236184 2005 WX_3

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 27	16 2.80	−24 53.9	2.894	2.125	14.2	21.2	32 W	12*	24*
1 6	16 24.69	−26 49.3	2.793	2.095	16.5	21.1	37 W	12*	30*
1 16	16 47.46	−28 39.1	2.686	2.065	18.6	21.1	42 W	11*	35*
1 26	17 11.13	−30 22.7	2.574	2.034	20.7	21.0	47 W	10*	41*
2 5	17 35.74	−31 59.5	2.457	2.004	22.8	20.9	52 W	9*	46*
2 15	18 1.31	−33 29.1	2.338	1.974	24.7	20.9	57 W	8*	50*
2 25	18 27.81	−34 51.0	2.218	1.944	26.5	20.8	61 W	6*	54*
3 7	18 55.24	−36 4.7	2.098	1.915	28.2	20.7	66 W	5*	58*
3 17	19 23.55	−37 10.0	1.979	1.886	29.7	20.6	70 W	3*	61*
3 27	19 52.65	−38 6.7	1.864	1.858	31.1	20.4	74 W	2*	64*
4 1	20 7.46	−38 31.7	1.807	1.845	31.7	20.4	76 W	1*	65*
4 6	20 22.42	−38 54.6	1.752	1.831	32.3	20.3	78 W	—	66*
4 11	20 37.51	−39 15.3	1.698	1.818	32.9	20.2	80 W	—	67*
4 16	20 52.69	−39 34.0	1.646	1.806	33.4	20.2	82 W	—	68*
4 21	21 7.93	−39 50.7	1.594	1.793	33.9	20.1	84 W	—	69*
4 26	21 23.20	−40 5.4	1.545	1.781	34.3	20.0	86 W	—	70*
5 1	21 38.47	−40 18.4	1.497	1.769	34.7	19.9	88 W	—	71*
5 6	21 53.69	−40 29.7	1.450	1.758	35.0	19.9	89 W	—	71*
5 11	22 8.81	−40 39.5	1.406	1.747	35.3	19.8	91 W	—	72*
5 16	22 23.77	−40 48.2	1.362	1.736	35.6	19.7	93 W	—	73*
5 21	22 38.53	−40 55.9	1.321	1.726	35.8	19.7	95 W	—	73*
5 26	22 53.02	−41 2.9	1.281	1.717	35.9	19.6	96 W	—	74*
5 31	23 7.20	−41 9.5	1.243	1.708	36.0	19.5	98 W	—	74*
6 5	23 21.00	−41 16.1	1.206	1.699	36.1	19.4	99 W	—	75*
6 10	23 34.34	−41 23.0	1.171	1.691	36.1	19.4	101 W	—	75*
6 15	23 47.14	−41 30.6	1.137	1.684	36.1	19.3	103 W	—	74
6 20	23 59.33	−41 39.2	1.105	1.677	36.0	19.2	104 W	—	74
6 25	0 10.85	−41 49.1	1.074	1.670	35.8	19.1	106 W	—	74
6 30	0 21.61	−42 0.6	1.044	1.665	35.6	19.1	108 W	—	74
7 5	0 31.52	−42 13.9	1.016	1.660	35.3	19.0	109 W	—	74
7 10	0 40.48	−42 29.3	0.988	1.655	34.9	18.9	111 W	—	74
7 15	0 48.39	−42 46.8	0.962	1.652	34.5	18.8	113 W	—	73
7 20	0 55.13	−43 6.1	0.937	1.649	33.9	18.8	115 W	1*	73
7 25	1 0.61	−43 26.8	0.913	1.646	33.3	18.7	117 W	1*	73
7 30	1 4.72	−43 48.6	0.890	1.645	32.6	18.6	119 W	1*	72
8 4	1 7.33	−44 10.6	0.869	1.644	31.8	18.5	121 W	1*	72
8 9	1 8.32	−44 31.6	0.849	1.643	30.9	18.4	124 W	—	71
8 14	1 7.61	−44 49.9	0.831	1.644	30.0	18.4	126 W	—	71
8 19	1 5.15	−45 3.3	0.814	1.645	28.9	18.3	128 W	—	71
8 24	1 0.98	−45 9.6	0.800	1.647	27.9	18.2	130 W	—	71
8 29	0 55.15	−45 6.2	0.788	1.649	26.8	18.2	133 W	—	71
9 3	0 47.83	−44 50.4	0.779	1.652	25.8	18.1	135 W	—	71
9 8	0 39.31	−44 19.5	0.774	1.656	24.8	18.1	136 W	1	72
9 13	0 29.98	−43 31.3	0.772	1.661	24.0	18.1	138 W	1	72
9 18	0 20.30	−42 24.7	0.773	1.666	23.5	18.1	139 W	3	74
9 23	0 10.73	−40 59.6	0.779	1.671	23.2	18.1	139 W	4	75
9 28	0 1.67	−39 17.2	0.789	1.678	23.2	18.1	139 E	6	77
10 3	23 53.48	−37 19.4	0.804	1.685	23.6	18.2	138 E	8	79
10 8	23 46.41	−35 8.9	0.824	1.692	24.2	18.3	136 E	10	81
10 13	23 40.61	−32 48.8	0.848	1.700	25.0	18.3	134 E	12	83
10 18	23 36.16	−30 22.3	0.877	1.709	25.9	18.5	132 E	15	86
10 23	23 33.02	−27 52.4	0.911	1.718	26.9	18.6	129 E	17	88
10 28	23 31.13	−25 21.6	0.948	1.728	27.8	18.7	126 E	20	89
11 2	23 30.39	−22 51.7	0.990	1.738	28.8	18.8	123 E	22	87
11 7	23 30.73	−20 24.3	1.035	1.749	29.6	19.0	119 E	25	84
11 12	23 32.02	−18 0.2	1.084	1.760	30.4	19.1	116 E	27	82
11 17	23 34.18	−15 40.3	1.136	1.771	31.0	19.2	113 E	29	80
11 22	23 37.10	−13 24.8	1.191	1.783	31.5	19.4	109 E	32	77
12 2	23 44.86	− 9 7.5	1.308	1.808	32.1	19.6	103 E	36	73*
12 12	23 54.77	− 5 7.7	1.434	1.834	32.2	19.9	97 E	40	67*
12 22	0 6.38	− 1 23.6	1.565	1.861	31.9	20.1	91 E	44	60*
1 1	0 19.34	+ 2 6.4	1.700	1.889	31.2	20.3	85 E	47	52*
1 11	0 33.45	+ 5 24.3	1.837	1.917	30.3	20.4	79 E	50	46*
1 21	0 48.51	+ 8 31.4	1.975	1.947	29.1	20.6	74 E	53*	39*

28017 1997 YV_{13}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 2.85	−22 54.3	4.306	3.514	8.6	20.1	32 W	13*	23*
1 6	16 15.26	−23 24.8	4.203	3.501	10.3	20.1	40 W	16*	31*
1 16	16 27.30	−23 51.2	4.084	3.487	11.9	20.1	47 W	17*	38*
1 26	16 38.80	−24 13.5	3.951	3.472	13.3	20.1	54 W	18*	47*
2 5	16 49.61	−24 31.8	3.806	3.457	14.6	20.0	62 W	19*	55*
2 15	16 59.56	−24 46.4	3.651	3.440	15.6	20.0	70 W	19*	63*
2 25	17 8.45	−24 57.4	3.488	3.422	16.4	19.9	78 W	20*	72*
3 7	17 16.07	−25 5.3	3.321	3.404	16.9	19.8	86 W	20*	80*
3 17	17 22.18	−25 10.4	3.151	3.384	17.0	19.6	95 W	20*	89*
3 27	17 26.52	−25 13.1	2.983	3.364	16.7	19.5	104 W	20	89
4 6	17 28.88	−25 13.5	2.820	3.343	16.0	19.3	113 W	20	89
4 16	17 29.01	−25 11.5	2.666	3.321	14.7	19.2	123 W	20	89
4 26	17 26.76	−25 6.7	2.526	3.298	12.9	19.0	133 W	20	89
5 6	17 22.12	−24 58.5	2.404	3.274	10.4	18.7	144 W	20	89
5 16	17 15.22	−24 45.9	2.303	3.249	7.5	18.5	155 W	20	89
5 26	17 6.50	−24 28.1	2.229	3.223	4.1	18.3	167 W	21	88

28017 1997 YV_{13} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 31	17 1.66	−24 17.3	2.202	3.210	2.3	18.1	173 W	21	88
6 5	16 56.63	−24 5.1	2.182	3.196	0.6	17.9	178 W	21	88
6 10	16 51.52	−23 51.8	2.170	3.183	1.6	18.0	175 E	21	88
6 15	16 46.46	−23 37.7	2.165	3.169	3.4	18.1	169 E	21	88
6 20	16 41.56	−23 22.9	2.168	3.155	5.3	18.2	163 E	22	87
6 25	16 36.94	−23 8.0	2.177	3.140	7.1	18.3	158 E	22	87
7 5	16 28.87	−22 38.7	2.215	3.111	10.5	18.5	146 E	22	87
7 15	16 22.86	−22 12.5	2.276	3.081	13.5	18.6	135 E	23	86
7 25	16 19.26	−21 51.8	2.355	3.050	15.9	18.7	125 E	23*	86
8 4	16 18.17	−21 37.5	2.447	3.018	17.8	18.9	115 E	23*	86
8 14	16 19.55	−21 30.0	2.549	2.985	19.1	19.0	106 E	22*	86
8 24	16 23.26	−21 28.8	2.655	2.951	19.9	19.1	97 E	22*	85
9 3	16 29.09	−21 32.7	2.763	2.917	20.2	19.1	89 E	21*	82*
9 13	16 36.87	−21 40.4	2.869	2.881	20.2	19.2	81 E	20*	74*
9 23	16 46.39	−21 50.3	2.970	2.845	19.7	19.2	73 E	19*	67*
10 3	16 57.46	−22 1.0	3.065	2.808	19.0	19.2	66 E	18*	60*
10 13	17 9.93	−22 10.9	3.151	2.770	18.0	19.2	59 E	17*	52*
10 23	17 23.66	−22 18.4	3.227	2.731	16.7	19.2	52 E	16*	45*
11 2	17 38.50	−22 22.2	3.291	2.691	15.3	19.2	46 E	15*	38*
11 12	17 54.34	−22 21.0	3.344	2.651	13.6	19.1	39 E	14*	32*
11 22	18 11.05	−22 13.5	3.383	2.610	11.9	19.1	33 E	12*	25*
12 2	18 28.53	−21 58.7	3.409	2.569	10.0	19.0	27 E	11*	18*
12 12	18 46.67	−21 35.7	3.421	2.526	8.0	18.8	21 E	8*	12*
12 22	19 5.38	−21 3.7	3.419	2.484	6.0	18.7	15 E	6*	6*
1 1	19 24.55	−20 22.0	3.404	2.440	3.9	18.6	10 E	2*	1*
1 11	19 44.12	−19 30.3	3.376	2.396	1.8	18.4	4 E	—	—
1 21	20 3.98	−18 28.2	3.335	2.352	1.0	18.2	2 W	—	—

68063 2000 YJ_{66}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 3.19	−25 4.6	3.331	2.551	11.8	20.8	32 W	11*	24*
1 6	16 21.80	−25 53.5	3.207	2.504	13.9	20.7	38 W	13*	30*
1 16	16 40.78	−26 35.7	3.072	2.456	16.0	20.7	44 W	14*	36*
1 26	17 0.07	−27 10.6	2.927	2.407	18.1	20.6	49 W	14*	43*
2 5	17 19.61	−27 37.7	2.775	2.356	20.1	20.5	55 W	14*	49*
2 15	17 39.34	−27 56.6	2.617	2.304	22.0	20.4	61 W	14*	55*
2 25	17 59.16	−28 7.0	2.454	2.252	23.8	20.2	67 W	14*	61*
3 7	18 19.01	−28 8.6	2.288	2.198	25.5	20.1	72 W	15*	66*
3 17	18 38.80	−28 1.6	2.120	2.143	27.0	19.9	78 W	15*	72*
3 27	18 58.42	−27 45.8	1.953	2.087	28.3	19.7	83 W	15*	77*
4 6	19 17.79	−27 21.4	1.787	2.031	29.5	19.5	89 W	15*	83*
4 16	19 36.80	−26 48.7	1.625	1.974	30.5	19.2	94 W	16*	88*
4 26	19 55.34	−26 7.9	1.467	1.916	31.2	19.0	100 W	17*	90
5 6	20 13.30	−25 19.1	1.315	1.858	31.6	18.7	105 W	18*	89
5 16	20 30.53	−24 22.5	1.170	1.800	31.6	18.4	111 W	19*	88
5 26	20 46.85	−23 18.1	1.033	1.742	31.3	18.0	117 W	21*	87
6 5	21 2.10	−22 5.3	0.906	1.685	30.5	17.6	123 W	23*	86
6 15	21 15.98	−20 43.4	0.788	1.629	29.2	17.2	129 W	24*	85
6 25	21 28.21	−19 10.7	0.682	1.574	27.2	16.8	135 W	26	83
6 30	21 33.61	−18 19.4	0.633	1.547	26.0	16.5	138 W	27	82
7 5	21 38.47	−17 24.3	0.587	1.521	24.5	16.3	142 W	28	81
7 10	21 42.72	−16 25.0	0.544	1.496	22.9	16.0	145 W	29	80
7 15	21 46.34	−15 20.8	0.505	1.471	21.0	15.8	149 W	30	79
7 20	21 49.31	−14 11.1	0.468	1.448	18.9	15.5	152 W	31	78
7 25	21 51.61	−12 55.2	0.435	1.425	16.6	15.3	156 W	32	77
8 4	21 54.27	−10 3.3	0.378	1.383	11.6	14.7	164 W	35	74
8 14	21 54.70	− 6 44.3	0.336	1.345	6.9	14.2	171 W	38	71
8 24	21 54.22	− 3 3.3	0.306	1.314	7.0	13.9	171 E	42	67
8 29	21 54.16	− 1 8.4	0.297	1.301	9.4	14.0	168 E	44	65
9 3	21 54.53	+ 0 46.3	0.290	1.290	12.2	14.0	164 E	46	63
9 8	21 55.59	+ 2 38.2	0.286	1.281	15.2	14.1	161 E	48	61
9 13	21 57.59	+ 4 25.3	0.285	1.274	18.0	14.1	157 E	49	60
9 18	22 0.71	+ 6 6.1	0.287	1.268	20.7	14.2	154 E	51	58
9 23	22 5.03	+ 7 39.1	0.292	1.265	23.0	14.3	150 E	53	56
10 3	22 17.31	+10 18.6	0.308	1.265	26.9	14.6	145 E	55	54
10 13	22 34.17	+12 22.8	0.333	1.274	29.7	14.8	141 E	57	52
10 23	22 54.73	+13 57.8	0.369	1.290	31.5	15.1	137 E	59	50
10 28	23 5.99	+14 36.3	0.390	1.301	32.3	15.3	136 E	60	49
11 2	23 17.72	+15 10.0	0.414	1.314	32.9	15.5	134 E	60	49
11 7	23 29.80	+15 40.0	0.441	1.329	33.4	15.6	132 E	61	48
11 12	23 42.14	+16 7.4	0.471	1.345	33.8	15.8	131 E	61	48
11 17	23 54.63	+16 32.9	0.503	1.363	34.2	16.0	129 E	62	47
11 22	0 7.16	+16 57.0	0.538	1.383	34.6	16.2	127 E	62	47
11 27	0 19.69	+17 20.4	0.577	1.403	34.9	16.4	126 E	62	47
12 2	0 32.17	+17 43.2	0.618	1.425	35.1	16.6	124 E	63	46
12 7	0 44.59	+18 6.1	0.662	1.448	35.3	16.8	122 E	63	46
12 12	0 56.92	+18 29.1	0.709	1.471	35.5	16.9	120 E	63	46
12 17	1 9.15	+18 52.5	0.759	1.496	35.6	17.1	118 E	64	45
12 22	1 21.26	+19 16.2	0.811	1.521	35.7	17.3	116 E	64	45

68063 2000 YJ_{66} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 27	1 33.26	+19 40.0	0.867	1.547	35.7	17.5	113 E	65	44*
1 1	1 45.14	+20 4.0	0.925	1.574	35.6	17.7	111 E	65	44*
1 6	1 56.92	+20 28.1	0.985	1.601	35.5	17.8	109 E	65	43*
1 11	2 8.62	+20 52.3	1.049	1.629	35.4	18.0	107 E	66	42*
1 16	2 20.23	+21 16.2	1.114	1.657	35.1	18.2	104 E	66	42*
1 21	2 31.74	+21 39.7	1.181	1.685	34.9	18.3	102 E	67	41*

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12 27	16 3.24	−30 39.9	1.748	1.051	29.7	20.9	32 W	6*	25*
1 1	16 21.31	−31 55.4	1.777	1.094	29.4	21.0	33 W	5*	27*
1 6	16 39.09	−32 59.5	1.804	1.136	29.2	21.1	34 W	5*	28*
1 11	16 56.55	−33 53.2	1.827	1.177	29.1	21.2	36 W	4*	30*
1 16	17 13.67	−34 37.2	1.847	1.217	29.2	21.3	37 W	3*	31*
1 21	17 30.39	−35 12.4	1.863	1.256	29.3	21.4	39 W	3*	33*

6042 Cheshirecat

12 27	16 4.09	−12 49.4	4.546	3.779	8.5	19.7	35 W	22*	19*
1 6	16 14.93	−13 22.4	4.421	3.748	10.1	19.6	42 W	25*	27*
1 16	16 25.45	−13 50.4	4.281	3.716	11.6	19.6	49 W	27*	36*
1 26	16 35.51	−14 13.6	4.127	3.683	12.9	19.6	57 W	28*	44*
2 5	16 44.96	−14 32.2	3.961	3.650	14.1	19.5	65 W	29*	53*
2 15	16 53.63	−14 46.3	3.786	3.616	15.1	19.4	73 W	29*	61*
2 25	17 1.33	−14 56.4	3.605	3.581	15.8	19.3	81 W	30*	69*
3 7	17 7.87	−15 3.1	3.420	3.545	16.3	19.2	89 W	30*	76*
3 17	17 13.02	−15 7.1	3.234	3.509	16.3	19.1	98 W	30	79
3 27	17 16.55	−15 9.1	3.051	3.471	16.0	18.9	107 W	30	79
4 6	17 18.24	−15 10.1	2.875	3.434	15.2	18.7	116 W	30	79
4 16	17 17.88	−15 11.1	2.709	3.395	13.9	18.5	126 W	30	79
4 26	17 15.31	−15 12.9	2.558	3.355	12.0	18.3	136 W	30	79
5 6	17 10.53	−15 16.6	2.426	3.315	9.6	18.1	147 W	30	79
5 16	17 3.66	−15 22.7	2.317	3.274	6.8	17.8	158 W	30	79
5 26	16 55.08	−15 31.9	2.235	3.233	3.7	17.5	168 W	29	80
6 5	16 45.41	−15 44.7	2.181	3.190	2.2	17.4	173 E	29	80
6 15	16 35.43	−16 1.5	2.156	3.147	4.9	17.5	165 E	29	80
6 25	16 26.03	−16 22.7	2.160	3.103	8.4	17.6	154 E	29	80
7 5	16 18.00	−16 48.8	2.189	3.059	11.7	17.7	142 E	28	81
7 15	16 11.95	−17 20.1	2.240	3.014	14.6	17.9	132 E	28	81
7 25	16 8.26	−17 56.5	2.309	2.968	17.0	18.0	121 E	27*	82
8 4	16 7.08	−18 37.9	2.389	2.921	18.8	18.1	112 E	26*	83
8 14	16 8.42	−19 23.6	2.477	2.874	20.1	18.2	103 E	24*	83
8 24	16 12.20	−20 12.9	2.569	2.827	20.9	18.2	94 E	22*	84*
9 3	16 18.23	−21 4.7	2.661	2.778	21.2	18.3	86 E	20*	79*
9 13	16 26.38	−21 57.8	2.751	2.730	21.2	18.3	78 E	19*	72*
9 23	16 36.48	−22 51.1	2.835	2.680	20.7	18.3	71 E	17*	65*
10 3	16 48.37	−23 43.1	2.912	2.631	20.0	18.3	64 E	16*	58*
10 13	17 1.93	−24 32.6	2.980	2.581	19.0	18.3	57 E	14*	51*
10 23	17 17.04	−25 18.3	3.038	2.530	17.8	18.3	51 E	13*	45*
11 2	17 33.59	−25 58.6	3.086	2.480	16.3	18.2	45 E	11*	38*
11 12	17 51.49	−26 32.4	3.122	2.429	14.8	18.1	39 E	10*	32*
11 22	18 10.63	−26 58.2	3.146	2.378	13.1	18.0	33 E	8*	26*
12 2	18 30.91	−27 14.8	3.158	2.327	11.3	17.9	27 E	6*	21*
12 12	18 52.24	−27 20.9	3.158	2.277	9.4	17.8	22 E	4*	15*
12 22	19 14.51	−27 15.5	3.147	2.227	7.5	17.7	17 E	2*	11*
1 1	19 37.60	−26 57.7	3.126	2.177	5.7	17.5	13 E	—	6*
1 11	20 1.41	−26 26.6	3.094	2.128	4.1	17.4	9 E	—	3*
1 21	20 25.82	−25 41.8	3.054	2.080	3.1	17.2	7 E	—	—

202914 1997 *PA*

12 27	16 5.43	−27 28.3	3.079	2.297	12.9	21.3	31 W	9*	24*
1 6	16 27.21	−28 25.3	2.978	2.265	15.0	21.3	37 W	10*	29*
1 16	16 49.45	−29 12.8	2.869	2.232	17.0	21.2	42 W	10*	35*
1 26	17 12.07	−29 49.7	2.753	2.199	19.0	21.2	47 W	11*	40*
2 5	17 34.95	−30 15.5	2.630	2.166	21.0	21.1	52 W	11*	46*
2 15	17 58.00	−30 29.7	2.503	2.132	22.9	21.0	57 W	11*	51*
2 25	18 21.06	−30 31.9	2.372	2.098	24.6	20.9	62 W	11*	56*
3 7	18 44.00	−30 22.1	2.239	2.064	26.3	20.8	67 W	11*	61*
3 17	19 6.67	−30 0.5	2.104	2.030	27.8	20.7	72 W	11*	66*
3 27	19 28.89	−29 27.5	1.969	1.997	29.1	20.5	77 W	11*	70*
4 6	19 50.52	−28 43.8	1.834	1.963	30.3	20.4	82 W	12*	75*
4 16	20 11.38	−27 50.2	1.702	1.930	31.3	20.2	87 W	13*	80*
4 26	20 31.27	−26 47.9	1.572	1.898	32.0	20.0	92 W	14*	86*
5 6	20 50.01	−25 37.9	1.446	1.867	32.4	19.8	97 W	15*	90
5 16	21 7.34	−24 21.8	1.324	1.836	32.5	19.6	103 W	17*	88
5 26	21 22.99	−23 0.8	1.208	1.807	32.1	19.4	109 W	19*	87
6 5	21 36.63	−21 36.4	1.098	1.779	31.2	19.1	115 W	22*	86
6 15	21 47.82	−20 10.1	0.996	1.753	29.7	18.8	121 W	24*	84
6 25	21 56.10	−18 43.0	0.902	1.729	27.4	18.5	128 W	26*	83
7 5	22 0.98	−17 15.8	0.819	1.706	24.3	18.2	136 W	28	81
7 15	22 1.98	−15 49.3	0.748	1.686	20.1	17.8	145 W	29	80
7 25	21 58.95	−14 23.2	0.691	1.668	14.9	17.4	155 W	31	78
8 4	21 52.29	−12 57.4	0.651	1.654	8.7	17.1	166 W	32	77

202914 1997 *PA* *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 9	21 47.91	−12 14.6	0.638	1.647	5.4	16.8	171 W	33	76
8 14	21 43.12	−11 32.1	0.629	1.641	2.3	16.6	176 W	33	76
8 19	21 38.19	−10 49.9	0.625	1.636	2.5	16.6	176 E	34	75
8 24	21 33.40	−10 8.3	0.626	1.632	5.8	16.8	171 E	35	74
8 29	21 29.00	− 9 27.5	0.632	1.629	9.2	17.0	165 E	36	73
9 3	21 25.23	− 8 47.8	0.642	1.626	12.5	17.1	160 E	36	73
9 13	21 20.33	− 7 31.7	0.675	1.623	18.6	17.5	149 E	37	72
9 23	21 19.66	− 6 19.1	0.723	1.623	23.6	17.8	140 E	39	70
10 3	21 23.29	− 5 8.4	0.783	1.627	27.6	18.1	131 E	40	69
10 13	21 30.87	− 3 56.8	0.854	1.633	30.6	18.3	124 E	41	68
10 23	21 41.81	− 2 41.8	0.934	1.643	32.7	18.6	117 E	42	67
11 2	21 55.45	− 1 21.7	1.020	1.656	34.1	18.9	111 E	44	65
11 12	22 11.23	+ 0 4.7	1.114	1.671	34.9	19.1	105 E	45	64*
11 22	22 28.64	+ 1 37.9	1.213	1.689	35.2	19.3	100 E	47	61*
12 2	22 47.29	+ 3 17.4	1.318	1.709	35.1	19.5	95 E	48	57*
12 12	23 6.88	+ 5 2.6	1.427	1.732	34.6	19.7	90 E	50	52*
12 22	23 27.17	+ 6 52.4	1.540	1.757	33.9	19.9	85 E	52	47*
1 1	23 47.98	+ 8 45.3	1.656	1.783	33.0	20.0	81 E	54	42*
1 11	0 9.21	+10 39.9	1.775	1.811	31.8	20.2	76 E	55*	38*
1 21	0 30.76	+12 34.6	1.896	1.841	30.5	20.3	72 E	56*	33*

49952 1999 XH_{212}

12 27	16 5.63	−18 14.1	2.976	2.211	13.8	20.6	33 W	17*	21*
1 6	16 26.63	−19 6.7	2.879	2.185	16.0	20.6	38 W	18*	27*
1 16	16 47.92	−19 49.2	2.774	2.158	18.0	20.5	43 W	19*	33*
1 26	17 9.43	−20 21.0	2.662	2.130	20.0	20.5	48 W	20*	39*
2 5	17 31.06	−20 41.8	2.544	2.103	22.0	20.4	53 W	20*	45*
2 15	17 52.73	−20 51.5	2.422	2.075	23.8	20.3	58 W	20*	50*
2 25	18 14.30	−20 50.1	2.296	2.047	25.5	20.2	63 W	20*	56*
3 7	18 35.68	−20 38.0	2.168	2.019	27.1	20.1	68 W	21*	61*
3 17	18 56.73	−20 15.8	2.039	1.991	28.6	20.0	73 W	21*	66*
3 27	19 17.31	−19 44.6	1.909	1.963	29.8	19.9	78 W	21*	71*
4 6	19 37.32	−19 5.5	1.780	1.936	30.9	19.7	83 W	22*	76*
4 16	19 56.59	−18 20.4	1.653	1.909	31.7	19.5	88 W	23*	80*
4 26	20 14.95	−17 31.1	1.528	1.883	32.2	19.4	94 W	24*	82*
5 6	20 32.25	−16 40.1	1.407	1.857	32.4	19.2	99 W	25*	81
5 16	20 48.25	−15 50.3	1.290	1.832	32.2	18.9	105 W	27*	80
5 26	21 2.68	−15 5.3	1.179	1.809	31.5	18.7	111 W	28*	79
6 5	21 15.24	−14 28.6	1.075	1.786	30.3	18.4	117 W	30*	78
6 15	21 25.53	−14 4.9	0.978	1.765	28.3	18.1	125 W	31*	78
6 25	21 33.12	−13 58.6	0.891	1.745	25.5	17.8	132 W	31	78
7 5	21 37.61	−14 13.7	0.815	1.728	21.8	17.5	141 W	31	78
7 15	21 38.63	−14 52.5	0.752	1.711	17.1	17.2	150 W	30	79
7 25	21 36.25	−15 53.8	0.705	1.697	11.4	16.8	161 W	29	80
7 30	21 33.94	−16 31.0	0.688	1.691	8.2	16.6	166 W	28	81
8 4	21 31.02	−17 11.1	0.675	1.685	5.0	16.4	172 W	28	81
8 9	21 27.69	−17 52.4	0.667	1.680	2.1	16.2	176 W	27	82
8 14	21 24.18	−18 33.3	0.664	1.675	2.9	16.2	175 E	26	83
8 19	21 20.72	−19 11.8	0.665	1.671	6.0	16.4	170 E	26	83
8 24	21 17.57	−19 46.6	0.672	1.668	9.3	16.6	164 E	25	84
8 29	21 14.92	−20 16.4	0.682	1.665	12.6	16.7	159 E	25	84
9 3	21 12.98	−20 40.4	0.697	1.663	15.6	16.9	154 E	24	85
9 8	21 11.88	−20 57.8	0.716	1.661	18.5	17.0	149 E	24	85
9 13	21 11.74	−21 8.5	0.739	1.660	21.1	17.2	144 E	24	85
9 23	21 14.48	−21 9.6	0.794	1.660	25.5	17.5	135 E	24	85
10 3	21 21.10	−20 45.5	0.861	1.662	29.0	17.7	126 E	24	85
10 13	21 31.17	−19 58.4	0.937	1.667	31.6	18.0	119 E	25	84
10 18	21 37.32	−19 27.1	0.978	1.671	32.5	18.1	116 E	26	83
10 23	21 44.09	−18 51.0	1.020	1.675	33.3	18.3	112 E	26	83
10 28	21 51.40	−18 10.6	1.065	1.679	34.0	18.4	109 E	27	82
11 2	21 59.19	−17 26.0	1.110	1.684	34.4	18.5	106 E	28	81
11 7	22 7.40	−16 37.6	1.158	1.690	34.8	18.6	103 E	28	81
11 12	22 15.98	−15 45.6	1.206	1.696	35.0	18.7	101 E	29	80
11 22	22 33.97	−13 52.1	1.307	1.710	35.1	18.9	95 E	31	76*
12 2	22 52.82	−11 48.0	1.411	1.726	34.8	19.1	90 E	33	71*
12 12	23 12.28	− 9 35.4	1.520	1.744	34.3	19.2	85 E	35	65*
12 22	23 32.16	− 7 16.6	1.631	1.763	33.4	19.4	81 E	38	58*
1 1	23 52.33	− 4 53.6	1.744	1.784	32.3	19.5	76 E	40	52*
1 11	0 12.73	− 2 28.5	1.858	1.807	31.1	19.7	72 E	42*	47*
1 21	0 33.30	− 0 3.1	1.974	1.830	29.7	19.8	67 E	44*	42*

52730 1998 HN_4

12 27	16 5.66	−20 19.4	2.769	2.005	15.1	20.7	32 W	15*	22*
1 6	16 29.43	−21 39.6	2.669	1.969	17.3	20.6	37 W	16*	27*
1 16	16 54.03	−22 49.2	2.565	1.933	19.5	20.6	41 W	16*	32*
1 26	17 19.41	−23 47.0	2.457	1.897	21.6	20.5	45 W	16*	38*
2 5	17 45.53	−24 31.9	2.346	1.861	23.7	20.4	49 W	15*	42*
2 15	18 12.34	−25 2.9	2.233	1.827	25.7	20.3	53 W	15*	47*

52730 1998 HN_4 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 25	18 39.72	−25 19.1	2.121	1.792	27.7	20.2	57 W	14*	51*
3 7	19 7.59	−25 20.2	2.009	1.759	29.6	20.1	61 W	14*	55*
3 17	19 35.82	−25 5.8	1.899	1.728	31.4	20.0	65 W	13*	59*
3 27	20 4.25	−24 36.3	1.791	1.697	33.1	19.9	68 W	13*	62*
4 6	20 32.77	−23 52.2	1.688	1.669	34.7	19.8	72 W	13*	66*
4 16	21 1.21	−22 54.6	1.588	1.642	36.2	19.7	75 W	13*	69*
4 26	21 29.42	−21 45.1	1.493	1.618	37.5	19.5	78 W	13*	72*
5 6	21 57.26	−20 25.5	1.403	1.596	38.6	19.4	81 W	14*	75*
5 16	22 24.56	−18 58.3	1.317	1.577	39.6	19.3	84 W	15*	78*
5 26	22 51.13	−17 26.4	1.237	1.561	40.4	19.1	87 W	16*	80*
6 5	23 16.80	−15 52.8	1.162	1.549	40.9	19.0	90 W	19*	80*
6 15	23 41.33	−14 20.9	1.092	1.540	41.2	18.8	94 W	21*	78
6 25	0 4.43	−12 54.1	1.026	1.535	41.1	18.7	97 W	24*	77
7 5	0 25.80	−11 35.4	0.964	1.533	40.6	18.5	101 W	28*	76
7 15	0 45.01	−10 27.9	0.906	1.535	39.6	18.4	106 W	31*	74
7 25	1 1.59	− 9 34.0	0.852	1.541	38.0	18.2	111 W	34*	74
8 4	1 14.99	− 8 54.9	0.802	1.550	35.8	18.0	117 W	36*	73
8 14	1 24.55	− 8 31.3	0.757	1.563	32.8	17.8	123 W	36	73
8 24	1 29.68	− 8 21.2	0.718	1.579	28.9	17.6	131 W	37	72
8 29	1 30.46	− 8 20.0	0.702	1.588	26.6	17.5	135 W	37	72
9 3	1 30.00	− 8 20.5	0.689	1.598	24.0	17.4	140 W	37	72
9 8	1 28.32	− 8 21.7	0.678	1.609	21.3	17.3	145 W	37	72
9 13	1 25.48	− 8 22.3	0.671	1.620	18.4	17.2	149 W	37	72
9 18	1 21.64	− 8 21.1	0.667	1.632	15.5	17.1	154 W	37	72
9 23	1 16.96	− 8 16.9	0.668	1.645	12.6	17.1	159 W	37	72
9 28	1 11.69	− 8 8.6	0.673	1.658	10.1	17.0	163 W	37	72
10 3	1 6.07	− 7 55.4	0.683	1.671	8.3	17.0	166 W	37	72
10 8	1 0.39	− 7 36.6	0.698	1.686	7.9	17.0	167 W	37	72
10 13	0 54.95	− 7 11.8	0.718	1.700	9.0	17.1	165 E	38	71
10 23	0 45.72	− 6 5.4	0.772	1.731	13.3	17.5	156 E	39	70
11 2	0 39.69	− 4 39.9	0.846	1.763	17.9	17.9	147 E	40	69
11 12	0 37.41	− 3 0.3	0.937	1.796	21.9	18.3	137 E	42	67
11 22	0 38.79	− 1 11.0	1.042	1.830	24.9	18.7	129 E	44	65
12 2	0 43.39	+ 0 44.1	1.160	1.865	27.1	19.0	120 E	46	63
12 12	0 50.72	+ 2 42.6	1.288	1.900	28.5	19.3	113 E	48	61
12 22	1 0.28	+ 4 42.6	1.423	1.936	29.3	19.6	106 E	50	59*
1 1	1 11.65	+ 6 42.7	1.565	1.972	29.5	19.8	99 E	52	55*
1 11	1 24.50	+ 8 41.8	1.711	2.008	29.3	20.1	92 E	54	50*
1 21	1 38.56	+10 38.8	1.860	2.044	28.7	20.3	86 E	56	46*

260141 2004 QT_{24}

12 27	16 6.14	−20 51.9	1.835	1.127	27.4	21.1	32 W	15*	22*
1 6	16 39.45	−23 38.9	1.844	1.167	28.1	21.2	34 W	13*	25*
1 16	17 12.97	−25 57.1	1.845	1.205	29.0	21.3	36 W	11*	29*
1 26	17 46.62	−27 46.5	1.838	1.241	30.0	21.4	39 W	10*	33*
2 5	18 20.30	−29 7.8	1.823	1.274	31.2	21.5	42 W	8*	36*

137924 2000 BD_{19}

12 27	16 7.23	−22 38.1	0.892	0.514	84.2	18.5	31 W	13*	22*
12 29	16 30.00	−24 8.1	0.897	0.462	86.4	18.3	28 W	10*	20*
12 31	16 54.21	−25 24.4	0.910	0.407	87.9	18.1	24 W	7*	17*
1 2	17 19.86	−26 22.6	0.930	0.349	88.3	17.9	21 W	4*	14*
1 4	17 47.06	−26 57.2	0.959	0.285	86.5	17.4	17 W	1*	10*
1 6	18 16.30	−26 59.4	0.997	0.216	80.2	16.7	12 W	—	6*
1 7	18 32.06	−26 43.0	1.019	0.179	73.5	16.1	10 W	—	4*
1 8	18 49.02	−26 8.6	1.042	0.143	61.8	15.3	7 W	—	1*
1 9	19 7.63	−25 6.2	1.063	0.110	41.1	14.1	4 W	—	—
1 10	19 27.68	−23 22.2	1.072	0.092	16.1	13.0	1 E	—	—
1 11	19 46.34	−21 3.2	1.058	0.103	42.1	14.0	4 E	—	—
1 12	20 1.32	−18 41.3	1.029	0.133	66.6	15.2	7 E	1*	—
1 13	20 13.49	−16 29.1	0.997	0.169	80.6	16.1	10 E	3*	—
1 14	20 24.01	−14 25.5	0.967	0.206	88.7	16.8	12 E	6*	—
1 15	20 33.56	−12 27.8	0.939	0.241	93.6	17.3	14 E	8*	—
1 16	20 42.53	−10 34.1	0.913	0.276	96.6	17.7	16 E	10*	—
1 17	20 51.12	− 8 43.0	0.890	0.309	98.4	17.9	18 E	12*	—
1 18	20 59.48	− 6 53.7	0.869	0.340	99.4	18.2	20 E	14*	—
1 19	21 7.70	− 5 5.7	0.851	0.370	99.8	18.3	22 E	16*	1*
1 20	21 15.83	− 3 18.8	0.834	0.400	99.8	18.4	24 E	18*	1*
1 21	21 23.91	− 1 32.7	0.819	0.428	99.4	18.5	25 E	19*	1*
1 22	21 31.98	+ 0 12.6	0.806	0.455	98.8	18.6	27 E	21*	1*
1 23	21 40.06	+ 1 56.9	0.795	0.481	97.9	18.6	29 E	23*	1*
1 24	21 48.15	+ 3 40.2	0.785	0.507	96.9	18.7	31 E	25*	2*
1 25	21 56.26	+ 5 22.3	0.777	0.531	95.8	18.7	32 E	26*	2*
1 26	22 4.41	+ 7 3.0	0.770	0.555	94.5	18.7	34 E	28*	2*
1 28	22 20.79	+10 19.2	0.761	0.602	91.8	18.8	38 E	32*	3*
1 30	22 37.28	+13 26.9	0.757	0.645	88.9	18.8	41 E	35*	3*
2 1	22 53.83	+16 24.2	0.758	0.687	85.8	18.8	44 E	38*	4*
2 3	23 10.36	+19 9.5	0.764	0.727	82.7	18.8	47 E	41*	5*
2 5	23 26.82	+21 41.7	0.773	0.765	79.7	18.8	50 E	44*	6*

137924 2000 BD_{19} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 7	23 43.10	+24 0.1	0.787	0.801	76.8	18.9	52 E	46*	6*
2 9	23 59.14	+26 4.7	0.803	0.837	73.9	18.9	55 E	48*	7*
2 11	0 14.85	+27 55.6	0.823	0.870	71.3	19.0	57 E	51*	8*
2 13	0 30.18	+29 33.5	0.845	0.903	68.7	19.0	58 E	52*	8*
2 15	0 45.06	+30 59.0	0.869	0.934	66.3	19.1	60 E	54*	9*
2 17	0 59.46	+32 13.3	0.895	0.964	64.1	19.2	61 E	55*	9*
2 19	1 13.35	+33 17.4	0.923	0.994	62.0	19.2	63 E	56*	10*
2 21	1 26.70	+34 12.2	0.952	1.022	60.0	19.3	64 E	57*	11*
2 23	1 39.53	+34 58.9	0.982	1.049	58.2	19.4	64 E	58*	11*
2 25	1 51.82	+35 38.4	1.014	1.075	56.5	19.4	65 E	59*	12*
2 27	2 3.59	+36 11.5	1.046	1.101	54.9	19.5	65 E	59*	12*
3 1	2 14.85	+36 39.2	1.079	1.126	53.4	19.6	66 E	60*	12*
3 3	2 25.64	+37 2.0	1.113	1.149	51.9	19.6	66 E	60*	13*
3 5	2 35.96	+37 20.6	1.147	1.173	50.6	19.7	66 E	60*	13*
3 7	2 45.85	+37 35.7	1.181	1.195	49.4	19.8	66 E	60*	13*
3 12	3 8.83	+38 0.6	1.269	1.248	46.5	20.0	66 E	60*	14*
3 17	3 29.66	+38 11.9	1.357	1.297	44.0	20.1	65 E	59*	15*
3 22	3 48.66	+38 13.5	1.446	1.342	41.7	20.3	64 E	58*	15*
3 27	4 6.16	+38 8.4	1.534	1.383	39.6	20.4	62 E	56*	16*
4 1	4 22.41	+37 58.4	1.620	1.421	37.6	20.5	60 E	54*	16*
4 6	4 37.62	+37 44.6	1.704	1.456	35.8	20.6	58 E	52*	16*
4 11	4 51.97	+37 28.2	1.787	1.488	34.1	20.7	56 E	50*	17*
4 16	5 5.60	+37 9.5	1.867	1.517	32.5	20.8	54 E	47*	17*
4 21	5 18.63	+36 49.1	1.943	1.543	30.9	20.9	52 E	45*	17*
4 26	5 31.14	+36 27.2	2.017	1.566	29.3	21.0	50 E	42*	17*
5 1	5 43.22	+36 3.9	2.087	1.587	27.8	21.0	47 E	40*	16*
5 6	5 54.92	+35 39.2	2.153	1.605	26.3	21.1	45 E	37*	16*
5 11	6 6.31	+35 13.4	2.215	1.620	24.9	21.1	42 E	34*	16*
5 16	6 17.42	+34 46.3	2.273	1.633	23.4	21.2	40 E	31*	15*
5 21	6 28.30	+34 18.1	2.327	1.644	22.0	21.2	37 E	29*	15*
5 26	6 38.97	+33 48.6	2.376	1.651	20.6	21.2	35 E	26*	14*
5 31	6 49.46	+33 17.8	2.420	1.657	19.2	21.2	33 E	23*	13*
6 5	6 59.79	+32 45.7	2.459	1.660	17.8	21.2	30 E	21*	12*
6 10	7 10.00	+32 12.2	2.494	1.661	16.4	21.2	28 E	18*	11*
6 15	7 20.10	+31 37.3	2.523	1.659	15.0	21.1	25 E	16*	10*
6 20	7 30.09	+31 0.9	2.546	1.655	13.7	21.1	23 E	14*	8*
6 25	7 40.01	+30 22.9	2.565	1.649	12.3	21.1	20 E	11*	7*
6 30	7 49.87	+29 43.3	2.577	1.640	11.0	21.0	18 E	10*	5*
7 5	7 59.68	+29 1.9	2.585	1.628	9.6	21.0	16 E	8*	4*
7 10	8 9.47	+28 18.7	2.586	1.614	8.4	20.9	13 E	6*	2*
7 15	8 19.24	+27 33.4	2.582	1.598	7.2	20.8	11 E	5*	—
7 20	8 29.02	+26 46.1	2.572	1.579	6.1	20.7	9 E	3*	—
7 25	8 38.82	+25 56.4	2.557	1.557	5.2	20.6	8 E	2*	—
7 30	8 48.67	+25 4.3	2.535	1.533	4.7	20.6	7 E	1*	—
8 4	8 58.59	+24 9.4	2.508	1.506	4.6	20.5	7 E	—	—
8 14	9 18.77	+22 10.5	2.437	1.443	6.0	20.4	9 W	2*	—
8 24	9 39.60	+19 57.0	2.342	1.367	8.6	20.3	12 W	6*	—
9 3	10 1.49	+17 24.7	2.226	1.278	11.7	20.2	15 W	9*	—
9 8	10 12.99	+15 59.8	2.160	1.227	13.5	20.1	16 W	10*	1*
9 13	10 24.99	+14 27.7	2.088	1.173	15.3	20.0	18 W	12*	2*
9 18	10 37.61	+12 47.2	2.012	1.113	17.3	19.9	19 W	13*	3*
9 23	10 51.00	+10 56.6	1.931	1.049	19.3	19.7	20 W	14*	4*
9 28	11 5.37	+ 8 54.0	1.846	0.979	21.5	19.5	21 W	14*	5*
10 3	11 21.00	+ 6 36.7	1.758	0.903	23.8	19.3	21 W	15*	6*
10 8	11 38.29	+ 4 1.4	1.666	0.819	26.3	19.1	21 W	14*	7*
10 13	11 57.80	+ 1 3.8	1.571	0.727	28.8	18.8	21 W	13*	7*
10 18	12 20.37	− 2 21.3	1.476	0.624	31.2	18.4	19 W	11*	7*
10 23	12 47.41	− 6 20.3	1.380	0.507	33.2	17.8	16 W	8*	6*
10 28	13 21.53	−10 59.6	1.283	0.370	33.1	17.0	12 W	3*	3*
11 2	14 8.90	−16 15.8	1.175	0.205	24.6	15.3	5 W	—	—
11 3	14 21.23	−17 17.6	1.147	0.169	21.2	14.7	4 W	—	—
11 4	14 34.95	−18 11.3	1.113	0.133	22.5	14.1	3 W	—	—
11 5	14 49.80	−18 43.1	1.067	0.103	41.1	14.0	4 E	—	—
11 6	15 3.40	−18 25.0	1.005	0.092	79.2	14.8	5 E	—	—
11 7	15 11.83	−17 8.1	0.939	0.110	115.7	16.8	6 E	—	—
11 8	15 15.42	−15 23.7	0.882	0.143	136.5	19.1	6 E	—	—
11 9	15 16.46	−13 33.4	0.837	0.179	145.7	20.8	6 E	—	—
11 10	15 16.27	−11 44.0	0.800	0.216	148.2	21.5	7 E	1*	—

