 W	37*	44*
7 20	3 28.37	+14 4.3	0.252	0.935	101.6	18.4	64 W	34*	46*
7 22	3 41.15	+11 36.5	0.257	0.932	101.7	18.4	64 W	32*	47*
7 24	3 53.41	+ 9 14.2	0.264	0.929	101.6	18.5	64 W	30*	49*
7 26	4 5.15	+ 6 58.8	0.271	0.927	101.4	18.5	63 W	28*	50*
7 28	4 16.41	+ 4 51.0	0.279	0.924	101.1	18.5	63 W	27*	51*
7 30	4 27.19	+ 2 51.2	0.288	0.922	100.7	18.6	63 W	25*	52*
8 4	4 52.26	− 1 31.7	0.312	0.917	99.2	18.7	63 W	22*	54*
8 9	5 14.98	− 5 5.1	0.340	0.913	97.3	18.8	63 W	20*	56*
8 14	5 35.76	− 7 55.0	0.370	0.910	95.3	18.8	63 W	18*	56*
8 19	5 54.95	−10 8.8	0.401	0.908	93.2	18.9	64 W	17*	57*
8 24	6 12.85	−11 53.1	0.432	0.907	91.0	19.0	64 W	17*	57*
8 29	6 29.72	−13 13.8	0.462	0.907	88.9	19.0	64 W	17*	57*
9 3	6 45.79	−14 15.4	0.492	0.908	86.8	19.1	64 W	18*	58*
9 8	7 1.25	−15 2.1	0.520	0.911	84.8	19.2	64 W	18*	58*
9 13	7 16.23	−15 37.0	0.547	0.915	82.9	19.2	64 W	19*	58*
9 18	7 30.83	−16 2.7	0.572	0.919	81.1	19.2	65 W	20*	58*
9 23	7 45.11	−16 20.8	0.594	0.925	79.5	19.3	65 W	21*	58*
9 28	7 59.16	−16 32.7	0.613	0.931	77.9	19.3	65 W	22*	58*
10 3	8 13.04	−16 39.6	0.630	0.939	76.5	19.3	66 W	23*	58*
10 8	8 26.81	−16 42.4	0.644	0.947	75.1	19.4	66 W	24*	58*
10 13	8 40.50	−16 41.7	0.655	0.955	73.9	19.4	67 W	25*	59*
10 18	8 54.14	−16 38.0	0.663	0.965	72.8	19.4	68 W	26*	59*
10 28	9 21.33	−16 21.3	0.670	0.985	70.9	19.4	69 W	27*	59*
11 7	9 48.63	−15 51.8	0.665	1.005	69.4	19.4	72 W	29*	60*
11 17	10 16.22	−15 6.9	0.649	1.027	68.1	19.3	74 W	30*	61*
11 22	10 30.16	−14 37.0	0.638	1.038	67.4	19.3	76 W	30	62*
11 27	10 44.22	−14 0.9	0.624	1.048	66.8	19.2	78 W	31	63*
12 2	10 58.43	−13 17.7	0.608	1.059	66.3	19.2	79 W	32	63*
12 7	11 12.82	−12 26.1	0.591	1.069	65.6	19.1	81 W	33	64*
12 12	11 27.39	−11 24.8	0.572	1.079	65.0	19.1	83 W	34	65*
12 17	11 42.15	−10 12.1	0.552	1.088	64.3	19.0	85 W	35	65*
12 22	11 57.09	− 8 46.1	0.531	1.097	63.6	18.9	87 W	36	65*
12 27	12 12.25	− 7 5.0	0.510	1.106	62.8	18.8	90 W	38	65*
1 1	12 27.62	− 5 6.8	0.489	1.114	61.9	18.7	92 W	40	65*
1 6	12 43.20	− 2 49.8	0.468	1.122	60.9	18.6	95 W	42	64*
1 11	12 58.96	− 0 12.0	0.448	1.129	59.8	18.5	97 W	45	62*
1 16	13 14.86	+ 2 48.1	0.429	1.136	58.7	18.3	99 W	48	60*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		61416 2000 QL_{12}							
	h m	° ′			°	m	°	°	°
12 23	12 52.82	− 3 40.9	1.828	1.871	30.8	20.1	77 W	41	52*
1 2	13 12.81	− 5 24.2	1.699	1.839	32.0	19.9	82 W	40	58*
1 12	13 32.72	− 7 0.2	1.571	1.808	32.9	19.7	87 W	38	64*
1 22	13 52.45	− 8 27.3	1.447	1.778	33.6	19.6	92 W	37	69*
2 1	14 11.78	− 9 43.4	1.328	1.750	33.9	19.3	97 W	35	73*
2 11	14 30.49	−10 46.9	1.214	1.724	34.0	19.1	103 W	34	75
2 21	14 48.27	−11 36.3	1.106	1.699	33.5	18.9	108 W	33	76
3 2	15 4.65	−12 10.2	1.005	1.677	32.6	18.6	114 W	33	76
3 12	15 19.14	−12 28.2	0.912	1.657	31.0	18.3	121 W	33	76
3 22	15 31.16	−12 30.6	0.828	1.639	28.7	18.0	128 W	32	77
4 1	15 40.05	−12 18.5	0.754	1.625	25.6	17.7	135 W	33	76
4 11	15 45.32	−11 54.9	0.692	1.613	21.5	17.4	144 W	33	76
4 21	15 46.67	−11 24.3	0.644	1.605	16.6	17.1	153 W	34	75
4 26	15 45.92	−11 8.3	0.625	1.602	13.9	16.9	158 W	34	75
5 1	15 44.33	−10 53.2	0.611	1.600	11.1	16.7	162 W	34	75
5 6	15 42.07	−10 40.0	0.600	1.599	8.4	16.6	167 W	34	75
5 11	15 39.33	−10 29.7	0.594	1.598	6.2	16.5	170 W	35	74
5 16	15 36.29	−10 23.2	0.592	1.599	5.5	16.4	171 W	35	74
5 21	15 33.21	−10 21.2	0.594	1.600	6.8	16.5	169 E	35	74
5 26	15 30.34	−10 24.5	0.601	1.602	9.2	16.6	165 E	35	74
5 31	15 27.90	−10 33.3	0.612	1.605	12.0	16.8	161 E	34	75
6 10	15 25.03	−11 7.6	0.646	1.613	17.4	17.1	152 E	34	75
6 20	15 25.49	−12 1.7	0.695	1.624	22.3	17.4	143 E	33	76
6 30	15 29.65	−13 11.1	0.756	1.639	26.2	17.8	135 E	32	77
7 10	15 37.35	−14 30.4	0.828	1.656	29.2	18.1	127 E	30	79
7 20	15 48.16	−15 54.3	0.910	1.676	31.4	18.4	121 E	29*	80
7 30	16 1.68	−17 18.2	1.001	1.698	32.9	18.6	115 E	27*	81
8 9	16 17.43	−18 38.2	1.099	1.723	33.8	18.9	109 E	26*	83
8 19	16 34.99	−19 51.1	1.205	1.749	34.2	19.1	104 E	24*	84
8 29	16 54.05	−20 54.6	1.316	1.777	34.2	19.4	99 E	23*	85
9 8	17 14.26	−21 46.7	1.434	1.807	33.8	19.6	94 E	22*	85*
9 18	17 35.36	−22 26.1	1.556	1.838	33.1	19.8	89 E	22*	82*
9 28	17 57.13	−22 52.1	1.682	1.870	32.2	20.0	84 E	21*	78*
10 8	18 19.32	−23 4.0	1.811	1.903	31.1	20.1	80 E	21*	73*
10 18	18 41.74	−23 1.8	1.942	1.936	29.8	20.3	75 E	21*	68*
10 28	19 4.25	−22 45.8	2.074	1.970	28.3	20.4	70 E	21*	63*
11 7	19 26.67	−22 16.5	2.207	2.005	26.7	20.5	65 E	22*	57*
11 17	19 48.90	−21 34.6	2.338	2.040	24.9	20.6	60 E	22*	51*
11 27	20 10.85	−20 41.1	2.468	2.074	23.1	20.7	55 E	22*	45*
12 7	20 32.42	−19 37.0	2.594	2.109	21.1	20.8	51 E	23*	39*
12 17	20 53.57	−18 23.5	2.715	2.144	19.1	20.9	45 E	22*	33*
12 27	21 14.26	−17 1.7	2.831	2.178	17.0	21.0	40 E	22*	28*
1 6	21 34.48	−15 33.0	2.940	2.212	14.9	21.0	35 E	20*	22*
1 16	21 54.23	−13 58.5	3.041	2.245	12.7	21.0	30 E	18*	17*
		136849 1998 CS_1							
12 23	12 52.93	− 3 18.3	0.476	0.993	75.0	18.6	77 W	42	52*
12 25	13 9.94	− 4 28.9	0.471	0.973	77.4	18.6	75 W	41	51*
12 27	13 27.30	− 5 39.3	0.468	0.953	79.7	18.6	72 W	39*	50*
12 29	13 44.91	− 6 48.4	0.468	0.933	82.0	18.7	70 W	38*	49*
12 31	14 2.63	− 7 55.5	0.470	0.913	84.2	18.7	67 W	37*	47*
1 2	14 20.34	− 8 59.7	0.474	0.893	86.2	18.8	65 W	36*	46*
1 7	15 3.82	−11 23.4	0.494	0.845	90.6	18.9	59 W	32*	43*
1 12	15 45.01	−13 19.3	0.528	0.799	93.4	19.0	54 W	29*	39*
1 17	16 23.14	−14 47.5	0.573	0.755	94.6	19.2	50 W	26*	37*
1 22	16 58.13	−15 52.0	0.629	0.715	93.9	19.2	46 W	24*	35*
1 27	17 30.34	−16 37.3	0.692	0.681	91.6	19.2	44 W	21*	33*
2 1	18 0.34	−17 7.2	0.762	0.655	87.7	19.2	42 W	19*	32*
2 6	18 28.67	−17 23.8	0.837	0.637	82.7	19.1	40 W	17*	31*
2 11	18 55.74	−17 28.1	0.915	0.629	76.9	19.1	38 W	16*	30*
2 16	19 21.75	−17 20.6	0.995	0.632	70.8	19.1	37 W	14*	30*
2 21	19 46.76	−17 1.8	1.073	0.646	64.8	19.1	36 W	13*	29*
2 26	20 10.71	−16 32.5	1.149	0.669	59.2	19.2	35 W	12*	29*
3 2	20 33.52	−15 53.9	1.221	0.700	54.2	19.2	35 W	10*	28*
3 7	20 55.13	−15 7.7	1.289	0.737	50.0	19.4	35 W	9*	28*
3 12	21 15.54	−14 15.7	1.353	0.779	46.5	19.5	35 W	9*	28*
3 17	21 34.77	−13 19.4	1.412	0.825	43.7	19.6	35 W	8*	29*
3 22	21 52.87	−12 20.3	1.466	0.872	41.4	19.8	35 W	8*	29*
3 27	22 9.92	−11 19.6	1.516	0.921	39.6	19.9	36 W	7*	30*
4 1	22 25.98	−10 18.3	1.561	0.971	38.3	20.0	37 W	7*	31*
4 6	22 41.14	− 9 17.2	1.601	1.021	37.2	20.2	38 W	7*	32*
4 11	22 55.48	− 8 17.0	1.637	1.071	36.4	20.3	39 W	7*	33*
4 21	23 21.97	− 6 20.9	1.695	1.169	35.4	20.5	42 W	8*	36*
5 1	23 45.91	− 4 33.1	1.736	1.263	35.0	20.7	46 W	9*	40*
5 11	0 7.64	− 2 55.3	1.760	1.354	34.8	20.9	50 W	10*	44*
5 21	0 27.43	− 1 29.1	1.768	1.440	34.9	21.1	55 W	13*	48*
5 31	0 45.39	− 0 15.4	1.761	1.522	35.0	21.2	60 W	16*	52*
6 10	1 1.59	+ 0 44.6	1.739	1.600	35.1	21.3	65 W	19*	56*
6 20	1 15.99	+ 1 29.9	1.703	1.673	35.0	21.3	71 W	24*	59*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		136849 1998 CS_1 *(continuation)*							
	h m	° ′			°	m	°	°	°
6 30	1 28.48	+ 1 59.3	1.656	1.742	34.7	21.3	77 W	29*	61*
7 10	1 38.84	+ 2 11.2	1.598	1.806	34.1	21.3	84 W	35*	62*
7 20	1 46.82	+ 2 4.3	1.533	1.867	33.0	21.3	92 W	40*	62
7 30	1 52.00	+ 1 36.5	1.462	1.924	31.3	21.2	100 W	44*	62
8 9	1 53.98	+ 0 46.5	1.391	1.976	28.9	21.1	110 W	46*	63
8 19	1 52.29	− 0 26.7	1.324	2.025	25.7	20.9	120 W	45	64
8 29	1 46.57	− 2 2.1	1.265	2.071	21.7	20.7	131 W	43	66
9 8	1 36.79	− 3 55.4	1.222	2.112	16.9	20.6	143 W	41	68
9 18	1 23.40	− 5 57.6	1.199	2.150	11.6	20.4	155 W	39	70
9 23	1 15.68	− 6 58.1	1.198	2.168	9.1	20.3	160 W	38	71
9 28	1 7.56	− 7 55.6	1.204	2.185	7.2	20.2	164 W	37	72
10 3	0 59.26	− 8 48.4	1.217	2.201	6.3	20.2	166 W	36	73
10 8	0 51.02	− 9 35.0	1.237	2.217	6.9	20.3	165 E	35	74
10 13	0 43.09	−10 14.3	1.265	2.231	8.6	20.4	161 E	35	74
10 18	0 35.66	−10 45.6	1.300	2.245	10.7	20.6	155 E	34	75
10 23	0 28.92	−11 8.6	1.342	2.257	12.9	20.8	150 E	34	75
10 28	0 23.01	−11 23.2	1.390	2.269	14.9	20.9	144 E	34	75
11 2	0 17.98	−11 30.1	1.443	2.280	16.9	21.1	138 E	33	76
11 7	0 13.89	−11 29.7	1.501	2.291	18.6	21.2	133 E	34	75
11 12	0 10.73	−11 22.8	1.562	2.300	20.0	21.4	127 E	34	75
		119147 2001 PF_{47}							
12 23	12 53.12	−20 31.1	2.205	2.100	26.3	20.0	71 W	24	60*
1 2	13 4.46	−23 41.0	2.121	2.131	26.7	20.0	77 W	21	68*
1 12	13 14.16	−26 48.4	2.035	2.162	26.9	19.9	84 W	18	77*
1 22	13 21.86	−29 52.8	1.948	2.194	26.7	19.9	91 W	15	84*
1 27	13 24.80	−31 23.4	1.905	2.209	26.4	19.8	94 W	14	85
2 1	13 27.06	−32 52.5	1.863	2.225	26.0	19.8	98 W	12	83
2 6	13 28.56	−34 19.6	1.822	2.240	25.5	19.7	102 W	11	82
2 11	13 29.24	−35 44.4	1.782	2.255	24.9	19.7	105 W	9	80
2 16	13 29.03	−37 6.2	1.744	2.270	24.2	19.6	109 W	8	79
2 21	13 27.87	−38 24.2	1.708	2.285	23.4	19.6	113 W	7	78
2 26	13 25.71	−39 37.4	1.675	2.300	22.5	19.5	117 W	5	76
3 2	13 22.52	−40 44.7	1.644	2.315	21.6	19.5	121 W	4	75
3 7	13 18.32	−41 45.0	1.618	2.330	20.5	19.4	125 W	3	74
3 12	13 13.15	−42 37.0	1.594	2.345	19.4	19.3	128 W	2	73
3 17	13 7.10	−43 19.6	1.575	2.359	18.3	19.3	132 W	2	73
3 22	13 0.31	−43 51.7	1.561	2.373	17.2	19.3	135 W	1	72
3 27	12 52.98	−44 12.4	1.551	2.387	16.3	19.2	138 W	1	72
4 1	12 45.33	−44 21.3	1.547	2.401	15.5	19.2	140 W	1	72
4 6	12 37.65	−44 18.6	1.548	2.415	14.8	19.2	142 E	1	72
4 11	12 30.18	−44 4.8	1.555	2.429	14.5	19.2	143 E	1	72
4 16	12 23.15	−43 40.9	1.566	2.442	14.4	19.2	143 E	1	72
4 21	12 16.78	−43 8.3	1.584	2.456	14.6	19.3	142 E	2	73
4 26	12 11.23	−42 28.7	1.607	2.469	15.0	19.3	141 E	3	74
5 1	12 6.62	−41 43.8	1.634	2.482	15.6	19.4	139 E	3	74
5 6	12 3.00	−40 55.6	1.667	2.494	16.3	19.5	136 E	4	75
5 11	12 0.38	−40 5.6	1.705	2.507	17.1	19.6	133 E	5	76
5 16	11 58.74	−39 15.4	1.746	2.519	17.9	19.6	130 E	6	77
5 21	11 58.06	−38 26.3	1.792	2.532	18.7	19.7	127 E	7*	78
5 26	11 58.28	−37 39.1	1.841	2.544	19.4	19.8	123 E	7*	78
5 31	11 59.34	−36 54.9	1.894	2.555	20.1	19.9	120 E	7*	79
6 5	12 1.17	−36 14.2	1.949	2.567	20.7	20.0	116 E	7*	80
6 10	12 3.70	−35 37.4	2.007	2.578	21.3	20.1	113 E	7*	80
6 15	12 6.87	−35 4.6	2.067	2.590	21.7	20.2	110 E	6*	81
6 20	12 10.62	−34 36.1	2.129	2.601	22.1	20.3	106 E	5*	81
6 30	12 19.67	−33 51.6	2.257	2.622	22.5	20.4	99 E	3*	82
7 10	12 30.44	−33 23.2	2.389	2.643	22.6	20.6	93 E	1*	80*
7 20	12 42.65	−33 9.4	2.523	2.662	22.4	20.7	87 E	—	75*
7 30	12 56.08	−33 8.5	2.657	2.681	21.9	20.8	80 E	—	69*
8 9	13 10.52	−33 18.4	2.789	2.699	21.2	20.9	74 E	—	63*
8 19	13 25.84	−33 37.1	2.918	2.716	20.3	21.0	69 E	—	57*
8 29	13 41.97	−34 2.9	3.042	2.732	19.2	21.1	63 E	—	51*
9 8	13 58.78	−34 33.9	3.160	2.747	17.9	21.1	57 E	—	46*
9 18	14 16.24	−35 8.3	3.271	2.761	16.6	21.2	52 E	—	40*
9 28	14 34.28	−35 44.8	3.374	2.774	15.1	21.2	46 E	—	35*
10 8	14 52.85	−36 21.8	3.467	2.787	13.5	21.2	41 E	—	30*
10 18	15 11.91	−36 57.9	3.549	2.798	11.9	21.2	35 E	—	26*
10 28	15 31.38	−37 32.0	3.620	2.809	10.3	21.2	30 E	—	21*
11 7	15 51.21	−38 2.9	3.678	2.818	8.8	21.2	26 E	—	16*
11 17	16 11.33	−38 29.8	3.723	2.827	7.4	21.1	22 E	—	11*
11 27	16 31.65	−38 51.8	3.755	2.834	6.3	21.1	18 E	—	7*
12 7	16 52.07	−39 8.3	3.772	2.841	5.7	21.1	17 W	—	3*
12 17	17 12.50	−39 19.0	3.774	2.847	5.8	21.1	17 W	—	7*
12 27	17 32.81	−39 23.6	3.761	2.852	6.6	21.1	19 W	—	11*
1 6	17 52.88	−39 22.2	3.733	2.855	7.8	21.2	23 W	—	16*
1 16	18 12.61	−39 15.0	3.691	2.858	9.3	21.2	28 W	—	21*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 23	12 53.16	− 4 14.4	2.201	2.194	25.9	21.3	77 W	41	52*
1 2	13 4.36	− 5 17.2	2.067	2.192	26.5	21.2	84 W	40	59*
1 12	13 14.12	− 6 9.2	1.929	2.188	26.7	21.0	92 W	39	66*
1 22	13 22.12	− 6 48.7	1.790	2.182	26.4	20.9	100 W	38	70*
2 1	13 27.92	− 7 13.4	1.652	2.173	25.5	20.6	108 W	38	71
2 11	13 31.05	− 7 21.0	1.519	2.162	23.9	20.4	118 W	38	71
2 21	13 31.00	− 7 9.1	1.394	2.148	21.3	20.1	128 W	38	71
3 2	13 27.28	− 6 35.2	1.283	2.132	17.8	19.8	139 W	38	71
3 12	13 19.68	− 5 38.6	1.188	2.113	13.2	19.5	151 W	39	70
3 22	13 8.42	− 4 21.0	1.116	2.092	7.6	19.1	164 W	41	68
3 27	13 1.67	− 3 36.0	1.089	2.080	4.5	18.9	171 W	41	68
4 1	12 54.41	− 2 48.5	1.070	2.068	1.7	18.6	176 W	42	67
4 6	12 46.86	− 2 0.1	1.057	2.055	2.7	18.7	174 E	43	66
4 11	12 39.28	− 1 12.4	1.051	2.042	5.9	18.8	168 E	44	65
4 16	12 31.90	− 0 26.9	1.052	2.028	9.2	19.0	161 E	45	64
4 21	12 24.95	+ 0 14.7	1.059	2.013	12.4	19.1	154 E	45	64
4 26	12 18.66	+ 0 51.3	1.073	1.998	15.5	19.2	148 E	46	63
5 1	12 13.19	+ 1 21.7	1.091	1.982	18.4	19.3	142 E	46	63
5 11	12 5.09	+ 2 2.5	1.141	1.949	23.5	19.5	130 E	47	62
5 21	12 1.01	+ 2 16.1	1.203	1.912	27.5	19.7	119 E	47	62
5 31	12 0.87	+ 2 4.0	1.272	1.874	30.6	19.9	110 E	46*	62
6 10	12 4.29	+ 1 29.3	1.343	1.833	32.9	20.0	101 E	42*	63
6 20	12 10.82	+ 0 35.3	1.414	1.789	34.5	20.1	93 E	37*	63
6 30	12 20.05	− 0 35.4	1.481	1.744	35.6	20.2	86 E	32*	65
7 10	12 31.64	− 2 0.3	1.542	1.696	36.2	20.3	80 E	28*	65*
7 20	12 45.33	− 3 37.1	1.596	1.645	36.5	20.3	74 E	24*	64*
7 30	13 0.98	− 5 24.3	1.642	1.593	36.5	20.3	69 E	21*	61*
8 9	13 18.48	− 7 19.9	1.678	1.538	36.4	20.2	64 E	18*	57*
8 19	13 37.85	− 9 22.1	1.704	1.482	36.2	20.2	60 E	16*	53*
8 29	13 59.13	−11 29.2	1.720	1.425	35.9	20.1	56 E	14*	50*
9 8	14 22.45	−13 38.6	1.726	1.366	35.7	20.0	52 E	13*	46*
9 18	14 47.97	−15 47.6	1.722	1.307	35.5	19.9	49 E	12*	43*
9 28	15 15.93	−17 52.7	1.709	1.249	35.5	19.8	46 E	11*	40*
10 8	15 46.54	−19 48.9	1.688	1.191	35.6	19.7	44 E	11*	38*
10 18	16 20.04	−21 30.8	1.659	1.136	36.0	19.5	42 E	11*	36*
10 23	16 37.92	−22 14.1	1.642	1.110	36.3	19.5	41 E	11*	35*
10 28	16 56.57	−22 51.0	1.624	1.085	36.6	19.4	41 E	11*	34*
11 2	17 15.98	−23 20.5	1.605	1.062	37.1	19.4	40 E	12*	33*
11 7	17 36.13	−23 41.4	1.585	1.040	37.6	19.3	40 E	12*	33*
11 12	17 56.99	−23 52.7	1.565	1.020	38.2	19.2	40 E	13*	32*
11 17	18 18.51	−23 53.3	1.544	1.002	38.8	19.2	39 E	13*	32*
11 22	18 40.62	−23 42.2	1.524	0.986	39.5	19.2	39 E	14*	31*
11 27	19 3.21	−23 18.6	1.504	0.973	40.2	19.1	40 E	15*	31*
12 2	19 26.20	−22 41.9	1.485	0.963	41.0	19.1	40 E	16*	31*
12 7	19 49.45	−21 51.8	1.467	0.956	41.7	19.1	40 E	17*	31*
12 12	20 12.87	−20 48.2	1.450	0.953	42.4	19.0	41 E	19*	30*
12 17	20 36.34	−19 31.4	1.436	0.952	43.0	19.0	41 E	20*	30*
12 22	20 59.75	−18 2.2	1.425	0.954	43.5	19.0	42 E	21*	30*
12 27	21 22.99	−16 21.3	1.416	0.960	43.9	19.1	43 E	23*	29*
1 1	21 45.99	−14 30.3	1.410	0.969	44.2	19.1	43 E	25*	29*
1 6	22 8.67	−12 30.5	1.408	0.981	44.3	19.1	44 E	26*	29*
1 11	22 31.01	−10 23.7	1.410	0.995	44.2	19.1	45 E	28*	28*
1 16	22 52.95	− 8 11.7	1.415	1.012	44.0	19.2	46 E	30*	28*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 54.34	− 7 40.8	2.878	2.791	19.9	20.4	75 W	37	54*
1 2	13 3.80	− 8 37.6	2.719	2.773	20.6	20.3	83 W	36	62*
1 12	13 12.04	− 9 26.0	2.558	2.753	20.9	20.2	91 W	36	69*
1 22	13 18.83	−10 4.4	2.397	2.732	20.8	20.0	99 W	35	74*
2 1	13 23.84	−10 31.1	2.239	2.711	20.2	19.8	108 W	34	75
2 11	13 26.75	−10 44.3	2.088	2.688	19.0	19.6	117 W	34	75
2 21	13 27.29	−10 42.3	1.946	2.665	17.1	19.4	127 W	34	75
3 2	13 25.20	−10 23.2	1.819	2.641	14.5	19.1	138 W	35	74
3 12	13 20.46	− 9 46.2	1.711	2.615	11.2	18.8	149 W	35	74
3 22	13 13.30	− 8 52.1	1.626	2.589	7.1	18.5	161 W	36	73
4 1	13 4.31	− 7 43.8	1.567	2.563	2.5	18.2	174 W	37	72
4 6	12 59.42	− 7 6.2	1.548	2.549	0.3	17.9	179 E	38	71
4 11	12 54.46	− 6 27.4	1.536	2.535	2.5	18.1	174 E	39	70
4 16	12 49.56	− 5 48.6	1.532	2.521	5.0	18.3	167 E	39	70
4 21	12 44.87	− 5 10.6	1.534	2.506	7.4	18.4	161 E	40	69
4 26	12 40.52	− 4 34.7	1.542	2.492	9.8	18.5	155 E	40	69
5 1	12 36.64	− 4 1.6	1.557	2.477	12.0	18.6	149 E	41	68
5 11	12 30.63	− 3 7.1	1.603	2.447	16.1	18.7	138 E	42	67
5 21	12 27.30	− 2 30.8	1.666	2.416	19.5	18.9	127 E	42	67
5 31	12 26.81	− 2 14.2	1.743	2.384	22.2	19.1	117 E	43*	66
6 10	12 29.07	− 2 16.8	1.827	2.352	24.2	19.2	108 E	40*	66
6 20	12 33.86	− 2 37.0	1.917	2.319	25.6	19.3	100 E	37*	67
6 30	12 40.95	− 3 12.8	2.008	2.286	26.4	19.4	92 E	33*	67
7 10	12 50.05	− 4 1.9	2.097	2.252	26.7	19.5	85 E	29*	68*

