20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
37336 2001 *RM*									
12 27	14 17.83	−26 39.7	3.232	2.791	16.8	21.4	55 W	17*	47*
1 6	14 31.14	−27 17.2	3.071	2.751	18.4	21.3	62 W	17*	54*
1 16	14 43.89	−27 47.7	2.899	2.710	19.8	21.2	69 W	17*	62*
1 26	14 55.86	−28 9.7	2.720	2.668	21.0	21.0	76 W	17	70*
2 5	15 6.83	−28 21.6	2.536	2.624	21.9	20.9	84 W	17	78*
2 15	15 16.49	−28 21.4	2.348	2.578	22.5	20.7	92 W	17	86*
2 25	15 24.50	−28 6.5	2.160	2.531	22.6	20.5	100 W	17	88
3 2	15 27.77	−27 52.5	2.066	2.507	22.5	20.3	105 W	17	88
3 7	15 30.46	−27 33.6	1.974	2.483	22.2	20.2	109 W	17	88
3 12	15 32.53	−27 9.2	1.884	2.458	21.7	20.1	114 W	18	89
3 17	15 33.91	−26 38.5	1.795	2.433	21.1	19.9	119 W	18	89
3 22	15 34.54	−26 0.9	1.710	2.407	20.2	19.8	123 W	19	90
3 27	15 34.38	−25 15.6	1.627	2.381	19.1	19.6	129 W	20	89
4 1	15 33.39	−24 21.9	1.548	2.355	17.7	19.4	134 W	21	88
4 6	15 31.52	−23 18.8	1.474	2.329	16.1	19.3	140 W	22	87
4 16	15 25.09	−20 41.8	1.340	2.274	12.1	18.8	152 W	24	85
4 26	15 15.36	−17 21.6	1.233	2.219	6.9	18.4	165 W	28	81
5 6	15 3.10	−13 22.1	1.155	2.162	1.9	17.9	176 W	32	77
5 11	14 56.42	−11 11.6	1.128	2.133	3.6	17.9	172 E	34	75
5 16	14 49.65	− 8 57.5	1.109	2.104	6.8	18.0	166 E	36	73
5 21	14 43.02	− 6 42.9	1.098	2.074	10.2	18.1	159 E	38	71
5 26	14 36.74	− 4 31.1	1.095	2.044	13.6	18.2	152 E	40	69
5 31	14 30.99	− 2 24.9	1.099	2.014	16.8	18.3	145 E	43	66
6 5	14 25.92	− 0 26.7	1.108	1.984	19.9	18.4	138 E	45	64
6 10	14 21.66	+ 1 21.7	1.124	1.953	22.8	18.5	132 E	46	63
6 15	14 18.30	+ 2 59.2	1.143	1.922	25.4	18.6	126 E	48	61
6 25	14 14.45	+ 5 40.6	1.191	1.860	29.8	18.7	115 E	50*	58
7 5	14 14.40	+ 7 39.6	1.246	1.797	33.2	18.8	105 E	50*	56
7 15	14 17.98	+ 9 2.1	1.302	1.734	35.7	18.9	96 E	49*	55
7 20	14 21.04	+ 9 31.9	1.328	1.702	36.6	19.0	92 E	48*	54
7 25	14 24.89	+ 9 55.2	1.353	1.671	37.4	19.0	88 E	47*	54
7 30	14 29.49	+10 12.8	1.377	1.639	38.1	19.0	85 E	46*	54
8 4	14 34.81	+10 25.5	1.398	1.608	38.7	19.0	82 E	45*	53*
8 9	14 40.83	+10 33.7	1.417	1.577	39.1	19.0	79 E	45*	53*
8 14	14 47.53	+10 38.2	1.433	1.546	39.5	19.0	76 E	44*	52*
8 24	15 2.88	+10 37.9	1.458	1.485	40.2	19.0	71 E	43*	49*
9 3	15 20.76	+10 28.1	1.470	1.427	40.7	18.9	67 E	42*	46*
9 13	15 41.23	+10 11.0	1.470	1.371	41.3	18.8	64 E	42*	43*
9 23	16 4.36	+ 9 48.8	1.458	1.320	42.0	18.8	62 E	42*	40*
10 3	16 30.30	+ 9 22.6	1.436	1.274	42.8	18.7	60 E	43*	37*
10 13	16 59.30	+ 8 52.7	1.406	1.234	43.8	18.6	59 E	43*	35*
10 23	17 31.54	+ 8 19.6	1.371	1.202	44.9	18.5	59 E	44*	33*
11 2	18 7.20	+ 7 42.6	1.336	1.179	46.0	18.4	59 E	45*	31*
11 12	18 46.29	+ 7 1.7	1.305	1.166	46.8	18.4	59 E	46*	30*
11 22	19 28.45	+ 6 17.5	1.285	1.163	47.3	18.4	60 E	46*	29*
12 2	20 12.93	+ 5 31.5	1.281	1.171	47.2	18.4	61 E	47*	29*
12 12	20 58.61	+ 4 47.1	1.297	1.189	46.4	18.4	61 E	47*	29*
12 22	21 44.09	+ 4 8.1	1.335	1.217	45.1	18.5	61 E	46*	30*
1 1	22 28.10	+ 3 38.1	1.395	1.252	43.2	18.6	61 E	45*	30*
1 11	23 9.76	+ 3 19.4	1.475	1.295	40.9	18.7	60 E	45*	31*
1 21	23 48.61	+ 3 12.0	1.572	1.344	38.5	18.9	58 E	43*	31*
424965 2009 AM_{15}									
12 27	14 18.24	−17 13.9	1.047	0.977	58.0	20.9	57 W	27*	44*
1 1	14 45.01	−17 20.9	1.007	0.941	60.5	20.8	56 W	26*	44*
1 6	15 14.05	−17 14.4	0.973	0.901	63.1	20.8	55 W	26*	42*
1 11	15 45.36	−16 52.0	0.946	0.859	65.8	20.7	53 W	26*	40*
1 16	16 18.82	−16 12.0	0.927	0.814	68.4	20.6	50 W	25*	38*
1 21	16 54.10	−15 13.9	0.919	0.766	70.8	20.5	47 W	24*	35*
1 26	17 30.75	−13 59.5	0.923	0.716	72.6	20.4	44 W	24*	32*
1 31	18 8.21	−12 33.0	0.941	0.664	73.4	20.3	40 W	22*	28*
2 5	18 45.99	−11 0.3	0.973	0.611	73.0	20.2	36 W	21*	24*
2 10	19 23.75	− 9 28.1	1.019	0.558	70.7	20.1	32 W	19*	21*
2 15	20 1.38	− 8 3.0	1.078	0.508	66.0	19.8	28 W	16*	17*