7358 Oze

12 27	16 7.98	−22 55.0	3.118	2.332	12.6	19.8	31 W	13*	22*
1 6	16 28.25	−23 38.1	2.990	2.276	14.9	19.7	37 W	14*	28*
1 16	16 49.17	−24 12.3	2.852	2.219	17.2	19.6	42 W	15*	34*
1 26	17 10.73	−24 36.4	2.706	2.161	19.5	19.5	47 W	16*	40*
2 5	17 32.93	−24 49.3	2.554	2.101	21.8	19.4	52 W	16*	45*
2 15	17 55.76	−24 49.5	2.398	2.039	24.0	19.3	57 W	16*	51*
2 25	18 19.21	−24 35.8	2.238	1.977	26.2	19.1	62 W	16*	56*
3 7	18 43.31	−24 6.6	2.078	1.912	28.4	19.0	66 W	17*	60*
3 17	19 8.10	−23 20.3	1.919	1.847	30.6	18.8	71 W	17*	65*

7358 Oze *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	19 20.75	−22 50.1	1.840	1.814	31.6	18.7	73 W	18*	67*
3 27	19 33.60	−22 14.9	1.762	1.781	32.7	18.6	75 W	18*	69*
4 1	19 46.65	−21 34.4	1.685	1.748	33.8	18.5	77 W	18*	70*
4 6	19 59.92	−20 48.3	1.610	1.714	34.9	18.3	78 W	19*	72*
4 11	20 13.42	−19 56.2	1.536	1.680	36.0	18.2	80 W	19*	74*
4 16	20 27.18	−18 57.7	1.464	1.647	37.1	18.1	81 W	20*	75*
4 21	20 41.21	−17 52.4	1.393	1.613	38.2	18.0	83 W	20*	76*
4 26	20 55.54	−16 40.1	1.325	1.579	39.3	17.9	84 W	21*	76*
5 1	21 10.20	−15 20.0	1.260	1.546	40.5	17.7	85 W	22*	77*
5 6	21 25.24	−13 51.9	1.197	1.512	41.7	17.6	86 W	23*	76*
5 11	21 40.68	−12 15.4	1.137	1.479	43.0	17.5	87 W	24*	75*
5 16	21 56.56	−10 30.1	1.081	1.447	44.3	17.4	87 W	25*	74*
5 26	22 29.79	− 6 32.3	0.978	1.383	47.1	17.1	88 W	28*	71*
6 5	23 5.31	− 1 58.6	0.891	1.322	50.1	16.9	88 W	32*	66
6 15	23 43.37	+ 3 5.6	0.820	1.265	53.2	16.7	86 W	36*	61
6 20	0 3.40	+ 5 45.6	0.792	1.239	54.9	16.7	86 W	38*	58
6 25	0 24.11	+ 8 27.9	0.768	1.214	56.4	16.6	85 W	41*	56
6 30	0 45.48	+11 10.0	0.749	1.191	58.0	16.5	83 W	43*	53
7 5	1 7.45	+13 48.9	0.735	1.170	59.4	16.5	82 W	45*	50
7 10	1 29.94	+16 21.3	0.724	1.151	60.7	16.5	81 W	47*	48
7 15	1 52.82	+18 44.3	0.718	1.135	61.8	16.5	80 W	49*	45*
7 20	2 15.98	+20 55.2	0.715	1.121	62.7	16.4	79 W	51*	43*
7 25	2 39.26	+22 52.0	0.716	1.110	63.4	16.5	78 W	53*	41*
7 30	3 2.49	+24 33.4	0.719	1.101	63.8	16.5	77 W	55*	39*
8 4	3 25.50	+25 58.7	0.725	1.096	64.0	16.5	76 W	56*	38*
8 9	3 48.09	+27 7.6	0.732	1.094	63.9	16.5	76 W	57*	36*
8 14	4 10.10	+28 0.7	0.741	1.095	63.6	16.5	75 W	59*	35*
8 19	4 31.38	+28 38.9	0.750	1.099	63.1	16.5	76 W	60*	34*
8 24	4 51.81	+29 3.5	0.760	1.106	62.4	16.5	76 W	61*	34*
8 29	5 11.29	+29 15.9	0.769	1.116	61.6	16.6	76 W	62*	33*
9 3	5 29.75	+29 17.7	0.778	1.129	60.6	16.6	77 W	64*	33*
9 8	5 47.11	+29 10.3	0.786	1.144	59.5	16.6	78 W	65*	33*
9 13	6 3.31	+28 55.2	0.793	1.162	58.4	16.6	79 W	66*	33*
9 18	6 18.34	+28 33.9	0.799	1.182	57.1	16.6	81 W	67*	34*
9 23	6 32.19	+28 7.7	0.803	1.204	55.8	16.7	83 W	69*	34*
10 3	6 56.22	+27 5.4	0.806	1.254	52.8	16.7	87 W	70*	35*
10 13	7 15.21	+25 56.8	0.803	1.310	49.6	16.7	93 W	71*	37*
10 23	7 28.92	+24 49.0	0.793	1.370	45.8	16.6	99 W	70	39*
11 2	7 37.07	+23 47.1	0.779	1.433	41.4	16.6	107 W	69	40*
11 12	7 39.23	+22 55.1	0.764	1.498	36.1	16.5	117 W	68	41
11 22	7 35.26	+22 14.5	0.752	1.565	30.0	16.4	128 W	67	42
12 2	7 25.43	+21 44.2	0.749	1.632	22.9	16.2	140 W	67	42
12 7	7 18.62	+21 32.0	0.753	1.666	19.0	16.2	147 W	67	42
12 12	7 10.87	+21 21.1	0.761	1.700	15.0	16.1	153 W	66	43
12 17	7 2.51	+21 11.0	0.775	1.733	11.0	16.0	160 W	66	43
12 22	6 53.88	+21 1.4	0.794	1.767	7.0	16.0	167 W	66	43
12 27	6 45.32	+20 52.1	0.819	1.800	3.2	15.9	174 W	66	43
1 1	6 37.17	+20 43.1	0.850	1.833	1.5	15.9	177 E	66	43
1 6	6 29.72	+20 34.5	0.888	1.866	4.6	16.2	171 E	66	43
1 11	6 23.20	+20 26.7	0.932	1.899	7.8	16.5	165 E	65	44
1 16	6 17.74	+20 19.7	0.982	1.931	10.8	16.8	158 E	65	44
1 21	6 13.41	+20 13.8	1.037	1.963	13.4	17.0	152 E	65	44

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 9.51	− 4 30.0	2.589	1.904	18.3	21.0	37 W	29*	14*
1 6	16 30.52	− 5 44.4	2.574	1.949	19.5	21.1	41 W	30*	21*
1 16	16 50.53	− 6 46.1	2.550	1.995	20.7	21.2	46 W	31*	27*
1 26	17 9.43	− 7 36.1	2.517	2.041	21.9	21.2	51 W	32*	34*
2 5	17 27.12	− 8 15.7	2.474	2.087	23.0	21.3	56 W	32*	41*
2 15	17 43.47	− 8 46.4	2.421	2.134	24.0	21.3	61 W	32*	48*
2 25	17 58.33	− 9 10.2	2.359	2.181	24.8	21.3	67 W	33*	55*
3 7	18 11.53	− 9 29.3	2.289	2.228	25.3	21.3	74 W	33*	61*
3 17	18 22.88	− 9 45.8	2.211	2.275	25.6	21.3	81 W	33*	67*
3 27	18 32.15	−10 2.4	2.128	2.322	25.4	21.2	88 W	34*	72*
4 6	18 39.11	−10 21.9	2.042	2.368	24.8	21.2	96 W	34*	74
4 16	18 43.48	−10 47.2	1.956	2.414	23.7	21.1	105 W	34*	75
4 26	18 44.99	−11 21.0	1.872	2.459	22.0	21.0	114 W	34*	75
5 6	18 43.47	−12 5.9	1.797	2.503	19.5	20.9	124 W	33	76
5 16	18 38.82	−13 3.3	1.734	2.547	16.4	20.7	135 W	32	77
5 26	18 31.20	−14 13.3	1.688	2.591	12.6	20.6	146 W	31	78
6 5	18 21.12	−15 33.9	1.666	2.633	8.4	20.4	158 W	29	80
6 10	18 15.40	−16 17.0	1.664	2.654	6.1	20.3	164 W	29	80
6 15	18 9.41	−17 1.1	1.670	2.675	4.0	20.2	169 W	28	81
6 20	18 3.30	−17 45.6	1.683	2.696	2.3	20.1	174 W	27	82
6 25	17 57.24	−18 30.0	1.704	2.716	2.4	20.2	174 E	26	83
6 30	17 51.35	−19 13.5	1.732	2.736	4.1	20.3	169 E	26	83
7 5	17 45.79	−19 55.8	1.767	2.757	6.1	20.5	163 E	25	84
7 10	17 40.67	−20 36.6	1.809	2.776	8.0	20.7	158 E	24	85
7 15	17 36.11	−21 15.5	1.858	2.796	9.9	20.8	152 E	24	85

450274 2004 BQ_{102} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 20	17 32.17	−21 52.6	1.913	2.815	11.6	21.0	146 E	23	86
7 25	17 28.90	−22 27.9	1.974	2.835	13.1	21.1	141 E	23	86
7 30	17 26.33	−23 1.2	2.039	2.854	14.4	21.2	135 E	22	87
8 4	17 24.48	−23 32.7	2.110	2.872	15.6	21.4	130 E	21	88
8 9	17 23.33	−24 2.6	2.184	2.891	16.6	21.5	125 E	21	88

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 9.78	−29 36.0	2.738	1.955	14.8	19.0	30 W	7*	24*
1 6	16 34.85	−30 11.3	2.670	1.947	16.8	19.0	35 W	8*	28*
1 16	17 0.01	−30 31.4	2.594	1.937	18.8	19.0	39 W	8*	33*
1 26	17 25.10	−30 35.6	2.509	1.927	20.8	18.9	44 W	9*	38*
2 5	17 49.96	−30 23.4	2.418	1.915	22.7	18.9	49 W	9*	43*
2 15	18 14.45	−29 54.7	2.320	1.903	24.6	18.9	53 W	10*	47*
2 25	18 38.36	−29 9.7	2.216	1.890	26.4	18.8	58 W	11*	52*
3 7	19 1.57	−28 8.5	2.107	1.875	28.1	18.7	63 W	12*	57*
3 17	19 23.91	−26 51.7	1.994	1.860	29.7	18.6	68 W	13*	62*
3 27	19 45.25	−25 19.6	1.878	1.844	31.1	18.5	73 W	14*	67*
4 6	20 5.47	−23 32.8	1.759	1.828	32.3	18.4	78 W	16*	72*
4 16	20 24.42	−21 31.8	1.640	1.810	33.4	18.3	83 W	18*	77*
4 26	20 41.96	−19 16.7	1.521	1.793	34.1	18.1	88 W	20*	81*
5 6	20 57.94	−16 47.7	1.403	1.774	34.6	17.9	93 W	23*	81*
5 16	21 12.14	−14 4.8	1.287	1.755	34.7	17.7	99 W	27*	78
5 26	21 24.28	−11 7.6	1.175	1.736	34.4	17.5	105 W	31*	75
6 5	21 34.07	− 7 56.0	1.069	1.716	33.5	17.2	111 W	35*	72
6 15	21 41.04	− 4 29.9	0.969	1.697	32.1	16.9	117 W	40*	68
6 25	21 44.67	− 0 50.8	0.878	1.677	30.0	16.6	124 W	44	65
7 5	21 44.45	+ 2 58.3	0.798	1.657	27.3	16.3	132 W	48	61
7 10	21 42.73	+ 4 54.4	0.763	1.647	25.8	16.2	135 W	50	59
7 15	21 39.87	+ 6 49.7	0.731	1.638	24.2	16.0	139 W	52	57
7 20	21 35.91	+ 8 42.3	0.703	1.628	22.7	15.9	142 W	54	55
7 25	21 30.88	+10 30.3	0.679	1.619	21.2	15.7	145 W	56	53
7 30	21 24.90	+12 11.2	0.660	1.609	20.1	15.6	147 W	57	52
8 4	21 18.11	+13 42.4	0.644	1.600	19.3	15.5	149 W	59	50
8 9	21 10.76	+15 1.6	0.634	1.591	19.2	15.5	149 E	60	49
8 14	21 3.17	+16 7.0	0.627	1.582	19.6	15.5	148 E	61	48
8 19	20 55.67	+16 57.4	0.625	1.573	20.5	15.5	147 E	62	47
8 24	20 48.60	+17 33.0	0.626	1.565	21.9	15.5	145 E	63	46
8 29	20 42.26	+17 54.0	0.631	1.556	23.6	15.6	142 E	63	46
9 3	20 36.91	+18 1.9	0.640	1.548	25.4	15.6	139 E	63	46
9 8	20 32.76	+17 58.2	0.651	1.541	27.3	15.7	135 E	63	46
9 13	20 29.95	+17 45.3	0.665	1.533	29.2	15.8	132 E	63	46
9 18	20 28.56	+17 25.4	0.681	1.526	31.0	15.9	129 E	62	47
9 23	20 28.57	+17 0.6	0.700	1.519	32.6	16.0	125 E	62	47
9 28	20 29.95	+16 32.6	0.719	1.513	34.1	16.1	122 E	62	47
10 3	20 32.66	+16 3.1	0.740	1.507	35.5	16.2	119 E	61	48
10 8	20 36.62	+15 33.2	0.762	1.501	36.7	16.3	116 E	61	48
10 13	20 41.75	+15 4.3	0.786	1.496	37.7	16.4	114 E	60	49
10 18	20 47.98	+14 37.4	0.810	1.491	38.6	16.5	111 E	60	49
10 23	20 55.18	+14 13.0	0.834	1.487	39.4	16.5	108 E	59	50
10 28	21 3.29	+13 51.7	0.860	1.483	40.1	16.6	106 E	59	50
11 2	21 12.22	+13 33.8	0.886	1.479	40.7	16.7	104 E	59	50*
11 12	21 32.27	+13 9.5	0.940	1.474	41.5	16.8	100 E	58	50*
11 22	21 54.76	+13 1.5	0.997	1.470	41.9	17.0	96 E	58	48*
12 2	22 19.18	+13 9.4	1.056	1.469	42.1	17.1	92 E	58	45*
12 12	22 45.15	+13 32.0	1.119	1.470	42.0	17.2	88 E	59	42*
12 22	23 12.27	+14 7.7	1.185	1.472	41.7	17.3	85 E	59	39*
1 1	23 40.25	+14 53.6	1.254	1.477	41.2	17.5	82 E	60*	36*
1 11	0 8.87	+15 47.0	1.327	1.483	40.5	17.6	78 E	60*	34*
1 21	0 37.90	+16 44.9	1.403	1.492	39.6	17.7	75 E	60*	32*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 9.93	−23 5.5	2.738	1.957	14.8	21.2	31 W	12*	22*
1 6	16 35.62	−24 4.7	2.648	1.925	17.0	21.1	35 W	13*	26*
1 16	17 2.04	−24 49.0	2.555	1.894	19.1	21.1	39 W	13*	31*
1 26	17 29.06	−25 17.0	2.459	1.864	21.1	21.0	43 W	13*	36*
2 5	17 56.55	−25 27.4	2.362	1.836	23.1	21.0	47 W	13*	40*
2 15	18 24.33	−25 19.2	2.263	1.808	25.0	20.9	51 W	13*	44*
2 25	18 52.20	−24 52.0	2.165	1.783	26.9	20.8	55 W	13*	48*
3 7	19 19.95	−24 5.8	2.067	1.759	28.6	20.8	58 W	14*	52*
3 17	19 47.40	−23 1.3	1.971	1.738	30.3	20.7	62 W	14*	56*
3 27	20 14.33	−21 39.6	1.876	1.718	31.8	20.6	65 W	15*	59*
4 6	20 40.59	−20 2.4	1.784	1.701	33.3	20.5	69 W	15*	63*
4 16	21 6.04	−18 11.8	1.694	1.687	34.5	20.4	72 W	16*	66*
4 26	21 30.53	−16 10.2	1.607	1.676	35.6	20.3	76 W	18*	69*
5 6	21 53.95	−14 0.4	1.523	1.667	36.5	20.2	80 W	20*	72*
5 16	22 16.18	−11 45.2	1.441	1.662	37.2	20.1	83 W	22*	74*
5 26	22 37.07	− 9 27.9	1.362	1.660	37.6	20.0	87 W	25*	73*
6 5	22 56.49	− 7 11.4	1.285	1.660	37.6	19.9	92 W	29*	71
6 15	23 14.20	− 4 59.0	1.211	1.664	37.3	19.7	96 W	33*	69
6 25	23 29.94	− 2 54.0	1.140	1.671	36.6	19.6	101 W	37*	67
7 5	23 43.41	− 0 59.4	1.073	1.681	35.3	19.4	107 W	42*	65

170178 2003 MR_2 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 15	23 54.17	+ 0 41.2	1.009	1.694	33.4	19.3	114 W	45*	63
7 25	0 1.79	+ 2 4.4	0.950	1.709	30.7	19.1	121 W	47	62
8 4	0 5.86	+ 3 7.1	0.899	1.728	27.2	18.9	129 W	48	61
8 14	0 6.04	+ 3 46.0	0.857	1.748	22.7	18.7	138 W	49	60
8 24	0 2.43	+ 3 59.4	0.828	1.771	17.4	18.4	148 W	49	60
9 3	23 55.61	+ 3 48.4	0.815	1.795	11.3	18.2	160 W	49	60
9 8	23 51.35	+ 3 34.8	0.816	1.808	8.2	18.1	165 W	49	60
9 13	23 46.79	+ 3 17.2	0.821	1.822	5.1	18.0	171 W	48	61
9 18	23 42.17	+ 2 56.8	0.832	1.835	2.7	17.9	175 W	48	61
9 23	23 37.70	+ 2 34.9	0.849	1.850	3.3	18.0	174 E	48	61
9 28	23 33.58	+ 2 12.8	0.871	1.864	5.9	18.2	169 E	47	62
10 3	23 29.98	+ 1 51.7	0.898	1.879	8.7	18.4	163 E	47	62
10 8	23 27.05	+ 1 32.8	0.930	1.894	11.4	18.6	158 E	47	62
10 13	23 24.89	+ 1 16.9	0.968	1.909	14.0	18.8	152 E	46	63
10 23	23 23.05	+ 0 56.8	1.057	1.941	18.3	19.2	142 E	46	63
11 2	23 24.49	+ 0 53.9	1.162	1.973	21.7	19.6	133 E	46	63
11 12	23 28.93	+ 1 8.5	1.280	2.006	24.2	19.9	124 E	46	63
11 22	23 35.97	+ 1 39.5	1.409	2.040	25.9	20.2	115 E	47	62
12 2	23 45.12	+ 2 24.6	1.547	2.073	26.9	20.4	108 E	47	62*
12 12	23 56.00	+ 3 21.8	1.692	2.107	27.3	20.7	101 E	48	59*
12 22	0 8.26	+ 4 28.9	1.841	2.141	27.3	20.9	94 E	49	55*
1 1	0 21.62	+ 5 43.7	1.993	2.176	26.8	21.1	87 E	51	50*
1 11	0 35.88	+ 7 4.5	2.146	2.210	26.0	21.3	81 E	52	45*
1 21	0 50.85	+ 8 29.4	2.298	2.243	25.0	21.4	74 E	53*	40*

38066 1999 FO_{19}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 10.48	−23 35.2	2.415	1.645	17.6	19.3	30 W	12*	22*
1 1	16 25.87	−24 11.9	2.372	1.624	18.7	19.3	32 W	12*	23*
1 6	16 41.63	−24 43.6	2.330	1.603	19.7	19.3	33 W	12*	25*
1 11	16 57.74	−25 9.6	2.288	1.583	20.8	19.2	35 W	12*	27*
1 16	17 14.19	−25 29.6	2.246	1.564	21.8	19.2	36 W	12*	29*
1 21	17 30.94	−25 43.0	2.205	1.545	22.8	19.1	37 W	11*	30*
1 26	17 47.95	−25 49.6	2.165	1.527	23.8	19.1	39 W	11*	32*
1 31	18 5.20	−25 48.9	2.126	1.509	24.8	19.1	40 W	11*	33*
2 5	18 22.63	−25 40.7	2.088	1.492	25.7	19.0	41 W	11*	35*
2 10	18 40.21	−25 24.7	2.051	1.476	26.7	19.0	42 W	11*	36*
2 15	18 57.88	−25 0.9	2.015	1.461	27.6	19.0	43 W	10*	37*
2 25	19 33.24	−23 49.4	1.948	1.433	29.3	18.9	45 W	10*	39*
3 7	20 8.33	−22 7.0	1.888	1.410	30.9	18.9	47 W	10*	41*
3 17	20 42.78	−19 56.2	1.833	1.391	32.4	18.8	49 W	10*	43*
3 27	21 16.30	−17 20.7	1.784	1.377	33.8	18.8	50 W	11*	44*
4 6	21 48.73	−14 25.2	1.742	1.368	35.0	18.7	52 W	11*	46*
4 16	22 19.95	−11 15.0	1.704	1.365	36.1	18.7	53 W	12*	47*
4 26	22 49.93	− 7 55.6	1.671	1.367	37.0	18.7	55 W	13*	49*
5 6	23 18.70	− 4 32.1	1.641	1.375	37.8	18.7	57 W	15*	50*
5 16	23 46.30	− 1 9.4	1.613	1.389	38.5	18.7	59 W	17*	51*
5 26	0 12.76	+ 2 8.2	1.586	1.407	39.0	18.7	61 W	20*	52*
6 5	0 38.11	+ 5 17.6	1.559	1.430	39.4	18.7	63 W	24*	52*
6 15	1 2.34	+ 8 15.9	1.530	1.457	39.7	18.7	66 W	28*	52*
6 25	1 25.38	+11 1.2	1.499	1.488	39.8	18.7	70 W	33*	51*
7 5	1 47.15	+13 32.4	1.464	1.522	39.7	18.7	73 W	39*	50*
7 15	2 7.48	+15 48.5	1.426	1.559	39.5	18.7	77 W	45*	48*
7 25	2 26.12	+17 49.3	1.383	1.599	39.0	18.7	82 W	51*	46
8 4	2 42.79	+19 35.1	1.337	1.639	38.2	18.6	87 W	57*	44
8 14	2 57.07	+21 6.1	1.287	1.682	37.0	18.6	93 W	63*	43
8 24	3 8.51	+22 22.6	1.235	1.725	35.3	18.5	100 W	67*	42
9 3	3 16.58	+23 24.8	1.183	1.769	33.0	18.4	107 W	68	41
9 13	3 20.71	+24 11.9	1.132	1.814	29.9	18.3	116 W	69	40
9 23	3 20.45	+24 42.1	1.086	1.858	26.1	18.1	126 W	70	39
10 3	3 15.61	+24 52.8	1.050	1.903	21.3	17.9	136 W	70	39
10 13	3 6.52	+24 40.7	1.029	1.947	15.8	17.8	148 W	70	39
10 18	3 0.71	+24 25.6	1.025	1.969	12.9	17.7	154 W	69	40
10 23	2 54.33	+24 4.7	1.027	1.991	9.8	17.6	160 W	69	40
10 28	2 47.62	+23 38.5	1.034	2.013	6.9	17.5	166 W	69	40
11 2	2 40.83	+23 7.8	1.048	2.035	4.4	17.4	171 W	68	41
11 7	2 34.22	+22 34.0	1.069	2.056	3.5	17.4	173 E	68	41
11 12	2 28.04	+21 58.3	1.096	2.077	4.9	17.6	170 E	67	42
11 17	2 22.50	+21 22.4	1.129	2.098	7.3	17.8	164 E	66	43
11 22	2 17.73	+20 47.6	1.169	2.119	9.8	18.0	158 E	66	43
11 27	2 13.82	+20 15.2	1.215	2.140	12.2	18.2	153 E	65	44
12 2	2 10.83	+19 45.9	1.266	2.160	14.4	18.4	147 E	65	44
12 12	2 7.65	+18 59.6	1.383	2.200	18.1	18.8	136 E	64	45
12 22	2 8.01	+18 31.5	1.516	2.240	20.8	19.1	126 E	64	45
1 1	2 11.44	+18 20.7	1.662	2.278	22.7	19.4	117 E	63	46
1 11	2 17.50	+18 25.3	1.817	2.315	23.9	19.6	108 E	63	45*
1 21	2 25.74	+18 42.5	1.978	2.351	24.4	19.9	100 E	64	43*

138815 2000 TQ_{64}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 27	16 11.37	−23 11.3	2.079	1.327	22.0	21.2	30 W	12*	21*
1 1	16 30.10	−24 14.3	2.059	1.317	22.6	21.1	31 W	11*	23*
1 6	16 49.20	−25 9.4	2.039	1.309	23.2	21.1	32 W	11*	24*
1 11	17 8.64	−25 55.8	2.022	1.302	23.8	21.1	32 W	10*	25*
1 16	17 28.33	−26 33.1	2.006	1.297	24.4	21.1	33 W	9*	26*
1 21	17 48.20	−27 0.8	1.992	1.294	24.9	21.1	34 W	8*	27*
1 26	18 8.15	−27 18.6	1.980	1.293	25.4	21.1	34 W	8*	28*
1 31	18 28.10	−27 26.3	1.970	1.293	25.9	21.1	35 W	7*	29*
2 5	18 47.95	−27 24.2	1.960	1.295	26.4	21.1	36 W	6*	30*
2 10	19 7.61	−27 12.3	1.953	1.298	26.8	21.1	36 W	6*	30*
2 15	19 27.00	−26 51.2	1.946	1.303	27.2	21.1	37 W	5*	31*
2 20	19 46.02	−26 21.4	1.941	1.310	27.6	21.2	38 W	5*	32*
2 25	20 4.62	−25 43.6	1.936	1.318	28.0	21.2	39 W	5*	33*
3 2	20 22.75	−24 58.5	1.932	1.328	28.4	21.2	40 W	4*	33*
3 7	20 40.37	−24 6.9	1.929	1.339	28.7	21.2	40 W	4*	34*
3 12	20 57.45	−23 9.6	1.926	1.352	29.1	21.3	41 W	4*	35*
3 17	21 13.97	−22 7.6	1.924	1.366	29.4	21.3	42 W	4*	36*
3 22	21 29.92	−21 1.6	1.921	1.381	29.8	21.3	44 W	4*	37*
3 27	21 45.31	−19 52.5	1.918	1.397	30.1	21.3	45 W	4*	38*
4 1	22 0.14	−18 40.8	1.915	1.415	30.5	21.4	46 W	5*	40*
4 6	22 14.43	−17 27.5	1.911	1.433	30.8	21.4	47 W	5*	41*
4 11	22 28.20	−16 13.0	1.906	1.452	31.1	21.4	49 W	5*	42*
4 16	22 41.45	−14 57.9	1.901	1.472	31.5	21.5	50 W	6*	44*

35368 1997 UB_8

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 12.05	−11 26.9	3.816	3.044	10.3	20.6	33 W	22*	17*
1 6	16 25.79	−11 23.3	3.735	3.049	12.0	20.6	40 W	25*	24*
1 16	16 39.05	−11 10.5	3.639	3.054	13.6	20.6	47 W	28*	32*
1 26	16 51.68	−10 48.2	3.531	3.058	15.1	20.6	54 W	30*	39*
2 5	17 3.54	−10 16.2	3.413	3.060	16.4	20.6	61 W	32*	47*
2 15	17 14.48	− 9 34.4	3.285	3.062	17.5	20.5	68 W	34*	54*
2 25	17 24.30	− 8 42.6	3.150	3.063	18.3	20.5	76 W	35*	61*
3 7	17 32.82	− 7 41.1	3.010	3.062	18.8	20.4	84 W	37*	67*
3 17	17 39.81	− 6 30.2	2.869	3.061	19.0	20.3	92 W	38*	70*
3 27	17 45.05	− 5 10.8	2.729	3.059	18.8	20.2	100 W	40*	69
4 6	17 48.34	− 3 43.8	2.594	3.056	18.1	20.0	108 W	41	68
4 16	17 49.45	− 2 11.1	2.466	3.051	17.1	19.9	117 W	43	66
4 26	17 48.25	− 0 35.4	2.351	3.046	15.6	19.7	125 W	44	65
5 6	17 44.70	+ 0 59.8	2.252	3.040	13.8	19.6	134 W	46	63
5 16	17 38.91	+ 2 29.8	2.172	3.032	11.9	19.4	142 W	47	62
5 21	17 35.27	+ 3 11.1	2.141	3.028	11.0	19.3	145 W	48	61
5 26	17 31.22	+ 3 49.0	2.115	3.024	10.1	19.3	148 W	49	60
5 31	17 26.84	+ 4 22.9	2.096	3.020	9.5	19.2	150 W	49	60
6 5	17 22.21	+ 4 52.3	2.084	3.015	9.2	19.2	152 W	50	59
6 15	17 12.62	+ 5 35.3	2.078	3.005	9.5	19.2	151 E	51	58
6 25	17 3.34	+ 5 55.7	2.097	2.994	11.0	19.3	146 E	51	58
7 5	16 55.15	+ 5 53.6	2.140	2.981	13.0	19.4	139 E	51	58
7 15	16 48.69	+ 5 31.2	2.204	2.968	15.1	19.5	131 E	51	58
7 25	16 44.38	+ 4 52.2	2.284	2.954	16.9	19.6	122 E	50	59
8 4	16 42.39	+ 4 0.8	2.378	2.939	18.4	19.8	114 E	49*	60
8 14	16 42.73	+ 3 1.0	2.480	2.923	19.5	19.9	106 E	48*	61
8 24	16 45.31	+ 1 56.3	2.588	2.906	20.2	20.0	98 E	46*	62
9 3	16 49.94	+ 0 49.9	2.698	2.888	20.4	20.1	90 E	44*	63*
9 13	16 56.47	− 0 16.0	2.808	2.869	20.4	20.1	83 E	42*	62*
9 23	17 4.68	− 1 19.1	2.915	2.849	20.0	20.2	76 E	40*	58*
10 3	17 14.40	− 2 18.0	3.017	2.828	19.4	20.2	70 E	38*	53*
10 13	17 25.47	− 3 11.2	3.112	2.806	18.5	20.3	63 E	36*	48*
10 23	17 37.72	− 3 57.6	3.199	2.783	17.4	20.3	57 E	34*	41*
11 2	17 51.01	− 4 36.2	3.277	2.759	16.2	20.3	51 E	32*	34*
11 12	18 5.23	− 5 6.2	3.343	2.735	14.8	20.2	45 E	30*	27*
11 22	18 20.25	− 5 27.0	3.399	2.709	13.4	20.2	39 E	28*	20*
12 2	18 35.95	− 5 37.9	3.442	2.682	11.9	20.1	34 E	25*	13*
12 12	18 52.25	− 5 38.6	3.473	2.655	10.4	20.1	29 E	22*	7*
12 22	19 9.02	− 5 28.8	3.491	2.627	8.9	20.0	24 E	18*	—
1 1	19 26.19	− 5 8.4	3.496	2.598	7.6	19.9	21 E	14*	—
1 11	19 43.68	− 4 37.4	3.487	2.568	6.7	19.9	18 E	9*	—
1 21	20 1.39	− 3 56.1	3.467	2.537	6.2	19.8	16 W	7*	—

89776 2002 AL_{90}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 12.47	− 4 45.5	3.634	2.905	11.7	20.5	37 W	28*	14*
1 6	16 26.65	− 4 56.4	3.569	2.923	13.2	20.6	43 W	31*	21*
1 16	16 40.26	− 4 57.3	3.491	2.940	14.6	20.6	49 W	34*	29*
1 26	16 53.16	− 4 48.2	3.401	2.956	15.9	20.6	55 W	36*	36*
2 5	17 5.22	− 4 29.3	3.301	2.971	17.1	20.6	62 W	37*	44*
2 15	17 16.26	− 4 1.0	3.192	2.985	18.0	20.5	69 W	39*	51*
2 25	17 26.09	− 3 23.6	3.076	2.998	18.7	20.5	76 W	40*	57*
3 7	17 34.55	− 2 37.9	2.955	3.010	19.1	20.4	84 W	42*	62*
3 17	17 41.40	− 1 45.0	2.831	3.021	19.2	20.3	91 W	43*	65*
3 27	17 46.44	− 0 46.3	2.708	3.031	19.0	20.2	99 W	44*	65
4 6	17 49.45	+ 0 16.4	2.588	3.040	18.3	20.1	107 W	45	64
4 16	17 50.25	+ 1 20.7	2.475	3.048	17.2	20.0	116 W	46	63

89776 2002 AL_{90} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 26	17 48.71	+ 2 23.2	2.372	3.055	15.8	19.9	124 W	47	62
5 6	17 44.83	+ 3 20.0	2.284	3.062	14.0	19.7	133 W	48	61
5 16	17 38.75	+ 4 6.9	2.215	3.067	12.0	19.6	141 W	49	60
5 26	17 30.85	+ 4 39.0	2.167	3.071	10.2	19.5	148 W	50	59
6 5	17 21.74	+ 4 52.7	2.144	3.075	9.0	19.4	152 W	50	59
6 15	17 12.16	+ 4 45.8	2.146	3.077	9.1	19.4	151 E	50	59
6 25	17 2.98	+ 4 17.9	2.174	3.078	10.3	19.5	147 E	49	60
7 5	16 54.95	+ 3 31.1	2.226	3.079	12.1	19.6	140 E	49	60
7 15	16 48.65	+ 2 28.8	2.300	3.078	14.1	19.8	132 E	47	62
7 25	16 44.44	+ 1 14.9	2.392	3.076	15.9	19.9	124 E	46	63
8 4	16 42.48	− 0 6.3	2.499	3.074	17.4	20.0	115 E	45*	64
8 14	16 42.75	− 1 31.3	2.617	3.070	18.4	20.2	107 E	43*	66
8 24	16 45.15	− 2 57.2	2.742	3.066	19.0	20.3	99 E	41*	67
9 3	16 49.50	− 4 21.7	2.871	3.060	19.2	20.4	91 E	39*	68*
9 13	16 55.62	− 5 43.0	3.001	3.054	19.1	20.5	83 E	36*	67*
9 23	17 3.32	− 6 59.8	3.129	3.046	18.6	20.6	76 E	34*	63*
10 3	17 12.41	− 8 11.0	3.252	3.038	17.9	20.6	69 E	32*	57*
10 13	17 22.74	− 9 15.8	3.368	3.028	16.9	20.6	62 E	30*	50*
10 23	17 34.14	−10 13.6	3.476	3.018	15.7	20.7	55 E	28*	43*
11 2	17 46.48	−11 3.9	3.574	3.007	14.3	20.7	48 E	26*	36*
11 12	17 59.62	−11 46.3	3.659	2.994	12.7	20.7	42 E	24*	29*
11 22	18 13.44	−12 20.4	3.732	2.981	11.0	20.6	35 E	21*	22*
12 2	18 27.84	−12 46.0	3.790	2.967	9.3	20.6	29 E	18*	15*
12 12	18 42.70	−13 3.2	3.834	2.952	7.5	20.5	23 E	15*	8*
12 22	18 57.91	−13 12.0	3.862	2.935	5.6	20.4	17 E	11*	1*
1 1	19 13.40	−13 12.4	3.873	2.918	4.0	20.3	12 E	6*	—
1 11	19 29.05	−13 4.8	3.868	2.900	3.0	20.3	9 E	1*	—
1 21	19 44.79	−12 49.6	3.847	2.881	3.3	20.2	10 W	4*	—

2063 Bacchus

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 12.51	−22 3.9	1.994	1.246	23.4	20.4	30 W	13*	21*
1 6	16 42.98	−23 49.7	1.994	1.289	24.7	20.5	33 W	13*	25*
1 16	17 13.20	−25 12.4	1.983	1.327	26.1	20.6	36 W	12*	29*
1 26	17 43.13	−26 12.9	1.961	1.360	27.6	20.7	40 W	11*	33*
2 5	18 12.75	−26 52.5	1.928	1.388	29.2	20.7	43 W	11*	37*
2 15	18 42.01	−27 12.4	1.885	1.411	30.8	20.7	47 W	10*	41*
2 25	19 10.84	−27 14.2	1.833	1.429	32.4	20.8	51 W	10*	45*
3 7	19 39.23	−26 59.2	1.772	1.443	34.0	20.8	54 W	9*	48*
3 17	20 7.19	−26 29.0	1.703	1.451	35.7	20.7	58 W	9*	52*
3 27	20 34.70	−25 45.1	1.627	1.455	37.2	20.7	62 W	9*	56*
4 6	21 1.86	−24 48.9	1.545	1.453	38.8	20.6	66 W	9*	59*
4 16	21 28.74	−23 41.5	1.459	1.447	40.4	20.5	69 W	9*	63*
4 26	21 55.46	−22 24.1	1.368	1.436	42.0	20.4	73 W	9*	66*
5 6	22 22.22	−20 56.9	1.275	1.420	43.5	20.3	76 W	10*	70*
5 16	22 49.23	−19 20.4	1.180	1.399	45.2	20.1	79 W	11*	73*
5 26	23 16.75	−17 34.1	1.085	1.374	46.9	19.9	82 W	13*	75*
5 31	23 30.83	−16 36.8	1.037	1.359	47.8	19.8	83 W	14*	76*
6 5	23 45.20	−15 36.4	0.990	1.343	48.7	19.7	84 W	15*	77*
6 10	23 59.90	−14 32.7	0.944	1.326	49.7	19.6	85 W	16*	77*
6 15	0 15.00	−13 25.2	0.898	1.308	50.8	19.5	86 W	18*	76*
6 20	0 30.60	−12 13.5	0.853	1.288	51.9	19.4	87 W	19*	76*
6 25	0 46.78	−10 56.8	0.810	1.268	53.2	19.3	87 W	21*	75*
6 30	1 3.68	− 9 34.3	0.768	1.246	54.6	19.2	87 W	23*	73*
7 5	1 21.39	− 8 5.3	0.727	1.223	56.2	19.1	87 W	25*	72*
7 10	1 40.06	− 6 29.1	0.689	1.199	57.9	19.0	87 W	27*	70*
7 15	1 59.83	− 4 44.6	0.652	1.173	59.8	18.9	86 W	29*	69*
7 20	2 20.86	− 2 51.2	0.618	1.147	62.0	18.8	85 W	31*	67*
7 25	2 43.33	− 0 48.2	0.588	1.120	64.4	18.7	84 W	33*	65*
8 4	3 33.26	+ 3 45.2	0.538	1.063	70.1	18.5	80 W	38*	59*
8 14	4 30.35	+ 8 41.6	0.507	1.003	76.6	18.5	74 W	41*	53*
8 24	5 33.95	+13 25.2	0.499	0.941	83.1	18.6	68 W	43*	45*
8 29	6 7.41	+15 26.0	0.506	0.910	86.0	18.6	64 W	43*	41*
9 3	6 41.28	+17 4.4	0.519	0.880	88.4	18.7	61 W	43*	37*
9 8	7 14.98	+18 16.1	0.539	0.850	90.1	18.8	58 W	43*	33*
9 13	7 47.96	+18 59.0	0.566	0.822	91.1	18.9	55 W	42*	30*
9 18	8 19.82	+19 13.2	0.599	0.795	91.2	18.9	52 W	41*	27*
9 23	8 50.30	+19 0.1	0.637	0.770	90.5	19.0	50 W	40*	24*
9 28	9 19.30	+18 21.9	0.681	0.748	88.9	19.0	48 W	39*	22*
10 3	9 46.81	+17 21.4	0.728	0.730	86.6	19.0	47 W	38*	20*
10 8	10 12.89	+16 1.6	0.780	0.716	83.7	19.0	45 W	38*	19*
10 13	10 37.67	+14 25.4	0.834	0.706	80.3	19.0	44 W	37*	18*
10 18	11 1.25	+12 35.7	0.889	0.702	76.6	18.9	43 W	36*	17*
10 23	11 23.79	+10 35.3	0.945	0.702	72.6	19.0	42 W	35*	16*
10 28	11 45.39	+ 8 27.0	1.001	0.708	68.6	19.0	42 W	34*	16*
11 2	12 6.16	+ 6 13.6	1.056	0.719	64.8	19.0	41 W	33*	16*
11 7	12 26.17	+ 3 57.7	1.109	0.734	61.1	19.0	40 W	32*	16*
11 12	12 45.50	+ 1 41.4	1.159	0.754	57.8	19.1	40 W	31*	17*
11 17	13 4.23	− 0 33.3	1.206	0.776	54.8	19.2	40 W	31*	18*
11 22	13 22.43	− 2 45.0	1.250	0.802	52.1	19.2	40 W	30*	18*
11 27	13 40.15	− 4 52.5	1.291	0.829	49.8	19.3	40 W	29*	20*
12 2	13 57.46	− 6 54.8	1.328	0.858	47.9	19.4	40 W	28*	21*