7079 Baghdad *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 20	13 0.95	− 5 2.4	2.184	2.218	26.7	19.5	79 E	25*	67*
7 30	13 13.46	− 6 12.2	2.267	2.183	26.3	19.6	72 E	22*	63*
8 9	13 27.42	− 7 29.4	2.343	2.148	25.6	19.6	66 E	19*	59*
8 19	13 42.73	− 8 52.1	2.413	2.113	24.7	19.6	61 E	17*	54*
8 29	13 59.32	−10 18.7	2.476	2.078	23.6	19.6	56 E	15*	49*
9 8	14 17.14	−11 47.2	2.531	2.043	22.4	19.5	50 E	14*	44*
9 18	14 36.15	−13 15.8	2.578	2.008	21.0	19.5	46 E	12*	39*
9 28	14 56.35	−14 42.6	2.618	1.973	19.4	19.4	41 E	11*	35*
10 8	15 17.72	−16 5.6	2.650	1.939	17.8	19.4	36 E	10*	30*
10 18	15 40.26	−17 22.6	2.674	1.906	16.1	19.3	32 E	9*	26*
10 28	16 3.94	−18 31.5	2.692	1.873	14.4	19.2	28 E	8*	21*
11 7	16 28.73	−19 30.0	2.703	1.841	12.6	19.1	24 E	7*	17*
11 17	16 54.58	−20 15.8	2.707	1.810	10.8	19.0	20 E	6*	12*
11 27	17 21.40	−20 46.9	2.707	1.781	8.9	18.9	16 E	5*	8*
12 7	17 49.04	−21 1.2	2.701	1.753	7.1	18.8	13 E	3*	4*
12 17	18 17.37	−20 57.3	2.691	1.727	5.2	18.7	9 E	2*	1*
12 27	18 46.21	−20 33.9	2.678	1.703	3.4	18.5	6 E	—	—
1 6	19 15.35	−19 50.4	2.662	1.682	1.9	18.4	3 E	—	—
1 16	19 44.61	−18 47.1	2.645	1.663	1.6	18.3	3 W	—	—