2 20	20 38.96	− 6 49.5	1.148	0.465	58.6	19.5	24 W	13*	13*
2 25	21 16.68	− 5 49.6	1.224	0.433	48.3	19.2	19 W	9*	9*
3 2	21 54.49	− 5 1.6	1.299	0.417	35.8	18.9	14 W	6*	6*
3 7	22 31.94	− 4 20.8	1.368	0.422	22.7	18.7	9 W	1*	2*
3 12	23 8.31	− 3 41.3	1.428	0.446	11.1	18.5	5 W	—	—
3 17	23 42.98	− 2 59.0	1.478	0.485	3.6	18.4	2 W	—	—
3 27	0 46.27	− 1 21.5	1.561	0.584	12.0	19.3	7 E	—	1*
4 6	1 41.99	+ 0 28.4	1.635	0.690	17.8	20.0	12 E	—	6*
4 16	2 31.54	+ 2 20.2	1.707	0.790	20.2	20.5	16 E	—	10*
4 21	2 54.42	+ 3 14.1	1.743	0.836	20.6	20.6	17 E	—	11*
4 26	3 16.23	+ 4 5.5	1.779	0.880	20.8	20.8	18 E	—	12*
5 1	3 37.10	+ 4 53.9	1.815	0.921	20.7	20.9	19 E	—	13*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
424965 2009 AM_{15} *(continuation)*									
5 6	3 57.13	+ 5 39.0	1.851	0.959	20.4	21.1	19 E	—	13*
5 11	4 16.42	+ 6 20.4	1.886	0.994	19.9	21.2	20 E	—	13*
5 16	4 35.06	+ 6 57.9	1.920	1.026	19.4	21.3	20 E	—	13*
5 21	4 53.12	+ 7 31.4	1.953	1.056	18.8	21.3	20 E	—	13*
5 26	5 10.65	+ 8 0.8	1.984	1.083	18.2	21.4	19 E	—	13*
5 31	5 27.72	+ 8 26.2	2.014	1.107	17.4	21.5	19 E	—	12*
175114 2004 *QQ*									
12 27	14 18.38	−18 57.5	2.392	2.030	24.0	21.2	57 W	25*	45*
1 6	14 39.55	−20 50.0	2.206	1.945	26.5	21.0	62 W	24*	51*
1 16	15 2.48	−22 41.5	2.020	1.857	29.0	20.7	66 W	22*	57*
1 26	15 27.63	−24 30.0	1.834	1.767	31.7	20.5	70 W	20*	63*
2 5	15 55.68	−26 12.9	1.652	1.674	34.5	20.2	74 W	19*	67*
2 10	16 11.06	−27 0.8	1.564	1.626	36.0	20.1	75 W	18*	69*
2 15	16 27.50	−27 45.3	1.477	1.578	37.5	20.0	77 W	17*	71*
2 20	16 45.16	−28 25.1	1.393	1.529	39.2	19.8	78 W	16*	72*
2 25	17 4.21	−28 58.6	1.312	1.480	41.0	19.6	79 W	16*	73*
3 2	17 24.80	−29 23.7	1.235	1.430	42.9	19.5	79 W	15*	73*
3 7	17 47.11	−29 37.9	1.162	1.380	45.0	19.3	79 W	15*	73*
3 12	18 11.26	−29 37.8	1.093	1.329	47.2	19.2	79 W	14*	73*
3 17	18 37.31	−29 19.5	1.030	1.278	49.7	19.0	78 W	14*	72*
3 22	19 5.23	−28 38.5	0.974	1.227	52.3	18.9	77 W	13*	71*
3 27	19 34.87	−27 30.6	0.925	1.176	55.1	18.8	75 W	13*	69*
4 1	20 5.91	−25 51.9	0.885	1.126	58.1	18.7	73 W	13*	67*
4 6	20 37.90	−23 40.4	0.854	1.076	61.2	18.6	70 W	12*	64*
4 11	21 10.25	−20 56.6	0.833	1.028	64.2	18.5	67 W	12*	61*
4 16	21 42.39	−17 44.3	0.823	0.980	67.0	18.5	64 W	12*	58*
4 21	22 13.80	−14 9.8	0.824	0.936	69.3	18.5	61 W	12*	55*
4 26	22 44.12	−10 21.7	0.836	0.894	71.1	18.5	57 W	12*	51*
5 1	23 13.17	− 6 28.6	0.858	0.855	72.0	18.5	54 W	13*	48*
5 6	23 40.91	− 2 38.1	0.890	0.822	72.1	18.4	51 W	13*	44*
5 11	0 7.42	+ 1 3.8	0.930	0.794	71.2	18.4	48 W	13*	41*
5 16	0 32.83	+ 4 32.9	0.977	0.774	69.4	18.4	46 W	13*	38*
5 21	0 57.30	+ 7 46.6	1.030	0.760	66.9	18.4	44 W	14*	36*
5 26	1 20.98	+10 43.7	1.086	0.756	63.8	18.4	42 W	14*	34*
6 5	2 6.36	+15 46.3	1.205	0.772	56.8	18.5	40 W	15*	30*
6 15	2 49.27	+19 41.4	1.324	0.818	50.1	18.6	38 W	17*	27*
6 25	3 29.53	+22 34.6	1.435	0.889	44.6	18.8	38 W	19*	25*
6 30	3 48.60	+23 40.7	1.486	0.931	42.4	19.0	38 W	20*	25*
7 5	4 6.92	+24 34.8	1.535	0.975	40.6	19.1	39 W	22*	24*
7 10	4 24.49	+25 18.2	1.579	1.022	39.1	19.2	39 W	23*	24*
7 15	4 41.29	+25 52.0	1.621	1.070	37.9	19.3	40 W	25*	24*
7 20	4 57.31	+26 17.3	1.658	1.120	36.9	19.4	41 W	27*	24*
7 25	5 12.57	+26 35.3	1.692	1.170	36.1	19.6	43 W	29*	24*
7 30	5 27.09	+26 46.8	1.722	1.221	35.4	19.7	44 W	31*	25*
8 4	5 40.86	+26 52.8	1.748	1.272	35.0	19.8	46 W	33*	25*
8 14	6 6.24	+26 51.4	1.788	1.374	34.3	20.0	50 W	38*	26*
8 24	6 28.80	+26 36.7	1.812	1.474	33.9	20.1	54 W	43*	27*
9 3	6 48.62	+26 13.3	1.820	1.572	33.6	20.3	60 W	48*	29*
9 13	7 5.70	+25 45.1	1.814	1.668	33.3	20.4	65 W	54*	31*
9 23	7 20.01	+25 15.5	1.793	1.761	32.8	20.5	72 W	60*	33*
10 3	7 31.42	+24 47.5	1.760	1.852	32.0	20.5	79 W	65*	35*
10 13	7 39.73	+24 23.7	1.717	1.940	30.9	20.5	87 W	68*	37*