2063 Bacchus *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 12	14 31.01	−10 41.8	1.392	0.918	44.9	19.6	41 W	27*	24*
12 22	15 3.39	−14 3.2	1.441	0.980	42.9	19.7	43 W	25*	28*
1 1	15 34.84	−16 58.5	1.475	1.041	41.7	19.9	45 W	23*	32*
1 11	16 5.51	−19 28.0	1.495	1.099	41.1	20.0	47 W	22*	37*
1 21	16 35.46	−21 33.1	1.502	1.154	40.9	20.1	50 W	20*	41*

446987 2003 *XY*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 13.24	−21 21.8	2.642	1.858	15.4	20.7	30 W	14*	20*
1 6	16 34.96	−23 33.6	2.630	1.910	17.2	20.8	35 W	14*	26*
1 16	16 56.22	−25 33.9	2.609	1.963	18.9	20.9	40 W	13*	33*
1 26	17 16.89	−27 24.2	2.577	2.017	20.4	21.0	46 W	13*	39*
2 5	17 36.84	−29 6.4	2.536	2.071	21.9	21.1	51 W	12*	45*
2 15	17 55.93	−30 42.7	2.486	2.124	23.1	21.1	57 W	11*	51*
2 25	18 13.97	−32 15.6	2.428	2.178	24.0	21.1	64 W	10*	57*
3 7	18 30.78	−33 47.7	2.362	2.231	24.7	21.2	70 W	8*	63*
3 17	18 46.12	−35 22.0	2.290	2.283	25.1	21.1	77 W	7*	69*
3 27	18 59.71	−37 1.2	2.215	2.335	25.2	21.1	84 W	6*	73*
4 6	19 11.25	−38 48.0	2.138	2.387	24.8	21.1	92 W	5*	76*
4 16	19 20.33	−40 44.5	2.062	2.438	24.0	21.0	100 W	3*	75
4 26	19 26.48	−42 51.7	1.990	2.488	22.7	21.0	108 W	2*	73
5 6	19 29.19	−45 8.8	1.926	2.537	20.9	20.9	116 W	—	71
5 16	19 27.89	−47 32.3	1.874	2.585	18.8	20.8	125 W	—	68
5 26	19 22.12	−49 55.1	1.838	2.632	16.4	20.7	133 W	—	66
6 5	19 11.75	−52 7.2	1.821	2.679	14.1	20.6	140 W	—	64
6 15	18 57.25	−53 56.7	1.826	2.724	12.2	20.6	146 W	—	62
6 25	18 40.01	−55 13.1	1.855	2.769	11.3	20.7	148 W	—	61
7 5	18 22.13	−55 51.3	1.909	2.813	11.6	20.8	146 E	—	60
7 15	18 5.90	−55 53.1	1.987	2.855	12.7	20.9	142 E	—	60
7 25	17 53.13	−55 25.9	2.086	2.897	14.3	21.1	135 E	—	61
8 4	17 44.68	−54 39.4	2.204	2.937	15.8	21.3	128 E	—	61

363802 2005 LT_{12}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 13.72	−18 16.4	2.230	1.472	19.9	20.9	31 W	16*	19*
1 6	16 46.71	−17 58.5	2.166	1.448	21.9	20.8	33 W	17*	22*
1 16	17 20.17	−17 13.2	2.105	1.428	23.7	20.8	36 W	18*	25*
1 26	17 53.81	−15 59.7	2.048	1.411	25.5	20.8	38 W	19*	27*
2 5	18 27.33	−14 18.3	1.996	1.397	27.1	20.7	40 W	20*	30*
2 15	19 0.46	−12 10.8	1.949	1.388	28.6	20.7	42 W	21*	32*
2 25	19 32.95	− 9 40.1	1.907	1.382	30.0	20.7	44 W	22*	34*
3 7	20 4.62	− 6 50.5	1.871	1.381	31.1	20.7	46 W	23*	36*
3 17	20 35.36	− 3 46.5	1.840	1.384	32.2	20.7	48 W	24*	38*
3 27	21 5.08	− 0 33.3	1.813	1.391	33.1	20.7	50 W	26*	39*
4 6	21 33.79	+ 2 44.1	1.789	1.402	33.9	20.7	51 W	27*	40*
4 16	22 1.49	+ 6 1.2	1.768	1.417	34.6	20.7	53 W	28*	41*
4 26	22 28.19	+ 9 13.8	1.747	1.436	35.2	20.7	55 W	30*	42*
5 6	22 53.94	+12 18.4	1.725	1.458	35.7	20.8	58 W	32*	42*
5 16	23 18.75	+15 12.6	1.701	1.483	36.2	20.8	60 W	34*	42*
5 26	23 42.59	+17 53.8	1.674	1.510	36.7	20.8	63 W	37*	42*
6 5	0 5.45	+20 20.5	1.642	1.539	37.0	20.8	66 W	40*	42*
6 15	0 27.22	+22 31.4	1.605	1.571	37.3	20.8	70 W	44*	41*
6 25	0 47.78	+24 25.1	1.562	1.603	37.4	20.8	73 W	49*	39*
7 5	1 6.93	+26 1.0	1.513	1.637	37.4	20.8	78 W	54*	38
7 15	1 24.40	+27 17.8	1.458	1.672	37.1	20.7	83 W	60*	37
7 25	1 39.85	+28 14.1	1.398	1.707	36.5	20.7	89 W	66*	36
8 4	1 52.89	+28 48.4	1.334	1.742	35.5	20.6	95 W	71*	35
8 14	2 2.99	+28 58.2	1.266	1.778	33.9	20.5	102 W	74*	35
8 19	2 6.78	+28 52.7	1.232	1.796	32.8	20.4	106 W	74	35
8 24	2 9.65	+28 39.8	1.199	1.814	31.6	20.3	110 W	74	35
8 29	2 11.55	+28 18.8	1.166	1.831	30.1	20.3	114 W	73	36
9 3	2 12.42	+27 49.1	1.134	1.849	28.5	20.2	119 W	73	36
9 8	2 12.22	+27 10.0	1.104	1.866	26.5	20.1	124 W	72	37
9 13	2 10.95	+26 20.8	1.076	1.884	24.3	20.0	130 W	71	38
9 23	2 5.41	+24 10.9	1.031	1.918	19.2	19.8	141 W	69	40
10 3	1 56.47	+21 20.1	1.003	1.952	13.1	19.5	154 W	66	43
10 13	1 45.51	+17 57.2	1.000	1.984	6.5	19.3	167 W	63	46
10 18	1 39.83	+16 9.3	1.008	2.001	3.5	19.2	173 W	61	48
10 23	1 34.34	+14 20.8	1.023	2.016	2.4	19.1	175 E	59	50
10 28	1 29.22	+12 34.7	1.046	2.032	4.7	19.3	170 E	58	51
11 2	1 24.64	+10 53.6	1.075	2.048	7.7	19.6	164 E	56	53
11 7	1 20.75	+ 9 19.7	1.111	2.063	10.5	19.8	158 E	54	55
11 12	1 17.64	+ 7 54.7	1.154	2.078	13.2	20.0	151 E	53	56
11 22	1 13.93	+ 5 34.8	1.255	2.107	17.7	20.3	140 E	51	58
12 2	1 13.49	+ 3 55.7	1.375	2.135	21.1	20.7	129 E	49	60
12 12	1 16.08	+ 2 53.9	1.509	2.161	23.6	21.0	119 E	48	61
12 22	1 21.28	+ 2 23.5	1.652	2.187	25.1	21.2	110 E	47	62
1 1	1 28.67	+ 2 18.2	1.801	2.212	25.9	21.5	101 E	47	61*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	86025 1999 LX_3								
	h m	° ′			°	m	°	°	°
12 27	16 13.89	−29 19.2	2.437	1.654	17.1	19.9	30 W	6*	23*
1 6	16 42.89	−29 11.0	2.404	1.669	18.8	20.0	33 W	8*	26*
1 16	17 11.14	−28 40.3	2.364	1.684	20.5	20.0	37 W	9*	30*
1 26	17 38.43	−27 47.9	2.316	1.700	22.3	20.0	41 W	10*	34*
2 5	18 4.57	−26 34.6	2.262	1.716	24.0	20.1	45 W	12*	39*
2 15	18 29.43	−25 1.7	2.201	1.732	25.7	20.1	50 W	13*	43*
2 25	18 52.87	−23 10.4	2.133	1.749	27.3	20.1	54 W	15*	48*
3 7	19 14.82	−21 2.0	2.059	1.765	28.8	20.1	59 W	17*	53*
3 17	19 35.19	−18 37.6	1.980	1.782	30.1	20.0	64 W	19*	57*
3 27	19 53.88	−15 58.4	1.897	1.799	31.2	20.0	69 W	22*	62*
4 6	20 10.84	−13 5.4	1.810	1.815	32.0	19.9	74 W	25*	66*
4 16	20 25.94	− 9 59.3	1.721	1.831	32.6	19.9	80 W	28*	69*
4 26	20 39.03	− 6 41.3	1.631	1.847	32.9	19.8	85 W	32*	70*
5 6	20 49.95	− 3 12.2	1.542	1.862	32.8	19.7	91 W	36*	67
5 16	20 58.40	+ 0 26.4	1.455	1.877	32.3	19.5	98 W	41*	64
5 26	21 4.09	+ 4 11.9	1.372	1.892	31.3	19.4	104 W	47*	60
6 5	21 6.67	+ 8 0.8	1.295	1.906	29.9	19.3	111 W	52*	56
6 10	21 6.67	+ 9 54.6	1.260	1.913	29.0	19.2	114 W	55*	54
6 15	21 5.75	+11 46.7	1.228	1.919	28.1	19.1	117 W	57	52
6 20	21 3.88	+13 35.8	1.198	1.926	27.0	19.0	121 W	59	50
6 25	21 1.07	+15 20.6	1.171	1.932	25.9	19.0	124 W	60	49
6 30	20 57.31	+16 59.4	1.148	1.938	24.8	18.9	127 W	62	47
7 5	20 52.65	+18 30.5	1.129	1.944	23.7	18.8	130 W	64	45
7 10	20 47.14	+19 52.2	1.113	1.950	22.6	18.8	132 W	65	44
7 15	20 40.93	+21 2.6	1.102	1.955	21.7	18.7	135 W	66	43
7 20	20 34.17	+22 0.4	1.096	1.960	21.0	18.7	136 W	67	42
7 25	20 27.07	+22 44.6	1.093	1.966	20.4	18.7	137 W	68	41
7 30	20 19.85	+23 14.5	1.096	1.971	20.2	18.7	138 E	68	41
8 4	20 12.73	+23 30.2	1.102	1.975	20.2	18.7	138 E	69	40
8 9	20 5.96	+23 32.0	1.113	1.980	20.4	18.7	137 E	69	40
8 14	19 59.76	+23 21.0	1.129	1.984	20.9	18.8	136 E	68	41
8 19	19 54.30	+22 58.6	1.148	1.989	21.5	18.8	134 E	68	41
8 24	19 49.72	+22 26.8	1.172	1.993	22.3	18.9	132 E	67	42
8 29	19 46.09	+21 47.1	1.198	1.996	23.1	19.0	129 E	67	42
9 3	19 43.48	+21 1.5	1.228	2.000	23.9	19.1	126 E	66	43
9 8	19 41.90	+20 11.5	1.262	2.003	24.8	19.2	124 E	65	44
9 13	19 41.34	+19 19.0	1.297	2.006	25.6	19.2	121 E	64	45
9 18	19 41.78	+18 25.2	1.335	2.009	26.3	19.3	118 E	63	46
9 23	19 43.15	+17 31.5	1.375	2.012	27.0	19.4	115 E	63	46
9 28	19 45.40	+16 38.8	1.417	2.014	27.6	19.5	112 E	62	47
10 3	19 48.47	+15 47.8	1.461	2.016	28.1	19.6	109 E	61	48
10 8	19 52.31	+14 59.3	1.506	2.018	28.5	19.7	106 E	60	49
10 13	19 56.86	+14 13.9	1.552	2.020	28.8	19.7	103 E	59	50
10 23	20 7.83	+12 53.7	1.647	2.023	29.2	19.9	97 E	58	50*
11 2	20 20.93	+11 49.3	1.744	2.025	29.3	20.0	91 E	57	49*
11 12	20 35.82	+11 1.8	1.843	2.026	29.2	20.1	86 E	56	46*
11 22	20 52.16	+10 31.6	1.941	2.026	28.7	20.2	80 E	55*	42*
12 2	21 9.66	+10 18.0	2.038	2.025	28.1	20.3	75 E	55*	37*
12 12	21 28.14	+10 20.6	2.134	2.023	27.2	20.4	70 E	54*	32*
12 22	21 47.39	+10 38.1	2.226	2.021	26.2	20.5	65 E	53*	27*
1 1	22 7.26	+11 9.2	2.316	2.017	25.0	20.5	60 E	50*	22*
1 11	22 27.66	+11 52.5	2.400	2.013	23.7	20.5	55 E	48*	17*
1 21	22 48.48	+12 46.1	2.480	2.007	22.3	20.6	51 E	44*	13*
	523808 2007 ML_{24}								
12 27	16 13.91	−36 48.1	0.832	0.505	91.4	20.7	31 W	—	25*
12 29	16 21.95	−37 49.6	0.871	0.514	86.4	20.6	31 W	—	25*
12 31	16 30.64	−38 39.1	0.910	0.524	81.8	20.6	32 W	—	26*
1 2	16 39.87	−39 17.7	0.949	0.534	77.5	20.5	32 W	—	26*
1 4	16 49.47	−39 46.3	0.986	0.546	73.6	20.5	32 W	—	26*
1 6	16 59.34	−40 5.9	1.023	0.559	70.0	20.5	32 W	—	26*
1 8	17 9.37	−40 17.4	1.058	0.572	66.6	20.6	32 W	—	26*
1 10	17 19.47	−40 21.5	1.092	0.586	63.6	20.6	32 W	—	26*
1 12	17 29.57	−40 19.0	1.125	0.601	60.8	20.6	32 W	—	26*
1 14	17 39.59	−40 10.6	1.156	0.615	58.3	20.7	32 W	—	25*
1 16	17 49.49	−39 56.9	1.186	0.630	56.0	20.7	32 W	—	25*
1 18	17 59.24	−39 38.5	1.215	0.645	53.9	20.7	32 W	—	25*
1 20	18 8.81	−39 15.9	1.242	0.661	52.0	20.8	32 W	—	25*
1 22	18 18.17	−38 49.5	1.268	0.676	50.2	20.8	32 W	—	25*
1 24	18 27.32	−38 19.8	1.292	0.691	48.7	20.9	32 W	—	25*
1 26	18 36.25	−37 47.0	1.315	0.706	47.3	20.9	32 W	—	25*
1 31	18 57.59	−36 14.0	1.368	0.743	44.4	21.0	32 W	—	25*
2 5	19 17.59	−34 28.2	1.412	0.778	42.2	21.1	32 W	—	25*
2 10	19 36.34	−32 32.6	1.450	0.811	40.6	21.3	32 W	—	26*
2 15	19 53.97	−30 29.3	1.480	0.843	39.5	21.3	33 W	—	26*
2 20	20 10.63	−28 19.7	1.505	0.872	38.7	21.4	33 W	—	27*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	436775 2012 LC_1								
	h m	° ′			°	m	°	°	°
12 27	16 14.00	−11 22.5	1.574	0.922	35.5	18.8	33 W	22*	16*
1 1	16 25.50	−12 59.5	1.628	0.993	34.3	19.0	35 W	22*	19*
1 6	16 36.43	−14 28.8	1.675	1.063	33.5	19.2	37 W	22*	23*
1 11	16 46.83	−15 51.4	1.714	1.131	33.0	19.3	39 W	21*	26*
1 16	16 56.72	−17 8.0	1.746	1.198	32.8	19.5	41 W	21*	30*
1 21	17 6.11	−18 19.4	1.772	1.263	32.7	19.6	44 W	20*	34*
1 26	17 15.01	−19 26.5	1.792	1.327	32.7	19.8	47 W	20*	37*
2 5	17 31.34	−21 30.5	1.814	1.449	32.8	20.0	53 W	19*	45*
2 15	17 45.65	−23 25.4	1.816	1.566	32.9	20.2	60 W	18*	53*
2 25	17 57.73	−25 16.3	1.798	1.677	32.9	20.3	67 W	17*	61*
3 7	18 7.35	−27 7.6	1.766	1.783	32.5	20.4	75 W	16*	69*
3 17	18 14.11	−29 3.5	1.721	1.884	31.6	20.4	83 W	15*	77*
3 27	18 17.49	−31 7.3	1.669	1.981	30.2	20.4	92 W	13*	84*
4 1	18 17.73	−32 12.6	1.641	2.027	29.3	20.4	97 W	13*	84
4 6	18 16.88	−33 20.4	1.614	2.073	28.1	20.4	102 W	12*	83
4 11	18 14.87	−34 30.3	1.587	2.117	26.8	20.3	108 W	10*	81
4 16	18 11.58	−35 41.9	1.561	2.160	25.3	20.3	113 W	9	80
4 21	18 6.96	−36 54.1	1.539	2.203	23.6	20.3	119 W	8	79
4 26	18 0.95	−38 5.9	1.519	2.244	21.8	20.2	124 W	7	78
5 1	17 53.54	−39 15.8	1.504	2.285	19.8	20.2	130 W	6	77
5 6	17 44.76	−40 21.8	1.493	2.325	17.6	20.1	136 W	5	76
5 11	17 34.70	−41 21.9	1.489	2.363	15.5	20.1	141 W	4	75
5 16	17 23.56	−42 14.1	1.491	2.401	13.3	20.0	147 W	3	74
5 21	17 11.60	−42 56.7	1.500	2.439	11.4	20.0	152 W	2	73
5 26	16 59.16	−43 28.4	1.517	2.475	9.8	20.0	155 W	2	73
5 31	16 46.62	−43 48.8	1.542	2.510	8.8	20.0	158 W	1	72
6 5	16 34.35	−43 58.0	1.575	2.545	8.5	20.1	158 E	1	72
6 10	16 22.69	−43 57.0	1.615	2.579	9.0	20.2	157 E	1	72
6 15	16 11.94	−43 47.3	1.663	2.612	10.0	20.3	154 E	1	72
6 20	16 2.31	−43 30.6	1.718	2.645	11.2	20.5	150 E	1	72
6 25	15 53.92	−43 9.0	1.780	2.676	12.6	20.6	145 E	2	73
6 30	15 46.82	−42 44.3	1.847	2.707	13.9	20.8	140 E	2	73
7 5	15 41.00	−42 17.9	1.920	2.738	15.2	20.9	135 E	3	74
7 10	15 36.42	−41 51.1	1.998	2.767	16.3	21.1	130 E	3	74
7 15	15 33.01	−41 25.2	2.080	2.796	17.2	21.2	126 E	3*	75
7 20	15 30.68	−41 0.8	2.166	2.825	18.0	21.4	121 E	4*	75
7 25	15 29.35	−40 38.4	2.254	2.852	18.6	21.5	116 E	4*	75
	373456 2000 EE_{62}								
12 27	16 14.06	−37 16.9	2.370	1.610	18.4	20.3	31 W	—	25*
1 1	16 32.21	−38 32.2	2.347	1.604	19.1	20.3	32 W	—	26*
1 6	16 50.98	−39 39.5	2.324	1.600	19.9	20.2	34 W	—	27*
1 11	17 10.29	−40 38.0	2.302	1.597	20.6	20.2	35 W	—	28*
1 16	17 30.08	−41 27.1	2.282	1.595	21.3	20.2	36 W	—	29*
1 21	17 50.24	−42 6.0	2.263	1.594	21.9	20.2	37 W	—	30*
1 26	18 10.66	−42 34.3	2.245	1.595	22.5	20.2	38 W	—	31*
1 31	18 31.18	−42 51.8	2.228	1.596	23.1	20.3	39 W	—	31*
2 5	18 51.69	−42 58.5	2.213	1.598	23.7	20.3	41 W	—	32*
2 10	19 12.04	−42 54.6	2.198	1.602	24.2	20.3	42 W	—	33*
2 15	19 32.08	−42 40.5	2.184	1.606	24.7	20.3	43 W	—	33*
2 20	19 51.69	−42 16.8	2.171	1.612	25.2	20.3	44 W	—	34*
2 25	20 10.76	−41 44.2	2.159	1.619	25.6	20.3	45 W	—	34*
3 2	20 29.21	−41 3.6	2.147	1.626	26.1	20.3	46 W	—	35*
3 7	20 46.99	−40 15.9	2.136	1.635	26.5	20.3	47 W	—	36*
3 17	21 20.35	−38 23.2	2.112	1.655	27.3	20.3	50 W	—	38*
3 27	21 50.71	−36 13.5	2.088	1.679	28.1	20.4	52 W	—	41*
4 6	22 18.14	−33 53.8	2.061	1.705	28.9	20.4	55 W	—	44*
4 16	22 42.83	−31 29.6	2.030	1.735	29.6	20.4	59 W	—	47*
4 26	23 4.93	−29 5.8	1.994	1.767	30.3	20.4	62 W	—	52*
5 6	23 24.64	−26 45.8	1.953	1.802	30.8	20.5	66 W	—	57*
5 16	23 42.07	−24 32.5	1.906	1.839	31.3	20.5	71 W	—	63*
5 26	23 57.25	−22 27.8	1.852	1.877	31.5	20.4	76 W	4*	69*
6 5	0 10.18	−20 33.3	1.792	1.917	31.5	20.4	81 W	8*	75*
6 15	0 20.73	−18 50.1	1.727	1.958	31.2	20.4	87 W	13*	80*
6 25	0 28.71	−17 19.0	1.657	2.000	30.5	20.3	94 W	18*	81
7 5	0 33.85	−16 0.1	1.586	2.042	29.2	20.2	101 W	23*	80
7 15	0 35.81	−14 53.3	1.515	2.085	27.4	20.1	109 W	28*	79
7 25	0 34.23	−13 57.6	1.448	2.129	24.8	20.0	119 W	31*	78
8 4	0 28.88	−13 11.0	1.389	2.173	21.4	19.8	129 W	32	77
8 14	0 19.69	−12 30.6	1.344	2.216	17.2	19.7	140 W	32	77
8 24	0 7.10	−11 52.0	1.319	2.260	12.3	19.5	152 W	33	76
9 3	23 52.11	−11 11.1	1.318	2.304	7.0	19.3	164 W	34	75
9 8	23 44.17	−10 48.6	1.328	2.325	4.6	19.2	169 W	34	75
9 13	23 36.21	−10 24.4	1.345	2.347	3.1	19.2	173 W	35	74
9 18	23 28.47	− 9 58.3	1.370	2.369	3.7	19.3	171 E	35	74
9 23	23 21.13	− 9 30.3	1.403	2.390	5.6	19.5	167 E	35	74
10 3	23 8.28	− 8 29.3	1.489	2.432	10.0	19.8	155 E	37	72
10 13	22 58.55	− 7 22.8	1.601	2.475	13.9	20.2	143 E	38	71

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		373456 2000 EE_{62}					*(continuation)*		
	h m	° ′			°	m	°	°	°
10 23	22 52.27	− 6 12.1	1.734	2.516	16.9	20.5	133 E	39	70
11 2	22 49.28	− 4 58.1	1.885	2.557	19.2	20.8	122 E	40	69
11 12	22 49.27	− 3 41.3	2.049	2.597	20.6	21.0	113 E	41	68
11 22	22 51.80	− 2 21.5	2.221	2.637	21.3	21.3	104 E	43	66*
12 2	22 56.43	− 0 59.0	2.399	2.676	21.5	21.5	95 E	44	62*
		163252 2002 GD_{11}							
12 27	16 14.89	−16 32.4	2.263	1.507	19.6	21.2	31 W	18*	18*
1 1	16 31.02	−17 22.5	2.218	1.479	20.6	21.2	32 W	17*	20*
1 6	16 47.67	−18 8.2	2.174	1.453	21.7	21.1	33 W	17*	22*
1 11	17 4.81	−18 49.0	2.132	1.426	22.7	21.1	34 W	17*	23*
1 16	17 22.45	−19 24.4	2.091	1.401	23.6	21.0	35 W	16*	25*
1 21	17 40.55	−19 53.7	2.052	1.377	24.6	21.0	36 W	16*	26*
1 26	17 59.11	−20 16.4	2.015	1.353	25.5	20.9	36 W	15*	28*
1 31	18 18.08	−20 31.9	1.980	1.330	26.4	20.9	37 W	14*	29*
2 5	18 37.42	−20 39.8	1.947	1.309	27.2	20.9	37 W	13*	30*
2 10	18 57.07	−20 39.6	1.917	1.289	28.0	20.8	38 W	13*	31*
2 15	19 16.98	−20 31.1	1.889	1.271	28.8	20.8	38 W	12*	31*
2 20	19 37.06	−20 14.1	1.864	1.254	29.5	20.7	39 W	11*	32*
2 25	19 57.25	−19 48.5	1.842	1.239	30.1	20.7	39 W	11*	33*
3 2	20 17.46	−19 14.5	1.823	1.225	30.7	20.7	39 W	10*	33*
3 7	20 37.63	−18 32.3	1.806	1.214	31.2	20.6	39 W	9*	33*
3 12	20 57.68	−17 42.4	1.792	1.205	31.7	20.6	40 W	8*	33*
3 17	21 17.55	−16 45.4	1.781	1.198	32.0	20.6	40 W	8*	34*
3 22	21 37.16	−15 41.9	1.772	1.193	32.4	20.6	40 W	7*	34*
3 27	21 56.48	−14 32.8	1.766	1.190	32.7	20.6	40 W	7*	34*
4 1	22 15.46	−13 18.8	1.762	1.190	32.9	20.6	40 W	6*	34*
4 6	22 34.07	−12 1.0	1.760	1.192	33.1	20.6	41 W	6*	35*
4 11	22 52.29	−10 40.1	1.759	1.196	33.2	20.6	41 W	6*	35*
4 16	23 10.09	− 9 17.1	1.761	1.203	33.3	20.6	41 W	5*	35*
4 21	23 27.48	− 7 52.9	1.763	1.211	33.4	20.6	42 W	5*	36*
4 26	23 44.44	− 6 28.4	1.767	1.222	33.4	20.7	42 W	5*	36*
5 1	0 0.97	− 5 4.1	1.772	1.235	33.5	20.7	43 W	6*	37*
5 6	0 17.09	− 3 40.9	1.777	1.250	33.5	20.7	43 W	6*	37*
5 11	0 32.80	− 2 19.3	1.783	1.266	33.6	20.8	44 W	6*	38*
5 16	0 48.11	− 0 59.9	1.788	1.284	33.6	20.8	45 W	7*	39*
5 21	1 3.01	+ 0 16.9	1.794	1.304	33.7	20.8	46 W	8*	39*
5 26	1 17.51	+ 1 30.7	1.799	1.325	33.7	20.9	47 W	8*	40*
5 31	1 31.64	+ 2 41.1	1.803	1.347	33.8	20.9	48 W	10*	41*
6 5	1 45.39	+ 3 48.0	1.806	1.370	33.9	21.0	49 W	11*	42*
6 10	1 58.77	+ 4 51.1	1.809	1.395	33.9	21.0	50 W	12*	43*
6 15	2 11.77	+ 5 50.3	1.810	1.420	34.0	21.1	51 W	14*	44*
6 20	2 24.40	+ 6 45.5	1.810	1.446	34.1	21.1	53 W	16*	44*
6 25	2 36.66	+ 7 36.7	1.808	1.472	34.2	21.1	55 W	18*	45*
6 30	2 48.53	+ 8 23.8	1.804	1.499	34.3	21.2	56 W	20*	46*
7 5	3 0.03	+ 9 6.9	1.799	1.527	34.4	21.2	58 W	23*	46*
7 10	3 11.14	+ 9 46.0	1.792	1.555	34.5	21.3	60 W	26*	47*
7 15	3 21.83	+10 21.2	1.783	1.583	34.5	21.3	62 W	28*	48*
7 20	3 32.11	+10 52.5	1.771	1.612	34.5	21.3	64 W	31*	48*
7 25	3 41.95	+11 20.2	1.758	1.641	34.6	21.3	66 W	34*	49*
7 30	3 51.35	+11 44.3	1.743	1.670	34.5	21.3	69 W	37*	49*
8 4	4 0.27	+12 5.0	1.726	1.699	34.5	21.4	71 W	40*	49*
8 9	4 8.69	+12 22.4	1.706	1.728	34.3	21.4	74 W	43*	50*
8 14	4 16.57	+12 36.7	1.685	1.757	34.2	21.4	77 W	46*	50*
8 19	4 23.90	+12 48.2	1.662	1.785	33.9	21.4	80 W	49*	50*
8 24	4 30.63	+12 56.9	1.637	1.814	33.6	21.4	83 W	51*	51*
8 29	4 36.73	+13 3.1	1.611	1.843	33.1	21.4	86 W	54*	51*
9 3	4 42.16	+13 7.1	1.583	1.872	32.6	21.3	90 W	56*	51*
9 8	4 46.87	+13 9.0	1.554	1.900	32.0	21.3	93 W	57*	51
9 13	4 50.80	+13 9.0	1.525	1.928	31.2	21.3	97 W	58*	51
9 18	4 53.92	+13 7.4	1.495	1.956	30.3	21.2	101 W	58	51
9 23	4 56.17	+13 4.4	1.465	1.984	29.2	21.2	105 W	58	51
9 28	4 57.52	+13 0.4	1.435	2.011	27.9	21.1	110 W	58	51
10 3	4 57.90	+12 55.4	1.407	2.038	26.5	21.1	115 W	58	51
10 8	4 57.29	+12 49.8	1.379	2.065	24.9	21.0	120 W	58	51
10 13	4 55.66	+12 43.7	1.354	2.092	23.0	21.0	125 W	58	51
10 18	4 53.02	+12 37.6	1.332	2.118	21.0	20.9	130 W	58	51
10 23	4 49.39	+12 31.5	1.313	2.144	18.8	20.8	136 W	58	51
10 28	4 44.84	+12 25.8	1.299	2.170	16.4	20.7	142 W	57	52
11 2	4 39.45	+12 20.6	1.289	2.195	13.8	20.7	148 W	57	52
11 7	4 33.35	+12 16.2	1.285	2.220	11.2	20.6	154 W	57	52
11 12	4 26.71	+12 12.9	1.288	2.245	8.5	20.5	160 W	57	52
11 17	4 19.74	+12 11.0	1.297	2.269	6.0	20.4	166 W	57	52
11 22	4 12.66	+12 10.7	1.313	2.293	4.1	20.4	170 W	57	52
11 27	4 5.66	+12 12.2	1.337	2.317	3.8	20.4	171 E	57	52
12 2	3 58.96	+12 15.7	1.368	2.340	5.2	20.6	168 E	57	52
12 7	3 52.74	+12 21.4	1.405	2.363	7.3	20.7	162 E	57	52
12 12	3 47.16	+12 29.4	1.450	2.385	9.5	20.9	156 E	57	52
12 17	3 42.31	+12 39.8	1.501	2.408	11.6	21.1	151 E	58	51
12 22	3 38.27	+12 52.4	1.559	2.429	13.5	21.3	145 E	58	51
12 27	3 35.07	+13 7.3	1.621	2.451	15.2	21.4	139 E	58	51

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		191935 2005 UY_2							
	h m	° ′			°	m	°	°	°
12 27	16 17.25	−16 42.4	2.506	1.730	16.7	20.8	30 W	17*	18*
1 6	16 45.65	−17 26.9	2.422	1.694	18.8	20.7	34 W	18*	22*
1 16	17 14.94	−17 53.4	2.339	1.660	20.8	20.7	37 W	18*	26*
1 26	17 44.95	−18 0.0	2.256	1.628	22.8	20.6	40 W	18*	30*
2 5	18 15.53	−17 45.6	2.176	1.598	24.7	20.6	43 W	19*	34*
2 15	18 46.47	−17 9.3	2.098	1.570	26.6	20.5	45 W	19*	37*
2 25	19 17.53	−16 11.4	2.024	1.546	28.4	20.4	48 W	19*	40*
3 7	19 48.51	−14 52.9	1.953	1.525	30.1	20.4	50 W	19*	43*
3 17	20 19.22	−13 15.5	1.887	1.507	31.6	20.3	53 W	19*	45*
3 27	20 49.45	−11 21.9	1.825	1.493	33.1	20.3	55 W	19*	48*
4 6	21 19.09	− 9 15.4	1.767	1.484	34.5	20.2	57 W	20*	50*
4 16	21 48.05	− 6 59.5	1.713	1.478	35.7	20.2	59 W	20*	52*
4 26	22 16.22	− 4 38.4	1.661	1.477	36.8	20.1	62 W	21*	54*
5 6	22 43.57	− 2 15.7	1.613	1.481	37.8	20.1	64 W	22*	55*
5 16	23 10.04	+ 0 4.6	1.565	1.489	38.6	20.1	67 W	24*	56*
5 26	23 35.57	+ 2 18.8	1.518	1.500	39.2	20.0	69 W	26*	57*
6 5	0 0.10	+ 4 23.8	1.472	1.516	39.7	20.0	73 W	29*	57*
6 15	0 23.50	+ 6 16.7	1.424	1.536	39.9	20.0	76 W	33*	57*
6 25	0 45.62	+ 7 54.7	1.375	1.559	39.9	19.9	80 W	37*	56*
7 5	1 6.29	+ 9 15.6	1.325	1.585	39.6	19.9	84 W	42*	55
7 15	1 25.20	+10 17.5	1.273	1.614	39.0	19.8	89 W	46*	54
7 25	1 42.05	+10 58.4	1.219	1.645	38.0	19.7	94 W	51*	53
8 4	1 56.44	+11 17.0	1.165	1.679	36.5	19.6	101 W	55*	53
8 14	2 7.90	+11 11.5	1.111	1.714	34.3	19.5	107 W	56*	53
8 24	2 15.95	+10 40.9	1.059	1.750	31.5	19.4	115 W	56	53
9 3	2 20.15	+ 9 45.0	1.013	1.788	27.8	19.2	124 W	55	54
9 13	2 20.18	+ 8 24.5	0.976	1.826	23.2	19.1	134 W	53	56
9 18	2 18.65	+ 7 36.3	0.961	1.846	20.6	19.0	140 W	53	56
9 23	2 16.15	+ 6 43.7	0.951	1.866	17.8	18.9	145 W	52	57
9 28	2 12.77	+ 5 48.0	0.945	1.885	14.9	18.8	151 W	51	58
10 3	2 8.63	+ 4 50.5	0.944	1.905	11.9	18.7	157 W	50	59
10 8	2 3.91	+ 3 52.8	0.949	1.925	9.0	18.6	162 W	49	60
10 13	1 58.82	+ 2 56.7	0.959	1.945	6.4	18.5	167 W	48	61
10 18	1 53.59	+ 2 4.0	0.975	1.965	4.7	18.5	171 W	47	62
10 23	1 48.42	+ 1 16.2	0.997	1.985	5.0	18.6	170 E	46	63
10 28	1 43.51	+ 0 34.5	1.026	2.005	6.9	18.8	166 E	46	63
11 2	1 39.04	− 0 0.2	1.060	2.024	9.2	19.0	161 E	45	64
11 12	1 31.98	− 0 46.6	1.146	2.064	13.9	19.4	150 E	44	65
11 22	1 27.92	− 1 2.7	1.252	2.103	17.8	19.7	139 E	44	65
12 2	1 26.98	− 0 52.0	1.375	2.142	20.8	20.1	129 E	44	65
12 12	1 29.00	− 0 19.2	1.512	2.180	23.0	20.4	120 E	45	64
12 22	1 33.61	+ 0 30.6	1.658	2.217	24.4	20.7	112 E	46	63
1 1	1 40.42	+ 1 32.9	1.812	2.254	25.1	20.9	103 E	47	62*
1 11	1 49.08	+ 2 44.0	1.970	2.290	25.3	21.1	96 E	48	58*
1 21	1 59.25	+ 4 1.0	2.131	2.325	25.0	21.3	89 E	49	54*
		108297 2001 HK_{65}							
12 27	16 17.46	−23 58.8	2.633	1.834	15.0	20.4	29 W	11*	20*
1 6	16 44.90	−25 11.1	2.557	1.809	17.1	20.3	33 W	11*	25*
1 16	17 13.15	−26 6.8	2.479	1.785	19.1	20.3	36 W	11*	29*
1 26	17 42.06	−26 44.3	2.398	1.763	21.1	20.3	40 W	11*	33*
2 5	18 11.44	−27 2.2	2.317	1.742	23.0	20.2	44 W	11*	37*
2 15	18 41.07	−26 59.7	2.235	1.723	24.9	20.2	47 W	10*	41*
2 25	19 10.70	−26 36.8	2.153	1.706	26.6	20.1	51 W	10*	45*
3 7	19 40.09	−25 54.0	2.072	1.692	28.3	20.1	54 W	10*	48*
3 17	20 9.01	−24 52.4	1.991	1.679	29.9	20.0	57 W	10*	51*
3 27	20 37.22	−23 33.8	1.912	1.669	31.4	20.0	61 W	10*	55*
4 6	21 4.59	−22 0.5	1.834	1.661	32.8	19.9	64 W	11*	58*
4 16	21 30.94	−20 15.3	1.757	1.657	34.0	19.8	67 W	12*	61*
4 26	21 56.17	−18 20.9	1.682	1.654	35.1	19.8	71 W	13*	65*
5 6	22 20.19	−16 20.6	1.608	1.655	36.0	19.7	75 W	14*	68*
5 16	22 42.89	−14 17.2	1.534	1.658	36.7	19.6	78 W	16*	71*
5 26	23 4.18	−12 14.0	1.462	1.663	37.1	19.5	82 W	19*	73*
6 5	23 23.94	−10 13.8	1.390	1.671	37.3	19.4	87 W	22*	74*
6 15	23 41.98	− 8 19.4	1.318	1.682	37.1	19.3	91 W	26*	72
6 25	23 58.08	− 6 33.5	1.248	1.695	36.6	19.2	96 W	31*	71
7 5	0 11.97	− 4 58.5	1.179	1.711	35.5	19.1	102 W	35*	69
7 15	0 23.25	− 3 36.9	1.112	1.728	33.9	18.9	108 W	40*	68
7 25	0 31.51	− 2 30.6	1.049	1.748	31.6	18.8	116 W	42*	67
8 4	0 36.29	− 1 41.5	0.991	1.769	28.5	18.6	124 W	43	66
8 14	0 37.16	− 1 10.7	0.941	1.791	24.5	18.4	133 W	44	65
8 24	0 33.98	− 0 57.9	0.902	1.816	19.5	18.2	143 W	44	65
9 3	0 27.02	− 1 1.0	0.879	1.841	13.7	17.9	154 W	44	65
9 8	0 22.36	− 1 7.2	0.874	1.854	10.5	17.8	160 W	44	65
9 13	0 17.16	− 1 15.4	0.874	1.867	7.3	17.7	166 W	44	65
9 18	0 11.64	− 1 24.6	0.880	1.881	4.0	17.6	172 W	44	65
9 23	0 6.01	− 1 33.8	0.892	1.895	1.2	17.4	178 W	43	66
9 28	0 0.52	− 1 42.0	0.909	1.909	2.9	17.6	174 E	43	66
10 3	23 55.38	− 1 48.4	0.932	1.923	6.0	17.8	168 E	43	66
10 8	23 50.77	− 1 52.2	0.961	1.937	8.9	18.1	162 E	43	66
10 13	23 46.85	− 1 52.8	0.995	1.951	11.7	18.3	157 E	43	66

108297 2001 HK_{65} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 23	23 41.48	− 1 42.9	1.078	1.981	16.5	18.6	146 E	43	66
11 2	23 39.57	− 1 18.0	1.179	2.010	20.3	19.0	135 E	44	65
11 12	23 41.01	− 0 38.4	1.295	2.040	23.2	19.3	126 E	44	65
11 22	23 45.44	+ 0 14.5	1.423	2.069	25.1	19.6	117 E	45	64
12 2	23 52.36	+ 1 18.6	1.559	2.099	26.4	19.9	109 E	46	63
12 12	0 1.36	+ 2 32.2	1.702	2.129	27.0	20.1	101 E	48	60*
12 22	0 12.04	+ 3 53.6	1.849	2.158	27.0	20.3	94 E	49	56*
1 1	0 24.07	+ 5 21.0	1.998	2.187	26.7	20.5	87 E	50	51*
1 11	0 37.22	+ 6 53.0	2.148	2.216	26.0	20.7	81 E	52	45*
1 21	0 51.28	+ 8 28.2	2.297	2.244	25.0	20.8	75 E	53*	40*

171576 1999 VP_{11}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 18.19	−23 9.0	1.257	0.616	50.1	19.9	29 W	11*	20*
1 1	16 57.52	−22 39.7	1.271	0.561	47.5	19.7	25 W	10*	16*
1 6	17 37.94	−21 38.9	1.295	0.513	42.9	19.4	21 W	8*	12*
1 11	18 18.95	−20 9.4	1.327	0.476	36.0	19.1	17 W	6*	8*
1 16	18 59.95	−18 16.7	1.365	0.455	27.5	18.8	12 W	4*	3*
1 18	19 16.19	−17 26.7	1.380	0.452	23.9	18.7	11 W	3*	1*
1 20	19 32.27	−16 34.6	1.396	0.453	20.4	18.6	9 W	2*	—
1 22	19 48.12	−15 41.1	1.411	0.457	17.2	18.6	8 W	2*	—
1 24	20 3.70	−14 46.4	1.427	0.464	14.5	18.5	7 W	1*	—
1 26	20 18.97	−13 51.1	1.442	0.474	12.6	18.5	6 W	—	—
1 31	20 55.58	−11 32.1	1.480	0.511	11.5	18.7	6 E	—	—
2 5	21 29.75	− 9 15.4	1.520	0.559	13.7	19.0	8 E	1*	—
2 10	22 1.43	− 7 3.6	1.561	0.613	16.2	19.4	10 E	4*	—
2 15	22 30.76	− 4 58.2	1.605	0.671	17.8	19.7	12 E	6*	—
2 25	23 23.16	− 1 9.7	1.703	0.789	18.9	20.2	15 E	9*	2*
3 7	0 8.66	+ 2 8.1	1.810	0.904	18.2	20.6	17 E	10*	4*
3 17	0 48.84	+ 4 57.0	1.921	1.011	16.6	20.9	17 E	10*	5*
3 27	1 24.91	+ 7 20.0	2.032	1.109	14.5	21.2	16 E	8*	6*
4 6	1 57.84	+ 9 20.1	2.139	1.199	12.3	21.4	15 E	6*	6*