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	12 54.55	−25 40.6	2.302	2.155	25.2	20.5	69 W	19	61*
1 2	13 11.82	−28 1.2	2.099	2.061	27.3	20.3	74 W	17	67*
1 12	13 30.28	−30 27.7	1.894	1.964	29.5	20.0	79 W	15	73*
1 22	13 50.40	−33 0.5	1.691	1.864	31.7	19.7	84 W	12	78*
1 27	14 1.30	−34 19.2	1.590	1.812	32.8	19.6	86 W	11	79*
2 1	14 12.92	−35 39.3	1.491	1.760	34.0	19.4	88 W	9	79*
2 6	14 25.43	−37 0.6	1.392	1.706	35.3	19.2	90 W	8	79*
2 11	14 39.06	−38 22.7	1.295	1.652	36.7	19.0	92 W	7	78*
2 16	14 54.09	−39 45.2	1.201	1.597	38.1	18.8	93 W	5	76
2 21	15 10.88	−41 6.9	1.108	1.541	39.8	18.6	94 W	4	75
2 26	15 29.90	−42 26.1	1.018	1.484	41.6	18.4	95 W	3	74
3 2	15 51.75	−43 39.6	0.931	1.426	43.7	18.2	96 W	1	72
3 4	16 1.45	−44 6.4	0.897	1.403	44.7	18.1	96 W	1	72
3 6	16 11.78	−44 31.0	0.864	1.379	45.7	18.0	96 W	—	71
3 8	16 22.79	−44 53.0	0.832	1.356	46.8	17.9	96 W	—	71
3 10	16 34.54	−45 11.7	0.800	1.332	47.9	17.8	95 W	—	71
3 12	16 47.08	−45 26.3	0.769	1.308	49.2	17.8	95 W	—	71
3 14	17 0.47	−45 35.9	0.739	1.284	50.5	17.7	94 W	—	70
3 16	17 14.74	−45 39.3	0.710	1.260	52.0	17.6	94 W	—	70*
3 18	17 29.92	−45 35.3	0.682	1.236	53.6	17.5	93 W	—	70*
3 20	17 46.01	−45 22.4	0.655	1.211	55.3	17.4	92 W	—	70*
3 22	18 2.98	−44 59.0	0.629	1.187	57.1	17.3	91 W	—	70*
3 24	18 20.79	−44 23.4	0.605	1.162	59.1	17.3	90 W	—	71*
3 26	18 39.33	−43 33.7	0.582	1.138	61.2	17.2	88 W	—	71*
3 28	18 58.46	−42 28.4	0.561	1.113	63.5	17.1	86 W	1*	70*
3 30	19 18.03	−41 5.9	0.542	1.089	65.9	17.1	84 W	1*	70*
4 1	19 37.83	−39 25.0	0.525	1.064	68.5	17.0	82 W	2*	70*
4 3	19 57.66	−37 25.3	0.511	1.040	71.2	17.0	80 W	3*	69*
4 5	20 17.30	−35 6.8	0.499	1.015	74.0	17.0	77 W	4*	68*
4 7	20 36.57	−32 30.5	0.490	0.991	76.9	17.0	75 W	5*	66*
4 9	20 55.29	−29 38.4	0.484	0.967	79.8	17.0	72 W	6*	64*
4 11	21 13.35	−26 33.0	0.481	0.943	82.7	17.1	69 W	7*	62*
4 13	21 30.66	−23 17.6	0.481	0.919	85.5	17.1	66 W	8*	60*
4 15	21 47.16	−19 55.9	0.484	0.895	88.1	17.2	63 W	10*	57*
4 17	22 2.85	−16 31.8	0.491	0.872	90.5	17.3	60 W	11*	54*
4 19	22 17.74	−13 8.7	0.500	0.849	92.6	17.3	58 W	12*	52*
4 21	22 31.87	− 9 49.8	0.513	0.827	94.3	17.4	55 W	13*	49*
4 23	22 45.28	− 6 37.7	0.529	0.805	95.7	17.5	53 W	14*	46*
4 25	22 58.05	− 3 34.4	0.547	0.784	96.6	17.5	51 W	15*	44*
4 27	23 10.23	− 0 41.0	0.568	0.763	97.2	17.6	49 W	16*	42*
4 29	23 21.90	+ 2 1.7	0.591	0.744	97.3	17.6	47 W	17*	39*
5 1	23 33.13	+ 4 33.3	0.617	0.725	97.0	17.6	46 W	17*	37*
5 6	23 59.69	+10 5.2	0.689	0.684	94.6	17.6	43 W	19*	33*
5 11	0 24.82	+14 35.2	0.771	0.652	90.0	17.6	40 W	20*	29*
5 16	0 49.21	+18 12.2	0.859	0.633	83.9	17.5	38 W	20*	27*
5 21	1 13.23	+21 4.7	0.951	0.626	76.8	17.5	37 W	20*	24*
5 26	1 36.98	+23 19.9	1.044	0.633	69.4	17.4	36 W	20*	23*
5 31	2 0.36	+25 4.0	1.135	0.654	62.4	17.5	35 W	20*	21*
6 5	2 23.14	+26 21.9	1.222	0.686	56.1	17.6	34 W	20*	20*
6 10	2 45.11	+27 18.2	1.305	0.728	50.7	17.7	34 W	20*	19*
6 15	3 6.11	+27 56.7	1.382	0.777	46.3	17.8	34 W	20*	19*
6 20	3 26.02	+28 20.7	1.454	0.830	42.8	18.0	34 W	20*	19*
6 25	3 44.81	+28 32.8	1.520	0.887	40.1	18.1	34 W	21*	19*
6 30	4 2.48	+28 35.2	1.580	0.947	37.9	18.3	35 W	21*	19*
7 5	4 19.05	+28 29.5	1.634	1.007	36.3	18.5	36 W	22*	20*
7 10	4 34.58	+28 17.4	1.684	1.068	35.1	18.6	37 W	24*	21*
7 15	4 49.12	+28 0.0	1.727	1.130	34.2	18.8	39 W	25*	21*
7 20	5 2.73	+27 38.1	1.766	1.191	33.6	18.9	40 W	27*	22*