10 23	7 44.66	+24 6.4	1.667	2.025	29.3	20.5	96 W	69	39*
11 2	7 45.90	+23 57.1	1.614	2.107	27.0	20.5	105 W	69	40*
11 12	7 43.11	+23 56.5	1.563	2.186	24.0	20.4	116 W	69	40
11 22	7 36.15	+24 3.6	1.520	2.263	20.2	20.3	128 W	69	40
12 2	7 25.18	+24 15.4	1.493	2.338	15.6	20.2	140 W	69	40
12 7	7 18.38	+24 21.8	1.487	2.374	13.1	20.1	147 W	69	40
12 12	7 10.90	+24 27.6	1.487	2.410	10.4	20.0	154 W	69	40
12 17	7 2.92	+24 32.2	1.495	2.445	7.7	20.0	161 W	70	39
12 22	6 54.65	+24 35.3	1.510	2.479	4.9	19.9	168 W	70	39
12 27	6 46.33	+24 36.4	1.532	2.513	2.2	19.8	174 W	70	39
1 1	6 38.18	+24 35.6	1.563	2.546	0.8	19.7	178 E	70	39
1 6	6 30.41	+24 32.8	1.602	2.579	3.2	20.0	171 E	70	39
1 11	6 23.22	+24 28.4	1.649	2.611	5.7	20.2	165 E	69	40
1 16	6 16.75	+24 22.7	1.704	2.643	7.9	20.4	158 E	69	40
1 21	6 11.10	+24 16.1	1.765	2.673	10.0	20.6	152 E	69	40
143678 2003 SA_{224}									
12 27	14 18.39	−10 1.0	1.234	1.126	49.0	18.8	60 W	34*	42*
1 1	14 34.07	−12 20.1	1.231	1.135	48.9	18.9	60 W	32*	44*
1 6	14 49.67	−14 34.1	1.229	1.146	48.7	18.9	61 W	30*	47*
1 11	15 5.18	−16 42.8	1.226	1.159	48.6	18.9	62 W	28*	49*
1 16	15 20.62	−18 45.6	1.223	1.173	48.4	18.9	63 W	26*	52*
1 26	15 51.19	−22 32.9	1.215	1.206	48.0	18.9	65 W	22*	57*
2 5	16 21.29	−25 55.5	1.204	1.242	47.5	19.0	68 W	19*	61*

143678 2003 SA_{224} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 15	16 50.69	−28 54.1	1.188	1.283	46.9	19.0	72 W	16*	65*
2 25	17 19.05	−31 30.9	1.168	1.326	46.2	19.0	75 W	13*	69*
3 7	17 46.01	−33 49.2	1.144	1.370	45.4	19.0	79 W	10*	72*
3 17	18 11.11	−35 53.8	1.114	1.416	44.3	19.0	84 W	8*	75*
3 22	18 22.80	−36 52.5	1.098	1.440	43.7	19.0	87 W	7*	76*
3 27	18 33.83	−37 49.7	1.081	1.463	43.0	19.0	89 W	6*	76*
4 1	18 44.13	−38 46.2	1.063	1.486	42.2	18.9	92 W	5*	76*
4 6	18 53.61	−39 42.7	1.044	1.510	41.3	18.9	95 W	4*	76*
4 11	19 2.19	−40 39.9	1.024	1.533	40.3	18.9	98 W	4*	75
4 16	19 9.75	−41 38.2	1.005	1.556	39.2	18.8	102 W	3*	74
4 21	19 16.20	−42 38.3	0.985	1.579	37.9	18.8	105 W	2*	73
4 26	19 21.41	−43 40.3	0.966	1.601	36.5	18.7	109 W	1*	72
5 1	19 25.26	−44 44.5	0.947	1.624	35.0	18.7	112 W	—	71
5 6	19 27.61	−45 50.7	0.929	1.646	33.3	18.6	116 W	—	70
5 11	19 28.30	−46 58.3	0.912	1.668	31.5	18.6	120 W	—	69
5 16	19 27.18	−48 6.2	0.897	1.690	29.5	18.5	125 W	—	68
5 21	19 24.14	−49 12.8	0.884	1.711	27.4	18.4	129 W	—	67
5 26	19 19.12	−50 16.1	0.874	1.732	25.3	18.4	133 W	—	66
5 31	19 12.15	−51 13.6	0.867	1.752	23.1	18.3	137 W	—	65
6 5	19 3.31	−52 2.3	0.864	1.773	21.0	18.3	141 W	—	64
6 10	18 52.86	−52 39.5	0.865	1.792	19.1	18.2	145 W	—	63
6 15	18 41.24	−53 2.7	0.871	1.812	17.5	18.2	148 W	—	63
6 17	18 36.39	−53 7.6	0.874	1.819	17.0	18.2	148 W	—	63
6 19	18 31.48	−53 10.0	0.878	1.827	16.5	18.2	149 W	—	63
6 21	18 26.55	−53 9.8	0.883	1.834	16.2	18.2	150 W	—	63
6 23	18 21.64	−53 7.1	0.889	1.842	15.9	18.2	150 W	—	63
6 25	18 16.80	−53 1.9	0.896	1.849	15.8	18.3	150 W	—	63
6 27	18 12.05	−52 54.2	0.904	1.856	15.7	18.3	150 E	—	63
6 29	18 7.43	−52 44.3	0.912	1.864	15.8	18.3	150 E	—	63
7 1	18 2.97	−52 32.1	0.921	1.871	15.9	18.3	150 E	—	63
7 3	17 58.70	−52 17.9	0.931	1.878	16.1	18.4	149 E	—	64
7 5	17 54.65	−52 1.7	0.942	1.885	16.4	18.4	148 E	—	64
7 10	17 45.57	−51 14.2	0.972	1.902	17.4	18.5	146 E	—	65
7 15	17 38.17	−50 18.8	1.007	1.919	18.6	18.7	143 E	—	66
7 20	17 32.52	−49 18.3	1.046	1.935	19.9	18.8	140 E	—	67
7 25	17 28.59	−48 15.0	1.089	1.950	21.3	19.0	136 E	—	68
7 30	17 26.26	−47 11.0	1.137	1.966	22.6	19.1	132 E	—	69
8 4	17 25.41	−46 7.6	1.187	1.981	23.8	19.3	128 E	—	70
8 9	17 25.89	−45 5.9	1.241	1.995	24.9	19.4	124 E	—	71
8 14	17 27.57	−44 6.5	1.298	2.009	25.8	19.6	120 E	1	72
8 19	17 30.30	−43 9.8	1.356	2.022	26.6	19.7	116 E	2	73
8 24	17 33.95	−42 15.8	1.417	2.035	27.3	19.8	113 E	3	74