238519 2004 TC_{133}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 18.68	−22 26.1	3.186	2.371	11.5	21.5	29 W	12*	19*
1 6	16 38.84	−23 20.5	3.086	2.339	13.7	21.5	34 W	13*	25*
1 16	16 59.36	−24 6.5	2.977	2.306	15.8	21.4	40 W	14*	32*
1 26	17 20.15	−24 43.7	2.860	2.273	17.8	21.4	45 W	15*	38*
2 5	17 41.15	−25 11.8	2.736	2.240	19.8	21.3	50 W	15*	44*
2 15	18 2.27	−25 30.8	2.606	2.206	21.7	21.3	56 W	15*	49*
2 25	18 23.40	−25 40.8	2.471	2.172	23.5	21.2	61 W	15*	55*
3 7	18 44.43	−25 42.1	2.333	2.138	25.2	21.0	66 W	15*	60*
3 17	19 5.27	−25 35.4	2.192	2.103	26.7	20.9	72 W	15*	66*
3 27	19 25.79	−25 21.7	2.051	2.069	28.0	20.8	77 W	16*	71*
4 6	19 45.87	−25 2.0	1.911	2.034	29.2	20.6	82 W	16*	76*
4 16	20 5.39	−24 37.8	1.771	2.000	30.1	20.4	88 W	16*	82*
4 26	20 24.18	−24 11.1	1.635	1.966	30.7	20.3	93 W	17*	87*
5 6	20 42.09	−23 43.8	1.503	1.932	31.1	20.0	99 W	18*	88
5 16	20 58.92	−23 18.5	1.375	1.899	31.0	19.8	104 W	19*	87
5 26	21 14.39	−22 58.0	1.254	1.867	30.5	19.6	110 W	20*	87
6 5	21 28.24	−22 45.2	1.139	1.836	29.5	19.3	117 W	21*	87
6 15	21 40.03	−22 43.3	1.033	1.806	27.9	19.0	124 W	22*	87
6 25	21 49.32	−22 54.9	0.937	1.778	25.6	18.7	131 W	22*	87
7 5	21 55.63	−23 21.7	0.853	1.751	22.4	18.3	139 W	22	87
7 15	21 58.44	−24 3.1	0.781	1.726	18.5	18.0	147 W	21	88
7 20	21 58.44	−24 28.0	0.751	1.715	16.3	17.8	152 W	21	88
7 25	21 57.53	−24 54.4	0.724	1.704	13.9	17.7	156 W	20	89
7 30	21 55.73	−25 21.2	0.702	1.693	11.6	17.5	160 W	20	89
8 4	21 53.13	−25 46.9	0.684	1.683	9.4	17.3	164 W	19	90
8 9	21 49.87	−26 9.7	0.670	1.674	7.8	17.2	167 W	19	90
8 14	21 46.18	−26 27.9	0.661	1.665	7.5	17.1	168 W	19	90
8 19	21 42.29	−26 39.9	0.657	1.657	8.5	17.2	166 E	18	89
8 24	21 38.47	−26 44.7	0.657	1.650	10.5	17.2	163 E	18	89
8 29	21 34.98	−26 41.5	0.662	1.643	13.0	17.3	158 E	18	89
9 3	21 32.04	−26 30.1	0.670	1.638	15.7	17.5	154 E	18	89
9 8	21 29.87	−26 10.5	0.683	1.633	18.3	17.6	149 E	19	90
9 13	21 28.63	−25 43.1	0.699	1.628	20.9	17.7	145 E	19	90
9 18	21 28.42	−25 8.5	0.719	1.625	23.2	17.8	140 E	20	89
9 23	21 29.27	−24 27.5	0.742	1.622	25.4	18.0	136 E	21	88
9 28	21 31.16	−23 40.8	0.768	1.620	27.3	18.1	132 E	21	88
10 3	21 34.05	−22 49.3	0.796	1.619	29.0	18.2	128 E	22	87
10 8	21 37.90	−21 53.3	0.827	1.619	30.5	18.3	125 E	23	86
10 13	21 42.64	−20 53.4	0.860	1.620	31.8	18.5	121 E	24	85
10 18	21 48.18	−19 50.1	0.895	1.621	32.9	18.6	118 E	25	84
10 23	21 54.42	−18 43.8	0.933	1.623	33.8	18.7	115 E	26	83
10 28	22 1.28	−17 34.8	0.972	1.626	34.6	18.8	112 E	27	82
11 2	22 8.69	−16 23.4	1.013	1.630	35.2	18.9	109 E	29	80
11 12	22 24.89	−13 54.3	1.099	1.640	36.0	19.1	103 E	31	78
11 22	22 42.52	−11 18.5	1.191	1.653	36.2	19.3	98 E	34	75*

238519 2004 TC_{133} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 2	23 1.18	− 8 37.9	1.289	1.669	36.1	19.5	93 E	36	69*
12 12	23 20.61	− 5 54.1	1.392	1.688	35.7	19.7	89 E	39	63*
12 22	23 40.60	− 3 8.8	1.499	1.709	34.9	19.9	84 E	42	57*
1 1	0 1.01	− 0 24.0	1.610	1.732	34.0	20.0	80 E	45	51*
1 11	0 21.75	+ 2 19.1	1.723	1.757	32.8	20.2	75 E	47*	46*
1 21	0 42.77	+ 4 58.8	1.839	1.784	31.5	20.3	71 E	49*	41*

1593 Fagnes

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 18.78	−14 39.4	2.691	1.912	15.2	17.5	31 W	19*	17*
1 6	16 43.65	−15 39.3	2.604	1.880	17.3	17.5	35 W	20*	22*
1 16	17 9.17	−16 26.2	2.513	1.848	19.4	17.4	39 W	20*	27*
1 26	17 35.25	−16 59.2	2.420	1.817	21.4	17.4	42 W	20*	32*
2 5	18 1.80	−17 17.5	2.326	1.788	23.4	17.3	46 W	20*	37*
2 15	18 28.73	−17 20.7	2.231	1.760	25.3	17.2	50 W	20*	41*
2 25	18 55.89	−17 8.8	2.135	1.733	27.2	17.2	53 W	20*	45*
3 7	19 23.18	−16 42.3	2.041	1.708	29.0	17.1	57 W	20*	49*
3 17	19 50.48	−16 1.9	1.948	1.685	30.7	17.0	60 W	20*	53*
3 27	20 17.64	−15 9.3	1.856	1.664	32.3	16.9	63 W	20*	56*
4 6	20 44.58	−14 6.1	1.767	1.646	33.9	16.8	66 W	20*	60*
4 16	21 11.20	−12 54.6	1.681	1.631	35.2	16.7	70 W	20*	63*
4 26	21 37.37	−11 37.6	1.597	1.618	36.5	16.6	73 W	21*	65*
5 6	22 3.04	−10 17.9	1.516	1.608	37.5	16.5	76 W	22*	68*
5 16	22 28.09	− 8 58.9	1.437	1.602	38.4	16.4	80 W	23*	70*
5 26	22 52.39	− 7 44.1	1.362	1.599	39.0	16.3	83 W	25*	71*
6 5	23 15.81	− 6 37.0	1.289	1.599	39.3	16.2	87 W	27*	71*
6 15	23 38.15	− 5 41.5	1.219	1.602	39.3	16.1	91 W	29*	70
6 25	23 59.16	− 5 1.3	1.152	1.608	39.0	16.0	96 W	32*	69
7 5	0 18.55	− 4 40.0	1.087	1.618	38.2	15.9	100 W	35*	69
7 15	0 35.91	− 4 41.1	1.026	1.630	36.8	15.7	106 W	38*	69
7 25	0 50.78	− 5 7.5	0.969	1.646	34.9	15.6	112 W	39*	69
8 4	1 2.65	− 6 0.8	0.917	1.664	32.3	15.4	119 W	39	70
8 14	1 10.94	− 7 21.1	0.872	1.684	28.9	15.2	126 W	38	71
8 19	1 13.58	− 8 10.4	0.853	1.695	27.0	15.1	130 W	37	72
8 24	1 15.18	− 9 4.8	0.837	1.707	24.9	15.0	135 W	36	73
8 29	1 15.71	−10 3.1	0.824	1.719	22.6	14.9	139 W	35	74
9 3	1 15.17	−11 3.9	0.814	1.732	20.3	14.9	143 W	34	75
9 8	1 13.60	−12 5.5	0.808	1.745	17.9	14.8	148 W	33	76
9 13	1 11.09	−13 5.6	0.806	1.759	15.6	14.7	152 W	32	77
9 18	1 7.80	−14 2.1	0.808	1.772	13.6	14.7	156 W	31	78
9 23	1 3.88	−14 52.8	0.815	1.787	12.0	14.6	158 W	30	79
9 28	0 59.55	−15 35.9	0.828	1.801	11.2	14.7	160 W	29	80
10 3	0 55.03	−16 9.9	0.845	1.816	11.2	14.7	159 W	29	80
10 8	0 50.54	−16 33.7	0.867	1.832	12.0	14.8	158 E	28	81
10 13	0 46.32	−16 46.7	0.895	1.847	13.3	15.0	155 E	28	81
10 18	0 42.55	−16 49.0	0.927	1.863	15.0	15.1	151 E	28	81
10 23	0 39.38	−16 41.1	0.964	1.879	16.7	15.3	147 E	28	81
10 28	0 36.91	−16 23.8	1.005	1.895	18.5	15.4	143 E	29	80
11 2	0 35.19	−15 58.1	1.051	1.911	20.1	15.6	139 E	29	80
11 7	0 34.27	−15 24.9	1.100	1.927	21.6	15.8	134 E	30	79
11 12	0 34.15	−14 45.3	1.153	1.944	22.9	15.9	130 E	30	79
11 17	0 34.81	−14 0.2	1.209	1.961	24.1	16.1	126 E	31	78
11 22	0 36.20	−13 10.6	1.268	1.977	25.1	16.3	122 E	32	77
11 27	0 38.26	−12 17.4	1.330	1.994	25.9	16.4	118 E	33	76
12 2	0 40.97	−11 21.2	1.394	2.011	26.5	16.5	114 E	34	75
12 12	0 48.08	− 9 21.9	1.528	2.045	27.4	16.8	107 E	36	73
12 22	0 57.12	− 7 16.8	1.669	2.079	27.8	17.0	100 E	38	71*
1 1	1 7.74	− 5 8.9	1.814	2.113	27.7	17.3	93 E	40	65*
1 11	1 19.66	− 3 0.2	1.962	2.146	27.2	17.4	87 E	42	59*
1 21	1 32.63	− 0 52.5	2.111	2.179	26.5	17.6	81 E	44	54*

452666 2005 WP_{54}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 19.55	−30 0.1	3.026	2.211	12.2	21.5	28 W	5*	22*
1 6	16 41.09	−30 12.9	3.000	2.248	14.0	21.5	34 W	7*	27*
1 16	17 1.78	−30 14.6	2.962	2.284	15.7	21.6	39 W	8*	33*
1 26	17 21.45	−30 5.7	2.912	2.319	17.4	21.7	45 W	10*	38*
2 5	17 39.97	−29 47.3	2.850	2.354	18.9	21.7	51 W	11*	45*

6874 1994 JO_1

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 19.82	−19 1.4	2.686	1.888	14.7	18.1	29 W	15*	18*
1 6	16 45.50	−20 14.4	2.601	1.857	16.8	18.1	33 W	15*	23*
1 16	17 11.97	−21 14.1	2.513	1.826	18.9	18.1	37 W	16*	28*
1 26	17 39.14	−21 58.9	2.423	1.797	21.0	18.0	41 W	15*	33*
2 5	18 6.93	−22 27.8	2.331	1.769	23.0	18.0	45 W	15*	37*
2 15	18 35.21	−22 40.1	2.239	1.742	25.0	17.9	48 W	15*	41*
2 25	19 3.79	−22 35.4	2.147	1.718	26.9	17.8	52 W	14*	45*
3 7	19 32.53	−22 13.9	2.056	1.695	28.7	17.8	55 W	14*	49*
3 17	20 1.26	−21 36.1	1.967	1.674	30.4	17.7	58 W	14*	52*
3 27	20 29.79	−20 43.4	1.880	1.656	32.0	17.6	62 W	14*	56*
4 6	20 57.98	−19 37.4	1.795	1.641	33.5	17.5	65 W	14*	59*
4 16	21 25.68	−18 20.3	1.713	1.629	34.8	17.5	68 W	14*	62*

6874 1994 JO_1 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 26	21 52.73	−16 54.9	1.634	1.619	36.0	17.4	71 W	14*	65*
5 6	22 19.03	−15 23.9	1.558	1.613	37.1	17.3	74 W	15*	68*
5 16	22 44.46	−13 50.6	1.484	1.609	37.9	17.2	78 W	17*	71*
5 26	23 8.86	−12 18.4	1.413	1.609	38.5	17.1	81 W	18*	73*
6 5	23 32.11	−10 50.5	1.344	1.612	38.8	17.0	85 W	21*	74*
6 15	23 54.01	− 9 30.4	1.278	1.619	38.9	16.9	89 W	24*	74*
6 25	0 14.32	− 8 21.3	1.213	1.628	38.6	16.8	93 W	27*	72
7 5	0 32.79	− 7 26.0	1.150	1.640	37.8	16.7	98 W	31*	71
7 15	0 49.03	− 6 47.4	1.089	1.656	36.6	16.6	104 W	35*	71
7 25	1 2.62	− 6 27.5	1.032	1.674	34.9	16.4	110 W	37*	70
8 4	1 13.09	− 6 27.7	0.978	1.694	32.4	16.3	116 W	39*	70
8 14	1 19.90	− 6 48.1	0.929	1.716	29.2	16.1	124 W	38	71
8 24	1 22.61	− 7 26.5	0.889	1.741	25.3	15.9	133 W	38	71
8 29	1 22.36	− 7 51.0	0.873	1.754	23.0	15.8	137 W	37	72
9 3	1 21.02	− 8 17.9	0.859	1.767	20.5	15.7	142 W	37	72
9 8	1 18.65	− 8 46.0	0.850	1.781	18.0	15.6	147 W	36	73
9 13	1 15.33	− 9 13.9	0.844	1.795	15.4	15.5	152 W	36	73
9 18	1 11.21	− 9 39.9	0.844	1.810	12.8	15.5	156 W	35	74
9 23	1 6.47	−10 2.6	0.847	1.825	10.5	15.4	161 W	35	74
9 28	1 1.31	−10 20.6	0.857	1.840	8.8	15.4	164 W	35	74
10 3	0 55.97	−10 32.9	0.871	1.855	8.2	15.4	165 W	34	75
10 8	0 50.67	−10 38.3	0.891	1.871	8.7	15.5	164 E	34	75
10 13	0 45.66	−10 36.5	0.916	1.887	10.1	15.6	161 E	34	75
10 23	0 37.25	−10 11.1	0.983	1.919	14.1	16.0	152 E	35	74
11 2	0 31.76	− 9 19.4	1.069	1.952	18.0	16.3	142 E	36	73
11 12	0 29.61	− 8 6.3	1.172	1.985	21.3	16.7	133 E	37	72
11 22	0 30.72	− 6 37.3	1.290	2.019	23.8	17.0	124 E	38	71
12 2	0 34.72	− 4 57.3	1.419	2.052	25.6	17.3	116 E	40	69
12 12	0 41.20	− 3 9.6	1.557	2.086	26.6	17.6	108 E	42	67
12 22	0 49.73	− 1 17.1	1.702	2.120	27.1	17.8	101 E	44	64*
1 1	0 59.93	+ 0 38.0	1.852	2.153	27.1	18.0	94 E	46	59*
1 11	1 11.51	+ 2 34.3	2.004	2.186	26.7	18.2	87 E	48	54*
1 21	1 24.22	+ 4 30.3	2.157	2.219	25.9	18.4	81 E	50	48*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 20.33	−25 21.4	2.549	1.744	15.4	21.1	28 W	9*	20*
1 6	16 49.92	−26 38.2	2.463	1.704	17.5	21.0	31 W	9*	24*
1 16	17 20.88	−27 35.6	2.377	1.665	19.7	21.0	35 W	9*	28*
1 26	17 53.06	−28 10.5	2.291	1.629	21.7	20.9	38 W	9*	31*
2 5	18 26.24	−28 20.1	2.208	1.594	23.7	20.8	41 W	8*	34*
2 15	19 0.12	−28 2.0	2.127	1.561	25.7	20.8	43 W	7*	37*
2 25	19 34.32	−27 15.2	2.051	1.532	27.5	20.7	46 W	7*	40*
3 7	20 8.47	−25 59.4	1.978	1.505	29.3	20.6	48 W	7*	42*
3 17	20 42.21	−24 15.8	1.911	1.483	30.9	20.6	50 W	7*	44*
3 27	21 15.21	−22 6.8	1.849	1.464	32.5	20.5	52 W	7*	46*
4 6	21 47.25	−19 35.9	1.792	1.449	33.9	20.5	54 W	7*	48*
4 16	22 18.18	−16 47.1	1.740	1.439	35.2	20.4	56 W	8*	50*
4 26	22 47.91	−13 45.2	1.692	1.434	36.4	20.4	58 W	9*	52*
5 6	23 16.42	−10 34.5	1.648	1.434	37.4	20.4	60 W	11*	54*
5 16	23 43.73	− 7 19.7	1.606	1.438	38.3	20.4	62 W	13*	55*
5 26	0 9.82	− 4 4.9	1.566	1.448	39.0	20.3	64 W	16*	57*
6 5	0 34.75	− 0 53.5	1.527	1.462	39.6	20.3	67 W	20*	58*
6 15	0 58.49	+ 2 11.4	1.488	1.480	40.0	20.3	70 W	24*	58*
6 25	1 20.97	+ 5 7.4	1.447	1.502	40.3	20.3	73 W	29*	57*
7 5	1 42.14	+ 7 53.1	1.405	1.528	40.3	20.2	76 W	35*	55*
7 15	2 1.82	+10 27.2	1.361	1.558	40.1	20.2	80 W	41*	53*
7 25	2 19.78	+12 49.1	1.313	1.590	39.5	20.2	85 W	48*	51
8 4	2 35.74	+14 59.1	1.264	1.624	38.7	20.1	90 W	54*	49
8 14	2 49.28	+16 57.0	1.212	1.661	37.3	20.0	96 W	60*	47
8 24	2 59.91	+18 43.3	1.159	1.699	35.5	19.9	103 W	64*	45
9 3	3 7.11	+20 18.2	1.108	1.739	32.9	19.8	110 W	65	44
9 13	3 10.24	+21 40.7	1.059	1.780	29.6	19.7	119 W	67	42
9 23	3 8.86	+22 49.0	1.017	1.821	25.5	19.5	129 W	68	41
10 3	3 2.82	+23 39.6	0.986	1.863	20.5	19.3	139 W	69	40
10 8	2 58.15	+23 56.7	0.976	1.884	17.7	19.2	145 W	69	40
10 13	2 52.54	+24 7.8	0.970	1.905	14.8	19.2	151 W	69	40
10 18	2 46.22	+24 12.6	0.970	1.926	11.8	19.1	157 W	69	40
10 23	2 39.40	+24 11.1	0.975	1.947	8.8	19.0	163 W	69	40
10 28	2 32.35	+24 3.7	0.986	1.968	6.2	18.9	168 W	69	40
11 2	2 25.34	+23 51.0	1.004	1.989	4.6	18.9	171 E	69	40
11 7	2 18.66	+23 34.1	1.027	2.010	5.0	19.0	170 E	69	40
11 12	2 12.55	+23 14.5	1.057	2.031	6.9	19.2	166 E	68	41
11 17	2 7.18	+22 53.5	1.093	2.052	9.2	19.4	161 E	68	41
11 22	2 2.70	+22 32.5	1.135	2.073	11.6	19.6	155 E	68	41
11 27	1 59.17	+22 12.6	1.182	2.093	13.9	19.8	149 E	67	42
12 2	1 56.62	+21 54.7	1.235	2.114	15.9	19.9	144 E	67	42
12 12	1 54.46	+21 27.9	1.354	2.154	19.3	20.3	134 E	66	43
12 22	1 55.90	+21 15.2	1.487	2.194	21.8	20.6	124 E	66	43
1 1	2 0.44	+21 16.6	1.633	2.233	23.5	20.9	115 E	66	43*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 11	2 7.59	+21 30.8	1.787	2.271	24.5	21.2	106 E	67	42*
1 21	2 16.86	+21 55.6	1.946	2.308	24.9	21.4	99 E	67	40*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 20.73	−19 51.4	2.434	1.641	16.7	21.0	29 W	14*	18*
1 6	16 49.81	−20 49.3	2.401	1.651	18.4	21.0	32 W	14*	22*
1 16	17 18.75	−21 27.3	2.365	1.664	20.0	21.1	35 W	15*	26*
1 26	17 47.30	−21 45.4	2.327	1.680	21.6	21.1	39 W	15*	31*
2 5	18 15.24	−21 44.6	2.286	1.697	23.1	21.1	43 W	15*	35*
2 15	18 42.36	−21 26.3	2.242	1.717	24.6	21.2	46 W	15*	39*
2 25	19 8.45	−20 52.3	2.195	1.739	26.0	21.2	50 W	15*	44*
3 7	19 33.36	−20 5.1	2.143	1.763	27.3	21.2	55 W	16*	48*
3 17	19 56.96	−19 7.2	2.087	1.788	28.4	21.2	59 W	16*	53*
3 27	20 19.12	−18 1.5	2.027	1.814	29.5	21.2	63 W	17*	57*
4 6	20 39.74	−16 50.8	1.962	1.842	30.3	21.2	68 W	18*	62*
4 16	20 58.74	−15 37.9	1.893	1.871	30.9	21.2	73 W	19*	67*
4 26	21 15.99	−14 25.8	1.821	1.900	31.3	21.1	79 W	21*	71*
5 6	21 31.37	−13 17.3	1.745	1.930	31.3	21.1	85 W	23*	75*
5 16	21 44.72	−12 15.3	1.667	1.961	31.0	21.0	91 W	25*	76*
5 26	21 55.80	−11 22.9	1.587	1.992	30.3	20.9	98 W	28*	75
6 5	22 4.40	−10 43.0	1.509	2.023	29.0	20.8	105 W	30*	75
6 15	22 10.20	−10 18.7	1.432	2.055	27.1	20.7	113 W	33*	74
6 25	22 12.92	−10 12.5	1.362	2.086	24.4	20.5	122 W	35*	74
7 5	22 12.34	−10 26.1	1.300	2.117	21.0	20.3	132 W	35	74
7 15	22 8.40	−10 59.8	1.252	2.148	16.8	20.1	142 W	34	75
7 25	22 1.40	−11 51.2	1.221	2.179	11.9	19.9	154 W	33	76
7 30	21 56.96	−12 21.9	1.213	2.194	9.2	19.8	160 W	33	76
8 4	21 52.05	−12 54.8	1.211	2.209	6.5	19.7	166 W	32	77
8 9	21 46.83	−13 28.8	1.216	2.224	3.7	19.6	172 W	32	77
8 14	21 41.48	−14 2.8	1.226	2.239	0.8	19.4	178 W	31	78
8 19	21 36.20	−14 35.8	1.243	2.254	2.0	19.6	176 E	30	79
8 24	21 31.15	−15 6.7	1.267	2.268	4.7	19.8	169 E	30	79
8 29	21 26.49	−15 34.8	1.297	2.283	7.2	20.0	163 E	29	80
9 3	21 22.35	−15 59.6	1.332	2.297	9.7	20.2	158 E	29	80
9 13	21 16.06	−16 37.8	1.421	2.325	13.9	20.5	146 E	28	81
9 23	21 12.78	−16 59.9	1.529	2.353	17.4	20.8	136 E	28	81
10 3	21 12.55	−17 6.6	1.653	2.380	20.0	21.1	126 E	28	81
10 13	21 15.18	−16 59.2	1.790	2.406	21.8	21.3	116 E	28	81

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
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*
1 26	17 15.32	−13 35.5	2.985	2.433	17.4	16.0	48 W	25*	35*
2 5	17 33.12	−12 51.4	2.853	2.401	19.3	16.0	53 W	27*	42*
2 15	17 50.65	−11 52.9	2.714	2.367	21.0	15.9	59 W	29*	48*
2 25	18 7.76	−10 39.4	2.571	2.333	22.6	15.8	65 W	31*	53*
3 7	18 24.34	− 9 10.3	2.425	2.298	24.1	15.7	71 W	32*	59*
3 17	18 40.24	− 7 25.1	2.278	2.263	25.3	15.5	76 W	34*	63*
3 27	18 55.31	− 5 23.5	2.132	2.228	26.3	15.4	82 W	37*	66*
4 6	19 9.38	− 3 5.3	1.988	2.192	27.1	15.2	88 W	39*	66*
4 16	19 22.26	− 0 30.7	1.847	2.156	27.7	15.0	94 W	42*	65
4 26	19 33.72	+ 2 19.6	1.713	2.120	27.9	14.8	99 W	46*	62
5 6	19 43.52	+ 5 24.4	1.585	2.083	27.9	14.6	105 W	50*	59
5 16	19 51.35	+ 8 41.1	1.466	2.047	27.6	14.4	110 W	53*	55
5 21	19 54.43	+10 22.8	1.410	2.029	27.4	14.3	113 W	55*	54
5 26	19 56.90	+12 5.8	1.357	2.011	27.1	14.2	115 W	57	52
5 31	19 58.73	+13 49.3	1.306	1.993	26.7	14.1	118 W	59	50
6 5	19 59.86	+15 32.3	1.259	1.975	26.3	14.0	120 W	61	48
6 10	20 0.26	+17 13.8	1.215	1.958	25.9	13.9	123 W	62	47
6 15	19 59.91	+18 52.1	1.173	1.940	25.5	13.8	125 W	64	45
6 20	19 58.81	+20 25.9	1.135	1.923	25.1	13.7	127 W	65	44
6 25	19 56.97	+21 53.5	1.101	1.906	24.7	13.6	128 W	67	42
6 30	19 54.42	+23 13.2	1.069	1.889	24.4	13.5	130 W	68	41
7 5	19 51.21	+24 23.4	1.041	1.872	24.2	13.4	131 W	69	40
7 10	19 47.44	+25 22.2	1.016	1.856	24.1	13.3	132 W	70	39
7 15	19 43.25	+26 8.0	0.995	1.839	24.1	13.2	132 W	71	38
7 20	19 38.80	+26 39.6	0.977	1.824	24.3	13.2	132 E	72	37
7 25	19 34.30	+26 56.3	0.962	1.808	24.6	13.1	132 E	72	37
7 30	19 29.93	+26 57.7	0.950	1.793	25.0	13.1	132 E	72	37
8 4	19 25.90	+26 43.8	0.941	1.778	25.6	13.1	131 E	72	37
8 9	19 22.41	+26 14.9	0.934	1.764	26.3	13.1	130 E	71	38
8 14	19 19.65	+25 32.0	0.931	1.750	27.0	13.1	128 E	71	38
8 19	19 17.76	+24 36.4	0.930	1.737	27.8	13.1	127 E	70	39
8 24	19 16.86	+23 29.9	0.932	1.724	28.7	13.1	125 E	69	40
8 29	19 17.00	+22 14.0	0.935	1.711	29.6	13.1	123 E	67	42
9 3	19 18.24	+20 50.5	0.942	1.700	30.5	13.1	121 E	66	43
9 8	19 20.58	+19 20.9	0.950	1.688	31.4	13.2	119 E	64	45
9 13	19 24.03	+17 47.3	0.961	1.678	32.3	13.2	117 E	63	46
9 18	19 28.57	+16 11.2	0.973	1.668	33.1	13.2	115 E	61	48

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		391 Ingeborg				*(continuation)*			
	h m	° ′			°	m	°	°	°
9 23	19 34.12	+14 34.3	0.988	1.659	33.9	13.3	113 E	60	49
9 28	19 40.64	+12 57.9	1.005	1.651	34.6	13.3	111 E	58	51
10 3	19 48.06	+11 23.2	1.024	1.643	35.3	13.4	108 E	56	53
10 8	19 56.34	+ 9 51.3	1.045	1.636	35.9	13.4	106 E	55	54
10 13	20 5.41	+ 8 23.4	1.068	1.630	36.4	13.5	104 E	53	56
10 18	20 15.18	+ 7 0.3	1.093	1.625	36.9	13.5	102 E	52	57*
10 23	20 25.58	+ 5 42.8	1.119	1.620	37.2	13.6	100 E	51	58*
10 28	20 36.55	+ 4 31.4	1.148	1.617	37.5	13.7	98 E	50	59*
11 2	20 48.01	+ 3 26.6	1.179	1.614	37.7	13.7	96 E	48	59*
11 12	21 12.15	+ 1 37.9	1.246	1.611	37.9	13.8	91 E	47	59*
11 22	21 37.50	+ 0 18.0	1.321	1.611	37.8	14.0	87 E	45	57*
12 2	22 3.59	− 0 33.7	1.402	1.615	37.3	14.1	83 E	44	54*
12 12	22 30.06	− 0 58.9	1.490	1.623	36.6	14.2	79 E	44	51*
12 22	22 56.62	− 1 0.6	1.582	1.633	35.6	14.3	75 E	44*	48*
1 1	23 23.04	− 0 42.2	1.679	1.647	34.4	14.4	71 E	44*	44*
1 11	23 49.23	− 0 7.2	1.779	1.664	33.0	14.5	67 E	44*	41*
1 21	0 15.07	+ 0 40.4	1.882	1.684	31.4	14.6	63 E	43*	38*
		8355 Masuo							
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*
1 26	17 18.84	−16 53.8	2.923	2.352	17.6	19.4	46 W	22*	36*
2 5	17 38.01	−16 57.5	2.798	2.319	19.5	19.3	52 W	23*	42*
2 15	17 57.08	−16 50.9	2.666	2.286	21.3	19.3	57 W	24*	48*
2 25	18 15.91	−16 34.1	2.529	2.253	23.0	19.2	63 W	24*	54*
3 7	18 34.41	−16 7.7	2.388	2.220	24.5	19.1	68 W	25*	60*
3 17	18 52.46	−15 32.1	2.245	2.186	25.9	18.9	74 W	26*	65*
3 27	19 9.92	−14 48.2	2.100	2.152	27.1	18.8	79 W	27*	70*
4 6	19 26.65	−13 57.1	1.956	2.118	28.1	18.6	85 W	28*	74*
4 16	19 42.50	−13 0.4	1.814	2.084	28.8	18.5	91 W	29*	77*
4 26	19 57.28	−11 59.7	1.674	2.050	29.2	18.3	97 W	30*	76
5 6	20 10.80	−10 57.5	1.538	2.017	29.2	18.0	103 W	32*	75
5 16	20 22.81	− 9 56.5	1.407	1.984	28.8	17.8	109 W	34*	74
5 26	20 33.01	− 9 0.2	1.283	1.952	27.8	17.5	116 W	35*	73
6 5	20 41.09	− 8 12.8	1.167	1.920	26.2	17.2	123 W	37*	72
6 15	20 46.67	− 7 39.3	1.060	1.890	23.9	16.9	131 W	37	72
6 20	20 48.42	− 7 29.6	1.011	1.875	22.4	16.8	135 W	38	71
6 25	20 49.44	− 7 25.5	0.966	1.860	20.7	16.6	140 W	38	71
6 30	20 49.69	− 7 27.6	0.923	1.846	18.8	16.4	144 W	38	71
7 5	20 49.18	− 7 36.7	0.885	1.832	16.7	16.2	149 W	37	72
7 15	20 45.92	− 8 17.4	0.820	1.805	11.8	15.9	159 W	37	72
7 25	20 40.26	− 9 28.4	0.774	1.780	6.6	15.5	168 W	36	73
8 4	20 33.30	−11 4.9	0.747	1.757	4.8	15.3	172 E	34	75
8 9	20 29.81	−11 59.8	0.741	1.746	6.8	15.4	168 E	33	76
8 14	20 26.62	−12 56.9	0.741	1.736	9.5	15.5	164 E	32	77
8 19	20 23.94	−13 54.7	0.745	1.727	12.5	15.6	158 E	31	78
8 24	20 21.96	−14 51.2	0.754	1.717	15.4	15.7	153 E	30	79
8 29	20 20.81	−15 45.3	0.767	1.709	18.2	15.8	148 E	29	80
9 3	20 20.62	−16 35.5	0.783	1.701	20.9	16.0	143 E	28	81
9 8	20 21.45	−17 21.0	0.804	1.694	23.3	16.1	138 E	28	81
9 13	20 23.34	−18 1.0	0.828	1.688	25.5	16.2	134 E	27	82
9 23	20 30.27	−19 2.6	0.883	1.677	29.2	16.4	125 E	26	83
10 3	20 41.03	−19 38.2	0.948	1.669	32.0	16.7	118 E	25	84
10 13	20 55.10	−19 47.4	1.021	1.664	34.0	16.9	111 E	25	84
10 18	21 3.18	−19 42.2	1.059	1.663	34.8	17.0	108 E	25	84
10 23	21 11.85	−19 30.9	1.099	1.662	35.3	17.1	105 E	25	84
10 28	21 21.01	−19 13.4	1.140	1.662	35.8	17.2	102 E	26	83
11 2	21 30.61	−18 50.2	1.182	1.663	36.0	17.2	99 E	26	83
11 7	21 40.59	−18 21.3	1.225	1.665	36.2	17.3	97 E	27	82*
11 12	21 50.88	−17 47.1	1.270	1.668	36.3	17.4	94 E	27	80*
11 17	22 1.42	−17 7.9	1.315	1.671	36.3	17.5	92 E	28	78*
11 22	22 12.17	−16 24.0	1.361	1.675	36.1	17.6	90 E	29	75*
11 27	22 23.07	−15 35.8	1.408	1.680	35.9	17.6	87 E	29	72*
12 2	22 34.10	−14 43.7	1.456	1.685	35.6	17.7	85 E	30	70*
12 7	22 45.23	−13 47.9	1.505	1.692	35.3	17.8	83 E	31	67*
12 12	22 56.42	−12 48.9	1.554	1.699	34.9	17.8	81 E	32	64*
12 22	23 18.93	−10 42.6	1.654	1.714	33.9	18.0	76 E	34	58*
1 1	23 41.49	− 8 27.8	1.757	1.733	32.7	18.1	72 E	37*	52*
1 11	0 4.04	− 6 7.3	1.862	1.753	31.4	18.2	68 E	38*	47*
1 21	0 26.54	− 3 43.9	1.968	1.776	29.9	18.3	64 E	40*	43*
		434677 2006 BZ_7							
12 27	16 21.96	−57 16.7	2.083	1.479	25.5	21.1	40 W	—	27*
1 1	16 41.57	−56 58.8	2.106	1.505	25.2	21.2	41 W	—	28*
1 6	16 59.93	−56 34.5	2.125	1.530	25.1	21.2	41 W	—	28*
1 11	17 17.07	−56 5.3	2.139	1.555	25.1	21.3	42 W	—	29*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		434677 2006 BZ_7				*(continuation)*			
	h m	° ′			°	m	°	°	°
1 16	17 33.02	−55 32.1	2.148	1.579	25.2	21.3	43 W	—	30*
1 21	17 47.84	−54 55.9	2.152	1.603	25.4	21.4	44 W	—	32*
1 26	18 1.58	−54 17.4	2.152	1.626	25.7	21.4	46 W	—	33*
1 31	18 14.31	−53 37.3	2.146	1.649	26.1	21.4	48 W	—	35*
2 5	18 26.09	−52 56.2	2.135	1.671	26.6	21.5	49 W	—	37*
2 10	18 36.96	−52 14.5	2.119	1.692	27.2	21.5	52 W	—	39*
		338292 2002 UA_{31}							
12 27	16 22.20	−50 16.7	0.641	0.596	105.2	20.8	36 W	—	26*
12 29	16 33.20	−48 17.5	0.665	0.575	104.7	20.8	34 W	—	26*
12 31	16 43.73	−46 14.9	0.690	0.554	104.0	20.7	33 W	—	25*
1 2	16 53.94	−44 9.4	0.716	0.533	102.9	20.7	32 W	—	24*
1 4	17 3.96	−42 1.3	0.744	0.513	101.4	20.6	31 W	—	24*
1 6	17 13.90	−39 51.3	0.773	0.493	99.5	20.5	30 W	—	23*
1 8	17 23.87	−37 39.9	0.805	0.475	97.1	20.4	29 W	—	22*
1 10	17 33.96	−35 27.6	0.837	0.458	94.1	20.3	28 W	—	22*
1 12	17 44.25	−33 15.2	0.872	0.444	90.7	20.1	27 W	—	21*
1 14	17 54.79	−31 3.5	0.908	0.431	86.8	20.0	26 W	2*	20*
1 16	18 5.63	−28 53.2	0.946	0.421	82.5	19.9	25 W	3*	19*
1 18	18 16.78	−26 45.2	0.984	0.414	77.8	19.8	24 W	4*	18*
1 20	18 28.22	−24 40.4	1.023	0.410	72.9	19.7	23 W	5*	17*
1 22	18 39.91	−22 39.4	1.062	0.410	67.8	19.6	23 W	6*	15*
1 24	18 51.80	−20 43.1	1.102	0.413	62.8	19.5	22 W	7*	14*
1 26	19 3.81	−18 51.8	1.141	0.419	58.0	19.5	21 W	8*	13*
1 28	19 15.86	−17 5.9	1.179	0.429	53.3	19.5	20 W	8*	12*
1 30	19 27.89	−15 25.4	1.216	0.441	49.1	19.5	20 W	9*	10*
2 1	19 39.81	−13 50.4	1.252	0.455	45.2	19.5	19 W	9*	9*
2 3	19 51.57	−12 20.7	1.287	0.472	41.6	19.5	19 W	9*	8*
2 5	20 3.13	−10 56.0	1.321	0.490	38.5	19.6	18 W	9*	7*
2 10	20 31.00	− 7 44.4	1.401	0.539	32.1	19.8	17 W	10*	5*
2 15	20 57.24	− 4 57.7	1.475	0.592	27.4	19.9	16 W	9*	3*
2 20	21 21.85	− 2 31.4	1.544	0.645	23.9	20.1	15 W	9*	2*
2 25	21 44.94	− 0 22.0	1.608	0.698	21.1	20.3	15 W	9*	1*
3 2	22 6.69	+ 1 33.6	1.669	0.749	18.9	20.5	14 W	8*	—
3 7	22 27.25	+ 3 17.4	1.726	0.797	17.1	20.6	14 W	8*	—
3 12	22 46.79	+ 4 51.4	1.779	0.843	15.7	20.7	13 W	7*	—
3 17	23 5.42	+ 6 17.0	1.827	0.885	14.5	20.9	13 W	7*	—
3 22	23 23.29	+ 7 35.2	1.872	0.925	13.5	21.0	13 W	6*	—
3 27	23 40.49	+ 8 46.8	1.913	0.962	12.8	21.1	12 W	6*	1*
4 1	23 57.12	+ 9 52.7	1.950	0.996	12.2	21.2	12 W	6*	1*
4 6	0 13.29	+10 53.4	1.982	1.027	12.0	21.3	12 W	5*	2*
4 11	0 29.06	+11 49.2	2.011	1.055	11.9	21.4	13 W	5*	3*
4 16	0 44.49	+12 40.6	2.035	1.080	12.0	21.4	13 W	5*	4*
		523616 2007 LC_{15}							
12 27	16 22.59	− 5 18.7	1.452	0.846	40.9	20.7	34 W	26*	12*
1 1	16 36.18	− 5 18.9	1.513	0.919	38.8	20.9	36 W	27*	14*
1 6	16 48.90	− 5 19.3	1.566	0.990	37.3	21.1	38 W	28*	16*
1 11	17 0.85	− 5 18.8	1.611	1.058	36.3	21.2	40 W	29*	19*
1 16	17 12.08	− 5 16.5	1.649	1.123	35.6	21.4	42 W	30*	22*
		397441 2007 EH_1							
12 27	16 23.06	−20 24.5	2.638	1.830	14.6	21.0	28 W	13*	18*
1 6	16 48.07	−20 0.2	2.608	1.856	16.6	21.1	33 W	15*	22*
1 16	17 12.25	−19 18.9	2.571	1.884	18.4	21.2	37 W	17*	27*
1 26	17 35.46	−18 21.0	2.527	1.913	20.2	21.2	42 W	19*	32*
2 5	17 57.57	−17 7.3	2.476	1.943	21.8	21.3	47 W	21*	38*
2 15	18 18.45	−15 38.6	2.418	1.973	23.3	21.3	52 W	23*	43*
2 25	18 37.98	−13 56.0	2.354	2.004	24.6	21.3	57 W	25*	48*
3 7	18 56.04	−12 0.5	2.284	2.035	25.7	21.3	63 W	27*	53*
3 17	19 12.51	− 9 53.3	2.210	2.066	26.6	21.3	69 W	29*	58*
3 27	19 27.24	− 7 35.9	2.131	2.097	27.3	21.3	74 W	32*	62*
4 6	19 40.10	− 5 9.6	2.050	2.128	27.6	21.2	81 W	35*	65*
4 16	19 50.91	− 2 36.0	1.968	2.159	27.6	21.2	87 W	38*	66*
4 26	19 59.45	+ 0 2.7	1.886	2.190	27.3	21.1	93 W	42*	64
5 6	20 5.52	+ 2 44.0	1.807	2.221	26.5	21.0	100 W	46*	61
5 16	20 8.87	+ 5 24.5	1.732	2.251	25.4	20.9	107 W	50*	59
5 26	20 9.30	+ 7 59.2	1.664	2.281	23.8	20.8	115 W	53*	56
6 5	20 6.72	+10 22.3	1.606	2.310	21.9	20.7	122 W	55	54
6 15	20 1.17	+12 26.6	1.561	2.339	19.7	20.6	129 W	57	52
6 25	19 53.05	+14 3.9	1.533	2.367	17.5	20.5	135 W	59	50
7 5	19 43.06	+15 7.6	1.523	2.395	15.7	20.5	140 W	60	49
7 15	19 32.22	+15 33.4	1.533	2.422	14.7	20.5	143 E	61	48
7 20	19 26.87	+15 31.9	1.546	2.435	14.5	20.5	143 E	61	48
7 25	19 21.75	+15 21.4	1.564	2.448	14.7	20.5	142 E	60	49
7 30	19 17.00	+15 2.7	1.587	2.461	15.0	20.6	141 E	60	49
8 4	19 12.73	+14 36.6	1.616	2.474	15.6	20.7	139 E	60	49
8 9	19 9.04	+14 4.1	1.649	2.486	16.2	20.7	137 E	59	50
8 14	19 5.99	+13 26.4	1.687	2.499	17.0	20.8	134 E	58	51
8 19	19 3.64	+12 44.8	1.729	2.511	17.7	20.9	131 E	58	51