3360 Syrinx *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 30	5 27.31	+26 43.8	1.827	1.312	32.8	19.2	44 W	31*	25*
8 9	5 48.67	+25 39.1	1.869	1.430	32.4	19.4	49 W	36*	27*
8 19	6 7.06	+24 27.0	1.892	1.545	32.3	19.6	55 W	41*	30*
8 29	6 22.60	+23 9.6	1.897	1.656	32.1	19.7	61 W	47*	33*
9 8	6 35.33	+21 48.5	1.887	1.763	31.8	19.9	67 W	52*	36*
9 18	6 45.21	+20 25.0	1.861	1.867	31.3	19.9	75 W	57*	39*
9 28	6 52.07	+19 0.0	1.824	1.967	30.3	20.0	83 W	61*	42*
10 8	6 55.72	+17 34.4	1.779	2.064	28.9	20.0	92 W	62*	45*
10 18	6 55.93	+16 9.1	1.730	2.158	26.9	20.0	101 W	61	48*
10 28	6 52.46	+14 45.2	1.683	2.249	24.2	19.9	112 W	60	49
11 7	6 45.26	+13 24.2	1.643	2.336	20.8	19.8	123 W	58	51
11 17	6 34.53	+12 8.0	1.617	2.421	16.8	19.8	135 W	57	52
11 27	6 20.92	+10 59.2	1.614	2.503	12.2	19.7	147 W	56	53
12 2	6 13.39	+10 28.5	1.622	2.542	10.0	19.6	153 W	55	54
12 7	6 5.58	+10 0.8	1.638	2.582	7.9	19.6	159 W	55	54
12 12	5 57.70	+ 9 36.4	1.662	2.620	6.2	19.6	163 W	55	54
12 17	5 49.93	+ 9 15.6	1.694	2.658	5.3	19.6	166 W	54	55
12 22	5 42.46	+ 8 58.6	1.734	2.696	5.5	19.7	165 E	54	55
12 27	5 35.45	+ 8 45.5	1.782	2.733	6.6	19.8	161 E	54	55
1 1	5 29.01	+ 8 36.1	1.838	2.769	8.1	20.0	157 E	54	55
1 6	5 23.26	+ 8 30.4	1.902	2.804	9.7	20.2	151 E	54	55
1 11	5 18.24	+ 8 28.0	1.972	2.839	11.2	20.3	146 E	53	56
1 16	5 13.99	+ 8 28.8	2.049	2.874	12.7	20.5	140 E	53	56

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12 23	12 54.60	− 7 31.2	3.251	3.146	17.6	21.1	75 W	37	54*
1 2	13 2.16	− 8 34.7	3.072	3.112	18.3	20.9	83 W	36	62*
1 12	13 8.53	− 9 32.2	2.890	3.078	18.6	20.8	92 W	35	69*
1 22	13 13.45	−10 22.9	2.709	3.042	18.6	20.6	100 W	35	74*
2 1	13 16.62	−11 5.3	2.531	3.006	18.0	20.4	109 W	34	75
2 11	13 17.76	−11 38.1	2.361	2.968	16.9	20.2	119 W	33	76
2 21	13 16.59	−11 59.8	2.202	2.930	15.2	20.0	129 W	33	76
3 2	13 12.92	−12 8.6	2.060	2.890	12.7	19.7	140 W	33	76
3 12	13 6.76	−12 3.2	1.938	2.850	9.6	19.4	151 W	33	76
3 22	12 58.37	−11 43.3	1.841	2.808	6.0	19.1	163 W	33	76
4 1	12 48.36	−11 9.9	1.771	2.766	2.5	18.8	173 W	34	75
4 6	12 43.03	−10 49.2	1.747	2.744	2.2	18.8	174 E	34	75
4 11	12 37.67	−10 26.7	1.730	2.722	3.8	18.8	170 E	35	74
4 16	12 32.40	−10 3.0	1.721	2.700	5.9	18.9	164 E	35	74
4 21	12 27.36	− 9 38.8	1.719	2.678	8.0	19.0	158 E	35	74
4 26	12 22.68	− 9 15.2	1.723	2.655	10.2	19.1	152 E	36	73
5 1	12 18.48	− 8 52.8	1.733	2.633	12.2	19.1	146 E	36	73
5 11	12 11.83	− 8 14.7	1.770	2.586	16.0	19.3	135 E	37	72
5 21	12 7.84	− 7 48.7	1.825	2.539	19.2	19.4	125 E	37	72
5 31	12 6.68	− 7 37.7	1.891	2.491	21.7	19.5	115 E	37*	72
6 10	12 8.29	− 7 42.4	1.966	2.443	23.6	19.6	106 E	34*	72
6 20	12 12.47	− 8 2.7	2.044	2.393	24.9	19.7	97 E	30*	72
6 30	12 19.00	− 8 37.6	2.122	2.343	25.7	19.8	89 E	25*	73
7 10	12 27.63	− 9 26.0	2.197	2.292	26.1	19.8	82 E	21*	72*
7 20	12 38.16	−10 26.3	2.268	2.241	26.0	19.8	75 E	17*	68*
7 30	12 50.45	−11 37.1	2.333	2.189	25.7	19.8	69 E	14*	63*
8 9	13 4.35	−12 56.8	2.391	2.137	25.1	19.8	63 E	11*	57*
8 19	13 19.80	−14 23.8	2.441	2.085	24.3	19.8	58 E	9*	52*
8 29	13 36.78	−15 56.5	2.482	2.033	23.2	19.7	53 E	7*	46*
9 8	13 55.25	−17 33.1	2.514	1.981	22.1	19.7	48 E	6*	41*
9 18	14 15.25	−19 11.4	2.538	1.929	20.8	19.6	43 E	5*	37*
9 28	14 36.84	−20 49.2	2.554	1.878	19.4	19.5	39 E	3*	32*
10 8	15 0.04	−22 23.9	2.563	1.828	18.0	19.4	34 E	3*	28*
10 18	15 24.93	−23 52.6	2.564	1.779	16.5	19.3	31 E	2*	24*
10 28	15 51.54	−25 11.9	2.559	1.732	15.0	19.2	27 E	1*	21*
11 7	16 19.84	−26 18.0	2.550	1.686	13.5	19.0	23 E	1*	17*
11 17	16 49.80	−27 7.2	2.536	1.643	11.9	18.9	20 E	—	14*
11 27	17 21.26	−27 35.6	2.520	1.603	10.4	18.8	17 E	—	11*
12 7	17 53.96	−27 39.4	2.502	1.566	8.9	18.7	14 E	—	8*
12 17	18 27.60	−27 15.8	2.485	1.534	7.4	18.5	12 E	—	5*
12 27	19 1.77	−26 22.8	2.468	1.505	6.0	18.4	9 E	—	3*
1 6	19 36.06	−24 59.9	2.453	1.482	4.6	18.3	7 E	—	1*
1 16	20 10.08	−23 8.0	2.442	1.464	3.3	18.2	5 E	—	—