8 29	17 38.39	−41 24.5	1.480	2.047	27.8	19.9	109 E	4*	75
9 3	17 43.54	−40 35.7	1.545	2.059	28.2	20.1	106 E	4*	75
9 8	17 49.31	−39 49.2	1.610	2.070	28.4	20.2	102 E	5*	76
9 13	17 55.62	−39 4.6	1.677	2.081	28.6	20.3	99 E	6*	77
9 18	18 2.40	−38 21.7	1.744	2.091	28.6	20.4	95 E	7*	78*
9 23	18 9.59	−37 40.1	1.811	2.101	28.5	20.5	92 E	7*	78*
10 3	18 24.99	−36 19.7	1.947	2.119	28.1	20.6	86 E	8*	76*
10 13	18 41.48	−35 1.1	2.082	2.135	27.3	20.8	79 E	10*	72*
10 23	18 58.79	−33 42.4	2.214	2.150	26.3	20.9	73 E	11*	67*
11 2	19 16.67	−32 21.8	2.342	2.162	25.0	21.0	67 E	12*	61*
11 12	19 34.98	−30 58.2	2.465	2.172	23.6	21.1	61 E	13*	55*
11 22	19 53.53	−29 30.6	2.580	2.180	21.9	21.1	56 E	14*	49*
12 2	20 12.23	−27 58.3	2.688	2.186	20.2	21.1	50 E	15*	42*
12 12	20 30.98	−26 20.9	2.786	2.190	18.3	21.2	44 E	15*	36*
12 22	20 49.70	−24 38.2	2.873	2.192	16.3	21.2	39 E	15*	30*
1 1	21 8.34	−22 50.3	2.950	2.192	14.2	21.2	33 E	14*	24*
1 11	21 26.86	−20 57.3	3.014	2.190	12.0	21.1	28 E	12*	18*
1 21	21 45.23	−18 59.4	3.065	2.186	9.8	21.1	22 E	9*	13*

40267 1999 GJ_4

12 27	14 18.57	+ 7 44.7	2.472	2.282	23.4	20.4	67 W	51*	32*
1 6	14 32.10	+ 8 23.0	2.305	2.245	24.9	20.2	74 W	53*	38*
1 16	14 45.22	+ 9 24.8	2.132	2.204	26.2	20.0	81 W	54*	43*
1 26	14 57.78	+10 54.8	1.957	2.157	27.1	19.8	88 W	56	47*
2 5	15 9.56	+12 58.1	1.783	2.106	27.8	19.6	95 W	58	49*
2 10	15 15.09	+14 14.3	1.696	2.078	28.0	19.5	98 W	59	49*
2 15	15 20.30	+15 41.4	1.612	2.049	28.2	19.3	101 W	61	48*
2 20	15 25.15	+17 20.2	1.529	2.019	28.3	19.2	105 W	62	47*
2 25	15 29.57	+19 11.6	1.448	1.987	28.3	19.0	108 W	64	45
3 2	15 33.51	+21 16.5	1.370	1.954	28.3	18.9	111 W	66	43
3 7	15 36.87	+23 35.8	1.296	1.920	28.3	18.7	113 W	69	40
3 12	15 39.53	+26 10.2	1.225	1.883	28.4	18.6	116 W	71	38
3 17	15 41.36	+29 0.0	1.158	1.846	28.5	18.4	118 W	74	35
3 22	15 42.19	+32 5.1	1.096	1.806	28.8	18.2	119 W	77	32
3 27	15 41.83	+35 24.7	1.040	1.765	29.3	18.1	120 W	80	29
4 1	15 40.02	+38 57.4	0.988	1.723	30.1	18.0	120 W	84	25
4 6	15 36.43	+42 41.0	0.942	1.678	31.3	17.8	119 W	88	21

40267 1999 GJ_4 *(continuation)*

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	15 30.62	+46 31.7	0.902	1.631	32.9	17.7	118 W	88	17
4 16	15 22.06	+50 24.7	0.868	1.583	35.0	17.6	115 W	85	14
4 18	15 17.72	+51 57.3	0.856	1.563	35.9	17.6	114 W	83	12
4 20	15 12.80	+53 28.8	0.844	1.543	36.9	17.6	113 W	82	11
4 22	15 7.24	+54 58.9	0.834	1.522	38.0	17.5	111 W	80	9
4 24	15 0.98	+56 27.0	0.824	1.501	39.1	17.5	110 W	79	8
4 26	14 53.97	+57 52.7	0.815	1.480	40.2	17.5	108 W	77	6
4 28	14 46.15	+59 15.5	0.806	1.458	41.5	17.5	107 W	76	5
4 30	14 37.47	+60 34.7	0.799	1.436	42.7	17.5	105 W	74	3
5 2	14 27.87	+61 50.0	0.791	1.413	44.0	17.4	103 E	73	2
5 4	14 17.30	+63 0.6	0.785	1.390	45.4	17.4	101 E	72	1
5 6	14 5.75	+64 6.1	0.779	1.367	46.8	17.4	99 E	71	—
5 11	13 32.53	+66 23.3	0.765	1.307	50.5	17.4	94 E	69	—
5 16	12 53.76	+67 56.9	0.753	1.244	54.4	17.3	88 E	67	—
5 21	12 11.34	+68 42.5	0.741	1.178	58.5	17.3	83 E	66	—
5 26	11 27.92	+68 39.9	0.730	1.109	63.0	17.3	77 E	65*	—
5 28	11 10.85	+68 26.0	0.725	1.080	64.9	17.3	75 E	64*	—
5 30	10 54.13	+68 5.1	0.720	1.051	66.9	17.3	72 E	63*	—
6 1	10 37.84	+67 37.6	0.715	1.021	68.9	17.2	70 E	61*	—
6 3	10 22.02	+67 3.6	0.709	0.990	71.1	17.2	67 E	60*	—
6 5	10 6.69	+66 23.3	0.704	0.959	73.4	17.2	65 E	58*	—
6 7	9 51.83	+65 36.8	0.698	0.928	75.8	17.2	62 E	55*	—
6 9	9 37.40	+64 44.0	0.691	0.895	78.4	17.2	60 E	53*	—
6 11	9 23.35	+63 44.6	0.685	0.862	81.2	17.2	57 E	50*	—
6 13	9 9.62	+62 38.2	0.678	0.828	84.1	17.2	54 E	48*	—
6 15	8 56.15	+61 24.2	0.672	0.793	87.4	17.2	51 E	45*	—
6 17	8 42.90	+60 1.7	0.665	0.758	90.9	17.2	48 E	42*	—
6 19	8 29.82	+58 29.6	0.659	0.722	94.7	17.3	45 E	39*	—
6 21	8 16.90	+56 46.5	0.653	0.685	98.8	17.3	42 E	35*	—