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			397441 2007 EH_1				*(continuation)*		
	h m	° ′			°	m	°	°	°
8 24	19 2.01	+12 0.3	1.776	2.523	18.5	21.0	128 E	57	52
8 29	19 1.08	+11 14.0	1.825	2.535	19.2	21.1	124 E	56	53
9 3	19 0.87	+10 26.7	1.879	2.546	19.9	21.2	121 E	55	54
9 8	19 1.35	+ 9 39.2	1.935	2.557	20.5	21.3	117 E	55	54
9 13	19 2.49	+ 8 52.4	1.994	2.569	21.0	21.4	114 E	54	55
9 18	19 4.27	+ 8 6.8	2.055	2.580	21.5	21.5	110 E	53	56
			56950 2000 SA_2						
12 27	16 23.28	−29 55.6	2.626	1.812	14.6	18.7	28 W	5*	21*
1 6	16 52.26	−31 54.3	2.551	1.787	16.7	18.7	31 W	4*	25*
1 16	17 22.81	−33 36.2	2.475	1.763	18.7	18.7	35 W	3*	29*
1 26	17 54.82	−34 58.4	2.399	1.740	20.6	18.6	39 W	2*	32*
1 31	18 11.30	−35 31.1	2.361	1.730	21.6	18.6	40 W	2*	34*
2 5	18 28.07	−35 57.7	2.323	1.720	22.5	18.6	42 W	1*	36*
2 10	18 45.08	−36 18.1	2.286	1.711	23.4	18.6	44 W	—	37*
2 15	19 2.27	−36 32.0	2.249	1.703	24.3	18.5	45 W	—	38*
2 20	19 19.57	−36 39.3	2.213	1.695	25.1	18.5	47 W	—	39*
2 25	19 36.94	−36 39.7	2.177	1.687	25.9	18.5	48 W	—	40*
3 2	19 54.30	−36 33.5	2.143	1.681	26.7	18.5	50 W	—	42*
3 7	20 11.61	−36 20.6	2.108	1.675	27.5	18.5	51 W	—	43*
3 12	20 28.79	−36 1.3	2.075	1.670	28.2	18.4	53 W	—	44*
3 17	20 45.78	−35 35.7	2.042	1.665	28.9	18.4	54 W	—	45*
3 27	21 18.98	−34 27.5	1.979	1.658	30.2	18.4	57 W	—	47*
4 6	21 50.85	−32 59.1	1.919	1.654	31.4	18.3	60 W	—	49*
4 16	22 21.13	−31 15.0	1.861	1.653	32.5	18.3	62 W	—	52*
4 26	22 49.64	−29 19.3	1.804	1.656	33.5	18.3	65 W	—	55*
5 6	23 16.29	−27 16.6	1.748	1.661	34.3	18.2	68 W	—	59*
5 16	23 41.06	−25 10.9	1.692	1.669	35.0	18.2	71 W	—	63*
5 26	0 3.88	−23 5.9	1.635	1.680	35.5	18.2	75 W	2*	67*
6 5	0 24.76	−21 4.7	1.577	1.694	35.9	18.1	78 W	5*	72*
6 15	0 43.61	−19 10.0	1.517	1.710	36.1	18.0	82 W	9*	76*
6 25	1 0.31	−17 23.8	1.455	1.729	36.0	18.0	87 W	14*	79*
7 5	1 14.70	−15 47.4	1.390	1.750	35.5	17.9	92 W	19*	80*
7 15	1 26.50	−14 21.9	1.324	1.773	34.6	17.8	98 W	24*	78
7 25	1 35.34	−13 7.3	1.257	1.798	33.2	17.7	104 W	29*	77
8 4	1 40.82	−12 3.2	1.191	1.824	31.2	17.5	111 W	32*	76
8 14	1 42.43	−11 8.1	1.129	1.852	28.4	17.4	120 W	34	75
8 24	1 39.74	−10 18.9	1.074	1.881	24.7	17.2	129 W	35	74
9 3	1 32.56	− 9 31.3	1.030	1.911	20.2	17.0	139 W	35	74
9 13	1 21.14	− 8 40.2	1.003	1.942	14.8	16.8	150 W	36	73
9 23	1 6.56	− 7 39.9	0.996	1.974	9.2	16.6	162 W	37	72
10 3	0 50.57	− 6 27.4	1.015	2.007	5.4	16.5	169 W	39	70
10 13	0 35.25	− 5 2.8	1.061	2.039	7.6	16.7	164 E	40	69
10 23	0 22.45	− 3 28.3	1.133	2.072	12.3	17.1	154 E	42	67
11 2	0 13.24	− 1 47.8	1.228	2.106	16.6	17.5	143 E	43	66
11 12	0 7.94	− 0 3.8	1.344	2.139	20.0	17.8	132 E	45	64
11 22	0 6.39	+ 1 42.0	1.475	2.172	22.5	18.1	123 E	47	62
12 2	0 8.11	+ 3 28.9	1.618	2.205	24.2	18.4	114 E	48	61
12 12	0 12.60	+ 5 16.7	1.770	2.238	25.1	18.6	105 E	50	58*
12 22	0 19.38	+ 7 5.5	1.927	2.270	25.5	18.9	97 E	52	54*
1 1	0 28.01	+ 8 55.0	2.086	2.302	25.3	19.1	90 E	54	48*
1 11	0 38.18	+10 45.2	2.247	2.334	24.7	19.2	83 E	56	42*
1 21	0 49.60	+12 35.7	2.405	2.365	23.8	19.4	76 E	57*	37*
			7604 Kridsadaporn						
12 27	16 23.61	− 3 48.2	5.648	4.874	6.6	21.0	35 W	27*	11*
1 6	16 31.67	− 3 51.0	5.553	4.868	7.8	21.0	42 W	31*	19*
1 16	16 39.31	− 3 47.4	5.440	4.861	8.9	21.0	50 W	35*	28*
1 26	16 46.38	− 3 37.1	5.312	4.853	9.8	21.0	57 W	37*	37*
2 5	16 52.75	− 3 20.3	5.171	4.845	10.7	21.0	65 W	39*	46*
2 15	16 58.28	− 2 57.1	5.020	4.836	11.3	20.9	74 W	41*	54*
2 25	17 2.84	− 2 28.1	4.862	4.826	11.7	20.9	82 W	42*	60*
3 7	17 6.28	− 1 53.6	4.701	4.816	11.9	20.8	91 W	43*	65*
3 17	17 8.46	− 1 14.5	4.539	4.805	11.8	20.7	99 W	44	65
3 27	17 9.28	− 0 32.0	4.383	4.793	11.4	20.6	108 W	44	65
4 6	17 8.65	+ 0 12.7	4.235	4.780	10.7	20.5	117 W	45	64
4 16	17 6.54	+ 0 57.7	4.101	4.767	9.7	20.4	127 W	46	63
4 26	17 2.98	+ 1 40.9	3.984	4.753	8.6	20.3	135 W	47	62
5 6	16 58.12	+ 2 20.0	3.888	4.738	7.3	20.2	144 W	47	62
5 16	16 52.16	+ 2 52.5	3.817	4.722	6.1	20.1	150 W	48	61
5 26	16 45.46	+ 3 16.2	3.773	4.706	5.4	20.0	154 W	48	61
6 5	16 38.39	+ 3 29.4	3.757	4.689	5.5	20.0	154 E	48	61
6 15	16 31.41	+ 3 31.1	3.769	4.671	6.4	20.0	149 E	49	60
6 25	16 24.94	+ 3 21.1	3.808	4.652	7.7	20.1	142 E	48	61
7 5	16 19.35	+ 3 0.1	3.870	4.633	9.1	20.2	134 E	48	61
7 15	16 14.93	+ 2 29.3	3.953	4.613	10.4	20.3	125 E	47	62
7 25	16 11.86	+ 1 50.4	4.053	4.592	11.4	20.4	116 E	47*	62
8 4	16 10.23	+ 1 5.3	4.165	4.571	12.2	20.4	107 E	45*	63
8 14	16 10.06	+ 0 15.8	4.285	4.548	12.7	20.5	99 E	43*	64
8 24	16 11.32	− 0 36.6	4.408	4.525	12.9	20.6	90 E	41*	65*
9 3	16 13.93	− 1 30.3	4.532	4.501	12.8	20.6	82 E	38*	63*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			7604 Kridsadaporn				*(continuation)*		
	h m	° ′			°	m	°	°	°
9 13	16 17.79	− 2 24.1	4.653	4.476	12.5	20.6	74 E	36*	59*
9 23	16 22.79	− 3 16.9	4.766	4.451	11.9	20.7	66 E	34*	53*
10 3	16 28.82	− 4 7.6	4.871	4.425	11.1	20.7	58 E	31*	46*
10 13	16 35.78	− 4 55.6	4.963	4.397	10.1	20.6	51 E	29*	38*
10 23	16 43.54	− 5 40.1	5.040	4.370	9.0	20.6	43 E	26*	30*
11 2	16 52.01	− 6 20.5	5.102	4.341	7.8	20.6	36 E	23*	22*
11 12	17 1.09	− 6 56.2	5.145	4.311	6.5	20.5	29 E	20*	14*
11 22	17 10.66	− 7 26.8	5.170	4.281	5.2	20.5	23 E	16*	6*
12 2	17 20.63	− 7 52.0	5.175	4.250	4.2	20.4	18 E	12*	—
12 12	17 30.90	− 8 11.5	5.160	4.218	3.5	20.3	15 E	7*	—
12 22	17 41.37	− 8 24.9	5.124	4.185	3.6	20.3	16 W	8*	—
1 1	17 51.94	− 8 32.3	5.067	4.151	4.5	20.3	19 W	13*	—
1 11	18 2.50	− 8 33.4	4.991	4.117	5.7	20.3	25 W	18*	6*
1 21	18 12.94	− 8 28.5	4.895	4.081	7.1	20.3	31 W	21*	14*
			7888 1993 UC						
12 27	16 24.40	− 6 17.9	2.227	1.505	21.0	18.8	33 W	25*	12*
1 6	16 49.30	− 5 49.9	2.269	1.602	21.8	19.0	37 W	28*	16*
1 16	17 12.12	− 5 8.5	2.300	1.696	22.7	19.1	42 W	30*	22*
1 26	17 32.93	− 4 14.6	2.320	1.789	23.5	19.3	46 W	32*	27*
2 5	17 51.74	− 3 9.4	2.329	1.879	24.2	19.4	51 W	34*	33*
2 15	18 8.58	− 1 53.8	2.326	1.967	24.8	19.6	57 W	36*	39*
2 25	18 23.37	− 0 29.2	2.311	2.052	25.3	19.6	63 W	39*	45*
3 7	18 36.07	+ 1 3.2	2.287	2.136	25.6	19.7	69 W	41*	50*
3 17	18 46.57	+ 2 42.0	2.253	2.216	25.7	19.8	75 W	43*	54*
3 27	18 54.73	+ 4 25.5	2.212	2.295	25.5	19.8	82 W	46*	57*
4 6	19 0.40	+ 6 11.4	2.166	2.371	25.0	19.8	89 W	49*	58*
4 16	19 3.40	+ 7 57.2	2.117	2.445	24.1	19.8	97 W	52*	56
4 26	19 3.57	+ 9 39.0	2.070	2.517	22.8	19.8	104 W	54*	54
5 6	19 0.84	+11 12.6	2.027	2.587	21.1	19.7	112 W	56	53
5 11	18 58.39	+11 54.6	2.009	2.621	20.2	19.7	117 W	57	52
5 16	18 55.25	+12 32.4	1.993	2.654	19.1	19.7	121 W	58	51
5 21	18 51.44	+13 5.2	1.981	2.687	18.1	19.7	125 W	58	51
5 26	18 47.05	+13 32.3	1.973	2.720	17.0	19.6	128 W	59	50
6 5	18 36.78	+14 7.0	1.970	2.783	14.9	19.6	135 W	59	50
6 15	18 25.21	+14 12.5	1.988	2.845	13.2	19.6	140 W	59	50
6 25	18 13.36	+13 47.8	2.029	2.905	12.2	19.7	143 E	59	50
7 5	18 2.19	+12 55.4	2.095	2.962	12.2	19.8	142 E	58	51
7 10	17 57.13	+12 20.3	2.137	2.991	12.5	19.9	140 E	57	52
7 15	17 52.53	+11 40.2	2.185	3.018	13.0	20.0	138 E	57	52
7 20	17 48.46	+10 56.2	2.239	3.046	13.6	20.1	135 E	56	53
7 25	17 44.96	+10 9.0	2.298	3.073	14.2	20.1	132 E	55	54
7 30	17 42.05	+ 9 19.5	2.361	3.099	14.8	20.2	129 E	54	55
8 4	17 39.74	+ 8 28.5	2.430	3.125	15.4	20.3	125 E	53	56
8 14	17 36.91	+ 6 44.5	2.578	3.176	16.4	20.5	117 E	52	57
8 24	17 36.38	+ 5 1.5	2.740	3.225	17.2	20.7	110 E	50	59
9 3	17 37.92	+ 3 22.9	2.911	3.272	17.6	20.9	102 E	48*	61
9 13	17 41.30	+ 1 50.8	3.088	3.318	17.6	21.1	94 E	46*	62*
9 23	17 46.30	+ 0 26.7	3.268	3.362	17.3	21.2	87 E	44*	62*
10 3	17 52.66	− 0 48.7	3.447	3.405	16.8	21.3	79 E	42*	59*
10 13	18 0.18	− 1 55.0	3.624	3.446	16.0	21.4	72 E	40*	53*
			301988 2000 NN_{10}						
12 27	16 26.32	−24 43.8	3.434	2.594	9.8	20.9	27 W	9*	19*
1 6	16 44.76	−24 47.8	3.338	2.567	11.9	20.9	33 W	11*	25*
1 16	17 3.15	−24 42.3	3.231	2.539	14.0	20.9	39 W	13*	31*
1 26	17 21.37	−24 26.7	3.112	2.510	16.0	20.8	45 W	15*	37*
2 5	17 39.30	−24 0.3	2.983	2.481	17.9	20.8	51 W	16*	44*
2 15	17 56.81	−23 22.8	2.845	2.451	19.7	20.7	57 W	17*	50*
2 25	18 13.75	−22 33.7	2.701	2.420	21.4	20.6	63 W	19*	56*
3 7	18 29.99	−21 32.8	2.551	2.389	22.9	20.5	69 W	20*	63*
3 17	18 45.35	−20 19.6	2.397	2.357	24.1	20.4	76 W	22*	69*
3 27	18 59.65	−18 54.0	2.241	2.325	25.2	20.2	82 W	24*	75*
4 6	19 12.71	−17 15.7	2.084	2.292	25.9	20.1	89 W	26*	79*
4 16	19 24.28	−15 24.4	1.930	2.259	26.2	19.9	95 W	28*	79
4 26	19 34.08	−13 19.8	1.779	2.225	26.2	19.7	102 W	30*	77
5 6	19 41.85	−11 1.8	1.634	2.191	25.7	19.4	110 W	33*	75
5 16	19 47.21	− 8 30.7	1.498	2.156	24.6	19.2	117 W	36*	73
5 26	19 49.80	− 5 47.7	1.373	2.122	23.0	18.9	125 W	39	70
6 5	19 49.31	− 2 55.2	1.261	2.088	20.9	18.6	133 W	42	67
6 10	19 47.82	− 1 26.8	1.212	2.070	19.7	18.5	137 W	44	65
6 15	19 45.50	+ 0 1.8	1.167	2.053	18.4	18.3	140 W	45	64
6 20	19 42.35	+ 1 29.5	1.126	2.036	17.2	18.2	144 W	46	63
6 25	19 38.44	+ 2 54.9	1.091	2.019	16.0	18.1	147 W	48	61
6 30	19 33.84	+ 4 16.8	1.061	2.002	15.1	18.0	149 W	49	60
7 5	19 28.65	+ 5 33.4	1.036	1.985	14.6	17.9	151 W	51	58
7 10	19 23.02	+ 6 43.1	1.017	1.969	14.5	17.8	151 W	52	57
7 15	19 17.15	+ 7 44.6	1.003	1.952	15.0	17.8	150 E	53	56

301988 2000 NN_{10} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 20	19 11.24	+ 8 36.7	0.995	1.936	15.9	17.8	149 E	54	55
7 25	19 5.51	+ 9 18.9	0.991	1.919	17.2	17.8	146 E	54	55
8 4	18 55.36	+10 12.5	0.998	1.888	20.5	17.9	139 E	55	54
8 14	18 48.11	+10 27.6	1.020	1.857	24.0	18.0	132 E	55	54
8 24	18 44.69	+10 12.0	1.054	1.827	27.2	18.1	124 E	55	54
8 29	18 44.53	+ 9 55.7	1.075	1.813	28.6	18.2	121 E	55	54
9 3	18 45.41	+ 9 35.1	1.097	1.799	29.9	18.3	117 E	55	54
9 8	18 47.32	+ 9 11.4	1.121	1.785	31.1	18.3	114 E	54	55
9 13	18 50.24	+ 8 45.6	1.146	1.772	32.1	18.4	111 E	54	55
9 18	18 54.13	+ 8 18.8	1.172	1.759	33.0	18.5	108 E	53	56
9 23	18 58.92	+ 7 51.6	1.198	1.747	33.8	18.5	105 E	53	56
9 28	19 4.58	+ 7 24.7	1.225	1.736	34.4	18.6	102 E	52	57
10 3	19 11.04	+ 6 58.8	1.253	1.724	34.9	18.6	99 E	52	57
10 13	19 26.24	+ 6 11.9	1.309	1.704	35.7	18.7	94 E	51	57*
10 23	19 44.10	+ 5 34.7	1.366	1.686	36.2	18.8	90 E	51	56*
11 2	20 4.24	+ 5 9.5	1.423	1.670	36.3	18.9	86 E	50	53*
11 12	20 26.34	+ 4 58.1	1.482	1.657	36.2	18.9	82 E	50*	50*
11 22	20 50.04	+ 5 1.4	1.543	1.648	35.9	19.0	78 E	50*	46*
12 2	21 15.02	+ 5 19.6	1.606	1.641	35.3	19.1	74 E	50*	42*
12 12	21 41.00	+ 5 52.2	1.671	1.638	34.6	19.1	71 E	50*	37*
12 22	22 7.71	+ 6 38.0	1.739	1.637	33.7	19.2	67 E	50*	33*
1 1	22 34.91	+ 7 35.1	1.811	1.640	32.6	19.2	64 E	50*	29*
1 11	23 2.42	+ 8 41.5	1.886	1.646	31.4	19.3	61 E	49*	26*
1 21	23 30.06	+ 9 54.5	1.964	1.655	30.0	19.4	57 E	47*	23*

191589 2004 FQ_5

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 26.85	− 5 51.1	2.882	2.127	14.6	20.6	33 W	25*	11*
1 6	16 48.67	− 6 15.3	2.791	2.094	16.5	20.5	37 W	27*	17*
1 16	17 10.82	− 6 27.2	2.694	2.062	18.4	20.5	41 W	29*	22*
1 26	17 33.20	− 6 26.2	2.593	2.028	20.3	20.4	45 W	30*	28*
2 5	17 55.75	− 6 12.3	2.489	1.995	22.1	20.3	50 W	31*	34*
2 15	18 18.38	− 5 45.5	2.381	1.963	23.9	20.3	54 W	32*	39*
2 25	18 41.00	− 5 6.0	2.272	1.930	25.6	20.2	57 W	33*	43*
3 7	19 3.55	− 4 14.9	2.162	1.897	27.3	20.1	61 W	33*	48*
3 17	19 25.95	− 3 13.1	2.052	1.866	28.9	20.0	65 W	34*	52*
3 27	19 48.12	− 2 2.2	1.941	1.834	30.5	19.9	69 W	35*	55*
4 6	20 10.03	− 0 44.3	1.831	1.804	31.9	19.8	73 W	36*	57*
4 16	20 31.62	+ 0 38.4	1.722	1.775	33.3	19.6	76 W	37*	59*
4 26	20 52.85	+ 2 3.1	1.614	1.747	34.5	19.5	80 W	38*	60*
5 6	21 13.71	+ 3 26.6	1.508	1.721	35.6	19.3	84 W	40*	60*
5 16	21 34.13	+ 4 45.1	1.403	1.696	36.6	19.2	88 W	42*	59
5 21	21 44.15	+ 5 21.1	1.352	1.685	36.9	19.1	90 W	43*	59
5 26	21 54.05	+ 5 54.2	1.301	1.674	37.2	19.0	92 W	44*	58
5 31	22 3.82	+ 6 23.7	1.251	1.663	37.5	18.9	94 W	45*	58
6 5	22 13.43	+ 6 48.8	1.201	1.653	37.6	18.8	96 W	46*	57
6 10	22 22.87	+ 7 8.9	1.152	1.644	37.7	18.7	98 W	47*	57
6 15	22 32.12	+ 7 22.9	1.104	1.635	37.6	18.6	101 W	48*	57
6 20	22 41.15	+ 7 29.8	1.057	1.627	37.4	18.5	103 W	49*	57
6 25	22 49.94	+ 7 28.8	1.010	1.620	37.1	18.4	106 W	50*	57
6 30	22 58.46	+ 7 18.7	0.965	1.613	36.6	18.2	109 W	51*	57
7 5	23 6.67	+ 6 58.3	0.921	1.607	35.9	18.1	112 W	51*	57
7 10	23 14.51	+ 6 26.2	0.879	1.602	35.1	18.0	115 W	51*	58
7 15	23 21.93	+ 5 41.0	0.839	1.597	34.0	17.8	119 W	51	58
7 20	23 28.88	+ 4 41.5	0.800	1.594	32.7	17.7	122 W	50	59
7 25	23 35.30	+ 3 26.5	0.764	1.591	31.1	17.6	126 W	48	61
7 30	23 41.12	+ 1 55.0	0.731	1.589	29.2	17.4	130 W	47	62
8 4	23 46.28	+ 0 6.2	0.701	1.587	27.1	17.2	135 W	45	64
8 14	23 54.31	− 4 22.6	0.651	1.587	22.0	16.9	144 W	41	68
8 24	23 59.11	− 9 48.5	0.620	1.590	16.5	16.7	153 W	35	74
9 3	0 0.71	−15 42.0	0.609	1.596	12.2	16.5	160 W	29	80
9 8	0 0.46	−18 35.6	0.612	1.600	11.5	16.5	162 W	26	83
9 13	23 59.70	−21 19.6	0.621	1.605	12.1	16.5	161 W	24	85
9 18	23 58.62	−23 48.7	0.635	1.611	13.6	16.6	158 W	21	88
9 23	23 57.40	−25 59.4	0.654	1.617	15.8	16.8	154 E	19	90
9 28	23 56.23	−27 49.5	0.678	1.624	18.1	16.9	150 E	17	88
10 3	23 55.30	−29 18.0	0.706	1.632	20.3	17.1	145 E	16	87
10 8	23 54.78	−30 24.9	0.738	1.641	22.5	17.3	141 E	15	86
10 13	23 54.81	−31 11.4	0.773	1.650	24.4	17.5	137 E	14	85
10 18	23 55.47	−31 38.9	0.812	1.660	26.1	17.6	133 E	13	84
10 23	23 56.81	−31 49.4	0.853	1.670	27.5	17.8	129 E	13	84
10 28	23 58.84	−31 44.9	0.896	1.681	28.8	18.0	125 E	13	84
11 2	0 1.55	−31 27.1	0.942	1.692	29.8	18.1	122 E	14	85
11 7	0 4.93	−30 57.8	0.990	1.704	30.7	18.3	119 E	14	85
11 12	0 8.93	−30 18.5	1.039	1.716	31.4	18.4	116 E	15	86
11 17	0 13.50	−29 30.8	1.090	1.729	31.9	18.5	112 E	15	86
11 22	0 18.59	−28 35.8	1.142	1.742	32.3	18.7	110 E	16	87
11 27	0 24.14	−27 34.9	1.196	1.756	32.6	18.8	107 E	17	88
12 2	0 30.10	−26 28.7	1.250	1.770	32.7	18.9	104 E	19	90

191589 2004 FQ_5 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 7	0 36.45	−25 18.3	1.306	1.784	32.8	19.0	101 E	20	89
12 12	0 43.13	−24 4.3	1.363	1.799	32.7	19.1	99 E	21	88
12 17	0 50.11	−22 47.6	1.421	1.814	32.6	19.2	96 E	22	86*
12 22	0 57.35	−21 28.7	1.479	1.829	32.5	19.3	94 E	24	83*
12 27	1 4.83	−20 8.2	1.538	1.844	32.2	19.4	91 E	25	80*
1 1	1 12.51	−18 46.5	1.598	1.860	31.9	19.5	89 E	26	76*
1 6	1 20.38	−17 24.0	1.659	1.876	31.6	19.6	86 E	28	73*
1 11	1 28.43	−16 1.2	1.720	1.892	31.1	19.7	84 E	29	70*
1 16	1 36.63	−14 38.5	1.781	1.908	30.7	19.8	82 E	30	67*
1 21	1 44.97	−13 16.2	1.843	1.924	30.2	19.9	79 E	32	64*

495829 1995 LG

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 28.53	−42 41.5	1.363	0.720	44.1	20.4	31 W	—	24*
12 29	16 35.00	−43 9.8	1.396	0.755	42.6	20.5	31 W	—	24*
12 31	16 41.43	−43 34.6	1.426	0.789	41.3	20.6	32 W	—	25*
1 2	16 47.79	−43 56.4	1.455	0.823	40.2	20.7	33 W	—	25*
1 4	16 54.07	−44 15.5	1.482	0.855	39.3	20.8	33 W	—	26*
1 6	17 0.26	−44 32.3	1.508	0.886	38.5	20.9	34 W	—	27*
1 11	17 15.29	−45 5.9	1.565	0.961	36.9	21.1	36 W	—	28*
1 16	17 29.65	−45 30.2	1.612	1.031	35.9	21.3	38 W	—	30*
1 21	17 43.32	−45 47.6	1.651	1.097	35.2	21.4	40 W	—	32*
1 26	17 56.31	−45 59.8	1.681	1.159	34.8	21.6	42 W	—	34*

6564 Asher

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 29.27	− 2 40.4	2.318	1.607	20.3	20.1	35 W	27*	9*
1 6	16 56.27	− 1 1.1	2.291	1.640	21.9	20.1	38 W	31*	13*
1 16	17 22.68	+ 0 54.8	2.264	1.674	23.3	20.2	42 W	34*	17*
1 26	17 48.36	+ 3 6.7	2.236	1.708	24.5	20.3	46 W	36*	20*
2 5	18 13.18	+ 5 33.3	2.209	1.743	25.6	20.3	50 W	39*	24*
2 15	18 37.04	+ 8 13.0	2.183	1.777	26.4	20.3	53 W	42*	27*
2 25	18 59.80	+11 4.0	2.157	1.812	27.1	20.4	57 W	44*	30*
3 7	19 21.37	+14 3.8	2.132	1.846	27.7	20.4	60 W	47*	33*
3 17	19 41.65	+17 10.4	2.107	1.879	28.2	20.4	63 W	49*	34*
3 27	20 0.52	+20 21.3	2.081	1.912	28.5	20.5	66 W	52*	35*
4 6	20 17.88	+23 34.4	2.054	1.945	28.8	20.5	70 W	55*	36*
4 16	20 33.59	+26 47.5	2.026	1.976	29.0	20.5	73 W	58*	35*
4 26	20 47.46	+29 58.4	1.995	2.007	29.1	20.5	76 W	61*	33*
5 6	20 59.32	+33 5.0	1.962	2.037	29.1	20.5	80 W	65*	31*
5 11	21 4.40	+34 35.9	1.944	2.051	29.1	20.5	81 W	67*	29
5 16	21 8.88	+36 4.8	1.925	2.066	29.1	20.5	83 W	69*	28
5 21	21 12.70	+37 31.2	1.906	2.080	29.0	20.5	85 W	72*	26
5 26	21 15.83	+38 54.6	1.886	2.093	28.9	20.5	87 W	75*	25
5 31	21 18.23	+40 14.7	1.866	2.107	28.8	20.4	89 W	77*	24
6 5	21 19.84	+41 30.9	1.845	2.120	28.6	20.4	91 W	81*	22
6 10	21 20.62	+42 42.5	1.823	2.133	28.4	20.4	93 W	84*	21
6 15	21 20.53	+43 48.7	1.802	2.145	28.1	20.4	95 W	87*	20
6 20	21 19.54	+44 48.6	1.780	2.158	27.9	20.4	97 W	90	19
6 25	21 17.63	+45 41.3	1.758	2.170	27.5	20.3	99 W	89	18
6 30	21 14.82	+46 25.8	1.736	2.181	27.2	20.3	102 W	89	18
7 5	21 11.12	+47 1.1	1.715	2.193	26.8	20.3	104 W	88	17
7 10	21 6.60	+47 25.9	1.694	2.204	26.3	20.3	106 W	88	17
7 15	21 1.34	+47 39.0	1.675	2.214	25.8	20.2	108 W	87	16
7 20	20 55.51	+47 39.4	1.657	2.225	25.3	20.2	110 W	87	16
7 25	20 49.27	+47 26.4	1.640	2.235	24.8	20.2	112 W	88	17
7 30	20 42.81	+46 59.3	1.626	2.245	24.3	20.1	114 W	88	17
8 4	20 36.34	+46 17.7	1.614	2.254	23.8	20.1	116 E	89	18
8 9	20 30.09	+45 21.8	1.605	2.263	23.3	20.1	118 E	90	19
8 14	20 24.25	+44 11.8	1.598	2.272	22.9	20.1	119 E	89	20
8 19	20 19.00	+42 48.8	1.596	2.281	22.5	20.1	120 E	88	21
8 24	20 14.49	+41 14.2	1.597	2.289	22.2	20.1	121 E	86	23
8 29	20 10.80	+39 29.2	1.602	2.297	22.0	20.1	121 E	84	25
9 3	20 7.99	+37 35.8	1.612	2.304	21.9	20.1	121 E	83	26
9 8	20 6.10	+35 35.8	1.626	2.311	22.0	20.1	121 E	81	28
9 13	20 5.13	+33 31.2	1.644	2.318	22.1	20.2	120 E	79	30
9 18	20 5.05	+31 23.9	1.667	2.324	22.3	20.2	119 E	76	33
9 23	20 5.82	+29 16.0	1.695	2.330	22.5	20.3	117 E	74	35
9 28	20 7.38	+27 9.1	1.727	2.336	22.8	20.3	115 E	72	37
10 3	20 9.69	+25 4.5	1.763	2.342	23.2	20.4	113 E	70	39
10 8	20 12.70	+23 3.6	1.804	2.347	23.5	20.4	110 E	68	41
10 13	20 16.33	+21 7.6	1.848	2.352	23.9	20.5	108 E	66	43
10 18	20 20.54	+19 17.2	1.896	2.356	24.1	20.6	105 E	64	45
10 23	20 25.27	+17 33.1	1.947	2.360	24.4	20.6	102 E	63	46*
10 28	20 30.46	+15 55.6	2.001	2.364	24.6	20.7	99 E	61	47*
11 2	20 36.06	+14 25.1	2.057	2.367	24.7	20.8	95 E	59	48*
11 7	20 42.05	+13 1.6	2.116	2.370	24.7	20.8	92 E	58	48*
11 12	20 48.37	+11 45.2	2.176	2.373	24.7	20.9	89 E	57	47*
11 17	20 54.99	+10 35.8	2.237	2.375	24.5	21.0	86 E	56	46*
11 22	21 1.87	+ 9 33.3	2.299	2.377	24.3	21.0	82 E	55	44*
11 27	21 8.98	+ 8 37.3	2.362	2.379	24.0	21.1	79 E	54*	42*
12 2	21 16.30	+ 7 47.6	2.425	2.380	23.7	21.1	76 E	53*	40*
12 7	21 23.79	+ 7 4.0	2.488	2.381	23.2	21.2	72 E	51*	38*

6564 Asher *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 12	21 31.45	+ 6 26.1	2.550	2.382	22.7	21.2	69 E	50*	35*
12 17	21 39.24	+ 5 53.7	2.612	2.382	22.1	21.2	66 E	49*	32*
12 22	21 47.15	+ 5 26.4	2.672	2.382	21.5	21.3	62 E	48*	30*
12 27	21 55.15	+ 5 3.8	2.731	2.382	20.8	21.3	59 E	46*	27*
1 1	22 3.25	+ 4 45.7	2.789	2.381	20.0	21.3	56 E	44*	24*
1 6	22 11.43	+ 4 31.7	2.844	2.380	19.2	21.3	53 E	42*	22*
1 11	22 19.67	+ 4 21.6	2.897	2.378	18.3	21.3	49 E	40*	19*
1 16	22 27.97	+ 4 15.0	2.948	2.376	17.4	21.3	46 E	38*	17*
1 21	22 36.31	+ 4 11.6	2.996	2.374	16.4	21.3	43 E	35*	15*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 29.30	− 7 58.4	2.342	1.587	18.8	20.9	31 W	23*	11*
1 6	17 0.56	− 7 42.9	2.287	1.570	20.5	20.9	34 W	24*	15*
1 16	17 32.05	− 7 8.2	2.238	1.558	22.0	20.9	36 W	26*	18*
1 26	18 3.48	− 6 14.6	2.195	1.551	23.3	20.9	39 W	26*	21*
2 5	18 34.55	− 5 3.4	2.158	1.549	24.5	20.9	41 W	27*	24*
2 15	19 5.00	− 3 36.8	2.126	1.552	25.6	20.9	43 W	28*	27*
2 25	19 34.57	− 1 57.4	2.099	1.560	26.5	20.9	45 W	28*	30*
3 7	20 3.09	− 0 8.8	2.075	1.574	27.4	20.9	47 W	29*	33*
3 17	20 30.42	+ 1 45.9	2.053	1.591	28.2	20.9	49 W	30*	36*
3 27	20 56.45	+ 3 43.3	2.032	1.613	29.0	20.9	52 W	30*	38*
4 6	21 21.13	+ 5 40.4	2.009	1.640	29.7	21.0	54 W	31*	41*
4 16	21 44.43	+ 7 34.6	1.984	1.670	30.4	21.0	57 W	32*	43*
4 26	22 6.30	+ 9 23.3	1.954	1.703	31.0	21.0	61 W	34*	45*
5 6	22 26.71	+11 4.5	1.920	1.739	31.5	21.1	64 W	35*	47*
5 16	22 45.61	+12 36.1	1.879	1.778	31.9	21.1	68 W	38*	48*
5 26	23 2.88	+13 56.2	1.833	1.819	32.2	21.1	73 W	40*	49*
6 5	23 18.43	+15 2.8	1.780	1.862	32.3	21.1	78 W	44*	49*
6 15	23 32.07	+15 53.7	1.722	1.906	32.0	21.0	84 W	48*	48
6 25	23 43.60	+16 26.2	1.659	1.952	31.4	21.0	90 W	53*	48
7 5	23 52.76	+16 37.3	1.593	1.998	30.3	20.9	97 W	57*	47
7 15	23 59.27	+16 23.4	1.526	2.045	28.6	20.8	105 W	60*	48
7 25	0 2.88	+15 40.4	1.461	2.093	26.3	20.7	114 W	61	48
8 4	0 3.42	+14 24.8	1.402	2.141	23.1	20.6	124 W	59	50
8 14	0 0.89	+12 33.7	1.355	2.189	19.2	20.4	135 W	58	51
8 24	23 55.63	+10 8.2	1.324	2.238	14.5	20.3	146 W	55	54
8 29	23 52.18	+ 8 44.1	1.317	2.262	11.9	20.2	153 W	54	55
9 3	23 48.32	+ 7 14.2	1.316	2.286	9.2	20.1	159 W	52	57
9 8	23 44.20	+ 5 40.0	1.322	2.310	6.5	20.0	165 W	51	58
9 13	23 39.96	+ 4 3.6	1.334	2.334	3.8	19.9	171 W	49	60
9 18	23 35.77	+ 2 27.1	1.354	2.357	2.0	19.9	175 E	47	62
9 23	23 31.77	+ 0 52.7	1.382	2.381	3.0	20.0	173 E	46	63
9 28	23 28.08	− 0 37.9	1.417	2.405	5.2	20.2	167 E	44	65
10 3	23 24.80	− 2 3.0	1.459	2.428	7.6	20.4	161 E	43	66
10 8	23 22.04	− 3 21.4	1.508	2.452	9.8	20.6	155 E	42	67
10 13	23 19.85	− 4 32.2	1.563	2.475	11.8	20.8	149 E	40	69
10 18	23 18.27	− 5 34.9	1.625	2.498	13.7	20.9	144 E	39	70
10 23	23 17.32	− 6 29.3	1.691	2.521	15.3	21.1	138 E	39	70
10 28	23 17.00	− 7 15.7	1.763	2.544	16.7	21.2	133 E	38	71
11 2	23 17.28	− 7 54.2	1.838	2.567	17.9	21.4	128 E	37	72

102074 1999 RN_{143}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 29.59	−15 44.7	3.733	2.900	9.1	21.5	28 W	16*	15*
1 6	16 45.10	−16 4.6	3.638	2.878	11.1	21.5	34 W	19*	21*
1 16	17 0.50	−16 16.7	3.530	2.855	12.9	21.5	41 W	21*	29*
1 26	17 15.64	−16 21.0	3.409	2.831	14.7	21.4	47 W	23*	36*
2 5	17 30.43	−16 17.3	3.278	2.807	16.4	21.4	54 W	24*	43*
2 15	17 44.72	−16 5.8	3.137	2.781	17.9	21.3	60 W	25*	51*
2 25	17 58.37	−15 46.8	2.988	2.755	19.3	21.3	67 W	26*	58*
3 7	18 11.21	−15 20.5	2.833	2.728	20.4	21.2	74 W	27*	65*
3 17	18 23.06	−14 47.8	2.674	2.700	21.3	21.0	81 W	28*	71*
3 27	18 33.71	−14 9.2	2.512	2.671	21.9	20.9	88 W	30*	76*
4 6	18 42.95	−13 25.9	2.351	2.641	22.2	20.7	95 W	31*	77
4 16	18 50.51	−12 39.1	2.192	2.611	22.0	20.5	103 W	32*	77
4 26	18 56.10	−11 50.3	2.038	2.580	21.3	20.3	111 W	33*	76
5 6	18 59.45	−11 1.5	1.891	2.548	20.1	20.1	120 W	34	75
5 16	19 0.25	−10 15.0	1.755	2.515	18.3	19.9	129 W	35	74
5 26	18 58.30	− 9 33.5	1.634	2.482	15.8	19.6	138 W	35	74
6 5	18 53.55	− 9 0.1	1.529	2.448	12.7	19.3	148 W	36	73
6 15	18 46.17	− 8 38.1	1.445	2.414	9.4	19.0	157 W	36	73
6 25	18 36.77	− 8 30.1	1.385	2.379	6.7	18.8	164 W	36	73
7 5	18 26.30	− 8 37.9	1.349	2.344	6.8	18.7	164 E	36	73
7 15	18 15.99	− 9 1.4	1.339	2.308	10.0	18.8	157 E	36	73
7 25	18 7.12	− 9 39.1	1.351	2.272	14.1	18.9	147 E	35	74
8 4	18 0.72	−10 27.7	1.384	2.236	18.0	19.1	137 E	35	74
8 14	17 57.45	−11 23.7	1.433	2.199	21.5	19.2	127 E	34	75
8 24	17 57.61	−12 23.5	1.494	2.163	24.4	19.4	118 E	33	76
9 3	18 1.18	−13 23.6	1.564	2.126	26.6	19.5	110 E	32	77
9 13	18 7.98	−14 21.1	1.639	2.090	28.1	19.6	102 E	31*	78
9 23	18 17.74	−15 13.3	1.716	2.053	29.2	19.7	94 E	30*	79*
10 3	18 30.14	−15 58.1	1.794	2.018	29.7	19.8	88 E	29*	76*

102074 1999 RN_{143} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 13	18 44.92	−16 33.3	1.870	1.982	29.8	19.8	81 E	28*	71*
10 23	19 1.76	−16 57.1	1.944	1.948	29.6	19.9	75 E	27*	66*
11 2	19 20.40	−17 8.1	2.014	1.914	29.1	19.9	70 E	27*	60*
11 12	19 40.60	−17 4.8	2.080	1.881	28.4	19.9	65 E	27*	54*
11 22	20 2.11	−16 46.3	2.141	1.850	27.4	19.9	60 E	27*	48*
12 2	20 24.69	−16 12.0	2.198	1.820	26.3	19.9	55 E	27*	42*
12 12	20 48.17	−15 21.6	2.251	1.792	25.1	19.9	50 E	27*	37*
12 22	21 12.34	−14 15.4	2.298	1.766	23.7	19.9	46 E	26*	31*
1 1	21 37.05	−12 53.9	2.342	1.742	22.2	19.8	42 E	25*	27*
1 11	22 2.18	−11 18.2	2.382	1.720	20.7	19.8	38 E	24*	23*
1 21	22 27.60	− 9 29.7	2.418	1.701	19.1	19.7	35 E	23*	19*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 29.85	−14 25.9	2.762	1.952	13.8	21.5	28 W	17*	14*
1 6	16 54.72	−14 56.9	2.674	1.917	15.9	21.4	32 W	19*	19*
1 16	17 20.19	−15 13.3	2.583	1.882	18.0	21.4	36 W	20*	24*
1 26	17 46.16	−15 14.2	2.489	1.848	20.0	21.3	40 W	21*	29*
2 5	18 12.53	−14 58.7	2.395	1.815	22.0	21.3	44 W	21*	33*
2 15	18 39.18	−14 26.4	2.299	1.783	24.0	21.2	47 W	22*	38*
2 25	19 5.97	−13 37.5	2.205	1.754	25.9	21.1	51 W	22*	42*
3 7	19 32.78	−12 32.6	2.112	1.726	27.7	21.0	54 W	23*	46*
3 17	19 59.51	−11 12.8	2.020	1.700	29.4	21.0	57 W	23*	49*
3 27	20 26.02	− 9 39.8	1.931	1.677	31.1	20.9	60 W	24*	52*
4 6	20 52.26	− 7 55.7	1.845	1.657	32.6	20.8	63 W	24*	55*
4 16	21 18.14	− 6 2.9	1.762	1.639	34.1	20.7	66 W	25*	57*
4 26	21 43.57	− 4 4.6	1.681	1.625	35.4	20.6	69 W	26*	59*
5 6	22 8.52	− 2 3.7	1.604	1.614	36.5	20.6	72 W	28*	61*
5 16	22 32.91	− 0 3.7	1.529	1.606	37.5	20.5	75 W	30*	61*
5 26	22 56.64	+ 1 51.7	1.456	1.602	38.3	20.4	79 W	32*	61*
6 5	23 19.64	+ 3 39.1	1.385	1.602	38.9	20.3	82 W	35*	60*
6 15	23 41.73	+ 5 14.7	1.316	1.605	39.2	20.2	86 W	38*	59
6 25	0 2.72	+ 6 34.8	1.248	1.612	39.1	20.1	90 W	42*	57
7 5	0 22.36	+ 7 36.0	1.182	1.622	38.7	20.0	95 W	46*	56
7 15	0 40.30	+ 8 14.3	1.118	1.636	37.7	19.8	100 W	50*	56
7 25	0 56.11	+ 8 26.4	1.056	1.652	36.3	19.7	106 W	52*	56
8 4	1 9.35	+ 8 9.0	0.997	1.672	34.1	19.5	112 W	53*	56
8 14	1 19.45	+ 7 19.2	0.943	1.695	31.2	19.4	120 W	52	57
8 24	1 25.95	+ 5 55.8	0.897	1.720	27.3	19.2	129 W	51	58
9 3	1 28.52	+ 4 0.5	0.861	1.747	22.6	19.0	138 W	49	60
9 8	1 28.30	+ 2 52.4	0.847	1.762	20.0	18.9	143 W	48	61
9 13	1 27.14	+ 1 39.0	0.838	1.777	17.1	18.8	149 W	47	62
9 18	1 25.12	+ 0 22.2	0.834	1.792	14.2	18.7	154 W	45	64
9 23	1 22.38	− 0 56.0	0.834	1.808	11.3	18.6	159 W	44	65
9 28	1 19.07	− 2 13.3	0.839	1.824	8.7	18.5	164 W	43	66
10 3	1 15.37	− 3 27.3	0.850	1.840	6.7	18.5	168 W	42	67
10 8	1 11.49	− 4 36.0	0.867	1.857	6.0	18.5	169 W	40	69
10 13	1 7.65	− 5 37.1	0.889	1.874	7.0	18.6	167 E	39	70
10 18	1 4.04	− 6 29.4	0.917	1.891	9.0	18.8	163 E	39	70
10 23	1 0.84	− 7 11.8	0.950	1.909	11.3	19.0	158 E	38	71
11 2	0 56.13	− 8 6.5	1.032	1.945	15.8	19.4	148 E	37	72
11 12	0 54.18	− 8 22.5	1.132	1.981	19.6	19.7	138 E	37	72
11 22	0 55.15	− 8 5.6	1.247	2.018	22.5	20.1	129 E	37	72
11 27	0 56.68	− 7 47.0	1.310	2.036	23.6	20.2	124 E	37	72
12 2	0 58.84	− 7 22.6	1.375	2.055	24.5	20.4	120 E	38	71
12 7	1 1.61	− 6 53.4	1.443	2.074	25.3	20.5	116 E	38	71
12 12	1 4.95	− 6 19.9	1.513	2.092	25.9	20.7	112 E	39	70
12 17	1 8.79	− 5 42.8	1.585	2.111	26.3	20.8	108 E	39	70
12 22	1 13.09	− 5 2.9	1.658	2.130	26.6	20.9	105 E	40	69*
12 27	1 17.80	− 4 20.5	1.733	2.148	26.7	21.1	101 E	41	68*
1 1	1 22.90	− 3 36.1	1.809	2.167	26.7	21.2	97 E	41	66*
1 6	1 28.34	− 2 50.0	1.886	2.186	26.7	21.3	94 E	42	63*
1 11	1 34.10	− 2 2.8	1.963	2.204	26.5	21.4	91 E	43	61*
1 16	1 40.15	− 1 14.7	2.041	2.223	26.2	21.5	87 E	44	58*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 30.07	−15 27.9	1.987	1.208	22.3	21.4	28 W	17*	14*
1 6	16 59.82	−15 54.9	2.007	1.267	23.4	21.5	31 W	18*	18*
1 16	17 28.33	−16 2.8	2.013	1.320	24.7	21.7	34 W	18*	22*
1 26	17 55.68	−15 53.1	2.006	1.366	26.1	21.8	38 W	19*	27*
2 5	18 21.95	−15 27.1	1.986	1.407	27.6	21.9	41 W	20*	32*