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12 23	12 55.70	−25 27.8	1.334	1.341	43.2	20.5	69 W	20	60*
12 28	13 10.69	−27 19.6	1.313	1.342	43.5	20.5	70 W	18	62*
1 2	13 25.81	−29 5.5	1.293	1.345	43.7	20.5	71 W	16	64*
1 7	13 41.05	−30 44.9	1.272	1.348	44.0	20.5	72 W	14	66*
1 12	13 56.39	−32 17.3	1.252	1.352	44.2	20.4	73 W	13	67*
1 17	14 11.80	−33 42.3	1.231	1.357	44.3	20.4	75 W	11	69*
1 22	14 27.23	−34 59.5	1.210	1.363	44.5	20.4	76 W	10	70*
1 27	14 42.62	−36 8.7	1.189	1.370	44.6	20.4	77 W	9	71*
2 1	14 57.91	−37 9.5	1.167	1.377	44.6	20.3	79 W	8	72*
2 6	15 13.02	−38 1.9	1.144	1.385	44.6	20.3	81 W	7	73*

153692 2001 US_{17} *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 11	15 27.87	−38 45.9	1.121	1.393	44.6	20.3	82 W	6	74*
2 16	15 42.38	−39 21.4	1.097	1.402	44.5	20.2	84 W	6	74*
2 21	15 56.45	−39 48.7	1.072	1.412	44.3	20.2	86 W	5	75*
2 26	16 9.96	−40 7.9	1.047	1.422	44.1	20.2	89 W	5	75*
3 2	16 22.81	−40 19.1	1.020	1.433	43.7	20.1	91 W	5	75*
3 7	16 34.90	−40 22.7	0.993	1.444	43.3	20.1	93 W	5	76*
3 12	16 46.13	−40 18.7	0.965	1.456	42.7	20.0	96 W	5	76
3 17	16 56.39	−40 7.7	0.937	1.468	42.1	19.9	99 W	5	76
3 22	17 5.57	−39 49.7	0.908	1.480	41.2	19.9	102 W	5	76
3 27	17 13.55	−39 24.9	0.879	1.493	40.2	19.8	105 W	6	77
4 1	17 20.24	−38 53.2	0.851	1.506	38.9	19.7	109 W	6	77
4 6	17 25.54	−38 14.7	0.822	1.519	37.5	19.6	113 W	7	78
4 11	17 29.38	−37 29.0	0.794	1.532	35.8	19.5	117 W	8	79
4 16	17 31.68	−36 35.9	0.767	1.546	33.8	19.4	121 W	8	79
4 21	17 32.37	−35 35.0	0.742	1.560	31.5	19.3	126 W	9	80
5 1	17 28.90	−33 7.0	0.697	1.587	25.9	19.0	137 W	12	83
5 11	17 19.53	−30 2.2	0.665	1.615	19.0	18.7	149 W	15	86
5 21	17 5.83	−26 24.2	0.651	1.643	11.0	18.4	162 W	19	90
5 26	16 58.12	−24 27.0	0.652	1.657	6.8	18.3	169 W	21	88
5 31	16 50.35	−22 28.2	0.658	1.671	2.6	18.1	176 W	23	86
6 5	16 42.88	−20 31.2	0.671	1.685	1.8	18.1	177 E	24	85
6 10	16 36.00	−18 39.4	0.689	1.698	5.8	18.4	170 E	26	83
6 15	16 29.94	−16 55.6	0.713	1.712	9.6	18.7	164 E	28	81
6 20	16 24.87	−15 21.9	0.743	1.725	13.1	18.9	157 E	30	79
6 25	16 20.89	−13 59.6	0.777	1.738	16.3	19.1	151 E	31	78
6 30	16 18.05	−12 49.2	0.816	1.752	19.2	19.3	146 E	32	77
7 10	16 15.66	−11 2.4	0.905	1.777	23.8	19.7	135 E	34	75
7 20	16 17.27	− 9 55.4	1.007	1.802	27.2	20.1	126 E	35	74
7 30	16 22.32	− 9 19.5	1.118	1.825	29.5	20.4	118 E	36*	73
8 4	16 25.96	− 9 10.4	1.176	1.837	30.3	20.6	114 E	36*	73
8 9	16 30.23	− 9 5.9	1.235	1.848	31.0	20.7	110 E	35*	73
8 14	16 35.09	− 9 5.2	1.295	1.859	31.5	20.9	107 E	35*	73
8 19	16 40.47	− 9 7.4	1.357	1.870	31.8	21.0	103 E	35*	73
8 24	16 46.35	− 9 11.9	1.419	1.880	32.0	21.1	100 E	35*	73
8 29	16 52.67	− 9 18.0	1.481	1.890	32.0	21.2	97 E	34*	73
9 3	16 59.38	− 9 25.2	1.544	1.900	32.0	21.3	94 E	34*	73*
9 8	17 6.45	− 9 32.9	1.607	1.910	31.8	21.4	91 E	34*	73*
9 13	17 13.86	− 9 40.7	1.670	1.919	31.6	21.5	88 E	34*	72*

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12 23	12 55.76	− 9 9.6	2.086	2.050	27.5	20.6	74 W	36	54*
1 2	13 5.36	−11 42.8	2.009	2.098	27.6	20.6	81 W	33	63*
1 12	13 12.85	−14 9.7	1.927	2.145	27.3	20.5	89 W	31	72*
1 22	13 17.89	−16 29.6	1.844	2.192	26.5	20.4	97 W	29	80*
2 1	13 20.04	−18 41.1	1.763	2.238	25.1	20.3	106 W	26	83
2 11	13 18.93	−20 41.8	1.687	2.284	23.1	20.2	115 W	24	85
2 21	13 14.27	−22 27.9	1.620	2.330	20.4	20.1	125 W	23	86
3 2	13 6.04	−23 54.0	1.568	2.374	17.2	20.0	135 W	21	88
3 7	13 0.71	−24 27.7	1.549	2.396	15.4	19.9	140 W	21	88
3 12	12 54.70	−24 54.3	1.536	2.418	13.7	19.8	145 W	20	89
3 17	12 48.14	−25 13.4	1.528	2.439	11.9	19.8	150 W	20	89
3 22	12 41.21	−25 24.6	1.527	2.460	10.3	19.7	154 W	20	89
3 27	12 34.10	−25 28.1	1.532	2.481	9.0	19.7	157 W	20	89
4 1	12 27.03	−25 24.2	1.544	2.502	8.3	19.7	159 E	20	89
4 6	12 20.19	−25 13.8	1.563	2.523	8.2	19.8	159 E	20	89
4 11	12 13.76	−24 57.9	1.589	2.543	8.8	19.8	157 E	20	89
4 16	12 7.88	−24 37.7	1.622	2.563	9.8	19.9	154 E	20	89
4 21	12 2.68	−24 14.4	1.661	2.583	11.0	20.1	150 E	21	88
4 26	11 58.23	−23 49.4	1.706	2.603	12.4	20.2	146 E	21	88
5 1	11 54.59	−23 23.9	1.756	2.622	13.8	20.3	142 E	22	87
5 6	11 51.77	−22 58.9	1.812	2.642	15.1	20.4	137 E	22	87
5 11	11 49.76	−22 35.3	1.872	2.660	16.3	20.6	132 E	22	87
5 16	11 48.52	−22 13.8	1.936	2.679	17.3	20.7	128 E	23	86
5 21	11 48.03	−21 54.8	2.004	2.697	18.2	20.8	123 E	23*	86
5 26	11 48.25	−21 38.8	2.074	2.716	19.0	20.9	119 E	23*	86
5 31	11 49.12	−21 26.0	2.148	2.733	19.7	21.0	115 E	22*	85
6 5	11 50.59	−21 16.6	2.223	2.751	20.2	21.1	111 E	21*	85
6 10	11 52.61	−21 10.5	2.301	2.768	20.6	21.2	107 E	20*	85
6 15	11 55.14	−21 7.6	2.379	2.786	20.8	21.3	103 E	18*	85
6 20	11 58.12	−21 8.1	2.459	2.802	21.0	21.4	99 E	16*	85

11066 Sigurd

12 23	12 55.84	+10 21.7	1.445	1.633	36.6	18.6	82 W	55	41*
1 2	13 1.83	+ 8 9.6	1.357	1.673	36.0	18.5	90 W	53	49*
1 12	13 4.53	+ 6 4.5	1.264	1.709	34.7	18.3	98 W	51	56*
1 22	13 3.17	+ 4 5.0	1.168	1.743	32.5	18.1	108 W	49	60
2 1	12 56.80	+ 2 10.0	1.075	1.774	29.1	17.9	119 W	47	62
2 11	12 44.48	+ 0 18.9	0.992	1.802	24.3	17.6	131 W	45	64