6 23	8 4.13	+54 51.0	0.648	0.647	103.4	17.4	38 E	32*	—
6 25	7 51.55	+52 41.5	0.644	0.608	108.4	17.5	35 E	28*	—
6 27	7 39.25	+50 16.2	0.643	0.569	114.0	17.7	31 E	24*	—
6 29	7 27.31	+47 33.9	0.643	0.529	120.0	18.0	27 E	20*	—
7 1	7 15.92	+44 33.8	0.647	0.488	126.6	18.4	23 E	16*	—
7 3	7 5.29	+41 15.9	0.656	0.447	133.4	18.9	19 E	11*	—
7 5	6 55.69	+37 42.0	0.671	0.407	140.0	19.5	15 W	6*	—
7 6	6 51.39	+35 50.1	0.681	0.387	142.9	19.9	13 W	6*	—
7 7	6 47.50	+33 55.9	0.693	0.367	145.2	20.1	12 W	5*	—
7 8	6 44.07	+32 0.2	0.708	0.348	146.4	20.3	11 W	5*	—
7 9	6 41.18	+30 4.1	0.726	0.330	146.2	20.2	10 W	4*	—
7 10	6 38.90	+28 8.9	0.746	0.313	144.2	19.8	10 W	4*	—
7 11	6 37.30	+26 16.0	0.769	0.297	140.5	19.2	11 W	3*	1*
7 12	6 36.47	+24 27.2	0.796	0.284	135.0	18.5	11 W	3*	3*
7 13	6 36.47	+22 43.8	0.825	0.272	128.2	17.8	12 W	2*	4*
7 14	6 37.35	+21 7.7	0.858	0.264	120.2	17.1	13 W	2*	6*
7 15	6 39.13	+19 40.0	0.893	0.258	111.5	16.6	14 W	1*	7*
7 16	6 41.76	+18 21.7	0.930	0.256	102.5	16.1	14 W	—	8*
7 17	6 45.19	+17 13.2	0.968	0.258	93.4	15.8	15 W	—	8*
7 18	6 49.30	+16 14.3	1.006	0.263	84.6	15.6	15 W	—	9*
7 19	6 53.95	+15 24.4	1.045	0.272	76.4	15.4	15 W	—	9*
7 20	6 59.01	+14 42.4	1.083	0.283	68.9	15.4	15 W	—	9*
7 21	7 4.33	+14 7.2	1.120	0.297	62.1	15.3	15 W	—	9*
7 22	7 9.83	+13 37.8	1.156	0.312	56.2	15.3	15 W	—	9*
7 23	7 15.40	+13 13.1	1.191	0.329	50.9	15.4	15 W	—	9*
7 24	7 20.98	+12 52.2	1.224	0.348	46.3	15.4	14 W	—	8*
7 25	7 26.53	+12 34.4	1.256	0.367	42.3	15.5	14 W	—	8*
7 27	7 37.42	+12 5.6	1.317	0.406	35.7	15.6	13 W	—	7*
7 29	7 47.90	+11 43.4	1.374	0.447	30.5	15.8	13 W	—	7*
7 31	7 57.94	+11 25.3	1.427	0.487	26.5	15.9	12 W	—	6*
8 2	8 7.51	+11 10.0	1.478	0.528	23.4	16.1	12 W	—	6*
8 4	8 16.63	+10 56.5	1.525	0.568	20.8	16.2	11 W	—	5*
8 9	8 37.68	+10 27.3	1.635	0.665	16.4	16.6	11 W	—	5*
8 14	8 56.55	+10 0.8	1.733	0.757	13.7	16.9	10 W	—	4*
8 19	9 13.65	+ 9 35.2	1.822	0.845	12.2	17.2	10 W	—	4*
8 24	9 29.29	+ 9 9.8	1.902	0.927	11.5	17.4	11 W	—	4*
9 3	9 57.16	+ 8 18.6	2.042	1.079	11.7	17.9	13 W	3*	5*
9 13	10 21.57	+ 7 27.6	2.154	1.217	13.1	18.4	16 W	7*	6*
9 23	10 43.37	+ 6 37.9	2.240	1.343	14.9	18.7	20 W	12*	8*
10 3	11 3.16	+ 5 51.0	2.301	1.457	16.9	19.0	25 W	17*	10*
10 13	11 21.30	+ 5 8.5	2.338	1.563	18.9	19.3	31 W	22*	13*
10 23	11 38.01	+ 4 31.9	2.352	1.659	20.8	19.5	36 W	28*	16*
11 2	11 53.45	+ 4 3.0	2.343	1.748	22.6	19.6	43 W	33*	20*
11 12	12 7.66	+ 3 43.6	2.313	1.830	24.2	19.8	49 W	38*	24*
11 22	12 20.61	+ 3 36.2	2.264	1.905	25.6	19.8	56 W	43*	29*
12 2	12 32.24	+ 3 43.0	2.197	1.974	26.7	19.9	64 W	46*	34*
12 12	12 42.36	+ 4 7.3	2.114	2.037	27.4	19.9	72 W	49*	40*
12 22	12 50.75	+ 4 52.3	2.020	2.095	27.6	19.9	80 W	50	46*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
40267 1999 GJ_4 *(continuation)*									
1 1	12 57.10	+ 6 1.7	1.918	2.147	27.3	19.8	89 W	51	51*
1 11	13 0.98	+ 7 39.7	1.811	2.195	26.3	19.7	99 W	53	54*
1 21	13 1.89	+ 9 49.6	1.707	2.237	24.5	19.5	110 W	55	54*
450259 2003 WQ_7									
12 27	14 19.01	+32 4.9	0.441	1.009	74.0	20.4	80 W	74*	16*
1 1	14 40.16	+28 39.1	0.455	0.998	75.0	20.5	78 W	71*	18*
1 6	14 58.69	+25 16.2	0.469	0.989	75.5	20.6	77 W	68*	22*
1 11	15 15.13	+21 58.4	0.483	0.984	75.7	20.6	76 W	65*	25*
1 16	15 29.93	+18 46.8	0.497	0.983	75.4	20.7	75 W	62*	29*
1 21	15 43.40	+15 41.6	0.510	0.985	74.9	20.7	75 W	59*	33*
1 26	15 55.82	+12 42.6	0.523	0.990	74.0	20.8	75 W	57*	37*
1 31	16 7.38	+ 9 49.7	0.534	0.999	73.0	20.8	76 W	54*	41*
2 5	16 18.20	+ 7 2.7	0.543	1.011	71.7	20.8	77 W	51*	45*
2 10	16 28.35	+ 4 21.2	0.551	1.026	70.2	20.8	78 W	49*	49*
2 15	16 37.84	+ 1 44.7	0.557	1.044	68.6	20.8	80 W	46*	54*
2 20	16 46.66	− 0 47.4	0.562	1.064	66.9	20.8	82 W	44*	58*
2 25	16 54.80	− 3 16.1	0.564	1.086	65.0	20.8	84 W	42*	62*