329301 2000 RM_{77}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 30.73	−27 58.0	3.146	2.301	10.7	20.5	26 W	6*	19*
1 6	16 52.06	−29 42.1	3.041	2.257	13.0	20.4	31 W	6*	25*
1 16	17 14.46	−31 21.6	2.927	2.214	15.3	20.4	36 W	6*	30*
1 26	17 37.98	−32 55.8	2.806	2.170	17.5	20.3	42 W	6*	36*
2 5	18 2.68	−34 24.2	2.681	2.127	19.7	20.3	47 W	5*	40*
2 15	18 28.62	−35 45.9	2.552	2.085	21.7	20.2	51 W	3*	45*
2 25	18 55.83	−37 0.1	2.423	2.042	23.7	20.1	56 W	2*	49*

329301 2000 RM_{77} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 2	19 9.93	−37 34.1	2.358	2.022	24.7	20.0	58 W	1*	50*
3 7	19 24.36	−38 5.7	2.293	2.001	25.6	20.0	61 W	1*	52*
3 12	19 39.11	−38 35.0	2.229	1.980	26.5	19.9	63 W	—	53*
3 17	19 54.19	−39 1.7	2.166	1.960	27.3	19.9	65 W	—	55*
3 22	20 9.57	−39 25.7	2.104	1.940	28.2	19.8	67 W	—	56*
3 27	20 25.26	−39 46.7	2.043	1.921	28.9	19.7	69 W	—	57*
4 1	20 41.23	−40 4.7	1.983	1.902	29.7	19.7	71 W	—	58*
4 6	20 57.46	−40 19.5	1.925	1.883	30.4	19.6	72 W	—	59*
4 11	21 13.93	−40 30.9	1.869	1.864	31.1	19.5	74 W	—	60*
4 16	21 30.58	−40 38.8	1.814	1.846	31.8	19.5	76 W	—	61*
4 21	21 47.39	−40 43.3	1.761	1.829	32.4	19.4	77 W	—	62*
4 26	22 4.29	−40 44.0	1.711	1.812	33.0	19.3	79 W	—	63*
5 1	22 21.25	−40 41.2	1.662	1.795	33.6	19.3	80 W	—	64*
5 6	22 38.21	−40 34.7	1.616	1.779	34.1	19.2	82 W	—	64*
5 11	22 55.10	−40 24.8	1.572	1.764	34.6	19.1	83 W	—	65*
5 16	23 11.85	−40 11.6	1.529	1.749	35.1	19.1	84 W	—	66*
5 21	23 28.39	−39 55.4	1.489	1.735	35.6	19.0	86 W	—	67*
5 26	23 44.65	−39 36.4	1.451	1.722	36.0	19.0	87 W	—	69*
5 31	0 0.58	−39 15.0	1.415	1.710	36.3	18.9	88 W	—	70*
6 5	0 16.11	−38 51.6	1.381	1.698	36.7	18.8	89 W	—	71*
6 10	0 31.18	−38 26.7	1.348	1.687	37.0	18.8	90 W	—	72*
6 15	0 45.71	−38 0.8	1.316	1.677	37.3	18.7	91 W	—	74*
6 20	0 59.66	−37 34.2	1.286	1.668	37.5	18.7	92 W	—	75*
6 25	1 12.98	−37 7.6	1.257	1.660	37.7	18.6	93 W	—	76*
6 30	1 25.62	−36 41.2	1.229	1.653	37.8	18.6	94 W	—	77*
7 5	1 37.54	−36 15.6	1.201	1.646	37.9	18.5	95 W	—	79*
7 10	1 48.68	−35 51.2	1.174	1.641	38.0	18.5	97 W	—	80*
7 15	1 58.99	−35 28.4	1.148	1.637	37.9	18.4	98 W	2*	80*
7 20	2 8.42	−35 7.1	1.122	1.634	37.8	18.3	100 W	4*	81
7 25	2 16.93	−34 47.6	1.096	1.632	37.7	18.3	101 W	5*	81
7 30	2 24.45	−34 30.0	1.070	1.631	37.4	18.2	103 W	7*	82
8 4	2 30.94	−34 14.2	1.045	1.630	37.0	18.2	105 W	8*	82
8 9	2 36.29	−34 0.0	1.019	1.631	36.5	18.1	107 W	10*	82
8 14	2 40.45	−33 46.9	0.993	1.634	35.9	18.0	109 W	11*	82
8 19	2 43.33	−33 34.3	0.968	1.637	35.1	17.9	111 W	11*	82
8 24	2 44.87	−33 21.3	0.944	1.641	34.2	17.9	114 W	12	83
8 29	2 44.98	−33 6.8	0.920	1.646	33.1	17.8	117 W	12	83
9 3	2 43.60	−32 49.5	0.897	1.652	31.9	17.7	120 W	12	83
9 8	2 40.67	−32 27.5	0.875	1.659	30.5	17.6	123 W	13	84
9 13	2 36.19	−31 58.8	0.856	1.667	28.8	17.5	127 W	13	84
9 18	2 30.22	−31 21.0	0.838	1.676	27.1	17.5	131 W	14	85
9 23	2 22.88	−30 31.9	0.824	1.686	25.2	17.4	134 W	14	85
9 28	2 14.38	−29 29.5	0.814	1.697	23.3	17.3	138 W	16	87
10 3	2 4.97	−28 12.3	0.808	1.708	21.4	17.2	141 W	17	88
10 8	1 55.01	−26 39.3	0.807	1.721	19.8	17.2	144 W	18	89
10 13	1 44.90	−24 51.0	0.812	1.734	18.5	17.2	147 W	20	89
10 18	1 35.04	−22 48.8	0.823	1.748	17.8	17.2	148 W	22	87
10 23	1 25.77	−20 35.2	0.840	1.762	17.6	17.3	148 E	24	85
10 28	1 17.37	−18 13.6	0.863	1.778	18.1	17.4	146 E	27	82
11 2	1 10.04	−15 47.2	0.893	1.793	19.0	17.5	144 E	29	80
11 7	1 3.90	−13 19.1	0.930	1.810	20.2	17.6	141 E	32	77
11 12	0 59.02	−10 52.1	0.972	1.827	21.6	17.8	137 E	34	75
11 17	0 55.38	− 8 28.2	1.020	1.844	23.0	18.0	133 E	37	72
11 22	0 52.93	− 6 8.9	1.073	1.862	24.2	18.1	129 E	39	70
12 2	0 51.28	− 1 47.4	1.192	1.900	26.4	18.5	121 E	43	66
12 12	0 53.40	+ 2 10.7	1.326	1.938	27.8	18.8	113 E	47	62
12 22	0 58.60	+ 5 46.9	1.471	1.978	28.6	19.1	106 E	51	58*
1 1	1 6.28	+ 9 4.1	1.624	2.019	28.8	19.3	99 E	54	52*
1 11	1 15.99	+12 5.5	1.783	2.061	28.5	19.6	92 E	57	46*
1 21	1 27.35	+14 53.7	1.945	2.103	27.8	19.8	85 E	60	41*

152952 2000 GC_2

12 27	16 31.14	+62 16.4	1.341	1.642	36.8	20.8	88 W	59*	—
1 6	16 47.27	+63 34.4	1.306	1.640	36.8	20.7	90 W	61*	—
1 16	17 1.08	+65 46.3	1.265	1.636	36.9	20.7	93 W	62*	—
1 26	17 11.48	+68 56.0	1.219	1.630	37.0	20.6	95 W	62*	—
2 5	17 15.69	+73 6.0	1.172	1.622	37.1	20.5	97 W	60*	—
2 6	17 15.53	+73 34.4	1.168	1.621	37.1	20.5	97 W	60*	—
2 7	17 15.22	+74 3.3	1.163	1.620	37.1	20.5	97 W	59*	—
2 8	17 14.74	+74 32.9	1.159	1.619	37.1	20.5	98 W	59*	—
2 9	17 14.07	+75 3.0	1.154	1.618	37.2	20.5	98 W	59*	—
2 10	17 13.19	+75 33.6	1.150	1.617	37.2	20.4	98 W	58*	—
2 11	17 12.06	+76 4.8	1.145	1.616	37.2	20.4	98 W	58*	—
2 12	17 10.65	+76 36.6	1.141	1.615	37.2	20.4	98 W	58*	—
2 13	17 8.92	+77 8.8	1.137	1.614	37.2	20.4	99 W	57*	—
2 14	17 6.83	+77 41.5	1.133	1.613	37.2	20.4	99 W	57*	—
2 15	17 4.31	+78 14.6	1.128	1.612	37.3	20.4	99 W	56*	—
2 16	17 1.30	+78 48.1	1.124	1.611	37.3	20.4	99 W	56*	—
2 17	16 57.70	+79 21.9	1.120	1.609	37.3	20.4	99 W	55*	—
2 18	16 53.42	+79 56.0	1.116	1.608	37.3	20.4	99 W	55*	—
2 19	16 48.31	+80 30.2	1.113	1.607	37.3	20.4	100 W	54*	—

152952 2000 GC_2 *(continuation)*

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 20	16 42.22	+81 4.5	1.109	1.606	37.4	20.4	100 W	54*	—
2 21	16 34.93	+81 38.7	1.105	1.605	37.4	20.4	100 W	53*	—
2 22	16 26.19	+82 12.5	1.102	1.603	37.4	20.3	100 W	53	—
2 23	16 15.67	+82 45.8	1.098	1.602	37.4	20.3	100 W	52	—
2 24	16 2.95	+83 18.1	1.095	1.601	37.5	20.3	100 W	52	—
2 25	15 47.53	+83 49.1	1.091	1.600	37.5	20.3	100 W	51	—
2 26	15 28.84	+84 18.1	1.088	1.598	37.5	20.3	100 W	51	—
2 27	15 6.25	+84 44.4	1.085	1.597	37.6	20.3	101 W	50	—
2 28	14 39.25	+85 6.8	1.082	1.596	37.6	20.3	101 W	50	—
3 1	14 7.65	+85 24.2	1.080	1.594	37.6	20.3	101 W	50	—
3 2	13 31.99	+85 35.2	1.077	1.593	37.7	20.3	101 W	49	—
3 3	12 53.72	+85 38.8	1.074	1.591	37.7	20.3	101 W	49	—
3 4	12 15.07	+85 34.4	1.072	1.590	37.8	20.3	101 W	49	—
3 5	11 38.41	+85 22.0	1.070	1.589	37.8	20.3	101 W	50	—
3 6	11 5.48	+85 2.5	1.068	1.587	37.9	20.3	101 E	50	—
3 7	10 37.07	+84 36.8	1.066	1.586	37.9	20.3	101 E	50	—
3 8	10 13.17	+84 6.1	1.064	1.584	38.0	20.3	101 E	51	—
3 9	9 53.34	+83 31.4	1.063	1.583	38.1	20.3	101 E	51	—
3 10	9 36.96	+82 53.6	1.061	1.581	38.1	20.3	101 E	52	—
3 11	9 23.44	+82 13.2	1.060	1.580	38.2	20.3	101 E	53	—
3 12	9 12.25	+81 30.8	1.059	1.578	38.3	20.2	100 E	53	—
3 13	9 2.95	+80 46.8	1.058	1.576	38.3	20.2	100 E	54	—
3 14	8 55.19	+80 1.3	1.057	1.575	38.4	20.2	100 E	55	—
3 15	8 48.69	+79 14.6	1.057	1.573	38.5	20.2	100 E	56	—
3 16	8 43.23	+78 27.0	1.056	1.572	38.6	20.2	100 E	57	—
3 17	8 38.62	+77 38.5	1.056	1.570	38.6	20.2	100 E	57	—
3 18	8 34.73	+76 49.3	1.056	1.568	38.7	20.2	100 E	58	—
3 19	8 31.44	+75 59.5	1.056	1.566	38.8	20.2	99 E	59	—
3 20	8 28.66	+75 9.1	1.057	1.565	38.9	20.2	99 E	60	—
3 21	8 26.32	+74 18.2	1.057	1.563	39.0	20.2	99 E	61	—
3 22	8 24.35	+73 26.9	1.058	1.561	39.1	20.2	99 E	62	—
3 23	8 22.71	+72 35.2	1.059	1.559	39.2	20.2	99 E	62	—
3 24	8 21.35	+71 43.2	1.060	1.558	39.3	20.3	98 E	63	—
3 25	8 20.23	+70 50.9	1.062	1.556	39.4	20.3	98 E	64	—
3 26	8 19.32	+69 58.4	1.063	1.554	39.5	20.3	98 E	65	—
3 27	8 18.61	+69 5.8	1.065	1.552	39.6	20.3	98 E	66	—
3 28	8 18.06	+68 12.9	1.067	1.550	39.7	20.3	97 E	67	—
3 29	8 17.66	+67 20.0	1.069	1.549	39.8	20.3	97 E	68	—
3 30	8 17.40	+66 26.9	1.071	1.547	39.9	20.3	97 E	69	—
3 31	8 17.25	+65 33.9	1.074	1.545	40.0	20.3	96 E	69	—
4 1	8 17.21	+64 40.7	1.076	1.543	40.1	20.3	96 E	70	—
4 2	8 17.26	+63 47.6	1.079	1.541	40.2	20.3	96 E	71	—
4 3	8 17.41	+62 54.5	1.082	1.539	40.3	20.3	95 E	72	1
4 4	8 17.63	+62 1.5	1.086	1.537	40.4	20.3	95 E	73	2
4 5	8 17.93	+61 8.6	1.089	1.535	40.5	20.3	94 E	74	3
4 6	8 18.29	+60 15.7	1.093	1.533	40.6	20.3	94 E	75	4
4 8	8 19.19	+58 30.4	1.101	1.529	40.8	20.3	93 E	76	5
4 10	8 20.29	+56 45.8	1.109	1.525	41.0	20.4	92 E	78*	7
4 12	8 21.57	+55 1.9	1.119	1.521	41.2	20.4	91 E	80*	9
4 14	8 23.00	+53 19.1	1.129	1.516	41.4	20.4	90 E	81*	11
4 16	8 24.56	+51 37.3	1.139	1.512	41.6	20.4	90 E	82*	12
4 21	8 28.90	+47 28.1	1.168	1.501	42.0	20.5	87 E	81*	17
4 26	8 33.73	+43 27.6	1.201	1.489	42.2	20.5	84 E	77*	21
5 1	8 38.90	+39 36.3	1.236	1.478	42.4	20.6	82 E	72*	24
5 6	8 44.33	+35 54.3	1.274	1.466	42.5	20.6	79 E	67*	28*
5 11	8 49.97	+32 21.7	1.313	1.453	42.5	20.7	76 E	61*	32*
5 16	8 55.78	+28 58.0	1.353	1.441	42.3	20.7	73 E	56*	35*
5 21	9 1.71	+25 42.7	1.394	1.428	42.0	20.7	71 E	50*	38*
5 26	9 7.75	+22 35.1	1.434	1.414	41.7	20.8	68 E	45*	40*
5 31	9 13.88	+19 34.6	1.475	1.401	41.2	20.8	66 E	39*	42*
6 5	9 20.09	+16 40.2	1.514	1.388	40.6	20.8	63 E	34*	44*
6 10	9 26.39	+13 51.3	1.552	1.374	40.0	20.8	61 E	29*	45*
6 15	9 32.78	+11 7.1	1.588	1.360	39.4	20.8	58 E	24*	45*
6 20	9 39.25	+ 8 26.8	1.622	1.346	38.6	20.8	56 E	20*	46*
6 25	9 45.81	+ 5 49.8	1.654	1.332	37.9	20.8	54 E	16*	45*
6 30	9 52.47	+ 3 15.4	1.682	1.318	37.2	20.8	52 E	12*	44*
7 5	9 59.24	+ 0 43.0	1.708	1.304	36.4	20.8	50 E	8*	43*
7 10	10 6.16	− 1 48.1	1.731	1.291	35.7	20.8	48 E	4*	42*
7 15	10 13.23	− 4 18.4	1.750	1.277	35.0	20.8	46 E	1*	40*
7 20	10 20.48	− 6 48.4	1.765	1.264	34.4	20.8	45 E	—	38*
7 25	10 27.94	− 9 18.7	1.776	1.251	33.9	20.7	43 E	—	36*
7 30	10 35.64	−11 49.7	1.784	1.238	33.5	20.7	42 E	—	34*
8 4	10 43.64	−14 21.8	1.788	1.225	33.1	20.7	41 E	—	32*
8 9	10 51.99	−16 55.6	1.788	1.213	32.9	20.7	41 E	—	30*
8 14	11 0.75	−19 31.4	1.784	1.202	32.9	20.6	40 E	—	28*
8 19	11 10.01	−22 9.5	1.777	1.191	33.0	20.6	40 E	—	26*
8 24	11 19.84	−24 50.1	1.766	1.181	33.2	20.6	40 E	—	24*
8 29	11 30.37	−27 33.4	1.752	1.171	33.5	20.6	40 E	—	23*
9 3	11 41.75	−30 19.4	1.735	1.162	34.0	20.5	40 E	—	21*
9 8	11 54.15	−33 8.0	1.715	1.154	34.6	20.5	41 E	—	20*
9 13	12 7.79	−35 58.6	1.694	1.147	35.3	20.5	41 E	—	20*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
152952 2000 GC_2 *(continuation)*									
	h m	° ′			°	m	°	°	°
9 18	12 22.92	−38 50.3	1.670	1.141	36.0	20.5	42 E	—	19*
9 23	12 39.86	−41 41.8	1.646	1.136	36.8	20.5	43 E	—	19*
9 28	12 59.01	−44 30.8	1.622	1.131	37.6	20.4	44 E	—	20*
10 3	13 20.80	−47 14.2	1.598	1.128	38.4	20.4	44 E	—	21*
10 8	13 45.70	−49 47.8	1.575	1.126	39.2	20.4	45 E	—	22*
10 13	14 14.13	−52 5.9	1.554	1.125	39.8	20.4	46 E	—	23*
10 18	14 46.32	−54 1.4	1.536	1.125	40.4	20.4	47 E	—	25*
10 23	15 22.13	−55 26.1	1.522	1.126	40.8	20.4	48 E	—	27*
10 25	15 37.33	−55 49.7	1.517	1.127	40.9	20.4	48 E	—	28*
10 27	15 52.93	−56 6.7	1.513	1.128	41.0	20.4	48 E	—	29*
10 29	16 8.83	−56 16.7	1.510	1.129	41.1	20.4	48 E	—	30*
10 31	16 24.93	−56 19.5	1.508	1.130	41.2	20.4	49 E	—	31*
11 2	16 41.12	−56 14.9	1.506	1.132	41.2	20.4	49 E	—	32*
11 4	16 57.27	−56 2.9	1.506	1.133	41.2	20.4	49 E	—	33*
11 6	17 13.27	−55 43.5	1.506	1.135	41.2	20.4	49 E	—	34*
11 8	17 29.01	−55 16.9	1.507	1.137	41.1	20.4	49 E	—	35*
11 10	17 44.40	−54 43.3	1.509	1.139	41.0	20.4	49 E	—	35*
11 12	17 59.35	−54 3.1	1.511	1.141	40.9	20.4	49 E	—	36*
11 14	18 13.79	−53 16.8	1.515	1.144	40.8	20.4	49 E	—	37*
11 16	18 27.68	−52 24.8	1.520	1.146	40.6	20.4	49 E	—	38*
11 18	18 40.99	−51 27.6	1.525	1.149	40.4	20.4	49 E	—	39*
11 20	18 53.71	−50 25.8	1.531	1.152	40.2	20.4	49 E	—	39*
11 22	19 5.83	−49 19.8	1.539	1.155	39.9	20.4	49 E	—	40*
11 27	19 33.60	−46 20.3	1.561	1.163	39.2	20.5	48 E	—	41*
12 2	19 58.04	−43 5.4	1.587	1.172	38.3	20.5	47 E	—	41*
12 7	20 19.59	−39 41.5	1.619	1.181	37.2	20.5	47 E	3*	40*
12 12	20 38.70	−36 13.4	1.654	1.191	36.1	20.5	45 E	6*	39*
12 17	20 55.80	−32 44.4	1.692	1.202	34.8	20.6	44 E	9*	38*
12 22	21 11.26	−29 17.4	1.733	1.214	33.5	20.6	43 E	12*	36*
12 27	21 25.37	−25 53.8	1.776	1.226	32.1	20.6	41 E	14*	33*
1 1	21 38.40	−22 34.7	1.820	1.238	30.6	20.7	40 E	17*	30*
1 6	21 50.55	−19 20.8	1.864	1.251	29.2	20.7	38 E	19*	27*
1 11	22 1.99	−16 12.2	1.909	1.264	27.7	20.7	37 E	20*	24*
1 16	22 12.85	−13 9.0	1.953	1.278	26.2	20.8	35 E	21*	21*
267223 2001 DQ_8									
12 27	16 31.21	−10 5.7	0.486	0.612	126.8	20.9	30 W	21*	12*
12 29	16 19.54	− 8 50.4	0.467	0.657	121.1	20.5	35 W	25*	16*
12 31	16 7.73	− 7 33.4	0.449	0.701	115.8	20.1	40 W	28*	20*
1 2	15 55.71	− 6 14.0	0.432	0.744	110.5	19.8	45 W	32*	24*
1 4	15 43.41	− 4 51.8	0.417	0.786	105.4	19.6	50 W	35*	29*
1 6	15 30.75	− 3 26.1	0.403	0.827	100.4	19.4	56 W	38*	33*
1 11	14 56.91	+ 0 26.2	0.373	0.925	87.7	18.9	70 W	45*	43*
1 16	14 18.95	+ 4 45.8	0.352	1.017	74.6	18.5	85 W	50	51*
1 21	13 36.30	+ 9 23.5	0.341	1.104	60.8	18.2	102 W	54	54*
1 26	12 49.96	+13 53.9	0.343	1.188	46.7	17.9	119 W	59	50
1 28	12 31.00	+15 32.2	0.349	1.220	41.2	17.9	125 W	61	48
1 30	12 12.15	+17 1.9	0.357	1.252	35.9	17.8	132 W	62	47
2 1	11 53.68	+18 21.5	0.367	1.283	30.7	17.8	138 W	63	46
2 3	11 35.81	+19 30.4	0.380	1.313	25.9	17.8	144 W	65	44
2 5	11 18.76	+20 28.4	0.396	1.343	21.4	17.8	150 W	65	44
2 7	11 2.68	+21 15.9	0.413	1.373	17.3	17.8	155 W	66	43
2 9	10 47.68	+21 53.7	0.433	1.402	13.7	17.8	160 W	67	42
2 11	10 33.82	+22 23.0	0.455	1.431	10.7	17.8	164 W	67	42
2 13	10 21.12	+22 44.8	0.480	1.459	8.4	17.9	168 W	68	41
2 15	10 9.57	+23 0.3	0.505	1.487	7.2	18.0	169 W	68	41
2 17	9 59.11	+23 10.5	0.533	1.514	7.2	18.2	169 E	68	41
2 19	9 49.70	+23 16.5	0.562	1.542	8.2	18.4	167 E	68	41
2 21	9 41.25	+23 19.0	0.592	1.568	9.6	18.6	165 E	68	41
2 23	9 33.71	+23 18.7	0.624	1.594	11.1	18.8	162 E	68	41
2 25	9 26.98	+23 16.3	0.657	1.620	12.7	19.0	159 E	68	41
3 2	9 13.31	+23 3.4	0.744	1.684	16.2	19.5	152 E	68	41
3 7	9 3.34	+22 44.6	0.837	1.745	19.1	19.9	145 E	68	41
3 12	8 56.28	+22 22.7	0.935	1.804	21.3	20.3	139 E	67	42
3 17	8 51.53	+21 59.2	1.036	1.861	23.1	20.6	133 E	67	42
3 22	8 48.62	+21 35.0	1.142	1.917	24.4	20.9	127 E	67	42
3 27	8 47.17	+21 10.4	1.250	1.971	25.4	21.2	122 E	66	43
4 1	8 46.89	+20 45.6	1.360	2.023	26.0	21.5	117 E	66	43
524522 2002 VE_{68}									
12 27	16 31.57	−24 48.4	1.075	0.464	66.1	21.3	26 W	8*	18*
12 29	16 47.12	−24 48.1	1.108	0.452	62.4	21.2	24 W	8*	16*
12 31	17 2.79	−24 42.4	1.141	0.443	58.3	21.1	23 W	7*	15*
1 2	17 18.55	−24 31.2	1.174	0.435	54.0	21.0	21 W	6*	13*
1 4	17 34.35	−24 14.8	1.206	0.430	49.5	20.9	19 W	5*	12*
1 6	17 50.15	−23 53.3	1.239	0.427	44.8	20.8	18 W	4*	10*
1 8	18 5.89	−23 26.8	1.270	0.427	40.2	20.8	16 W	4*	9*
1 10	18 21.50	−22 55.8	1.301	0.430	35.5	20.7	15 W	3*	7*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
524522 2002 VE_{68} *(continuation)*									
	h m	° ′			°	m	°	°	°
1 12	18 36.92	−22 20.6	1.330	0.435	31.0	20.6	13 W	2*	6*
1 14	18 52.10	−21 41.6	1.358	0.443	26.8	20.6	12 W	2*	4*
1 16	19 6.97	−20 59.2	1.385	0.453	22.8	20.6	10 W	1*	3*
1 18	19 21.51	−20 13.9	1.410	0.464	19.2	20.6	9 W	—	2*
1 20	19 35.69	−19 26.1	1.434	0.478	15.9	20.5	8 W	—	—
1 22	19 49.48	−18 36.3	1.457	0.492	13.1	20.5	6 W	—	—
1 24	20 2.87	−17 44.8	1.479	0.508	10.6	20.6	5 W	—	—
1 26	20 15.86	−16 52.0	1.500	0.525	8.6	20.6	5 W	—	—
1 31	20 46.66	−14 36.3	1.549	0.568	5.8	20.7	3 W	—	—
2 5	21 15.21	−12 18.3	1.594	0.614	6.0	20.9	4 E	—	—
2 10	21 41.75	−10 0.9	1.637	0.659	7.2	21.2	5 E	—	—
2 15	22 6.55	− 7 45.9	1.678	0.702	8.3	21.4	6 E	—	—
172722 2004 BV_{102}									
12 27	16 31.69	−26 10.1	2.166	1.347	18.3	20.8	25 W	7*	18*
1 1	16 49.71	−26 44.6	2.094	1.291	19.9	20.7	26 W	7*	19*
1 6	17 8.95	−27 12.2	2.023	1.234	21.4	20.5	27 W	7*	20*
1 11	17 29.50	−27 31.1	1.952	1.175	22.9	20.4	28 W	6*	21*
1 16	17 51.47	−27 39.1	1.883	1.115	24.5	20.2	28 W	6*	21*
1 21	18 14.94	−27 33.6	1.817	1.052	25.9	20.1	28 W	5*	21*
1 26	18 39.95	−27 11.5	1.753	0.988	27.2	19.9	27 W	4*	21*
1 31	19 6.52	−26 29.5	1.694	0.922	28.4	19.7	26 W	3*	20*
2 5	19 34.61	−25 24.0	1.640	0.856	29.2	19.5	25 W	2*	19*
2 10	20 4.13	−23 51.6	1.592	0.788	29.6	19.3	23 W	1*	17*
2 15	20 34.92	−21 49.0	1.551	0.720	29.2	19.0	21 W	—	15*
2 20	21 6.81	−19 14.3	1.519	0.654	27.8	18.7	18 W	—	12*
2 25	21 39.60	−16 6.5	1.495	0.592	24.9	18.4	15 W	—	9*
3 2	22 13.16	−12 27.0	1.478	0.536	20.0	18.0	11 W	—	5*
3 7	22 47.35	− 8 19.8	1.467	0.493	12.7	17.5	6 W	—	—
3 12	23 21.98	− 3 52.4	1.461	0.468	3.4	17.0	2 W	—	—
3 17	23 56.78	+ 0 43.5	1.455	0.466	7.2	17.2	3 E	—	—
3 19	0 10.67	+ 2 33.2	1.454	0.472	11.3	17.4	5 E	—	—
3 21	0 24.51	+ 4 21.2	1.452	0.481	15.1	17.6	7 E	1*	—
3 23	0 38.29	+ 6 6.8	1.452	0.493	18.6	17.7	9 E	3*	—
3 25	0 51.98	+ 7 49.3	1.452	0.509	21.8	17.9	11 E	5*	—
3 27	1 5.58	+ 9 28.2	1.452	0.527	24.6	18.1	13 E	6*	—
4 1	1 39.13	+13 17.0	1.459	0.580	29.9	18.4	17 E	10*	3*
4 6	2 11.93	+16 36.1	1.475	0.641	33.1	18.8	20 E	14*	5*
4 11	2 43.85	+19 23.7	1.499	0.707	34.7	19.1	24 E	17*	7*
4 16	3 14.72	+21 40.0	1.533	0.775	35.1	19.3	26 E	19*	9*
4 21	3 44.37	+23 26.5	1.575	0.842	34.7	19.5	29 E	21*	11*
4 26	4 12.65	+24 45.8	1.624	0.909	33.9	19.8	30 E	22*	13*
5 1	4 39.44	+25 41.1	1.680	0.975	32.7	19.9	32 E	22*	14*
5 6	5 4.70	+26 15.9	1.740	1.040	31.3	20.1	32 E	23*	15*
5 11	5 28.42	+26 33.3	1.805	1.102	29.8	20.3	33 E	22*	16*
5 16	5 50.65	+26 36.4	1.873	1.163	28.2	20.4	33 E	22*	17*
5 21	6 11.46	+26 27.8	1.943	1.223	26.7	20.6	33 E	21*	18*
5 26	6 30.94	+26 9.8	2.015	1.280	25.1	20.7	32 E	20*	18*
5 31	6 49.19	+25 44.3	2.088	1.336	23.5	20.8	32 E	18*	18*
6 5	7 6.32	+25 12.7	2.161	1.390	22.0	20.9	31 E	17*	18*
6 10	7 22.45	+24 36.3	2.233	1.442	20.4	21.1	30 E	15*	18*
6 15	7 37.66	+23 56.1	2.305	1.493	18.9	21.1	28 E	13*	18*
6 20	7 52.04	+23 12.8	2.376	1.542	17.4	21.2	27 E	12*	17*
6 25	8 5.68	+22 27.2	2.446	1.590	16.0	21.3	26 E	10*	16*
6 30	8 18.65	+21 39.7	2.513	1.636	14.6	21.4	24 E	8*	15*
7 5	8 31.02	+20 50.6	2.579	1.681	13.1	21.5	22 E	7*	14*
21788 1999 SZ_5									
12 27	16 32.29	− 4 13.2	3.915	3.136	9.8	20.2	33 W	26*	9*
1 6	16 46.08	− 4 16.8	3.829	3.124	11.4	20.2	39 W	29*	16*
1 16	16 59.58	− 4 10.8	3.730	3.111	12.9	20.2	45 W	32*	24*
1 26	17 12.67	− 3 55.0	3.619	3.098	14.3	20.2	51 W	35*	32*
2 5	17 25.21	− 3 29.3	3.497	3.083	15.7	20.1	58 W	37*	39*
2 15	17 37.06	− 2 53.6	3.366	3.068	16.9	20.1	64 W	38*	46*
2 25	17 48.06	− 2 8.4	3.227	3.051	17.9	20.0	71 W	40*	52*
3 7	17 58.03	− 1 13.9	3.083	3.034	18.6	19.9	78 W	42*	58*
3 17	18 6.79	− 0 10.9	2.936	3.016	19.2	19.8	85 W	44*	62*
3 27	18 14.11	+ 0 59.7	2.788	2.997	19.4	19.7	92 W	45*	63*
4 6	18 19.79	+ 2 16.5	2.642	2.977	19.4	19.6	100 W	47*	62
4 16	18 23.58	+ 3 37.6	2.499	2.956	18.9	19.4	107 W	49*	60
4 26	18 25.26	+ 5 0.2	2.365	2.934	18.1	19.2	115 W	50	59
5 6	18 24.65	+ 6 20.7	2.240	2.911	17.0	19.1	123 W	51	58
5 16	18 21.65	+ 7 34.7	2.129	2.887	15.5	18.9	130 W	53	56
5 21	18 19.26	+ 8 7.5	2.080	2.875	14.7	18.8	134 W	53	56
5 26	18 16.31	+ 8 36.5	2.035	2.863	13.9	18.7	137 W	54	55
5 31	18 12.84	+ 9 1.1	1.996	2.850	13.1	18.6	140 W	54	55
6 5	18 8.91	+ 9 20.4	1.961	2.838	12.4	18.6	143 W	54	55

21788 1999 SZ_5 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 15	17 59.97	+ 9 40.9	1.909	2.811	11.5	18.5	146 W	55	54
6 25	17 50.28	+ 9 34.1	1.880	2.784	11.6	18.4	146 E	55	54
7 5	17 40.76	+ 8 59.3	1.874	2.756	12.8	18.4	143 E	54	55
7 15	17 32.31	+ 7 58.1	1.891	2.728	14.6	18.5	137 E	53	56
7 20	17 28.75	+ 7 19.0	1.907	2.713	15.6	18.5	134 E	52	57
7 25	17 25.72	+ 6 35.2	1.927	2.698	16.7	18.6	130 E	52	57
7 30	17 23.28	+ 5 47.4	1.952	2.683	17.7	18.6	126 E	51	58
8 4	17 21.47	+ 4 56.5	1.981	2.668	18.7	18.7	123 E	50	59
8 9	17 20.32	+ 4 3.0	2.013	2.653	19.6	18.7	119 E	49	60
8 14	17 19.83	+ 3 7.7	2.049	2.637	20.4	18.8	115 E	48	61
8 24	17 20.86	+ 1 14.5	2.127	2.605	21.8	18.9	107 E	46*	63
9 3	17 24.43	− 0 38.9	2.211	2.573	22.8	19.0	99 E	44*	65
9 13	17 30.40	− 2 29.1	2.300	2.539	23.3	19.0	92 E	42*	66*
9 23	17 38.57	− 4 13.5	2.389	2.506	23.5	19.1	85 E	39*	65*
10 3	17 48.72	− 5 50.4	2.478	2.471	23.3	19.1	78 E	37*	62*
10 13	18 0.66	− 7 18.1	2.564	2.436	22.8	19.2	71 E	35*	57*
10 23	18 14.19	− 8 35.7	2.644	2.401	22.1	19.2	65 E	33*	51*
11 2	18 29.16	− 9 42.2	2.719	2.365	21.1	19.2	59 E	31*	45*
11 12	18 45.41	−10 36.9	2.787	2.328	19.8	19.2	53 E	29*	39*
11 22	19 2.78	−11 19.4	2.846	2.291	18.4	19.1	47 E	28*	32*
12 2	19 21.15	−11 49.3	2.896	2.254	16.9	19.1	42 E	26*	26*
12 12	19 40.39	−12 6.4	2.937	2.217	15.1	19.0	36 E	23*	20*
12 22	20 0.38	−12 10.6	2.967	2.180	13.3	18.9	31 E	20*	14*
1 1	20 21.02	−12 2.3	2.988	2.142	11.4	18.8	25 E	17*	9*
1 11	20 42.23	−11 41.6	2.999	2.105	9.4	18.7	20 E	13*	5*
1 21	21 3.90	−11 9.2	3.000	2.068	7.3	18.6	15 E	9*	1*

253822 2003 YT_{57}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 33.29	−17 11.7	3.542	2.698	9.4	21.1	27 W	15*	14*
1 6	16 50.09	−17 57.5	3.446	2.670	11.4	21.1	33 W	17*	21*
1 16	17 6.97	−18 36.7	3.337	2.641	13.4	21.1	39 W	18*	28*
1 26	17 23.82	−19 9.2	3.218	2.611	15.4	21.1	45 W	20*	35*
2 5	17 40.57	−19 35.5	3.088	2.580	17.2	21.0	51 W	20*	42*
2 15	17 57.10	−19 55.8	2.949	2.549	19.0	20.9	57 W	21*	49*
2 25	18 13.29	−20 11.0	2.803	2.517	20.6	20.9	63 W	21*	56*
3 7	18 29.03	−20 22.1	2.651	2.485	22.0	20.8	70 W	21*	63*
3 17	18 44.17	−20 30.2	2.494	2.452	23.2	20.6	76 W	22*	69*
3 27	18 58.56	−20 36.9	2.335	2.418	24.2	20.5	83 W	22*	76*
4 6	19 12.02	−20 44.3	2.175	2.384	24.8	20.3	89 W	22*	82*
4 16	19 24.33	−20 54.7	2.016	2.349	25.1	20.1	96 W	22*	85
4 26	19 35.25	−21 10.8	1.860	2.314	25.0	19.9	104 W	23*	85
5 6	19 44.51	−21 35.8	1.709	2.278	24.4	19.7	111 W	23*	86
5 16	19 51.72	−22 13.1	1.566	2.242	23.1	19.4	119 W	23*	86
5 26	19 56.51	−23 6.2	1.433	2.206	21.2	19.1	128 W	22	87
6 5	19 58.45	−24 17.9	1.312	2.170	18.5	18.8	137 W	21	88
6 15	19 57.14	−25 49.5	1.207	2.134	14.9	18.5	147 W	19	90
6 25	19 52.40	−27 38.8	1.122	2.098	10.6	18.1	158 W	17	88
6 30	19 48.78	−28 38.2	1.087	2.080	8.4	18.0	163 W	16	87
7 5	19 44.40	−29 39.3	1.058	2.062	6.3	17.8	167 W	15	86
7 10	19 39.39	−30 40.6	1.035	2.044	4.9	17.6	170 W	14	85
7 15	19 33.92	−31 40.4	1.018	2.026	5.1	17.6	170 E	13	84
7 20	19 28.20	−32 37.2	1.006	2.009	6.8	17.6	166 E	12	83
7 25	19 22.48	−33 29.7	1.001	1.991	9.2	17.7	162 E	12	83
7 30	19 17.00	−34 16.7	1.001	1.974	11.9	17.8	156 E	11	82
8 4	19 12.00	−34 57.6	1.007	1.957	14.6	17.9	151 E	10	81
8 9	19 7.71	−35 31.9	1.017	1.940	17.2	18.0	145 E	9	80
8 14	19 4.34	−35 59.8	1.032	1.923	19.7	18.1	140 E	9	80
8 19	19 2.03	−36 21.6	1.050	1.907	22.0	18.2	135 E	9	80
8 24	19 0.88	−36 37.6	1.072	1.890	24.1	18.3	130 E	8	79
9 3	19 2.15	−36 54.3	1.124	1.859	27.6	18.4	121 E	8	79
9 13	19 8.19	−36 52.9	1.183	1.829	30.4	18.6	113 E	8	79
9 23	19 18.61	−36 35.5	1.247	1.801	32.4	18.7	106 E	8	79
9 28	19 25.27	−36 21.0	1.280	1.787	33.2	18.8	102 E	9	80
10 3	19 32.79	−36 2.5	1.314	1.774	33.8	18.8	99 E	9	80
10 8	19 41.10	−35 39.9	1.348	1.762	34.3	18.9	96 E	9	80
10 13	19 50.13	−35 13.1	1.382	1.750	34.7	19.0	93 E	10	81*
10 18	19 59.78	−34 42.0	1.416	1.738	35.0	19.0	90 E	10	81*
10 23	20 9.98	−34 6.5	1.451	1.727	35.1	19.0	88 E	11	80*
10 28	20 20.65	−33 26.4	1.485	1.717	35.2	19.1	85 E	12	78*
11 2	20 31.74	−32 41.7	1.519	1.708	35.2	19.1	83 E	12	76*
11 7	20 43.17	−31 52.3	1.553	1.699	35.1	19.2	81 E	13	74*
11 12	20 54.89	−30 58.2	1.587	1.691	35.0	19.2	78 E	14	72*
11 17	21 6.85	−29 59.4	1.620	1.683	34.8	19.2	76 E	15	70*
11 22	21 18.97	−28 56.1	1.654	1.677	34.5	19.2	74 E	16	67*
11 27	21 31.24	−27 48.3	1.687	1.671	34.2	19.3	72 E	17	65*
12 2	21 43.60	−26 36.2	1.721	1.666	33.8	19.3	70 E	18	62*
12 7	21 56.03	−25 19.9	1.755	1.661	33.4	19.3	68 E	20	60*
12 12	22 8.50	−23 59.8	1.788	1.658	32.9	19.3	66 E	21*	57*
12 17	22 20.97	−22 36.2	1.822	1.655	32.4	19.4	64 E	22*	54*