11066 Sigurd *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 21	12 25.71	− 1 27.4	0.926	1.826	18.1	17.3	145 W	44	65
3 2	12 1.11	− 3 4.7	0.885	1.848	10.6	16.9	160 W	42	67
3 7	11 47.31	− 3 48.2	0.877	1.858	6.8	16.8	167 W	41	68
3 12	11 33.11	− 4 27.5	0.877	1.866	4.2	16.6	172 W	41	68
3 17	11 18.99	− 5 1.9	0.886	1.875	5.1	16.7	170 E	40	69
3 22	11 5.45	− 5 31.6	0.903	1.882	8.3	16.9	164 E	39	70
3 27	10 52.93	− 5 56.9	0.929	1.888	11.9	17.1	157 E	39	70
4 1	10 41.75	− 6 18.6	0.962	1.894	15.3	17.3	150 E	39	70
4 6	10 32.09	− 6 37.7	1.001	1.899	18.4	17.5	143 E	38	71
4 11	10 24.03	− 6 55.1	1.046	1.904	21.2	17.7	137 E	38	71
4 16	10 17.55	− 7 11.8	1.095	1.907	23.5	17.9	131 E	38	71
4 21	10 12.59	− 7 28.4	1.148	1.910	25.6	18.1	125 E	38	71
5 1	10 6.80	− 8 4.3	1.261	1.913	28.6	18.4	115 E	37*	72
5 11	10 5.68	− 8 46.7	1.380	1.914	30.6	18.6	105 E	35*	73
5 21	10 8.25	− 9 37.5	1.500	1.911	31.7	18.8	97 E	30*	74
5 31	10 13.78	−10 37.8	1.618	1.905	32.2	19.0	90 E	24*	75*
6 10	10 21.66	−11 48.1	1.730	1.896	32.1	19.1	83 E	18*	74*
6 20	10 31.46	−13 8.2	1.836	1.884	31.7	19.2	77 E	12*	70*
6 30	10 42.87	−14 38.2	1.932	1.869	31.0	19.3	71 E	7*	65*
7 10	10 55.69	−16 17.9	2.019	1.851	30.1	19.4	66 E	2*	59*
7 20	11 9.79	−18 6.8	2.095	1.830	29.0	19.4	61 E	—	53*
7 30	11 25.14	−20 4.6	2.159	1.806	27.9	19.4	56 E	—	48*
8 9	11 41.72	−22 10.7	2.211	1.779	26.7	19.4	52 E	—	42*
8 19	11 59.62	−24 24.5	2.251	1.749	25.6	19.3	48 E	—	37*
8 29	12 18.96	−26 45.0	2.280	1.715	24.5	19.3	45 E	—	32*
9 8	12 39.93	−29 10.8	2.296	1.679	23.4	19.2	41 E	—	28*
9 18	13 2.78	−31 40.0	2.301	1.640	22.5	19.2	39 E	—	25*
9 28	13 27.85	−34 10.2	2.295	1.597	21.6	19.1	36 E	—	22*
10 8	13 55.49	−36 37.3	2.280	1.552	21.0	19.0	34 E	—	19*
10 13	14 10.42	−37 48.2	2.269	1.528	20.7	18.9	33 E	—	18*
10 18	14 26.17	−38 56.4	2.257	1.504	20.4	18.9	32 E	—	17*
10 23	14 42.77	−40 0.8	2.242	1.479	20.2	18.8	31 E	—	17*
10 28	15 0.27	−41 0.3	2.226	1.453	20.0	18.7	30 E	—	16*
11 2	15 18.70	−41 53.8	2.209	1.427	19.8	18.7	29 E	—	16*
11 7	15 38.08	−42 39.8	2.190	1.400	19.7	18.6	28 E	—	15*
11 12	15 58.39	−43 17.1	2.170	1.372	19.5	18.6	28 E	—	15*
11 17	16 19.60	−43 43.9	2.150	1.344	19.4	18.5	27 E	—	15*
11 22	16 41.60	−43 58.9	2.129	1.316	19.3	18.4	26 E	—	14*
11 27	17 4.29	−44 0.4	2.108	1.287	19.2	18.3	25 E	—	14*
12 2	17 27.50	−43 47.1	2.086	1.258	19.0	18.3	25 E	—	14*
12 7	17 51.03	−43 17.7	2.065	1.229	18.8	18.2	24 E	—	14*
12 12	18 14.70	−42 31.4	2.044	1.199	18.6	18.1	23 E	—	14*
12 17	18 38.28	−41 27.5	2.023	1.170	18.3	18.0	22 E	—	13*
12 22	19 1.56	−40 5.9	2.003	1.140	18.0	17.9	21 E	—	13*
12 27	19 24.36	−38 26.7	1.984	1.111	17.5	17.8	20 E	—	13*
1 1	19 46.56	−36 30.2	1.966	1.083	17.0	17.7	19 E	—	12*
1 6	20 8.06	−34 17.2	1.948	1.055	16.5	17.6	18 E	—	11*
1 11	20 28.80	−31 48.6	1.931	1.027	15.8	17.5	17 E	—	10*
1 16	20 48.78	−29 5.4	1.916	1.001	15.1	17.5	15 E	—	9*

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12 23	12 55.99	− 8 17.2	1.962	1.946	29.2	19.7	74 W	37	54*
1 2	13 11.48	− 7 58.5	1.885	1.989	29.3	19.6	81 W	37	60*
1 12	13 25.13	− 7 17.0	1.804	2.033	28.9	19.6	89 W	38	65*
1 22	13 36.67	− 6 10.2	1.722	2.077	28.1	19.5	96 W	39	69*
2 1	13 45.73	− 4 35.7	1.642	2.122	26.6	19.4	105 W	40	69
2 11	13 51.99	− 2 32.4	1.567	2.168	24.5	19.3	114 W	42	67
2 21	13 55.17	− 0 0.8	1.503	2.213	21.7	19.2	124 W	45	64
2 26	13 55.53	+ 1 24.6	1.476	2.236	20.1	19.1	129 W	46	63
3 2	13 55.07	+ 2 55.2	1.453	2.259	18.3	19.0	134 W	48	61
3 7	13 53.82	+ 4 29.8	1.435	2.282	16.5	19.0	139 W	49	60
3 12	13 51.82	+ 6 6.9	1.423	2.304	14.6	18.9	144 W	51	58
3 17	13 49.13	+ 7 44.8	1.417	2.327	12.7	18.8	149 W	53	56
3 22	13 45.82	+ 9 21.5	1.417	2.349	11.0	18.8	153 W	54	55
3 27	13 42.03	+10 54.9	1.424	2.372	9.7	18.8	156 W	56	53
4 1	13 37.87	+12 23.1	1.438	2.394	8.9	18.8	158 W	57	52
4 6	13 33.51	+13 44.4	1.459	2.417	8.8	18.8	158 W	59	50
4 11	13 29.09	+14 57.2	1.487	2.439	9.4	18.9	157 W	60	49
4 16	13 24.76	+16 0.7	1.521	2.461	10.4	19.0	154 E	61	48
4 21	13 20.64	+16 54.2	1.561	2.483	11.7	19.2	150 E	62	47
5 1	13 13.54	+18 10.9	1.660	2.527	14.4	19.4	141 E	63	46
5 11	13 8.47	+18 49.7	1.778	2.570	16.9	19.7	132 E	64	45
5 21	13 5.72	+18 56.0	1.912	2.612	18.8	20.0	124 E	64	45
5 26	13 5.24	+18 49.0	1.984	2.633	19.6	20.1	119 E	64	45
5 31	13 5.34	+18 36.2	2.059	2.654	20.2	20.2	115 E	64	45
6 5	13 5.99	+18 18.5	2.135	2.674	20.7	20.3	111 E	63*	46
6 10	13 7.17	+17 56.5	2.213	2.695	21.1	20.4	107 E	62*	46

249957 2001 UG_{11} *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 20	13 10.95	+17 2.0	2.373	2.735	21.5	20.6	100 E	58*	47
6 30	13 16.43	+15 56.8	2.536	2.774	21.5	20.8	93 E	54*	48
7 10	13 23.35	+14 44.3	2.700	2.813	21.1	20.9	86 E	49*	49
7 20	13 31.48	+13 27.0	2.862	2.851	20.5	21.1	79 E	44*	50*
7 30	13 40.65	+12 7.0	3.020	2.888	19.6	21.2	73 E	40*	50*
8 9	13 50.69	+10 45.9	3.174	2.925	18.6	21.3	67 E	37*	48*
8 19	14 1.45	+ 9 25.0	3.320	2.960	17.4	21.4	61 E	34*	45*
8 29	14 12.86	+ 8 5.7	3.459	2.995	16.0	21.4	55 E	32*	41*

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12 23	12 56.89	−18 34.5	2.156	2.052	26.9	20.1	71 W	26	58*
1 2	13 3.05	−21 52.0	2.086	2.115	27.1	20.1	78 W	23	68*
1 12	13 6.79	−25 7.0	2.012	2.176	26.8	20.1	86 W	20	78*
1 22	13 7.61	−28 18.5	1.937	2.236	26.0	20.1	94 W	17	88*
1 27	13 6.74	−29 52.0	1.900	2.264	25.5	20.0	98 W	15	86
2 1	13 4.92	−31 23.1	1.864	2.293	24.8	20.0	103 W	14	85
2 6	13 2.08	−32 51.1	1.830	2.321	24.0	20.0	107 W	12	83
2 11	12 58.18	−34 15.1	1.799	2.348	23.0	19.9	112 W	11	82
2 16	12 53.18	−35 33.8	1.771	2.375	22.0	19.9	116 W	9	80
2 21	12 47.07	−36 45.9	1.746	2.402	20.8	19.8	120 W	8	79
2 26	12 39.89	−37 49.8	1.725	2.428	19.6	19.8	125 W	7	78
3 2	12 31.73	−38 44.0	1.710	2.453	18.4	19.8	129 W	6	77
3 7	12 22.75	−39 27.4	1.699	2.478	17.2	19.7	132 W	6	77
3 12	12 13.15	−39 58.7	1.695	2.503	16.2	19.7	136 W	5	76
3 17	12 3.17	−40 17.5	1.696	2.527	15.2	19.7	138 W	5	76
3 22	11 53.10	−40 23.6	1.704	2.550	14.5	19.7	140 E	5	76
3 27	11 43.23	−40 17.3	1.719	2.573	14.1	19.7	141 E	5	76
4 1	11 33.82	−39 59.9	1.740	2.596	13.9	19.8	141 E	5	76
4 6	11 25.13	−39 32.9	1.767	2.618	14.0	19.8	141 E	5	76
4 11	11 17.31	−38 58.2	1.800	2.640	14.4	19.9	139 E	6	77
4 16	11 10.47	−38 17.6	1.840	2.661	15.0	20.0	137 E	7	78
4 21	11 4.69	−37 33.1	1.885	2.682	15.6	20.1	134 E	7	78
4 26	10 59.99	−36 46.5	1.934	2.702	16.4	20.2	131 E	8	79
5 1	10 56.35	−35 59.4	1.989	2.722	17.1	20.3	127 E	9	80
5 6	10 53.73	−35 13.3	2.048	2.742	17.8	20.4	124 E	10	81
5 11	10 52.05	−34 29.2	2.110	2.761	18.4	20.5	120 E	10*	82
5 16	10 51.24	−33 47.9	2.175	2.779	19.0	20.6	117 E	11*	82
5 21	10 51.24	−33 9.9	2.243	2.797	19.5	20.7	113 E	10*	83
5 26	10 51.98	−32 35.8	2.313	2.815	19.9	20.8	109 E	10*	83
5 31	10 53.39	−32 5.9	2.385	2.832	20.2	20.9	106 E	9*	84
6 5	10 55.39	−31 40.3	2.458	2.849	20.4	20.9	102 E	7*	84
6 10	10 57.92	−31 19.0	2.532	2.866	20.5	21.0	99 E	6*	85
6 15	11 0.95	−31 2.0	2.607	2.882	20.6	21.1	95 E	4*	84*
6 20	11 4.40	−30 49.2	2.682	2.897	20.5	21.2	92 E	2*	82*
6 25	11 8.26	−30 40.5	2.756	2.912	20.4	21.2	88 E	—	78*
6 30	11 12.47	−30 35.8	2.831	2.927	20.3	21.3	85 E	—	75*
7 5	11 16.99	−30 35.0	2.905	2.941	20.0	21.4	82 E	—	71*
7 10	11 21.81	−30 37.8	2.978	2.955	19.7	21.4	79 E	—	68*
7 15	11 26.89	−30 44.0	3.050	2.968	19.4	21.5	76 E	—	64*