3 2	17 2.20	− 5 42.0	0.565	1.111	63.0	20.8	87 W	39*	66*
3 7	17 8.80	− 8 6.1	0.564	1.137	60.8	20.8	89 W	37*	70*
3 12	17 14.47	−10 29.2	0.561	1.164	58.5	20.8	93 W	34*	74*
3 17	17 19.10	−12 52.4	0.558	1.193	56.0	20.7	96 W	32*	77*
3 22	17 22.54	−15 16.4	0.553	1.223	53.3	20.7	100 W	30	79
3 27	17 24.65	−17 42.1	0.548	1.254	50.3	20.7	105 W	27	82
4 1	17 25.27	−20 9.8	0.543	1.285	47.2	20.6	109 W	25	84
4 6	17 24.23	−22 39.2	0.538	1.317	43.8	20.5	114 W	22	87
4 11	17 21.33	−25 9.5	0.534	1.349	40.1	20.5	120 W	20	89
4 16	17 16.44	−27 39.0	0.532	1.382	36.3	20.4	125 W	17	88
4 21	17 9.48	−30 4.8	0.532	1.414	32.2	20.3	131 W	15	86
4 26	17 0.50	−32 23.4	0.536	1.447	28.0	20.3	138 W	13	84
5 1	16 49.66	−34 30.4	0.543	1.480	23.9	20.2	144 W	10	81
5 6	16 37.28	−36 21.8	0.554	1.512	19.9	20.2	149 W	9	80
5 11	16 23.86	−37 53.9	0.571	1.545	16.4	20.2	154 W	7	78
5 16	16 10.05	−39 4.8	0.592	1.577	13.8	20.2	158 W	6	77
5 21	15 56.55	−39 54.5	0.619	1.608	12.3	20.3	160 W	5	76
5 26	15 43.99	−40 24.9	0.651	1.640	12.3	20.5	160 E	5	76
5 31	15 32.84	−40 39.0	0.689	1.671	13.4	20.7	158 E	4	75
6 5	15 23.39	−40 40.3	0.731	1.702	15.2	20.9	154 E	4	75
6 10	15 15.79	−40 32.5	0.777	1.732	17.1	21.2	150 E	4	75
6 15	15 10.06	−40 18.9	0.828	1.762	19.1	21.4	145 E	5	76
6 20	15 6.12	−40 2.1	0.883	1.792	20.9	21.6	141 E	5	76
307064 2002 AR_5									
12 27	14 19.55	+ 5 16.4	1.826	1.685	32.2	21.1	66 W	49*	33*
1 6	14 44.80	+ 4 52.7	1.728	1.667	33.6	21.0	70 W	49*	38*
1 16	15 10.14	+ 4 43.5	1.632	1.648	34.9	20.9	73 W	49*	42*
1 26	15 35.44	+ 4 50.2	1.539	1.629	36.1	20.8	77 W	50*	46*
2 5	16 0.55	+ 5 13.2	1.447	1.609	37.2	20.6	80 W	50*	49*
2 15	16 25.30	+ 5 52.6	1.359	1.590	38.1	20.5	84 W	51*	52*
2 25	16 49.44	+ 6 47.6	1.274	1.570	39.0	20.4	87 W	52*	54*
3 7	17 12.80	+ 7 56.6	1.192	1.550	39.8	20.2	90 W	53*	55*
3 17	17 35.11	+ 9 17.2	1.112	1.531	40.5	20.0	93 W	54*	54*
3 22	17 45.79	+10 0.8	1.073	1.522	40.7	20.0	95 W	55*	54*
3 27	17 56.11	+10 45.9	1.035	1.512	41.0	19.9	96 W	56*	53
4 1	18 6.06	+11 32.0	0.997	1.503	41.2	19.8	98 W	56*	52
4 6	18 15.59	+12 18.4	0.960	1.494	41.4	19.7	99 W	57*	52
4 11	18 24.65	+13 4.7	0.923	1.485	41.5	19.6	101 W	58*	51
4 16	18 33.22	+13 49.8	0.886	1.476	41.6	19.5	103 W	59*	50
4 21	18 41.24	+14 32.9	0.850	1.468	41.5	19.4	104 W	59*	49
4 26	18 48.69	+15 13.0	0.813	1.460	41.5	19.3	106 W	60*	49
5 1	18 55.53	+15 49.0	0.778	1.452	41.3	19.2	108 W	61*	48
5 6	19 1.69	+16 19.9	0.742	1.444	41.0	19.1	110 W	61	48
5 11	19 7.11	+16 44.0	0.707	1.437	40.5	18.9	112 W	62	47
5 16	19 11.73	+16 59.6	0.672	1.430	39.9	18.8	115 W	62	47
5 21	19 15.49	+17 4.6	0.638	1.424	39.1	18.6	117 W	62	47
5 26	19 18.35	+16 56.6	0.604	1.418	38.1	18.5	120 W	62	47
5 31	19 20.24	+16 33.2	0.571	1.412	36.8	18.3	124 W	62	47
6 5	19 21.09	+15 51.1	0.539	1.407	35.2	18.1	127 W	61	48
6 10	19 20.84	+14 46.5	0.509	1.402	33.2	18.0	131 W	60	49
6 15	19 19.50	+13 15.6	0.481	1.398	30.8	17.8	135 W	58	51
6 20	19 17.09	+11 14.3	0.454	1.394	28.1	17.6	140 W	56	53
6 25	19 13.69	+ 8 39.5	0.431	1.391	24.9	17.3	145 W	54	55
6 30	19 9.43	+ 5 29.3	0.411	1.389	21.4	17.1	150 W	50	59
7 5	19 4.48	+ 1 44.0	0.396	1.386	17.8	16.9	155 W	47	62
7 10	18 59.11	− 2 32.7	0.385	1.385	14.7	16.8	160 E	42	67
7 15	18 53.67	− 7 13.0	0.381	1.384	12.9	16.7	162 E	38	71
7 17	18 51.57	− 9 9.3	0.380	1.384	12.9	16.7	162 E	36	73
7 19	18 49.53	−11 6.7	0.381	1.383	13.2	16.7	162 E	34	75
7 21	18 47.59	−13 4.5	0.383	1.383	13.9	16.7	161 E	32	77
7 23	18 45.77	−15 1.8	0.385	1.383	14.9	16.8	160 E	30	79
7 25	18 44.09	−16 57.8	0.389	1.383	16.1	16.8	158 E	28	81

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
307064 2002 AR_5 *(continuation)*									
7 27	18 42.57	−18 51.9	0.393	1.384	17.5	16.9	156 E	26	83
7 29	18 41.22	−20 43.3	0.398	1.384	19.0	17.0	154 E	24	85