253822 2003 YT_{57} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 22	22 33.44	−21 9.2	1.856	1.653	31.9	19.4	63 E	24*	52*
12 27	22 45.88	−19 39.3	1.890	1.652	31.3	19.4	61 E	25*	49*
1 1	22 58.29	−18 6.8	1.924	1.652	30.7	19.4	59 E	26*	47*
1 6	23 10.67	−16 32.0	1.958	1.652	30.1	19.5	57 E	27*	44*
1 11	23 23.00	−14 55.3	1.993	1.654	29.5	19.5	56 E	28*	42*
1 16	23 35.28	−13 17.1	2.028	1.656	28.8	19.5	54 E	29*	40*
1 21	23 47.51	−11 37.9	2.064	1.659	28.1	19.5	52 E	29*	38*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 33.45	−16 1.1	3.204	2.369	10.8	21.2	27 W	16*	14*
1 6	16 53.05	−16 42.3	3.107	2.334	13.0	21.2	32 W	18*	20*
1 16	17 12.96	−17 14.3	3.001	2.299	15.1	21.1	37 W	19*	26*
1 26	17 33.09	−17 36.8	2.886	2.264	17.2	21.1	43 W	20*	33*
2 5	17 53.40	−17 49.5	2.764	2.227	19.2	21.0	48 W	21*	39*
2 15	18 13.79	−17 52.4	2.636	2.191	21.1	20.9	53 W	21*	45*
2 25	18 34.20	−17 45.8	2.502	2.154	23.0	20.9	58 W	22*	50*
3 7	18 54.54	−17 30.2	2.365	2.116	24.8	20.7	63 W	22*	56*
3 17	19 14.74	−17 6.2	2.225	2.079	26.4	20.6	69 W	22*	61*
3 27	19 34.71	−16 34.8	2.084	2.041	28.0	20.5	74 W	23*	66*
4 6	19 54.40	−15 57.2	1.943	2.003	29.3	20.3	79 W	24*	71*
4 16	20 13.73	−15 15.1	1.803	1.966	30.5	20.2	84 W	24*	75*
4 26	20 32.60	−14 30.5	1.665	1.929	31.4	20.0	89 W	25*	78*
5 6	20 50.95	−13 45.6	1.531	1.892	32.1	19.8	94 W	27*	78
5 16	21 8.67	−13 3.4	1.400	1.856	32.5	19.5	99 W	28*	77
5 26	21 25.61	−12 27.4	1.275	1.821	32.5	19.3	105 W	29*	76
6 5	21 41.65	−12 1.6	1.156	1.787	32.1	19.0	111 W	31*	76
6 15	21 56.54	−11 51.0	1.045	1.754	31.2	18.7	117 W	32*	76
6 25	22 9.99	−12 1.1	0.942	1.723	29.6	18.4	123 W	33*	76
7 5	22 21.69	−12 37.7	0.849	1.694	27.3	18.1	130 W	32	77
7 15	22 31.17	−13 46.2	0.767	1.667	24.1	17.8	138 W	31	78
7 25	22 38.02	−15 29.7	0.698	1.642	20.1	17.4	146 W	30	79
7 30	22 40.36	−16 34.2	0.669	1.631	17.9	17.2	150 W	28	81
8 4	22 41.92	−17 46.3	0.644	1.621	15.5	17.0	155 W	27	82
8 9	22 42.72	−19 4.4	0.623	1.611	13.1	16.9	159 W	26	83
8 14	22 42.79	−20 26.4	0.606	1.602	10.9	16.7	163 W	25	84
8 19	22 42.25	−21 49.5	0.594	1.594	9.3	16.6	165 W	23	86
8 24	22 41.21	−23 10.8	0.586	1.586	8.8	16.5	166 W	22	87
8 29	22 39.83	−24 27.2	0.583	1.580	9.6	16.6	165 W	21	88
9 3	22 38.29	−25 35.8	0.583	1.574	11.5	16.6	162 E	19	90
9 8	22 36.84	−26 34.1	0.589	1.569	13.8	16.7	158 E	18	89
9 13	22 35.69	−27 20.1	0.598	1.565	16.4	16.8	154 E	18	89
9 18	22 35.06	−27 52.6	0.611	1.562	19.0	17.0	150 E	17	88
9 23	22 35.09	−28 11.3	0.627	1.560	21.5	17.1	145 E	17	88
9 28	22 35.90	−28 16.4	0.646	1.559	23.7	17.2	141 E	17	88
10 3	22 37.55	−28 8.5	0.669	1.559	25.8	17.4	137 E	17	88
10 8	22 40.07	−27 48.4	0.694	1.560	27.7	17.5	133 E	17	88
10 13	22 43.46	−27 17.1	0.722	1.562	29.4	17.6	130 E	18	89
10 18	22 47.70	−26 35.8	0.752	1.565	30.8	17.8	126 E	18	89
10 23	22 52.69	−25 45.6	0.785	1.569	32.1	17.9	123 E	19	90
10 28	22 58.37	−24 47.6	0.819	1.573	33.1	18.0	120 E	20	89
11 2	23 4.67	−23 42.7	0.856	1.579	34.0	18.2	117 E	21	88
11 7	23 11.53	−22 31.9	0.894	1.585	34.7	18.3	114 E	22	87
11 12	23 18.87	−21 16.0	0.934	1.592	35.3	18.4	112 E	24	85
11 17	23 26.63	−19 55.7	0.976	1.601	35.7	18.5	109 E	25	84
11 22	23 34.74	−18 32.0	1.020	1.609	36.0	18.6	107 E	26	83
11 27	23 43.15	−17 5.4	1.065	1.619	36.2	18.8	104 E	28	81
12 2	23 51.81	−15 36.6	1.112	1.630	36.3	18.9	102 E	29	80
12 7	0 0.71	−14 5.9	1.161	1.641	36.3	19.0	99 E	31	78*
12 12	0 9.80	−12 34.0	1.211	1.653	36.2	19.1	97 E	32	75*
12 17	0 19.05	−11 1.4	1.262	1.665	36.1	19.2	95 E	34	73*
12 22	0 28.45	− 9 28.5	1.315	1.678	35.8	19.3	93 E	36	70*
12 27	0 37.96	− 7 55.7	1.370	1.692	35.5	19.4	90 E	37	66*
1 1	0 47.58	− 6 23.3	1.425	1.706	35.2	19.5	88 E	39	63*
1 6	0 57.31	− 4 51.7	1.482	1.721	34.8	19.6	86 E	40	61*
1 11	1 7.13	− 3 21.1	1.540	1.736	34.3	19.7	84 E	42	58*
1 16	1 17.03	− 1 51.8	1.599	1.752	33.7	19.7	82 E	43	55*
1 21	1 27.01	− 0 24.2	1.659	1.768	33.2	19.8	79 E	45	52*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 34.03	−20 4.0	1.839	1.043	24.0	19.8	26 W	12*	15*
1 1	16 52.55	−20 41.0	1.878	1.088	23.6	20.0	26 W	12*	16*
1 6	17 10.36	−21 9.4	1.915	1.134	23.4	20.1	27 W	12*	18*
1 11	17 27.46	−21 29.8	1.949	1.180	23.3	20.2	28 W	12*	19*
1 16	17 43.86	−21 43.1	1.981	1.226	23.3	20.3	30 W	12*	21*
1 26	18 14.62	−21 51.4	2.036	1.318	23.7	20.6	33 W	12*	25*
2 5	18 42.78	−21 39.8	2.079	1.410	24.4	20.8	36 W	12*	29*
2 15	19 8.49	−21 13.4	2.109	1.499	25.2	21.0	40 W	12*	34*
2 25	19 31.84	−20 36.4	2.125	1.586	26.1	21.1	45 W	13*	38*
3 7	19 52.98	−19 52.7	2.126	1.670	27.0	21.3	50 W	14*	44*
3 17	20 11.97	−19 5.3	2.114	1.752	27.9	21.4	55 W	15*	49*
3 27	20 28.84	−18 17.4	2.088	1.830	28.5	21.5	61 W	16*	55*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
24475 2000 VN_2									
12 27	16 34.22	−18 36.0	3.039	2.197	11.3	21.1	26 W	13*	15*
1 6	16 52.73	−19 32.5	3.021	2.243	13.3	21.2	32 W	15*	21*
1 16	17 10.59	−20 19.7	2.989	2.287	15.2	21.3	37 W	17*	28*
1 26	17 27.68	−20 58.6	2.943	2.330	16.9	21.4	44 W	17*	35*
2 5	17 43.88	−21 30.5	2.883	2.371	18.5	21.4	50 W	18*	42*
2 15	17 59.06	−21 56.9	2.811	2.410	20.0	21.5	56 W	19*	49*
2 25	18 13.06	−22 19.2	2.727	2.448	21.2	21.5	63 W	19*	57*
3 7	18 25.71	−22 39.1	2.634	2.484	22.1	21.4	70 W	19*	64*
3 17	18 36.81	−22 58.7	2.532	2.518	22.7	21.4	78 W	20*	72*
3 27	18 46.11	−23 19.8	2.423	2.550	23.0	21.3	86 W	20*	79*
4 6	18 53.36	−23 44.4	2.311	2.581	22.8	21.3	94 W	20*	87*
4 16	18 58.26	−24 14.5	2.199	2.610	22.0	21.2	103 W	20*	88
4 26	19 0.47	−24 51.6	2.090	2.637	20.7	21.0	112 W	20*	89
5 6	18 59.70	−25 36.5	1.988	2.663	18.8	20.9	122 W	19	90
5 16	18 55.69	−26 28.7	1.898	2.686	16.1	20.7	132 W	19	90
5 26	18 48.41	−27 26.1	1.825	2.709	12.8	20.5	144 W	18	89
6 5	18 38.13	−28 24.6	1.774	2.729	8.9	20.3	155 W	17	88
6 10	18 32.04	−28 52.6	1.758	2.739	6.9	20.2	161 W	16	87
6 15	18 25.49	−29 18.9	1.749	2.748	4.8	20.1	167 W	16	87
6 20	18 18.64	−29 42.9	1.747	2.757	3.1	20.0	172 W	15	86
6 25	18 11.65	−30 4.0	1.753	2.765	2.5	20.0	173 E	15	86
6 30	18 4.71	−30 22.1	1.766	2.773	3.6	20.1	170 E	15	86
7 5	17 57.97	−30 36.8	1.787	2.781	5.5	20.2	165 E	14	85
7 10	17 51.62	−30 48.4	1.814	2.788	7.4	20.4	159 E	14	85
7 15	17 45.78	−30 57.1	1.848	2.795	9.4	20.5	153 E	14	85
7 20	17 40.59	−31 3.3	1.889	2.801	11.2	20.6	148 E	14	85
7 25	17 36.11	−31 7.3	1.935	2.807	12.8	20.7	142 E	14	85
7 30	17 32.41	−31 9.7	1.986	2.812	14.3	20.8	137 E	14	85
8 4	17 29.51	−31 10.9	2.042	2.818	15.7	21.0	131 E	14	85
8 9	17 27.42	−31 11.2	2.102	2.822	16.8	21.1	126 E	14	85
8 14	17 26.14	−31 11.1	2.166	2.827	17.9	21.2	121 E	14	85
8 19	17 25.64	−31 10.7	2.232	2.830	18.7	21.3	116 E	14	85
8 24	17 25.88	−31 10.2	2.301	2.834	19.4	21.4	112 E	14*	85
8 29	17 26.84	−31 9.8	2.371	2.837	19.9	21.4	107 E	14*	85
382825 2003 XB_{22}									
12 27	16 34.22	− 5 40.2	1.530	0.865	36.7	21.4	32 W	24*	9*
1 1	16 58.22	− 7 18.4	1.549	0.857	35.3	21.4	30 W	22*	10*
1 6	17 21.99	− 8 51.9	1.571	0.853	33.7	21.3	29 W	21*	10*
1 11	17 45.51	−10 19.4	1.596	0.853	32.1	21.3	27 W	19*	11*
1 16	18 8.74	−11 39.8	1.622	0.857	30.4	21.3	26 W	17*	12*
1 21	18 31.66	−12 52.3	1.648	0.865	28.9	21.3	25 W	15*	12*
1 26	18 54.23	−13 56.2	1.676	0.877	27.4	21.4	24 W	13*	13*
1 31	19 16.43	−14 51.3	1.703	0.892	26.2	21.4	24 W	11*	14*
2 5	19 38.25	−15 37.3	1.731	0.910	25.1	21.4	23 W	10*	15*
131774 2002 AZ_{18}									
12 27	16 34.57	− 5 40.6	3.831	3.037	9.8	21.2	32 W	24*	9*
1 6	16 48.35	− 6 5.1	3.757	3.035	11.3	21.2	37 W	27*	17*
1 16	17 1.77	− 6 21.2	3.668	3.031	12.9	21.2	43 W	30*	24*
1 26	17 14.72	− 6 28.8	3.567	3.026	14.4	21.2	50 W	32*	32*
2 5	17 27.06	− 6 28.4	3.453	3.021	15.8	21.2	56 W	34*	40*
2 15	17 38.65	− 6 20.3	3.329	3.014	17.0	21.1	63 W	35*	48*
2 25	17 49.32	− 6 5.3	3.196	3.006	18.0	21.0	70 W	36*	55*
3 7	17 58.89	− 5 44.1	3.055	2.997	18.8	21.0	77 W	37*	61*
3 17	18 7.16	− 5 17.9	2.910	2.988	19.4	20.9	85 W	39*	66*
3 27	18 13.90	− 4 47.8	2.762	2.977	19.6	20.8	92 W	40*	69*
4 6	18 18.91	− 4 15.7	2.615	2.965	19.4	20.6	101 W	41*	68
4 16	18 21.91	− 3 43.4	2.470	2.952	18.8	20.5	109 W	41*	68
4 26	18 22.68	− 3 13.7	2.333	2.939	17.6	20.3	118 W	42	67
5 6	18 21.05	− 2 49.4	2.206	2.924	16.0	20.1	127 W	42	67
5 16	18 16.91	− 2 33.8	2.093	2.908	13.9	19.9	136 W	42	67
5 26	18 10.35	− 2 30.5	1.999	2.892	11.4	19.7	146 W	42	67
6 5	18 1.71	− 2 42.7	1.928	2.874	8.9	19.5	154 W	42	67
6 15	17 51.58	− 3 12.3	1.882	2.855	7.2	19.4	159 W	42	67
6 25	17 40.86	− 4 0.0	1.863	2.836	7.4	19.4	159 E	41	68
7 5	17 30.50	− 5 4.0	1.872	2.815	9.5	19.4	153 E	40	69
7 15	17 21.45	− 6 21.3	1.907	2.793	12.4	19.6	144 E	39	70
7 25	17 14.44	− 7 47.8	1.965	2.771	15.2	19.7	134 E	37	72
8 4	17 9.93	− 9 19.5	2.041	2.747	17.7	19.9	125 E	36	73
8 14	17 8.11	−10 53.1	2.132	2.723	19.7	20.0	115 E	34*	75
8 24	17 8.98	−12 25.8	2.233	2.698	21.1	20.1	106 E	32*	76
9 3	17 12.40	−13 55.7	2.341	2.671	22.0	20.2	98 E	30*	78
9 13	17 18.18	−15 21.2	2.451	2.644	22.4	20.3	90 E	28*	78*
9 23	17 26.11	−16 41.4	2.560	2.616	22.3	20.4	82 E	26*	73*
10 3	17 35.96	−17 55.1	2.666	2.587	21.9	20.5	75 E	25*	67*
10 13	17 47.55	−19 1.8	2.767	2.557	21.1	20.5	68 E	23*	60*
10 23	18 0.69	−20 0.6	2.860	2.527	20.1	20.5	61 E	21*	53*
11 2	18 15.21	−20 51.0	2.944	2.495	18.8	20.5	54 E	20*	46*
11 12	18 30.98	−21 32.3	3.018	2.463	17.3	20.5	48 E	18*	39*
11 22	18 47.84	−22 4.1	3.080	2.430	15.6	20.4	41 E	16*	33*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
131774 2002 AZ_{18} *(continuation)*									
12 2	19 5.66	−22 26.0	3.131	2.396	13.8	20.4	35 E	14*	26*
12 12	19 24.35	−22 37.5	3.168	2.362	11.9	20.3	30 E	12*	20*
12 22	19 43.77	−22 38.7	3.193	2.327	9.8	20.2	24 E	9*	15*
1 1	20 3.83	−22 29.3	3.205	2.292	7.7	20.1	18 E	6*	10*
1 11	20 24.44	−22 9.4	3.203	2.256	5.6	19.9	13 E	2*	6*
1 21	20 45.51	−21 39.4	3.189	2.219	3.6	19.8	8 E	—	2*
1747 Wright									
12 27	16 35.26	−29 42.7	2.359	1.526	15.8	17.2	25 W	4*	19*
1 6	17 8.22	−29 31.2	2.324	1.523	17.4	17.3	28 W	5*	21*
1 16	17 40.79	−28 50.8	2.285	1.521	19.1	17.3	30 W	6*	24*
1 26	18 12.64	−27 41.9	2.243	1.521	20.9	17.3	33 W	7*	27*
2 5	18 43.53	−26 5.8	2.198	1.522	22.6	17.3	36 W	8*	30*
2 15	19 13.26	−24 4.4	2.150	1.525	24.4	17.3	40 W	9*	33*
2 25	19 41.70	−21 39.8	2.099	1.528	26.1	17.3	43 W	11*	37*
3 7	20 8.80	−18 54.5	2.045	1.534	27.8	17.3	46 W	13*	40*
3 17	20 34.57	−15 50.8	1.990	1.540	29.4	17.3	49 W	15*	43*
3 27	20 59.03	−12 31.3	1.932	1.548	30.9	17.3	53 W	17*	46*
4 6	21 22.26	− 8 58.3	1.872	1.557	32.3	17.3	56 W	19*	49*
4 16	21 44.32	− 5 14.0	1.811	1.567	33.6	17.3	60 W	22*	52*
4 26	22 5.26	− 1 20.4	1.749	1.578	34.7	17.2	63 W	25*	53*
5 6	22 25.16	+ 2 40.4	1.687	1.589	35.7	17.2	67 W	29*	54*
5 16	22 44.04	+ 6 46.5	1.624	1.602	36.5	17.2	71 W	33*	54*
5 26	23 1.89	+10 56.0	1.561	1.615	37.2	17.1	74 W	38*	52*
6 5	23 18.68	+15 7.2	1.498	1.628	37.6	17.1	78 W	44*	49*
6 15	23 34.29	+19 18.1	1.435	1.642	37.8	17.0	82 W	50*	45
6 25	23 48.55	+23 26.7	1.372	1.657	37.8	16.9	86 W	58*	41
7 5	0 1.23	+27 30.8	1.311	1.671	37.5	16.8	91 W	65*	36
7 10	0 6.85	+29 30.4	1.281	1.678	37.2	16.8	93 W	69*	34
7 15	0 11.92	+31 27.7	1.251	1.686	36.9	16.7	95 W	73*	33
7 20	0 16.37	+33 22.3	1.221	1.693	36.5	16.7	98 W	77*	31
7 25	0 20.14	+35 13.7	1.192	1.700	36.0	16.6	100 W	80*	29
7 30	0 23.14	+37 1.3	1.164	1.707	35.4	16.5	103 W	82	27
8 4	0 25.27	+38 44.3	1.136	1.715	34.7	16.5	106 W	84	25
8 9	0 26.43	+40 21.7	1.109	1.722	34.0	16.4	108 W	85	24
8 14	0 26.55	+41 52.3	1.083	1.729	33.1	16.4	111 W	87	22
8 19	0 25.56	+43 14.8	1.059	1.736	32.2	16.3	114 W	88	21
8 24	0 23.40	+44 27.9	1.036	1.743	31.2	16.2	117 W	89	20
8 29	0 20.06	+45 30.0	1.014	1.750	30.1	16.1	120 W	89	18
9 3	0 15.56	+46 19.2	0.995	1.757	28.9	16.1	123 W	89	18
9 8	0 10.01	+46 53.6	0.977	1.764	27.7	16.0	125 W	88	17
9 13	0 3.61	+47 11.7	0.962	1.771	26.5	16.0	128 W	88	17
9 18	23 56.64	+47 12.2	0.950	1.777	25.4	15.9	131 W	88	17
9 23	23 49.42	+46 54.7	0.941	1.784	24.3	15.9	133 E	88	17
9 28	23 42.29	+46 19.1	0.936	1.790	23.4	15.8	135 E	89	18
10 3	23 35.61	+45 26.1	0.934	1.796	22.6	15.8	136 E	90	19
10 8	23 29.71	+44 17.4	0.936	1.802	22.1	15.8	137 E	89	20
10 13	23 24.83	+42 55.3	0.942	1.808	21.9	15.8	138 E	88	21
10 18	23 21.16	+41 22.8	0.952	1.814	21.9	15.8	137 E	86	23
10 23	23 18.76	+39 43.1	0.966	1.820	22.2	15.9	136 E	85	24
10 28	23 17.65	+37 59.0	0.985	1.825	22.8	16.0	135 E	83	26
11 2	23 17.81	+36 13.5	1.007	1.830	23.6	16.0	132 E	81	28
11 7	23 19.16	+34 29.1	1.034	1.835	24.4	16.1	130 E	79	30
11 12	23 21.64	+32 48.1	1.065	1.840	25.4	16.2	127 E	78	31
11 17	23 25.12	+31 12.3	1.099	1.845	26.3	16.3	124 E	76	33
11 22	23 29.51	+29 42.9	1.136	1.850	27.3	16.4	121 E	75	34
11 27	23 34.69	+28 20.6	1.177	1.854	28.1	16.5	118 E	73	36
12 2	23 40.58	+27 6.0	1.220	1.858	28.9	16.6	114 E	72	37*
12 7	23 47.10	+25 59.3	1.266	1.862	29.6	16.8	111 E	71	38*
12 12	23 54.18	+25 0.5	1.314	1.866	30.2	16.9	108 E	70	38*
12 22	0 9.72	+23 25.7	1.415	1.873	31.0	17.0	101 E	68	38*
1 1	0 26.74	+22 18.4	1.522	1.879	31.4	17.2	95 E	67	36*
1 11	0 44.93	+21 34.8	1.633	1.884	31.4	17.4	89 E	67	34*
1 21	1 4.04	+21 10.8	1.745	1.889	31.1	17.5	83 E	66*	32*
513171 2004 MD_6									
12 27	16 35.51	−34 46.0	1.015	0.453	73.1	21.3	26 W	—	20*
12 29	16 44.60	−34 45.3	1.063	0.469	67.4	21.3	26 W	—	20*
12 31	16 53.95	−34 37.7	1.109	0.487	62.3	21.3	26 W	—	20*
1 2	17 3.42	−34 24.3	1.154	0.508	57.9	21.3	26 W	—	20*
1 4	17 12.88	−34 6.0	1.196	0.529	54.0	21.4	26 W	—	20*
1 6	17 22.25	−33 43.8	1.236	0.552	50.6	21.4	26 W	—	20*
515049 2010 FL									
12 27	16 36.67	−19 22.8	1.608	0.831	30.2	21.2	25 W	12*	14*
1 1	17 6.08	−21 1.6	1.588	0.786	29.5	21.1	23 W	10*	14*
1 6	17 37.15	−22 23.2	1.576	0.745	28.1	20.9	21 W	7*	13*
1 11	18 9.65	−23 22.8	1.572	0.711	26.0	20.7	18 W	5*	11*
1 16	18 43.19	−23 56.4	1.575	0.685	23.2	20.6	16 W	2*	9*
1 21	19 17.25	−24 0.9	1.585	0.668	20.0	20.4	13 W	—	7*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
515049 2010 *FL*									*(continuation)*
	h m	° ′			°	m	°	°	°
1 26	19 51.24	−23 35.3	1.601	0.661	16.4	20.3	11 W	—	5*
1 31	20 24.54	−22 40.6	1.623	0.666	12.9	20.2	9 W	—	3*
2 5	20 56.63	−21 19.9	1.651	0.681	9.8	20.2	7 W	—	—
2 10	21 27.13	−19 37.8	1.682	0.706	7.6	20.2	5 W	—	—
2 15	21 55.81	−17 39.6	1.719	0.740	6.6	20.3	5 E	—	—
2 20	22 22.61	−15 30.6	1.759	0.779	6.4	20.5	5 E	—	—
2 25	22 47.57	−13 15.5	1.803	0.824	6.6	20.7	6 E	—	—
3 2	23 10.80	−10 58.1	1.851	0.872	6.9	20.9	6 E	—	—
3 7	23 32.45	− 8 41.4	1.902	0.923	7.0	21.0	7 E	—	1*
3 12	23 52.70	− 6 27.4	1.954	0.975	6.9	21.2	7 E	—	1*
3 17	0 11.70	− 4 17.9	2.009	1.028	6.7	21.4	7 E	—	1*
138127 2000 EE_{14}									
12 27	16 36.87	−45 50.0	0.500	0.613	123.8	19.7	31 W	—	23*
12 29	16 28.81	−45 38.5	0.489	0.636	121.3	19.5	34 W	—	26*
12 31	16 21.51	−45 17.6	0.478	0.659	118.8	19.3	36 W	—	29*
1 2	16 15.03	−44 48.7	0.467	0.682	116.4	19.2	38 W	—	31*
1 4	16 9.37	−44 13.0	0.457	0.703	114.2	19.1	41 W	—	34*
1 6	16 4.53	−43 31.7	0.448	0.724	112.0	18.9	43 W	—	36*
1 8	16 0.47	−42 45.4	0.438	0.744	109.9	18.8	45 W	—	39*
1 10	15 57.15	−41 54.9	0.428	0.763	108.0	18.7	48 W	1*	41*
1 12	15 54.51	−41 0.6	0.419	0.781	106.1	18.6	50 W	2*	44*
1 14	15 52.50	−40 2.8	0.409	0.799	104.4	18.5	52 W	3*	46*
1 16	15 51.05	−39 1.6	0.399	0.816	102.7	18.4	54 W	5*	48*
1 21	15 49.65	−36 13.8	0.373	0.854	98.9	18.2	59 W	8*	53*
1 26	15 50.87	−33 1.9	0.346	0.889	95.5	18.0	64 W	12*	58*
1 31	15 54.24	−29 19.4	0.318	0.919	92.5	17.7	69 W	15*	62*
2 5	15 59.45	−24 55.4	0.289	0.944	89.6	17.4	73 W	20*	66*
2 7	16 2.00	−22 54.9	0.278	0.954	88.5	17.3	75 W	22*	67*
2 9	16 4.80	−20 44.0	0.266	0.962	87.4	17.2	77 W	24*	68*
2 11	16 7.83	−18 21.3	0.255	0.970	86.3	17.1	79 W	27*	69*
2 13	16 11.12	−15 45.2	0.243	0.977	85.3	17.0	80 W	29*	69*
2 15	16 14.66	−12 54.2	0.233	0.984	84.2	16.8	82 W	32*	68*
2 17	16 18.45	− 9 46.4	0.222	0.990	83.2	16.7	84 W	35*	67*
2 19	16 22.53	− 6 20.2	0.212	0.995	82.2	16.6	86 W	39*	65*
2 21	16 26.90	− 2 34.2	0.203	0.999	81.2	16.5	87 W	42*	63*
2 23	16 31.61	+ 1 32.9	0.194	1.003	80.3	16.4	89 W	47*	60*
2 25	16 36.70	+ 6 1.4	0.187	1.007	79.4	16.2	90 W	51*	56*
2 27	16 42.21	+10 50.9	0.180	1.010	78.7	16.1	91 W	56*	51*
3 1	16 48.21	+15 59.5	0.175	1.012	78.1	16.1	92 W	61*	47*
3 3	16 54.77	+21 23.9	0.171	1.013	77.7	16.0	93 W	66*	42*
3 5	17 2.00	+26 59.1	0.169	1.014	77.6	16.0	93 W	72*	36*
3 7	17 10.01	+32 39.0	0.168	1.015	77.6	16.0	93 W	77*	31*
3 8	17 14.35	+35 28.6	0.168	1.015	77.7	16.0	93 W	80*	28*
3 9	17 18.95	+38 16.6	0.169	1.014	77.9	16.0	92 W	83*	25*
3 10	17 23.83	+41 2.3	0.170	1.014	78.1	16.0	92 W	85*	22*
3 11	17 29.03	+43 44.8	0.172	1.013	78.4	16.0	92 W	86*	20*
3 12	17 34.56	+46 23.3	0.173	1.013	78.8	16.1	91 W	85*	17*
3 13	17 40.48	+48 57.2	0.176	1.012	79.1	16.1	91 W	83*	14*
3 14	17 46.81	+51 25.9	0.178	1.011	79.5	16.2	90 W	81*	12*
3 15	17 53.61	+53 48.8	0.181	1.010	80.0	16.2	90 W	79*	10*
3 16	18 0.93	+56 5.5	0.184	1.008	80.5	16.3	89 W	77*	7*
3 17	18 8.83	+58 15.7	0.187	1.007	81.0	16.3	88 W	75*	5*
3 18	18 17.37	+60 19.1	0.191	1.005	81.5	16.4	88 W	73*	3*
3 19	18 26.61	+62 15.5	0.195	1.004	82.0	16.4	87 W	70*	1*
3 20	18 36.63	+64 4.6	0.199	1.002	82.6	16.5	86 W	68*	—
3 21	18 47.50	+65 46.5	0.204	1.000	83.1	16.6	85 W	67*	—
3 22	18 59.30	+67 20.8	0.208	0.997	83.7	16.6	84 W	65*	—
3 23	19 12.10	+68 47.5	0.213	0.995	84.3	16.7	83 W	63*	—
3 24	19 25.94	+70 6.6	0.218	0.993	84.8	16.7	83 W	61*	—
3 25	19 40.88	+71 17.8	0.223	0.990	85.4	16.8	82 W	60*	—
3 26	19 56.92	+72 21.1	0.228	0.987	86.0	16.9	81 W	58*	—
3 27	20 14.03	+73 16.4	0.233	0.984	86.6	16.9	80 W	57*	—
3 28	20 32.12	+74 3.7	0.239	0.981	87.2	17.0	79 W	55*	—
3 29	20 51.05	+74 43.0	0.244	0.978	87.8	17.1	78 W	54*	—
3 30	21 10.61	+75 14.3	0.250	0.974	88.4	17.1	77 W	53*	—
3 31	21 30.56	+75 37.9	0.255	0.970	89.0	17.2	76 W	52*	—
4 1	21 50.61	+75 54.1	0.261	0.967	89.5	17.3	75 W	50*	—
4 2	22 10.46	+76 3.2	0.267	0.963	90.1	17.3	74 W	49*	—
4 3	22 29.82	+76 5.9	0.272	0.958	90.7	17.4	73 W	48*	—
4 4	22 48.45	+76 2.7	0.278	0.954	91.3	17.5	73 W	47*	—
4 5	23 6.16	+75 54.2	0.284	0.950	91.9	17.5	72 W	46*	—
4 6	23 22.83	+75 41.2	0.290	0.945	92.5	17.6	71 W	45*	—
4 7	23 38.36	+75 24.1	0.296	0.940	93.1	17.6	70 W	45*	—
4 8	23 52.76	+75 3.5	0.301	0.935	93.7	17.7	69 W	44*	—
4 9	0 6.02	+74 40.1	0.307	0.930	94.4	17.7	68 W	43*	—
4 10	0 18.19	+74 14.2	0.313	0.925	95.0	17.8	67 W	42*	—
4 11	0 29.33	+73 46.1	0.319	0.919	95.6	17.9	66 W	41*	—
4 12	0 39.52	+73 16.4	0.325	0.914	96.2	17.9	65 W	41*	—
4 13	0 48.82	+72 45.1	0.330	0.908	96.9	18.0	64 W	40*	—

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
138127 2000 EE_{14}									*(continuation)*
	h m	° ′			°	m	°	°	°
4 14	0 57.32	+72 12.6	0.336	0.902	97.5	18.0	63 W	39*	—
4 15	1 5.08	+71 38.9	0.342	0.896	98.2	18.1	62 W	39*	—
4 16	1 12.18	+71 4.3	0.348	0.890	98.8	18.1	61 W	38*	—
4 17	1 18.68	+70 28.8	0.353	0.883	99.5	18.2	60 W	37*	—
4 18	1 24.63	+69 52.5	0.359	0.876	100.2	18.2	59 W	37*	—
4 19	1 30.08	+69 15.5	0.365	0.870	100.9	18.3	58 W	36*	—
4 20	1 35.10	+68 37.8	0.370	0.863	101.6	18.3	57 W	36*	—
4 21	1 39.71	+67 59.4	0.376	0.855	102.3	18.4	56 W	35*	—
4 22	1 43.96	+67 20.4	0.382	0.848	103.0	18.4	55 W	35*	—
4 23	1 47.88	+66 40.6	0.387	0.840	103.7	18.5	54 W	34*	—
4 24	1 51.50	+66 0.2	0.393	0.833	104.5	18.5	53 W	34*	—
4 25	1 54.86	+65 19.1	0.399	0.825	105.2	18.6	52 W	33*	—
4 26	1 57.97	+64 37.3	0.404	0.817	106.0	18.6	51 W	33*	—
4 27	2 0.87	+63 54.7	0.410	0.808	106.8	18.7	50 W	32*	—
4 28	2 3.57	+63 11.4	0.416	0.800	107.6	18.7	49 W	32*	—
4 29	2 6.09	+62 27.3	0.421	0.791	108.4	18.8	48 W	31*	—
4 30	2 8.46	+61 42.3	0.427	0.782	109.2	18.8	47 W	31*	—
5 1	2 10.69	+60 56.4	0.433	0.773	110.1	18.9	46 W	30*	—
5 2	2 12.79	+60 9.7	0.439	0.764	110.9	19.0	45 W	30*	—
5 3	2 14.78	+59 22.1	0.445	0.755	111.8	19.0	44 W	29*	—
5 4	2 16.67	+58 33.5	0.451	0.745	112.7	19.1	43 W	29*	—
5 5	2 18.47	+57 43.9	0.457	0.735	113.5	19.1	42 W	28*	—
5 6	2 20.20	+56 53.3	0.463	0.725	114.4	19.2	41 W	28*	—
5 8	2 23.48	+55 8.9	0.476	0.704	116.2	19.3	39 W	27*	—
5 10	2 26.59	+53 20.2	0.489	0.683	118.0	19.4	37 W	26*	—
5 12	2 29.61	+51 27.1	0.503	0.661	119.8	19.5	35 W	25*	—
5 14	2 32.60	+49 29.5	0.518	0.638	121.5	19.7	33 W	24*	—
5 16	2 35.65	+47 27.6	0.535	0.614	123.1	19.8	31 W	23*	—
5 18	2 38.83	+45 21.5	0.553	0.590	124.6	19.9	29 W	22*	—
5 20	2 42.22	+43 11.8	0.572	0.565	125.7	20.0	27 W	20*	—
5 22	2 45.88	+40 58.8	0.594	0.539	126.6	20.0	25 W	19*	—
5 24	2 49.91	+38 43.5	0.618	0.513	126.9	20.0	24 W	18*	—
5 26	2 54.40	+36 26.7	0.645	0.486	126.6	20.0	23 W	17*	1*
5 28	2 59.45	+34 9.7	0.675	0.460	125.5	19.8	22 W	15*	3*
5 30	3 5.16	+31 53.8	0.708	0.433	123.5	19.7	21 W	14*	5*
6 1	3 11.67	+29 40.7	0.746	0.407	120.3	19.4	20 W	12*	7*
6 3	3 19.08	+27 32.2	0.787	0.383	115.9	19.0	20 W	10*	8*
6 5	3 27.54	+25 30.3	0.833	0.360	110.2	18.7	19 W	9*	9*
6 7	3 37.16	+23 37.2	0.882	0.340	103.1	18.3	19 W	7*	10*
6 9	3 48.02	+21 55.2	0.935	0.324	94.7	17.9	19 W	5*	11*
6 11	4 0.11	+20 26.1	0.991	0.314	85.4	17.6	18 W	3*	11*
6 13	4 13.33	+19 11.2	1.048	0.309	75.4	17.3	17 W	1*	11*
6 15	4 27.45	+18 10.6	1.105	0.311	65.5	17.1	16 W	—	10*
6 17	4 42.15	+17 23.5	1.159	0.319	56.0	17.0	15 W	—	9*
6 19	4 57.12	+16 48.0	1.211	0.333	47.5	16.9	14 W	—	8*
6 21	5 12.07	+16 21.8	1.259	0.352	40.2	16.9	13 W	—	7*
6 23	5 26.79	+16 2.7	1.304	0.373	34.1	17.0	12 W	—	6*
6 25	5 41.15	+15 48.6	1.345	0.397	29.1	17.0	11 W	—	4*
6 27	5 55.07	+15 38.0	1.384	0.423	25.0	17.1	10 W	—	3*
6 29	6 8.52	+15 29.8	1.420	0.449	21.7	17.2	9 W	—	2*
7 1	6 21.48	+15 23.0	1.454	0.476	19.2	17.3	9 W	—	1*
7 3	6 33.98	+15 17.0	1.486	0.502	17.1	17.4	8 W	—	—
7 5	6 46.03	+15 11.3	1.516	0.529	15.5	17.5	8 W	—	—
7 10	7 14.34	+14 56.8	1.586	0.592	12.7	17.7	7 W	—	—
7 15	7 40.36	+14 39.7	1.649	0.652	10.9	17.9	7 E	—	—
7 20	8 4.45	+14 19.0	1.706	0.707	9.6	18.1	7 E	—	—
7 25	8 26.91	+13 54.5	1.758	0.757	8.4	18.3	6 E	—	—
7 30	8 48.01	+13 26.3	1.805	0.802	7.4	18.4	6 E	—	—
8 4	9 7.97	+12 54.7	1.847	0.842	6.3	18.5	5 E	—	—
8 14	9 45.16	+11 42.0	1.918	0.909	4.3	18.7	4 E	—	—
8 24	10 19.66	+10 18.8	1.969	0.959	2.4	18.7	2 E	—	—
9 3	10 52.40	+ 8 46.4	2.001	0.993	1.6	18.8	2 E	—	—
9 13	11 24.13	+ 7 5.9	2.014	1.011	3.2	19.0	3 E	—	—
9 23	11 55.49	+ 5 18.0	2.009	1.014	5.3	19.1	5 W	—	—
10 3	12 27.13	+ 3 22.5	1.985	1.001	7.5	19.1	8 W	1*	—
10 13	12 59.72	+ 1 19.0	1.943	0.973	9.8	19.1	10 W	3*	—
10 23	13 33.99	− 0 53.4	1.885	0.928	11.9	19.0	11 W	4*	—
11 2	14 10.86	− 3 16.5	1.812	0.867	13.9	18.9	12 W	5*	—
11 12	14 51.51	− 5 53.0	1.726	0.788	15.7	18.6	12 W	5*	—
11 17	15 13.70	− 7 17.4	1.678	0.742	16.3	18.5	12 W	5*	—
11 22	15 37.48	− 8 46.8	1.628	0.690	16.8	18.2	12 W	4*	—
11 27	16 3.12	−10 22.2	1.575	0.634	17.0	18.0	11 W	3*	—
12 2	16 31.00	−12 4.7	1.519	0.573	17.1	17.7	10 W	1*	—
12 7	17 1.51	−13 56.1	1.459	0.508	17.3	17.4	9 E	2*	—
12 12	17 35.07	−15 59.0	1.392	0.442	19.0	17.0	8 E	2*	—
12 17	18 11.96	−18 17.5	1.313	0.378	25.1	16.7	9 E	3*	—
12 22	18 51.66	−20 56.5	1.217	0.329	39.1	16.7	12 E	4*	3*

138127 2000 EE_{14} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 24	19 7.88	−22 6.6	1.172	0.316	47.1	16.7	14 E	4*	5*
12 26	19 23.92	−23 20.0	1.123	0.310	56.0	16.8	15 E	4*	7*
12 28	19 39.50	−24 35.9	1.071	0.310	65.5	17.0	17 E	4*	9*
12 30	19 54.35	−25 53.2	1.017	0.316	74.9	17.3	18 E	3*	11*
1 1	20 8.30	−27 10.6	0.963	0.328	83.9	17.5	19 E	3*	13*
1 3	20 21.29	−28 26.8	0.909	0.345	91.9	17.8	21 E	2*	14*
1 5	20 33.36	−29 40.8	0.858	0.366	98.9	18.2	22 E	1*	15*
1 7	20 44.62	−30 51.7	0.808	0.390	104.9	18.5	23 E	1*	16*
1 9	20 55.19	−31 59.1	0.761	0.415	110.0	18.8	23 E	—	17*
1 11	21 5.24	−33 2.5	0.717	0.441	114.2	19.0	24 E	—	18*
1 13	21 14.90	−34 1.6	0.675	0.467	117.7	19.3	25 E	—	19*
1 15	21 24.30	−34 56.0	0.635	0.494	120.6	19.5	26 E	—	19*
1 17	21 33.58	−35 45.3	0.598	0.520	123.0	19.6	26 E	—	20*
1 19	21 42.85	−36 29.3	0.563	0.546	124.9	19.8	27 E	—	21*
1 21	21 52.23	−37 7.5	0.530	0.572	126.5	19.9	28 E	—	21*

168044 2005 SG

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 38.04	−26 33.2	1.478	0.705	34.7	20.5	24 W	6*	17*
1 1	17 6.29	−29 37.9	1.491	0.703	33.4	20.5	23 W	3*	17*
1 6	17 36.52	−32 12.9	1.507	0.706	32.0	20.5	22 W	—	16*
1 11	18 8.42	−34 12.4	1.526	0.712	30.7	20.5	22 W	—	15*
1 16	18 41.46	−35 32.0	1.548	0.722	29.3	20.5	21 W	—	14*
1 21	19 14.92	−36 9.8	1.572	0.736	27.9	20.6	21 W	—	13*
1 26	19 47.98	−36 6.4	1.599	0.753	26.6	20.6	20 W	—	11*
1 31	20 19.91	−35 25.0	1.628	0.772	25.2	20.7	19 W	—	9*
2 5	20 50.14	−34 10.6	1.659	0.794	23.8	20.7	19 W	—	7*
2 10	21 18.36	−32 29.2	1.692	0.817	22.4	20.8	18 W	—	6*
2 15	21 44.44	−30 26.7	1.726	0.842	21.0	20.8	18 W	—	4*
2 20	22 8.43	−28 8.7	1.761	0.867	19.7	20.9	17 W	—	3*
2 25	22 30.48	−25 39.9	1.796	0.892	18.3	21.0	16 W	—	2*
3 2	22 50.80	−23 4.1	1.831	0.918	17.0	21.0	16 W	—	1*
3 7	23 9.61	−20 24.3	1.866	0.943	15.8	21.1	15 W	—	1*
3 12	23 27.12	−17 42.7	1.900	0.968	14.7	21.1	14 W	—	1*
3 17	23 43.54	−15 1.1	1.932	0.993	13.6	21.2	14 W	—	1*
3 22	23 59.02	−12 20.5	1.963	1.017	12.7	21.3	13 W	—	1*
3 27	0 13.73	− 9 41.9	1.992	1.040	11.9	21.3	12 W	—	1*
4 1	0 27.80	− 7 5.8	2.019	1.062	11.3	21.4	12 W	—	2*
4 6	0 41.36	− 4 32.5	2.044	1.083	10.9	21.4	12 W	—	3*
4 11	0 54.52	− 2 2.2	2.066	1.104	10.7	21.5	12 W	—	4*