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12 23	12 57.08	−16 34.3	1.275	1.337	44.2	21.2	71 W	28	58*
12 28	13 14.55	−18 48.3	1.231	1.311	45.4	21.1	72 W	26	59*
1 2	13 32.94	−21 1.3	1.190	1.285	46.6	21.0	72 W	24	61*
1 7	13 52.35	−23 11.4	1.152	1.261	47.8	20.9	72 W	22	63*
1 12	14 12.84	−25 16.6	1.118	1.237	49.0	20.8	72 W	20	64*
1 17	14 34.46	−27 14.6	1.088	1.214	50.2	20.8	72 W	18	64*
1 22	14 57.23	−29 2.7	1.061	1.193	51.4	20.7	71 W	16	65*
1 27	15 21.10	−30 38.3	1.038	1.173	52.5	20.7	71 W	14*	65*
2 1	15 45.96	−31 58.6	1.018	1.154	53.5	20.6	70 W	13*	64*
2 6	16 11.65	−33 1.2	1.002	1.137	54.5	20.6	70 W	12*	64*
2 11	16 37.94	−33 44.2	0.989	1.122	55.3	20.5	69 W	11*	63*
2 16	17 4.53	−34 6.3	0.980	1.109	56.0	20.5	69 W	10*	62*
2 21	17 31.10	−34 7.0	0.973	1.098	56.7	20.5	68 W	9*	62*
2 26	17 57.31	−33 46.5	0.969	1.089	57.1	20.5	68 W	9*	61*
3 2	18 22.86	−33 6.1	0.968	1.083	57.5	20.5	67 W	9*	61*
3 7	18 47.50	−32 7.3	0.968	1.079	57.7	20.5	67 W	9*	60*
3 12	19 11.07	−30 52.4	0.970	1.077	57.8	20.5	67 W	9*	60*
3 17	19 33.46	−29 23.8	0.974	1.078	57.7	20.5	66 W	10*	60*
3 22	19 54.60	−27 43.8	0.978	1.082	57.6	20.5	66 W	10*	60*
3 27	20 14.50	−25 54.8	0.984	1.088	57.3	20.5	67 W	11*	60*
4 1	20 33.17	−23 58.9	0.989	1.096	57.0	20.5	67 W	12*	61*
4 6	20 50.67	−21 58.0	0.995	1.107	56.6	20.6	67 W	13*	61*
4 11	21 7.07	−19 53.9	1.000	1.120	56.1	20.6	68 W	14*	62*
4 16	21 22.45	−17 47.8	1.005	1.135	55.5	20.6	69 W	15*	63*
4 21	21 36.86	−15 41.0	1.010	1.151	54.9	20.6	70 W	16*	63*
4 26	21 50.36	−13 34.4	1.013	1.170	54.3	20.7	71 W	18*	64*
5 1	22 2.99	−11 28.9	1.015	1.190	53.7	20.7	72 W	19*	65*
5 6	22 14.82	− 9 25.1	1.016	1.211	53.0	20.7	73 W	21*	65*
5 11	22 25.87	− 7 23.5	1.016	1.234	52.3	20.7	75 W	23*	66*
5 16	22 36.18	− 5 24.4	1.015	1.257	51.5	20.7	77 W	25*	66*

173689 2001 PK_9 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 21	22 45.76	− 3 28.3	1.011	1.282	50.7	20.7	79 W	27*	65*
5 26	22 54.60	− 1 35.4	1.007	1.307	49.9	20.8	81 W	29*	65*
5 31	23 2.71	+ 0 14.0	1.000	1.333	49.0	20.8	83 W	32*	64*
6 5	23 10.08	+ 1 59.7	0.993	1.359	48.1	20.8	85 W	35*	62
6 10	23 16.70	+ 3 41.5	0.984	1.386	47.0	20.8	88 W	38*	60
6 15	23 22.54	+ 5 19.3	0.973	1.414	45.9	20.7	91 W	41*	59
6 20	23 27.54	+ 6 52.8	0.961	1.441	44.7	20.7	94 W	44*	57
6 25	23 31.67	+ 8 21.6	0.948	1.469	43.4	20.7	97 W	47*	56
6 30	23 34.87	+ 9 45.4	0.935	1.496	42.0	20.7	100 W	51*	54
7 5	23 37.09	+11 3.7	0.921	1.524	40.4	20.6	104 W	54*	53
7 10	23 38.28	+12 16.1	0.906	1.552	38.7	20.6	107 W	56*	52
7 15	23 38.39	+13 21.9	0.892	1.579	36.8	20.5	111 W	58*	51
7 20	23 37.35	+14 20.3	0.878	1.607	34.7	20.5	116 W	59	50
7 25	23 35.15	+15 10.2	0.866	1.634	32.5	20.4	120 W	60	49
7 30	23 31.78	+15 50.7	0.855	1.661	30.0	20.4	125 W	61	48
8 4	23 27.31	+16 20.8	0.846	1.688	27.4	20.3	130 W	61	48
8 9	23 21.80	+16 39.7	0.840	1.714	24.7	20.2	135 W	62	47
8 14	23 15.41	+16 46.5	0.837	1.740	21.9	20.2	140 W	62	47
8 19	23 8.30	+16 40.8	0.838	1.766	19.1	20.1	145 W	62	47
8 24	23 0.75	+16 22.7	0.843	1.792	16.4	20.1	150 W	61	48
8 29	22 53.04	+15 53.0	0.854	1.817	14.0	20.1	154 W	61	48
9 3	22 45.45	+15 13.2	0.869	1.841	12.3	20.1	157 E	60	49
9 8	22 38.25	+14 25.1	0.891	1.866	11.3	20.1	159 E	59	50
9 13	22 31.67	+13 31.0	0.918	1.890	11.4	20.2	158 E	59	50
9 18	22 25.89	+12 33.1	0.950	1.913	12.3	20.3	156 E	58	51
9 23	22 21.06	+11 33.8	0.989	1.936	13.7	20.5	153 E	57	52
9 28	22 17.25	+10 35.2	1.032	1.959	15.4	20.7	149 E	56	53
10 3	22 14.48	+ 9 38.9	1.080	1.981	17.2	20.9	144 E	55	54
10 8	22 12.73	+ 8 46.3	1.133	2.002	18.8	21.0	140 E	54	55
10 13	22 11.95	+ 7 58.3	1.190	2.024	20.4	21.2	135 E	53	56
10 18	22 12.10	+ 7 15.3	1.251	2.044	21.7	21.4	131 E	52	57