7 31	18 40.06	−22 31.6	0.405	1.384	20.5	17.1	152 E	22	87
8 2	18 39.10	−24 16.2	0.412	1.385	22.0	17.1	149 E	21	88
8 4	18 38.37	−25 56.8	0.419	1.385	23.5	17.2	147 E	19	90
8 9	18 37.59	−29 49.2	0.442	1.387	27.2	17.5	141 E	15	86
8 14	18 38.42	−33 12.9	0.469	1.389	30.4	17.7	136 E	12	83
8 19	18 40.92	−36 7.9	0.499	1.392	33.2	17.9	131 E	9	80
8 24	18 45.05	−38 36.2	0.532	1.395	35.5	18.1	127 E	6	77
8 29	18 50.74	−40 39.7	0.566	1.399	37.4	18.3	123 E	4	75
9 3	18 57.91	−42 20.9	0.603	1.404	39.0	18.5	119 E	3	74
9 8	19 6.44	−43 41.9	0.641	1.408	40.2	18.7	116 E	1	72
9 13	19 16.20	−44 44.8	0.681	1.414	41.1	18.8	112 E	—	71
9 18	19 27.05	−45 31.1	0.721	1.420	41.8	19.0	110 E	—	70
9 23	19 38.79	−46 2.3	0.761	1.426	42.3	19.1	107 E	—	70
9 28	19 51.27	−46 19.7	0.803	1.432	42.6	19.3	104 E	—	70
10 3	20 4.34	−46 24.1	0.845	1.439	42.8	19.4	102 E	—	70
10 8	20 17.87	−46 16.4	0.887	1.447	42.9	19.5	100 E	—	70
10 13	20 31.72	−45 57.5	0.929	1.454	42.8	19.6	98 E	—	70
10 18	20 45.76	−45 28.3	0.971	1.462	42.7	19.7	96 E	—	71
10 23	20 59.88	−44 49.5	1.014	1.470	42.5	19.8	94 E	—	71
10 28	21 13.99	−44 1.7	1.056	1.479	42.2	19.9	92 E	1	72
11 2	21 28.01	−43 5.6	1.099	1.488	41.8	20.0	91 E	2	73
11 7	21 41.92	−42 1.9	1.142	1.497	41.5	20.1	89 E	3	74*
11 12	21 55.65	−40 51.3	1.185	1.506	41.0	20.2	87 E	4	75*
11 17	22 9.18	−39 34.5	1.228	1.515	40.6	20.2	86 E	5	75*
11 22	22 22.47	−38 12.1	1.271	1.524	40.1	20.3	84 E	7	75*
11 27	22 35.53	−36 44.7	1.315	1.534	39.6	20.4	82 E	8	75*
12 2	22 48.36	−35 12.9	1.358	1.544	39.1	20.5	81 E	10	74*
12 7	23 0.96	−33 37.1	1.402	1.553	38.5	20.5	79 E	11	73*
12 12	23 13.35	−31 58.1	1.445	1.563	37.9	20.6	78 E	13	71*
12 17	23 25.53	−30 16.3	1.489	1.573	37.4	20.7	76 E	15	69*
12 22	23 37.51	−28 32.3	1.534	1.583	36.8	20.7	74 E	16	67*
12 27	23 49.30	−26 46.4	1.578	1.593	36.1	20.8	73 E	18	65*
1 1	0 0.94	−24 59.2	1.622	1.603	35.5	20.8	71 E	20	63*
1 6	0 12.43	−23 11.0	1.667	1.613	34.8	20.9	70 E	22	60*
1 11	0 23.80	−21 22.3	1.712	1.622	34.2	20.9	68 E	24*	58*
1 16	0 35.06	−19 33.5	1.757	1.632	33.5	21.0	66 E	25*	55*
1 21	0 46.21	−17 44.8	1.802	1.642	32.8	21.0	65 E	27*	53*
267136 2000 EF_{104}									
12 27	14 19.78	− 2 11.7	1.007	1.034	57.6	21.1	63 W	41*	38*
1 6	14 42.23	− 3 32.2	1.022	1.105	54.9	21.2	67 W	41*	43*
1 16	15 2.78	− 4 39.2	1.019	1.172	52.8	21.2	72 W	40*	49*
1 26	15 21.23	− 5 31.2	1.002	1.236	50.9	21.3	77 W	39*	56*
2 5	15 37.35	− 6 8.1	0.972	1.295	49.1	21.2	83 W	39	62*
2 15	15 50.74	− 6 29.8	0.930	1.349	47.1	21.2	89 W	39	67*
2 25	16 0.84	− 6 36.7	0.880	1.398	44.7	21.1	97 W	38	70*
3 7	16 6.96	− 6 30.1	0.823	1.443	41.7	20.9	105 W	38	71
3 17	16 8.16	− 6 10.9	0.764	1.482	37.7	20.7	114 W	39	70
3 27	16 3.38	− 5 41.4	0.706	1.517	32.6	20.4	125 W	39	70
4 6	15 51.77	− 5 5.1	0.656	1.547	26.1	20.1	137 W	40	69
4 11	15 43.27	− 4 46.0	0.635	1.560	22.3	20.0	144 W	40	69
4 16	15 33.09	− 4 27.5	0.619	1.572	18.3	19.8	151 W	41	68
4 21	15 21.46	− 4 11.0	0.608	1.583	14.2	19.6	157 W	41	68
4 26	15 8.78	− 3 57.5	0.602	1.593	10.4	19.5	163 W	41	68
5 1	14 55.51	− 3 48.4	0.602	1.601	7.8	19.4	167 W	41	68
5 6	14 42.19	− 3 44.5	0.609	1.608	8.1	19.4	167 E	41	68
5 11	14 29.36	− 3 46.7	0.622	1.614	10.8	19.6	163 E	41	68
5 16	14 17.50	− 3 55.2	0.641	1.619	14.4	19.8	157 E	41	68
5 26	13 58.00	− 4 31.3	0.694	1.625	21.6	20.2	144 E	40	69
6 5	13 44.97	− 5 29.3	0.764	1.627	27.7	20.6	132 E	40	69
6 15	13 38.21	− 6 44.7	0.845	1.624	32.3	21.0	121 E	38*	71
6 25	13 36.87	− 8 13.3	0.932	1.616	35.7	21.2	112 E	35*	72
7 5	13 39.93	− 9 51.5	1.021	1.604	38.0	21.5	104 E	31*	74
511808 2015 FH_{120}									
12 27	14 20.44	+ 0 52.7	0.635	0.904	77.2	20.1	64 W	44*	36*
1 1	14 30.74	+ 0 34.2	0.669	0.940	73.1	20.2	66 W	45*	39*
1 6	14 40.41	+ 0 15.1	0.699	0.979	69.5	20.2	69 W	45*	41*