101967 1999 RQ_{43}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 38.08	−19 46.0	2.704	1.857	12.8	20.1	25 W	12*	14*
1 6	17 4.70	−20 21.7	2.621	1.821	15.0	20.0	29 W	13*	19*
1 16	17 32.08	−20 40.8	2.536	1.785	17.2	20.0	32 W	14*	23*
1 26	18 0.11	−20 41.7	2.448	1.750	19.3	19.9	36 W	14*	28*
2 5	18 28.66	−20 23.4	2.359	1.716	21.4	19.9	39 W	15*	32*
2 15	18 57.60	−19 45.1	2.270	1.684	23.5	19.8	43 W	15*	36*
2 25	19 26.74	−18 46.4	2.181	1.653	25.5	19.8	46 W	15*	39*
3 7	19 55.96	−17 27.9	2.095	1.624	27.4	19.7	49 W	16*	42*
3 17	20 25.10	−15 50.3	2.011	1.597	29.2	19.6	52 W	16*	45*
3 27	20 54.03	−13 55.4	1.931	1.573	31.0	19.5	54 W	16*	48*
4 6	21 22.67	−11 45.3	1.854	1.552	32.7	19.5	57 W	17*	50*
4 16	21 50.96	− 9 22.6	1.780	1.534	34.2	19.4	59 W	18*	52*
4 26	22 18.82	− 6 50.4	1.711	1.519	35.7	19.3	62 W	19*	54*
5 6	22 46.25	− 4 12.2	1.646	1.508	37.0	19.3	64 W	20*	56*
5 16	23 13.20	− 1 31.5	1.583	1.500	38.2	19.2	66 W	22*	57*
5 26	23 39.63	+ 1 8.0	1.524	1.497	39.2	19.2	69 W	25*	57*
6 5	0 5.51	+ 3 42.8	1.468	1.497	40.0	19.1	72 W	28*	57*
6 15	0 30.75	+ 6 9.4	1.413	1.502	40.6	19.0	74 W	31*	57*
6 25	0 55.23	+ 8 24.8	1.360	1.510	41.1	19.0	77 W	36*	55*
7 5	1 18.79	+10 26.2	1.307	1.522	41.3	18.9	81 W	41*	54*
7 15	1 41.21	+12 11.5	1.254	1.538	41.2	18.8	85 W	46*	52
7 25	2 2.17	+13 38.6	1.201	1.557	40.7	18.8	89 W	51*	50
8 4	2 21.33	+14 46.4	1.147	1.579	39.9	18.7	94 W	56*	49
8 14	2 38.22	+15 33.7	1.093	1.603	38.6	18.6	99 W	59*	48
8 24	2 52.32	+16 0.0	1.039	1.631	36.7	18.4	105 W	61*	48
9 3	3 3.07	+16 5.0	0.988	1.660	34.1	18.3	113 W	61	48
9 13	3 9.86	+15 48.5	0.939	1.691	30.8	18.1	121 W	61	48
9 23	3 12.25	+15 10.8	0.898	1.724	26.5	17.9	130 W	60	49
10 3	3 10.05	+14 13.7	0.866	1.758	21.2	17.8	141 W	59	50
10 8	3 7.30	+13 38.7	0.856	1.776	18.2	17.7	146 W	59	50
10 13	3 3.58	+13 0.4	0.850	1.793	15.1	17.6	152 W	58	51
10 18	2 59.07	+12 19.9	0.848	1.811	11.8	17.4	158 W	57	52
10 23	2 53.98	+11 38.4	0.852	1.829	8.5	17.3	164 W	57	52
10 28	2 48.51	+10 57.2	0.861	1.847	5.3	17.2	170 W	56	53
11 2	2 42.94	+10 17.6	0.876	1.866	3.0	17.2	174 W	55	54
11 7	2 37.50	+ 9 41.1	0.896	1.884	3.7	17.3	173 E	55	54
11 12	2 32.43	+ 9 9.0	0.923	1.903	6.3	17.5	168 E	54	55
11 17	2 27.94	+ 8 42.1	0.956	1.921	9.1	17.7	162 E	54	55
11 22	2 24.16	+ 8 21.1	0.994	1.940	11.8	17.9	156 E	53	56

101967 1999 RQ_{43} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 2	2 19.04	+ 7 57.6	1.086	1.977	16.6	18.3	145 E	53	56
12 12	2 17.41	+ 7 58.0	1.196	2.014	20.4	18.7	135 E	53	56
12 22	2 19.13	+ 8 19.2	1.320	2.050	23.1	19.1	125 E	53	56
1 1	2 23.79	+ 8 56.7	1.456	2.087	25.0	19.4	116 E	54	55
1 11	2 30.98	+ 9 46.5	1.601	2.122	26.1	19.6	108 E	55	54*
1 21	2 40.26	+10 44.7	1.751	2.158	26.6	19.9	100 E	56	52*

162785 2000 YA_{17}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 38.57	− 8 1.3	3.590	2.776	10.0	21.2	29 W	22*	9*
1 6	16 54.16	− 8 37.8	3.502	2.754	11.8	21.2	35 W	24*	16*
1 16	17 9.65	− 9 6.2	3.402	2.731	13.6	21.2	41 W	27*	24*
1 26	17 24.94	− 9 26.7	3.290	2.707	15.3	21.2	46 W	28*	31*
2 5	17 39.91	− 9 39.5	3.166	2.683	17.0	21.1	53 W	30*	39*
2 15	17 54.45	− 9 45.1	3.034	2.657	18.5	21.1	59 W	30*	46*
2 25	18 8.41	− 9 44.3	2.892	2.631	19.9	21.0	65 W	31*	53*
3 7	18 21.67	− 9 38.2	2.745	2.604	21.2	20.9	71 W	32*	59*
3 17	18 34.05	− 9 27.8	2.591	2.576	22.2	20.8	78 W	33*	65*
3 27	18 45.36	− 9 15.0	2.435	2.548	23.0	20.7	85 W	34*	70*
4 6	18 55.40	− 9 1.5	2.276	2.518	23.4	20.5	92 W	35*	73*
4 16	19 3.92	− 8 49.8	2.119	2.488	23.4	20.3	99 W	35*	73
4 26	19 10.62	− 8 42.8	1.963	2.457	23.0	20.1	107 W	36*	73
5 6	19 15.21	− 8 44.0	1.814	2.426	22.0	19.9	116 W	36*	73
5 16	19 17.32	− 8 57.5	1.672	2.393	20.4	19.6	124 W	36	73
5 26	19 16.64	− 9 27.7	1.543	2.361	18.0	19.3	134 W	36	73
6 5	19 12.92	−10 18.9	1.428	2.328	14.8	19.0	144 W	35	74
6 15	19 6.11	−11 34.1	1.333	2.294	10.8	18.7	155 W	33	76
6 25	18 56.55	−13 14.0	1.260	2.260	6.3	18.4	166 W	32	77
6 30	18 50.97	−14 12.3	1.234	2.242	4.4	18.2	170 W	31	78
7 5	18 45.05	−15 15.1	1.214	2.225	3.6	18.1	172 E	30	79
7 10	18 38.94	−16 21.6	1.201	2.208	4.9	18.1	169 E	29	80
7 15	18 32.87	−17 30.4	1.194	2.191	7.2	18.2	164 E	27	82
7 20	18 27.02	−18 40.5	1.195	2.173	9.8	18.3	159 E	26	83
7 25	18 21.61	−19 50.6	1.201	2.156	12.4	18.4	153 E	25	84
7 30	18 16.78	−20 59.7	1.214	2.138	15.0	18.5	147 E	24	85
8 4	18 12.69	−22 7.1	1.231	2.121	17.4	18.6	141 E	23	86
8 9	18 9.46	−23 12.1	1.254	2.103	19.6	18.7	136 E	22	87
8 14	18 7.18	−24 14.2	1.280	2.086	21.7	18.8	130 E	21	88
8 24	18 5.68	−26 9.1	1.344	2.051	25.1	19.0	120 E	19	90
9 3	18 8.26	−27 50.8	1.417	2.016	27.8	19.1	111 E	17	88
9 13	18 14.80	−29 19.0	1.496	1.982	29.6	19.2	103 E	16	87
9 23	18 25.01	−30 33.7	1.577	1.948	30.8	19.4	95 E	14*	85*
10 3	18 38.50	−31 34.1	1.658	1.916	31.5	19.5	89 E	13*	81*
10 13	18 54.93	−32 19.5	1.738	1.884	31.7	19.5	82 E	13*	76*
10 23	19 13.92	−32 48.5	1.813	1.853	31.5	19.6	76 E	12*	70*
11 2	19 35.09	−32 59.8	1.885	1.823	31.0	19.6	71 E	12*	65*
11 12	19 58.10	−32 52.2	1.951	1.795	30.3	19.6	66 E	12*	60*
11 22	20 22.60	−32 24.5	2.013	1.768	29.4	19.6	61 E	12*	55*
12 2	20 48.22	−31 36.0	2.069	1.744	28.4	19.6	57 E	13*	51*
12 12	21 14.65	−30 26.3	2.120	1.721	27.3	19.6	53 E	13*	46*
12 22	21 41.60	−28 55.8	2.166	1.701	26.1	19.6	50 E	14*	42*
1 1	22 8.81	−27 5.4	2.209	1.684	24.9	19.6	46 E	15*	38*
1 11	22 36.10	−24 56.5	2.248	1.669	23.7	19.6	43 E	15*	35*
1 21	23 3.30	−22 31.0	2.285	1.657	22.5	19.6	40 E	15*	32*

101901 1999 QD_2

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 38.92	− 6 47.3	2.383	1.609	17.8	21.0	30 W	23*	9*
1 6	17 7.19	− 7 10.9	2.339	1.604	19.4	21.1	33 W	24*	13*
1 16	17 35.49	− 7 19.0	2.295	1.599	20.9	21.1	35 W	25*	17*
1 26	18 3.67	− 7 11.4	2.248	1.595	22.4	21.0	38 W	26*	22*
2 5	18 31.61	− 6 48.8	2.201	1.591	23.9	21.0	41 W	26*	26*
2 15	18 59.21	− 6 12.2	2.151	1.588	25.4	21.0	44 W	26*	30*
2 25	19 26.34	− 5 23.1	2.100	1.586	26.8	21.0	46 W	27*	34*
3 7	19 52.93	− 4 23.3	2.047	1.584	28.2	21.0	49 W	27*	37*
3 17	20 18.95	− 3 14.9	1.991	1.583	29.6	21.0	52 W	27*	41*
3 27	20 44.34	− 2 0.3	1.932	1.583	31.0	21.0	55 W	28*	44*
4 6	21 9.12	− 0 42.0	1.870	1.584	32.4	20.9	58 W	28*	47*
4 16	21 33.28	+ 0 37.5	1.804	1.585	33.7	20.9	61 W	29*	50*
4 26	21 56.82	+ 1 55.3	1.735	1.587	34.9	20.8	64 W	29*	52*
5 6	22 19.78	+ 3 8.7	1.663	1.590	36.0	20.8	68 W	30*	55*
5 16	22 42.16	+ 4 14.9	1.587	1.593	37.1	20.7	72 W	32*	56*
5 26	23 3.93	+ 5 10.4	1.508	1.597	37.9	20.6	76 W	33*	57*
6 5	23 25.09	+ 5 51.9	1.426	1.601	38.6	20.5	80 W	36*	58*
6 15	23 45.54	+ 6 15.3	1.342	1.607	39.0	20.4	85 W	38*	58
6 20	23 55.46	+ 6 18.8	1.299	1.609	39.1	20.4	87 W	40*	58
6 25	0 5.15	+ 6 16.1	1.257	1.612	39.1	20.3	90 W	41*	58
6 30	0 14.59	+ 6 6.5	1.214	1.615	39.0	20.2	92 W	43*	58
7 5	0 23.75	+ 5 49.3	1.171	1.618	38.7	20.1	95 W	44*	58
7 10	0 32.59	+ 5 23.6	1.128	1.622	38.4	20.0	98 W	45*	59
7 15	0 41.05	+ 4 48.8	1.086	1.625	37.9	20.0	101 W	46*	59
7 20	0 49.10	+ 4 3.9	1.045	1.628	37.2	19.9	104 W	47*	60

101901 1999 QD_2 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 25	0 56.68	+ 3 8.2	1.005	1.632	36.4	19.8	108 W	47*	61
7 30	1 3.74	+ 2 0.9	0.966	1.635	35.4	19.6	111 W	47*	62
8 4	1 10.19	+ 0 41.2	0.928	1.639	34.1	19.5	115 W	46*	63
8 14	1 20.95	− 2 37.2	0.860	1.647	31.1	19.3	123 W	42	67
8 24	1 28.35	− 6 47.7	0.803	1.654	27.4	19.0	131 W	38	71
9 3	1 31.80	−11 42.2	0.761	1.662	23.3	18.8	139 W	33	76
9 8	1 31.91	−14 20.3	0.747	1.666	21.3	18.7	143 W	31	78
9 13	1 30.92	−17 0.8	0.738	1.670	19.6	18.6	146 W	28	81
9 18	1 28.90	−19 39.2	0.733	1.674	18.3	18.6	148 W	25	84
9 23	1 25.95	−22 10.9	0.735	1.678	17.7	18.6	149 W	23	86
9 28	1 22.20	−24 31.4	0.741	1.682	17.7	18.6	149 W	20	89
10 3	1 17.85	−26 36.9	0.753	1.686	18.4	18.7	148 W	18	89
10 8	1 13.15	−28 24.1	0.769	1.690	19.6	18.8	146 W	17	88
10 13	1 8.37	−29 51.3	0.790	1.694	21.0	18.9	142 E	15	86
10 18	1 3.79	−30 57.7	0.816	1.698	22.6	19.0	139 E	14	85
10 23	0 59.65	−31 43.7	0.844	1.702	24.3	19.1	135 E	13	84
10 28	0 56.13	−32 10.5	0.877	1.706	25.8	19.3	132 E	13	84
11 2	0 53.38	−32 19.6	0.911	1.710	27.3	19.4	128 E	13	84
11 7	0 51.51	−32 12.7	0.949	1.714	28.6	19.5	124 E	13	84
11 12	0 50.58	−31 51.8	0.988	1.718	29.8	19.6	121 E	13	84
11 17	0 50.59	−31 18.9	1.030	1.722	30.8	19.8	117 E	14	85
11 22	0 51.52	−30 35.7	1.072	1.725	31.6	19.9	114 E	14	85
11 27	0 53.31	−29 43.7	1.116	1.729	32.3	20.0	110 E	15	86
12 2	0 55.92	−28 44.4	1.161	1.732	32.9	20.1	107 E	16	87
12 7	0 59.29	−27 38.7	1.206	1.736	33.4	20.2	104 E	17	88
12 12	1 3.36	−26 27.9	1.252	1.739	33.7	20.3	101 E	19	90
12 17	1 8.06	−25 12.8	1.299	1.743	33.9	20.4	99 E	20	89
12 22	1 13.33	−23 54.1	1.345	1.746	34.1	20.5	96 E	21	88*
12 27	1 19.11	−22 32.7	1.392	1.749	34.2	20.6	93 E	22	84*
1 1	1 25.36	−21 8.9	1.439	1.752	34.1	20.6	91 E	24	80*
1 6	1 32.05	−19 43.3	1.486	1.755	34.1	20.7	88 E	25	77*
1 11	1 39.13	−18 16.3	1.533	1.758	33.9	20.8	86 E	27	73*
1 16	1 46.57	−16 48.5	1.579	1.760	33.7	20.8	83 E	28	70*
1 21	1 54.33	−15 20.2	1.626	1.763	33.5	20.9	81 E	30	67*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 39.37	−16 23.6	1.054	0.453	68.5	17.7	25 W	15*	13*
1 1	17 29.31	−20 3.7	1.106	0.348	60.6	17.0	18 W	8*	8*
1 6	18 26.44	−22 54.1	1.174	0.261	38.5	15.9	9 W	—	2*
1 11	19 31.12	−23 58.5	1.223	0.243	8.8	14.9	2 E	—	—
1 16	20 33.12	−22 38.8	1.231	0.312	32.9	16.2	10 E	—	3*
1 18	20 55.33	−21 37.1	1.231	0.351	39.2	16.6	13 E	2*	6*
1 20	21 16.04	−20 24.5	1.232	0.393	43.4	17.0	16 E	4*	8*
1 22	21 35.38	−19 4.1	1.234	0.435	46.1	17.3	19 E	7*	10*
1 24	21 53.47	−17 38.1	1.240	0.477	47.7	17.6	21 E	9*	12*
1 26	22 10.43	−16 8.6	1.248	0.519	48.6	17.8	23 E	11*	14*
1 28	22 26.36	−14 37.2	1.259	0.560	48.8	18.0	25 E	13*	15*
1 30	22 41.34	−13 5.0	1.273	0.601	48.6	18.1	27 E	15*	16*
2 1	22 55.46	−11 33.0	1.289	0.640	48.2	18.3	29 E	17*	17*
2 3	23 8.78	−10 2.2	1.307	0.678	47.5	18.4	31 E	18*	18*
2 5	23 21.38	− 8 33.1	1.328	0.716	46.7	18.6	32 E	20*	19*
2 10	23 50.07	− 5 0.6	1.388	0.805	44.3	18.8	35 E	23*	20*
2 15	0 15.38	− 1 45.6	1.457	0.890	41.6	19.1	37 E	25*	21*
2 20	0 37.96	+ 1 10.7	1.533	0.969	38.9	19.3	38 E	27*	21*
2 25	0 58.32	+ 3 49.0	1.615	1.044	36.3	19.5	39 E	28*	21*
3 2	1 16.88	+ 6 10.8	1.699	1.115	33.8	19.7	39 E	29*	20*
3 7	1 33.98	+ 8 17.8	1.785	1.182	31.5	19.9	38 E	29*	20*
3 12	1 49.87	+10 11.8	1.872	1.246	29.3	20.0	38 E	28*	19*
3 17	2 4.78	+11 54.4	1.959	1.307	27.2	20.2	37 E	28*	18*
3 22	2 18.85	+13 27.1	2.046	1.365	25.2	20.3	36 E	27*	17*
3 27	2 32.23	+14 50.9	2.131	1.421	23.2	20.4	34 E	25*	16*
4 1	2 45.02	+16 7.1	2.214	1.473	21.4	20.5	33 E	24*	15*
4 6	2 57.32	+17 16.4	2.294	1.523	19.6	20.6	31 E	22*	14*
4 11	3 9.20	+18 19.6	2.372	1.571	17.9	20.7	29 E	20*	13*
4 16	3 20.72	+19 17.4	2.447	1.617	16.3	20.8	27 E	18*	12*
4 21	3 31.92	+20 10.2	2.519	1.661	14.7	20.8	25 E	16*	11*
4 26	3 42.85	+20 58.5	2.587	1.703	13.1	20.9	23 E	14*	9*
5 1	3 53.54	+21 42.7	2.652	1.743	11.6	20.9	20 E	12*	8*
5 6	4 4.01	+22 23.1	2.712	1.781	10.1	21.0	18 E	10*	6*
5 11	4 14.30	+23 0.0	2.769	1.817	8.6	21.0	16 E	8*	5*
5 16	4 24.42	+23 33.7	2.821	1.851	7.2	21.0	13 E	6*	3*
5 21	4 34.38	+24 4.3	2.869	1.884	5.8	21.0	11 E	3*	1*
5 26	4 44.19	+24 32.0	2.912	1.916	4.4	21.0	8 E	1*	—
5 31	4 53.87	+24 57.1	2.951	1.945	3.1	21.0	6 E	—	—
6 5	5 3.42	+25 19.6	2.985	1.973	2.0	21.0	4 E	—	—
6 10	5 12.85	+25 39.7	3.014	2.000	1.4	21.0	3 E	—	—
6 15	5 22.17	+25 57.6	3.038	2.025	1.8	21.1	4 W	—	—
6 20	5 31.37	+26 13.4	3.058	2.049	2.9	21.2	6 W	—	—
6 25	5 40.46	+26 27.2	3.072	2.072	4.1	21.3	8 W	1*	—

137052 Tjelvar *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 30	5 49.45	+26 39.1	3.082	2.093	5.3	21.4	11 W	3*	2*
7 5	5 58.32	+26 49.2	3.086	2.112	6.5	21.5	14 W	5*	4*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 39.64	−31 47.2	2.781	1.929	12.2	21.4	24 W	2*	18*
1 1	16 54.12	−32 28.4	2.728	1.898	13.3	21.3	26 W	2*	20*
1 6	17 9.10	−33 5.6	2.675	1.866	14.4	21.3	28 W	2*	22*
1 11	17 24.59	−33 38.3	2.621	1.835	15.5	21.3	30 W	1*	24*
1 16	17 40.59	−34 5.7	2.568	1.805	16.6	21.2	32 W	1*	26*
1 21	17 57.07	−34 27.5	2.514	1.774	17.7	21.2	33 W	1*	27*
1 26	18 14.00	−34 42.9	2.462	1.745	18.7	21.1	35 W	1*	29*
1 31	18 31.37	−34 51.3	2.410	1.716	19.8	21.1	36 W	—	30*
2 5	18 49.12	−34 52.2	2.359	1.687	20.8	21.0	37 W	—	31*
2 10	19 7.21	−34 45.0	2.309	1.659	21.9	21.0	39 W	—	32*
2 15	19 25.57	−34 29.3	2.261	1.632	22.9	20.9	40 W	—	33*
2 20	19 44.12	−34 4.6	2.214	1.606	23.9	20.9	41 W	—	34*
2 25	20 2.80	−33 30.7	2.170	1.581	24.8	20.8	42 W	—	35*
3 2	20 21.52	−32 47.5	2.127	1.557	25.7	20.8	43 W	—	36*
3 7	20 40.20	−31 54.8	2.086	1.534	26.6	20.7	44 W	—	36*
3 12	20 58.78	−30 52.8	2.048	1.512	27.5	20.7	45 W	—	37*
3 17	21 17.17	−29 41.7	2.012	1.492	28.3	20.6	45 W	—	37*
3 22	21 35.31	−28 22.1	1.979	1.473	29.1	20.6	46 W	—	38*
3 27	21 53.15	−26 54.3	1.948	1.455	29.9	20.6	47 W	—	39*
4 1	22 10.64	−25 19.0	1.920	1.440	30.6	20.5	47 W	—	39*
4 6	22 27.77	−23 36.9	1.894	1.426	31.2	20.5	48 W	—	40*
4 16	23 0.81	−19 55.5	1.849	1.403	32.4	20.4	49 W	—	41*
4 26	23 32.18	−15 57.0	1.812	1.389	33.4	20.4	50 W	—	43*
5 6	0 1.92	−11 48.1	1.783	1.383	34.3	20.4	51 W	2*	44*
5 16	0 30.12	− 7 35.2	1.759	1.386	35.0	20.4	52 W	5*	46*
5 26	0 56.89	− 3 23.8	1.739	1.397	35.6	20.4	53 W	8*	47*
6 5	1 22.35	+ 0 41.7	1.721	1.416	36.1	20.4	55 W	13*	48*
6 15	1 46.59	+ 4 38.2	1.704	1.443	36.5	20.4	58 W	18*	49*
6 25	2 9.62	+ 8 23.1	1.685	1.476	36.8	20.5	60 W	23*	49*
7 5	2 31.47	+11 55.7	1.664	1.516	36.9	20.5	64 W	30*	48*
7 15	2 52.05	+15 15.3	1.640	1.561	36.9	20.5	67 W	37*	46*
7 25	3 11.21	+18 22.6	1.612	1.611	36.7	20.6	72 W	45*	44*
8 4	3 28.77	+21 18.7	1.579	1.665	36.3	20.6	76 W	52*	42*
8 14	3 44.42	+24 5.1	1.542	1.721	35.6	20.6	82 W	60*	40*
8 24	3 57.78	+26 43.7	1.502	1.781	34.6	20.6	88 W	67*	37
9 3	4 8.42	+29 16.2	1.460	1.842	33.1	20.5	95 W	73*	35
9 13	4 15.75	+31 43.8	1.417	1.904	31.1	20.5	102 W	77	32
9 18	4 17.99	+32 55.7	1.396	1.936	29.9	20.5	106 W	78	31
9 23	4 19.18	+34 6.1	1.377	1.968	28.5	20.4	111 W	79	30
9 28	4 19.25	+35 14.6	1.358	2.000	27.0	20.4	115 W	80	29
10 3	4 18.13	+36 20.7	1.342	2.032	25.4	20.3	120 W	81	28
10 8	4 15.79	+37 23.4	1.328	2.064	23.6	20.3	124 W	82	27
10 13	4 12.22	+38 21.7	1.318	2.097	21.6	20.3	129 W	83	26
10 18	4 7.47	+39 14.5	1.311	2.129	19.6	20.2	134 W	84	25
10 23	4 1.62	+40 0.5	1.309	2.161	17.5	20.2	139 W	85	24
10 28	3 54.83	+40 38.5	1.311	2.194	15.5	20.1	144 W	86	23
11 2	3 47.29	+41 7.6	1.319	2.226	13.5	20.1	148 W	86	23
11 7	3 39.26	+41 27.0	1.333	2.259	11.7	20.1	152 W	86	23
11 12	3 31.05	+41 36.5	1.353	2.291	10.3	20.1	156 W	87	22
11 17	3 22.95	+41 36.7	1.379	2.323	9.5	20.2	157 E	87	22
11 22	3 15.25	+41 28.4	1.412	2.355	9.3	20.2	157 E	86	23
11 27	3 8.19	+41 12.8	1.452	2.387	9.7	20.3	156 E	86	23
12 2	3 1.94	+40 51.4	1.498	2.419	10.6	20.5	153 E	86	23
12 7	2 56.64	+40 26.0	1.550	2.450	11.8	20.6	150 E	85	24
12 12	2 52.38	+39 58.1	1.608	2.482	13.0	20.8	145 E	85	24
12 17	2 49.17	+39 29.1	1.671	2.513	14.3	20.9	141 E	84	25
12 22	2 46.99	+39 0.4	1.740	2.544	15.5	21.1	136 E	84	25
12 27	2 45.81	+38 32.8	1.813	2.575	16.5	21.2	132 E	84	25
1 1	2 45.55	+38 7.0	1.890	2.606	17.5	21.4	127 E	83	26

5660 1974 *MA*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 39.92	−47 44.9	3.847	3.057	9.8	21.5	32 W	—	23*
1 6	16 57.59	−48 19.9	3.811	3.076	11.0	21.5	36 W	—	28*
1 16	17 14.75	−48 54.6	3.757	3.093	12.2	21.6	42 W	—	33*
1 26	17 31.23	−49 29.8	3.686	3.107	13.5	21.6	47 W	—	38*
2 5	17 46.88	−50 6.2	3.601	3.119	14.8	21.6	54 W	—	43*

216519 2001 FP_{24}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	16 40.35	−20 18.3	2.540	1.691	13.7	20.9	24 W	11*	14*
1 6	17 9.24	−20 34.2	2.517	1.707	15.5	20.9	28 W	12*	18*
1 16	17 37.63	−20 30.1	2.491	1.725	17.1	21.0	31 W	13*	22*
1 26	18 5.30	−20 6.6	2.462	1.747	18.8	21.0	35 W	14*	26*
2 5	18 32.04	−19 25.2	2.429	1.771	20.4	21.1	39 W	15*	31*
2 15	18 57.69	−18 27.6	2.393	1.797	21.9	21.1	43 W	16*	35*
2 25	19 22.08	−17 16.2	2.353	1.825	23.3	21.2	47 W	17*	40*
3 7	19 45.12	−15 53.2	2.308	1.855	24.6	21.2	51 W	18*	44*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		216519 2001 FP_{24}				*(continuation)*			
	h m	° ′			°	m	°	°	°
3 17	20 6.72	−14 21.0	2.258	1.887	25.8	21.2	56 W	19*	49*
3 27	20 26.78	−12 42.1	2.203	1.920	26.9	21.2	61 W	21*	53*
4 6	20 45.27	−10 58.9	2.143	1.955	27.8	21.2	66 W	23*	58*
4 16	21 2.10	− 9 13.7	2.079	1.990	28.4	21.2	71 W	25*	62*
4 26	21 17.16	− 7 28.8	2.010	2.026	28.9	21.2	76 W	27*	66*
5 6	21 30.35	− 5 46.5	1.937	2.063	29.0	21.2	82 W	30*	68*
5 16	21 41.52	− 4 9.1	1.861	2.100	28.8	21.1	89 W	33*	68*
5 26	21 50.47	− 2 39.2	1.784	2.138	28.1	21.1	96 W	36*	67
6 5	21 57.00	− 1 19.3	1.708	2.176	27.0	21.0	103 W	40*	65
6 15	22 0.88	− 0 12.4	1.634	2.214	25.3	20.9	111 W	43*	64
6 25	22 1.91	+ 0 38.0	1.566	2.252	23.0	20.7	120 W	46*	63
7 5	22 0.01	+ 1 9.0	1.507	2.290	20.1	20.6	129 W	46	63
7 15	21 55.24	+ 1 17.6	1.461	2.327	16.6	20.4	139 W	46	63
7 25	21 48.03	+ 1 2.4	1.432	2.365	12.6	20.3	150 W	46	63
8 4	21 39.10	+ 0 24.4	1.425	2.402	8.6	20.2	159 W	45	64
8 9	21 34.29	− 0 2.2	1.431	2.420	6.9	20.1	163 W	45	64
8 14	21 29.47	− 0 32.8	1.443	2.438	5.7	20.1	166 E	44	65
8 19	21 24.76	− 1 6.5	1.461	2.456	5.6	20.1	166 E	44	65
8 24	21 20.32	− 1 42.3	1.486	2.474	6.4	20.2	164 E	43	66
8 29	21 16.26	− 2 19.3	1.517	2.492	7.8	20.3	160 E	43	66
9 3	21 12.68	− 2 56.5	1.555	2.510	9.5	20.5	156 E	42	67
9 8	21 9.67	− 3 33.1	1.599	2.527	11.1	20.6	151 E	41	68
9 13	21 7.29	− 4 8.2	1.648	2.545	12.8	20.8	146 E	41	68
9 18	21 5.57	− 4 41.3	1.702	2.562	14.3	20.9	141 E	40	69
9 23	21 4.52	− 5 11.9	1.762	2.579	15.7	21.0	136 E	40	69
9 28	21 4.14	− 5 39.5	1.825	2.596	16.9	21.2	131 E	39	70
10 3	21 4.42	− 6 4.0	1.893	2.613	18.0	21.3	126 E	39	70
10 8	21 5.33	− 6 25.2	1.964	2.630	18.9	21.4	122 E	39	70
		494713 2005 OU_2							
12 27	16 43.53	−71 56.3	0.449	0.780	103.0	20.6	51 W	—	26*
12 29	16 40.97	−70 43.1	0.422	0.783	105.4	20.6	50 W	—	27*
12 31	16 39.27	−69 12.8	0.394	0.787	108.0	20.6	50 W	—	28*
1 2	16 38.47	−67 22.4	0.367	0.792	110.7	20.6	49 W	—	29*
1 4	16 38.60	−65 8.0	0.340	0.797	113.4	20.6	48 W	—	30*
1 6	16 39.63	−62 24.5	0.313	0.803	116.3	20.7	47 W	—	31*
1 7	16 40.47	−60 49.9	0.300	0.806	117.8	20.7	46 W	—	32*
1 8	16 41.51	−59 5.6	0.288	0.810	119.3	20.7	46 W	—	32*
1 9	16 42.75	−57 10.4	0.275	0.813	120.8	20.8	45 W	—	33*
1 10	16 44.18	−55 3.3	0.263	0.817	122.4	20.8	45 W	—	33*
1 11	16 45.78	−52 43.1	0.252	0.821	123.8	20.8	44 W	—	34*
1 12	16 47.55	−50 8.6	0.241	0.825	125.3	20.9	43 W	—	34*
1 13	16 49.47	−47 18.4	0.230	0.829	126.7	20.9	43 W	—	35*
1 14	16 51.53	−44 11.5	0.220	0.833	127.9	20.9	42 W	—	35*
1 15	16 53.71	−40 47.0	0.211	0.837	129.0	20.9	41 W	—	35*
1 16	16 56.02	−37 4.2	0.203	0.841	129.8	21.0	41 W	3*	35*
1 18	17 0.93	−28 44.4	0.189	0.850	130.4	20.9	41 W	10*	34*
1 20	17 6.18	−19 21.9	0.181	0.860	129.1	20.7	43 W	19*	33*
1 22	17 11.69	− 9 21.7	0.177	0.870	125.8	20.4	46 W	28*	30*
1 24	17 17.38	+ 0 39.4	0.180	0.880	120.8	20.0	50 W	37*	26*
1 26	17 23.20	+10 4.6	0.188	0.890	115.0	19.7	55 W	46*	22*
1 27	17 26.13	+14 25.2	0.193	0.896	112.0	19.6	58 W	49*	20*
1 28	17 29.08	+18 28.8	0.200	0.901	109.0	19.5	60 W	53*	18*
1 29	17 32.02	+22 14.6	0.208	0.907	106.2	19.4	62 W	55*	16*
1 30	17 34.97	+25 42.6	0.216	0.912	103.4	19.4	64 W	58*	14*
1 31	17 37.90	+28 53.4	0.225	0.918	100.8	19.3	66 W	60*	13*
2 1	17 40.83	+31 48.0	0.235	0.924	98.3	19.3	68 W	62*	11*
2 2	17 43.73	+34 27.6	0.245	0.929	96.0	19.3	70 W	64*	10*
2 3	17 46.62	+36 53.3	0.256	0.935	93.8	19.3	71 W	65*	8*
2 4	17 49.48	+39 6.5	0.267	0.941	91.7	19.4	73 W	66*	7*
2 5	17 52.31	+41 8.4	0.279	0.947	89.8	19.4	74 W	67*	6*
2 6	17 55.10	+43 0.0	0.290	0.953	88.0	19.4	75 W	67*	5*
2 7	17 57.86	+44 42.5	0.302	0.959	86.3	19.4	76 W	68*	4*
2 8	18 0.58	+46 16.8	0.314	0.965	84.7	19.5	77 W	68*	3*
2 9	18 3.26	+47 43.7	0.326	0.971	83.2	19.5	78 W	68*	2*
2 10	18 5.89	+49 4.1	0.339	0.977	81.8	19.6	78 W	68*	2*
2 11	18 8.47	+50 18.5	0.351	0.983	80.4	19.6	79 W	68*	1*
2 12	18 11.00	+51 27.7	0.363	0.989	79.1	19.6	80 W	68*	1*
2 13	18 13.48	+52 32.0	0.376	0.995	77.9	19.7	80 W	68*	—
2 14	18 15.91	+53 32.1	0.388	1.001	76.8	19.7	81 W	68*	—
2 15	18 18.28	+54 28.4	0.401	1.007	75.7	19.8	81 W	68*	—
2 17	18 22.85	+56 10.7	0.426	1.020	73.6	19.9	82 W	67*	—
2 19	18 27.17	+57 41.6	0.451	1.032	71.8	20.0	83 W	67*	—
2 21	18 31.25	+59 3.1	0.476	1.044	70.1	20.0	83 W	66*	—
2 23	18 35.08	+60 16.8	0.500	1.057	68.5	20.1	83 W	66*	—
2 25	18 38.64	+61 24.1	0.524	1.069	67.0	20.2	84 W	66*	—
2 27	18 41.94	+62 25.9	0.548	1.082	65.6	20.3	84 W	65*	—
3 1	18 44.95	+63 23.2	0.572	1.094	64.3	20.4	84 W	65*	—
3 3	18 47.69	+64 16.6	0.595	1.107	63.1	20.4	85 W	65*	—

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		494713 2005 OU_2				*(continuation)*			
	h m	° ′			°	m	°	°	°
3 5	18 50.13	+65 6.8	0.618	1.119	62.0	20.5	85 W	64*	—
3 7	18 52.26	+65 54.3	0.640	1.131	60.9	20.6	85 W	64*	—
3 12	18 56.13	+67 43.4	0.694	1.162	58.4	20.7	85 W	63*	—
3 17	18 57.70	+69 21.7	0.745	1.192	56.3	20.9	85 W	63*	—
3 22	18 56.63	+70 51.7	0.793	1.221	54.4	21.0	85 W	62*	—
3 27	18 52.57	+72 14.2	0.838	1.250	52.7	21.1	85 W	61*	—
4 1	18 45.06	+73 29.4	0.880	1.278	51.2	21.3	85 W	61*	—
4 6	18 33.59	+74 36.4	0.919	1.306	49.8	21.4	86 W	60*	—
4 11	18 17.69	+75 33.0	0.956	1.332	48.6	21.4	86 W	59*	—
4 16	17 57.17	+76 16.4	0.989	1.358	47.5	21.5	86 W	59	—
4 21	17 32.44	+76 42.8	1.020	1.383	46.5	21.6	86 W	58	—
4 26	17 4.75	+76 48.8	1.049	1.407	45.5	21.7	86 W	58	—
5 1	16 36.04	+76 32.0	1.075	1.430	44.7	21.7	87 W	58	—
5 6	16 8.46	+75 51.8	1.100	1.452	43.9	21.8	87 W	59	—
5 11	15 43.76	+74 48.7	1.122	1.473	43.2	21.9	87 W	60	—
5 16	15 22.98	+73 24.9	1.144	1.494	42.6	21.9	88 E	62	—
5 21	15 6.35	+71 43.1	1.163	1.513	41.9	22.0	88 E	63	—
5 26	14 53.62	+69 46.1	1.182	1.531	41.4	22.0	88 E	65	—
5 31	14 44.24	+67 36.3	1.200	1.549	40.9	22.1	88 E	67	—
6 5	14 37.68	+65 15.6	1.218	1.565	40.4	22.1	89 E	70	—
6 10	14 33.44	+62 45.5	1.235	1.580	40.0	22.1	89 E	72	1
		464644 2000 RO_{38}							
12 27	16 44.16	−33 42.3	2.817	1.961	11.8	21.2	24 W	—	18*
1 6	17 13.48	−34 40.4	2.723	1.908	13.9	21.2	28 W	—	22*
1 16	17 44.32	−35 19.1	2.626	1.856	15.9	21.1	31 W	—	25*
1 26	18 16.48	−35 34.9	2.528	1.805	18.0	21.0	35 W	—	28*
2 5	18 49.69	−35 24.6	2.431	1.756	20.0	21.0	38 W	—	31*
2 15	19 23.60	−34 45.4	2.335	1.708	22.0	20.9	40 W	—	34*
2 25	19 57.77	−33 35.6	2.242	1.663	24.0	20.8	43 W	—	36*
3 7	20 31.79	−31 54.4	2.154	1.620	25.9	20.7	45 W	—	38*
3 17	21 5.27	−29 42.5	2.070	1.580	27.7	20.6	48 W	—	40*
3 27	21 37.86	−27 1.6	1.992	1.544	29.4	20.5	50 W	—	42*
4 6	22 9.38	−23 54.6	1.920	1.512	31.1	20.4	51 W	1*	44*
4 16	22 39.71	−20 25.0	1.854	1.485	32.7	20.4	53 W	2*	46*
4 26	23 8.80	−16 37.2	1.794	1.463	34.1	20.3	55 W	4*	48*
5 6	23 36.71	−12 35.4	1.740	1.447	35.4	20.3	56 W	6*	50*
5 16	0 3.50	− 8 24.2	1.690	1.438	36.6	20.2	58 W	9*	52*
5 26	0 29.26	− 4 7.9	1.644	1.434	37.6	20.2	60 W	13*	53*
6 5	0 54.09	+ 0 9.7	1.602	1.437	38.5	20.2	62 W	17*	54*
6 15	1 18.05	+ 4 25.2	1.562	1.446	39.2	20.1	64 W	22*	53*
6 25	1 41.18	+ 8 35.5	1.524	1.462	39.7	20.1	67 W	28*	52*
7 5	2 3.47	+12 38.7	1.486	1.483	40.1	20.1	70 W	35*	50*
7 15	2 24.83	+16 33.0	1.448	1.509	40.1	20.1	73 W	42*	47*
7 25	2 45.13	+20 17.6	1.409	1.541	40.0	20.1	77 W	50*	44*
8 4	3 4.15	+23 52.6	1.369	1.576	39.5	20.0	81 W	58*	40*
8 14	3 21.53	+27 18.2	1.328	1.616	38.7	20.0	86 W	66*	37
8 24	3 36.83	+30 35.2	1.287	1.658	37.5	20.0	92 W	73*	33
8 29	3 43.54	+32 10.9	1.266	1.681	36.8	19.9	95 W	76*	32
9 3	3 49.51	+33 44.7	1.245	1.704	35.9	19.9	98 W	79*	30
9 8	3 54.63	+35 16.8	1.225	1.727	34.9	19.9	101 W	80	29
9 13	3 58.80	+36 46.8	1.205	1.751	33.8	19.8	104 W	82	27
9 18	4 1.93	+38 14.8	1.186	1.776	32.6	19.8	108 W	83	26
9 23	4 3.91	+39 40.2	1.168	1.800	31.2	19.7	112 W	85	24
9 28	4 4.64	+41 2.5	1.151	1.826	29.6	19.7	116 W	86	23
10 3	4 4.01	+42 20.9	1.137	1.851	27.9	19.7	120 W	87	22
10 8	4 1.96	+43 34.2	1.124	1.877	26.2	19.6	124 W	89	20
10 13	3 58.46	+44 40.8	1.115	1.903	24.3	19.6	128 W	90	19
10 18	3 53.55	+45 39.4	1.109	1.929	22.3	19.5	133 W	89	18
10 23	3 47.35	+46 28.3	1.107	1.955	20.3	19.5	137 W	89	18
10 28	3 40.03	+47 6.1	1.109	1.982	18.4	19.5	141 W	88	17
11 2	3 31.86	+47 31.4	1.116	2.008	16.6	19.4	145 W	87	16
11 7	3 23.20	+47 43.5	1.127	2.035	15.1	19.4	148 W	87	16
11 12	3 14.43	+47 42.6	1.145	2.062	13.9	19.5	150 W	87	16
11 17	3 5.97	+47 29.4	1.167	2.088	13.3	19.5	151 E	88	17
11 22	2 58.15	+47 5.5	1.196	2.115	13.1	19.6	151 E	88	17
11 27	2 51.24	+46 32.9	1.230	2.141	13.4	19.7	150 E	88	17
12 2	2 45.42	+45 53.5	1.270	2.168	14.1	19.8	148 E	89	18
12 7	2 40.83	+45 9.7	1.315	2.194	15.0	19.9	145 E	90	19
12 12	2 37.50	+44 23.7	1.365	2.221	16.1	20.1	141 E	89	20
12 17	2 35.41	+43 37.3	1.420	2.247	17.2	20.2	138 E	89	20
12 22	2 34.50	+42 51.9	1.480	2.273	18.3	20.4	134 E	88	21
12 27	2 34.68	+42 8.5	1.544	2.299	19.2	20.5	130 E	87	22
1 1	2 35.88	+41 28.0	1.611	2.325	20.1	20.7	126 E	86	23
1 6	2 37.99	+40 50.9	1.683	2.351	20.9	20.8	121 E	86	23
1 11	2 40.92	+40 17.4	1.757	2.376	21.5	21.0	117 E	85	24*
1 16	2 44.60	+39 47.6	1.833	2.402	22.1	21.1	114 E	85	24*
1 21	2 48.93	+39 21.5	1.912	2.427	22.4	21.2	110 E	84	24*