26822 1988 RG_{13}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	12 57.30	+ 2 53.9	2.669	2.657	21.3	19.8	79 W	48	47*
1 2	13 7.53	+ 2 26.1	2.520	2.643	21.8	19.7	86 W	47	53*
1 12	13 16.48	+ 2 11.1	2.368	2.628	21.9	19.5	94 W	47	58*
1 22	13 23.87	+ 2 10.3	2.219	2.613	21.6	19.4	102 W	47	61*
2 1	13 29.38	+ 2 25.3	2.073	2.597	20.7	19.2	111 W	47	62
2 11	13 32.67	+ 2 56.8	1.936	2.579	19.3	19.0	120 W	48	61
2 21	13 33.43	+ 3 45.0	1.810	2.561	17.2	18.7	130 W	49	60
3 2	13 31.39	+ 4 48.5	1.699	2.542	14.4	18.5	140 W	50	59
3 12	13 26.53	+ 6 3.4	1.609	2.522	11.1	18.2	151 W	51	58
3 17	13 23.10	+ 6 43.3	1.572	2.512	9.4	18.1	156 W	52	57
3 22	13 19.09	+ 7 23.6	1.542	2.501	7.8	18.0	160 W	52	57
3 27	13 14.57	+ 8 3.1	1.518	2.491	6.5	17.9	163 W	53	56
4 1	13 9.69	+ 8 40.6	1.501	2.480	5.9	17.8	165 W	54	55
4 6	13 4.58	+ 9 14.8	1.491	2.469	6.3	17.8	164 W	54	55
4 11	12 59.39	+ 9 44.8	1.487	2.457	7.5	17.9	161 E	55	54
4 16	12 54.26	+10 9.6	1.490	2.446	9.2	17.9	157 E	55	54
4 21	12 49.36	+10 28.6	1.500	2.434	11.1	18.0	152 E	55	54
5 1	12 40.78	+10 47.4	1.536	2.410	14.9	18.2	142 E	56	53
5 11	12 34.49	+10 40.2	1.591	2.386	18.4	18.3	132 E	56	53
5 21	12 30.95	+10 9.1	1.662	2.360	21.3	18.5	122 E	55	54
5 31	12 30.29	+ 9 17.4	1.744	2.334	23.6	18.7	113 E	54*	55
6 10	12 32.39	+ 8 8.5	1.832	2.308	25.2	18.8	105 E	51*	56
6 20	12 36.99	+ 6 45.9	1.924	2.281	26.3	18.9	97 E	46*	57
6 30	12 43.83	+ 5 12.1	2.017	2.253	26.8	19.0	90 E	40*	59
7 10	12 52.64	+ 3 29.5	2.109	2.225	27.0	19.1	83 E	35*	60*
7 20	13 3.17	+ 1 40.0	2.197	2.196	26.8	19.1	77 E	31*	61*
7 30	13 15.25	− 0 15.0	2.281	2.167	26.2	19.2	71 E	27*	59*
8 9	13 28.72	− 2 13.9	2.360	2.138	25.4	19.2	65 E	24*	56*
8 19	13 43.46	− 4 15.4	2.432	2.108	24.4	19.2	60 E	21*	52*
8 29	13 59.42	− 6 18.4	2.498	2.078	23.3	19.2	54 E	18*	47*
9 8	14 16.52	− 8 21.2	2.557	2.049	21.9	19.2	49 E	16*	43*
9 18	14 34.76	−10 22.6	2.608	2.019	20.4	19.1	45 E	14*	38*
9 28	14 54.13	−12 21.1	2.652	1.989	18.8	19.1	40 E	13*	33*
10 8	15 14.62	−14 15.0	2.688	1.960	17.2	19.0	35 E	11*	29*
10 18	15 36.23	−16 2.7	2.717	1.931	15.4	18.9	31 E	10*	24*
10 28	15 58.98	−17 42.3	2.738	1.903	13.6	18.9	27 E	8*	20*
11 7	16 22.82	−19 11.9	2.753	1.876	11.7	18.8	22 E	7*	15*
11 17	16 47.75	−20 29.5	2.761	1.849	9.7	18.7	18 E	5*	11*
11 27	17 13.70	−21 33.2	2.762	1.823	7.7	18.6	14 E	3*	7*
12 7	17 40.57	−22 21.2	2.758	1.799	5.7	18.4	11 E	1*	3*
12 17	18 8.25	−22 51.9	2.749	1.776	3.7	18.3	7 E	—	—
12 27	18 36.58	−23 4.0	2.735	1.754	1.7	18.1	3 E	—	—
1 6	19 5.38	−22 56.8	2.717	1.734	0.4	17.9	1 W	—	—
1 16	19 34.47	−22 29.8	2.696	1.716	2.4	18.1	4 W	—	—

66358 1999 JW_{87}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	12 57.32	− 3 21.6	2.801	2.736	20.4	21.0	76 W	42	51*
1 2	13 7.57	− 4 1.2	2.638	2.712	21.1	20.9	84 W	41	58*
1 12	13 16.71	− 4 30.0	2.473	2.686	21.5	20.8	92 W	40	64*
1 22	13 24.50	− 4 46.3	2.308	2.659	21.4	20.6	100 W	40	68*
2 1	13 30.61	− 4 48.4	2.147	2.632	20.8	20.4	109 W	40	69
2 11	13 34.73	− 4 34.3	1.993	2.603	19.6	20.2	118 W	40	69
2 21	13 36.54	− 4 2.8	1.849	2.574	17.8	19.9	127 W	41	68
3 2	13 35.73	− 3 12.9	1.720	2.543	15.2	19.6	138 W	42	67
3 12	13 32.20	− 2 5.4	1.609	2.512	11.8	19.4	149 W	43	66
3 22	13 26.05	− 0 43.5	1.521	2.481	7.9	19.0	160 W	44	65
3 27	13 22.12	+ 0 1.3	1.486	2.464	5.9	18.9	165 W	45	64
4 1	13 17.75	+ 0 47.2	1.458	2.448	4.2	18.7	170 W	46	63
4 6	13 13.07	+ 1 33.1	1.437	2.431	3.5	18.7	171 W	47	62
4 11	13 8.21	+ 2 17.8	1.423	2.415	4.5	18.7	169 E	47	62
4 16	13 3.32	+ 3 0.0	1.416	2.398	6.5	18.7	164 E	48	61
4 21	12 58.54	+ 3 38.8	1.415	2.381	8.7	18.8	159 E	49	60
4 26	12 54.05	+ 4 12.9	1.421	2.364	11.0	18.9	153 E	49	60
5 1	12 49.96	+ 4 41.7	1.432	2.346	13.3	19.0	148 E	50	59
5 11	12 43.46	+ 5 21.2	1.471	2.311	17.5	19.2	137 E	50	59
5 21	12 39.64	+ 5 35.8	1.525	2.275	21.0	19.3	126 E	51	58
5 31	12 38.77	+ 5 26.2	1.592	2.239	23.9	19.5	117 E	50*	59
6 10	12 40.82	+ 4 54.9	1.667	2.202	26.0	19.6	108 E	48*	59
6 20	12 45.58	+ 4 5.1	1.745	2.165	27.5	19.7	100 E	44*	60
6 30	12 52.81	+ 2 59.5	1.825	2.128	28.5	19.8	93 E	39*	61
7 10	13 2.23	+ 1 41.0	1.903	2.091	29.0	19.9	86 E	35*	62
7 20	13 13.62	+ 0 11.8	1.979	2.054	29.1	19.9	80 E	31*	63*
7 30	13 26.77	− 1 25.9	2.050	2.016	28.9	19.9	74 E	28*	61*
8 9	13 41.53	− 3 10.1	2.117	1.979	28.4	20.0	68 E	25*	58*
8 19	13 57.80	− 4 58.8	2.177	1.943	27.7	20.0	63 E	22*	55*
8 29	14 15.50	− 6 50.4	2.232	1.907	26.8	20.0	58 E	20*	51*
9 8	14 34.58	− 8 42.7	2.281	1.872	25.7	19.9	54 E	19*	47*
9 18	14 55.02	−10 33.7	2.325	1.838	24.6	19.9	49 E	17*	42*
9 28	15 16.81	−12 21.2	2.362	1.805	23.3	19.8	45 E	16*	38*
10 8	15 39.93	−14 2.9	2.395	1.773	21.9	19.8	41 E	15*	34*
10 18	16 4.37	−15 36.3	2.422	1.743	20.4	19.7	38 E	14*	30*
10 28	16 30.10	−16 58.9	2.446	1.715	18.9	19.7	34 E	13*	26*
11 7	16 57.03	−18 7.9	2.466	1.689	17.4	19.6	31 E	12*	22*
11 17	17 25.07	−19 1.0	2.483	1.666	15.7	19.5	27 E	11*	19*
11 27	17 54.07	−19 35.9	2.497	1.645	14.1	19.5	24 E	10*	15*
12 7	18 23.82	−19 50.8	2.510	1.627	12.4	19.4	21 E	9*	11*
12 17	18 54.12	−19 44.6	2.522	1.613	10.7	19.3	18 E	8*	8*
12 27	19 24.71	−19 16.6	2.533	1.602	9.0	19.2	15 E	6*	5*
1 6	19 55.34	−18 27.3	2.543	1.594	7.3	19.2	12 E	4*	2*
1 16	20 25.80	−17 17.7	2.554	1.590	5.6	19.1	9 E	2*	—

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	12 57.74	− 6 37.3	0.941	1.168	54.3	20.4	75 W	38	53*
12 28	13 13.07	− 8 24.2	0.935	1.177	54.0	20.4	76 W	37	55*
1 2	13 28.02	−10 5.9	0.929	1.187	53.7	20.4	77 W	35	58*
1 7	13 42.56	−11 42.2	0.923	1.199	53.3	20.4	78 W	33	60*
1 12	13 56.68	−13 12.7	0.916	1.212	52.9	20.4	79 W	32	63*
1 22	14 23.53	−15 56.0	0.900	1.242	51.8	20.4	82 W	29	69*
2 1	14 48.20	−18 15.3	0.880	1.277	50.4	20.3	86 W	27	75*
2 11	15 10.27	−20 11.2	0.856	1.315	48.6	20.3	91 W	25	81*
2 21	15 29.24	−21 45.7	0.829	1.357	46.4	20.2	96 W	23	86*
3 2	15 44.42	−23 0.4	0.798	1.401	43.7	20.1	103 W	22	87
3 12	15 55.10	−23 57.1	0.765	1.446	40.3	20.0	110 W	21	88
3 17	15 58.52	−24 19.1	0.749	1.469	38.2	19.9	114 W	21	88
3 22	16 0.54	−24 36.8	0.733	1.492	36.0	19.9	118 W	20	89
3 27	16 1.07	−24 49.9	0.718	1.515	33.4	19.8	123 W	20	89
4 1	16 0.08	−24 58.3	0.704	1.539	30.6	19.7	128 W	20	89
4 11	15 53.59	−24 59.2	0.683	1.585	24.2	19.5	140 W	20	89
4 21	15 41.77	−24 36.0	0.675	1.632	16.9	19.3	152 W	20	89
5 1	15 26.47	−23 48.1	0.684	1.678	9.1	19.1	165 W	21	88
5 6	15 18.39	−23 16.6	0.696	1.700	5.4	19.0	171 W	22	87
5 11	15 10.49	−22 41.7	0.714	1.723	2.8	18.9	175 E	22	87
5 16	15 3.10	−22 5.1	0.737	1.745	4.3	19.1	173 E	23	86
5 21	14 56.48	−21 28.6	0.765	1.766	7.4	19.4	167 E	24	85
5 26	14 50.83	−20 53.7	0.799	1.788	10.6	19.6	161 E	24	85
5 31	14 46.27	−20 22.0	0.838	1.809	13.6	19.9	155 E	25	84
6 5	14 42.84	−19 54.3	0.881	1.830	16.3	20.1	150 E	25	84
6 10	14 40.54	−19 31.3	0.929	1.850	18.7	20.3	144 E	25	84
6 20	14 39.11	−18 59.9	1.035	1.890	22.6	20.7	134 E	26	83
6 30	14 41.49	−18 47.5	1.154	1.929	25.5	21.1	125 E	26*	83
7 10	14 47.03	−18 51.6	1.282	1.966	27.4	21.4	117 E	25*	83
7 20	14 55.14	−19 8.4	1.418	2.001	28.6	21.7	109 E	24*	83