1 11	14 49.38	− 0 2.8	0.725	1.020	66.1	20.3	71 W	45*	45*
1 16	14 57.57	− 0 18.1	0.746	1.063	63.1	20.3	74 W	45*	48*
1 21	15 4.91	− 0 30.1	0.763	1.107	60.2	20.4	77 W	44*	51*
1 26	15 11.36	− 0 38.3	0.776	1.152	57.5	20.4	81 W	44	54*
2 5	15 21.31	− 0 41.8	0.792	1.244	52.4	20.5	88 W	44	60*
2 15	15 26.82	− 0 27.1	0.796	1.337	47.2	20.5	96 W	45	64*
2 25	15 27.28	+ 0 4.9	0.792	1.428	41.7	20.5	106 W	45	64
3 7	15 22.23	+ 0 50.9	0.786	1.519	35.7	20.4	117 W	46	63

511808 2015 FH_{120} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 12	15 17.57	+ 1 17.7	0.785	1.563	32.3	20.4	123 W	46	63
3 17	15 11.53	+ 1 45.7	0.785	1.607	28.9	20.4	129 W	47	62
3 22	15 4.21	+ 2 13.6	0.788	1.651	25.2	20.3	135 W	47	62
3 27	14 55.80	+ 2 40.0	0.795	1.694	21.5	20.3	141 W	48	61
4 1	14 46.55	+ 3 3.5	0.807	1.736	17.9	20.3	148 W	48	61
4 6	14 36.75	+ 3 22.9	0.823	1.777	14.4	20.2	154 W	48	61
4 11	14 26.72	+ 3 37.1	0.846	1.818	11.3	20.2	159 W	49	60
4 16	14 16.81	+ 3 45.1	0.876	1.858	9.1	20.3	163 W	49	60
4 26	13 58.56	+ 3 41.5	0.953	1.937	9.0	20.5	162 E	49	60
5 6	13 43.79	+ 3 13.6	1.056	2.012	12.6	21.0	154 E	48	61
5 16	13 33.26	+ 2 25.9	1.181	2.085	16.6	21.4	144 E	47	62
5 26	13 26.94	+ 1 23.7	1.325	2.156	19.7	21.9	134 E	46	63

22807 1999 RK_7

12 27	14 20.56	−14 4.5	2.861	2.482	19.6	20.4	58 W	30*	43*
1 6	14 35.33	−15 21.2	2.723	2.462	21.1	20.4	64 W	29*	50*
1 16	14 49.64	−16 32.0	2.579	2.440	22.4	20.3	71 W	28*	58*
1 26	15 3.30	−17 36.4	2.430	2.418	23.4	20.2	78 W	27	66*
2 5	15 16.12	−18 34.3	2.278	2.395	24.2	20.0	85 W	26	74*
2 15	15 27.83	−19 25.4	2.125	2.371	24.6	19.9	92 W	26	81*
2 25	15 38.11	−20 9.7	1.973	2.347	24.6	19.7	99 W	25	84
3 7	15 46.61	−20 47.3	1.824	2.321	24.1	19.5	107 W	24	85
3 17	15 52.88	−21 17.9	1.681	2.295	23.0	19.2	116 W	24	85
3 27	15 56.48	−21 41.4	1.547	2.269	21.2	19.0	125 W	23	86
4 6	15 56.99	−21 57.2	1.424	2.242	18.6	18.7	134 W	23	86
4 16	15 54.07	−22 4.2	1.317	2.214	15.1	18.4	145 W	23	86
4 26	15 47.70	−22 1.0	1.228	2.186	10.8	18.0	156 W	23	86
5 6	15 38.32	−21 46.7	1.161	2.158	5.7	17.6	168 W	23	86
5 11	15 32.80	−21 35.3	1.137	2.143	3.0	17.4	174 W	23	86
5 16	15 26.94	−21 21.4	1.118	2.129	1.2	17.3	177 E	24	85
5 21	15 20.98	−21 5.6	1.106	2.114	3.4	17.4	173 E	24	85
5 26	15 15.12	−20 48.5	1.100	2.100	6.2	17.5	167 E	24	85
5 31	15 9.57	−20 30.9	1.100	2.085	9.1	17.6	161 E	24	85
6 5	15 4.52	−20 13.6	1.106	2.070	12.0	17.7	155 E	25	84
6 10	15 0.14	−19 57.6	1.117	2.056	14.7	17.8	149 E	25	84
6 15	14 56.56	−19 43.5	1.133	2.041	17.2	17.9	144 E	25	84
6 25	14 52.13	−19 24.2	1.177	2.012	21.7	18.1	133 E	26	83
7 5	14 51.54	−19 18.7	1.234	1.983	25.4	18.3	123 E	25*	83
7 15	14 54.74	−19 27.9	1.300	1.954	28.3	18.5	114 E	24*	83
7 25	15 1.46	−19 50.7	1.371	1.925	30.4	18.6	107 E	23*	84
8 4	15 11.34	−20 24.5	1.446	1.897	31.9	18.7	99 E	21*	84
8 14	15 24.06	−21 6.5	1.521	1.869	32.8	18.8	93 E	20*	85*
8 24	15 39.33	−21 53.2	1.596	1.843	33.2	18.9	87 E	18*	81*
9 3	15 56.87	−22 41.3	1.670	1.817	33.3	19.0	81 E	17*	75*
9 13	16 16.48	−23 27.5	1.742	1.792	33.0	19.1	76 E	17*	70*
9 23	16 37.95	−24 8.5	1.811	1.769	32.5	19.1	71 E	16*	65*
10 3	17 1.09	−24 41.0	1.877	1.747	31.8	19.1	67 E	16*	61*
10 13	17 25.70	−25 2.2	1.940	1.727	30.9	19.2	63 E	16*	57*
10 23	17 51.56	−25 9.2	2.001	1.709	29.8	19.2	59 E	16*	52*
11 2	18 18.43	−25 0.0	2.059	1.692	28.6	19.2	55 E	16*	48*
11 12	18 46.08	−24 32.7	2.115	1.678	27.3	19.2	51 E	16*	44*
11 22	19 14.22	−23 46.4	2.168	1.666	25.9	19.2	47 E	17*	39*
12 2	19 42.61	−22 40.6	2.220	1.657	24.4	19.2	44 E	18*	35*
12 12	20 11.02	−21 15.6	2.270	1.650	22.8	19.2	40 E	18*	30*
12 22	20 39.25	−19 32.5	2.319	1.645	21.1	19.1	37 E	18*	26*
1 1	21 7.15	−17 32.8	2.367	1.643	19.5	19.1	34 E	18*	22*
1 11	21 34.62	−15 18.6	2.413	1.644	17.7	19.1	31 E	17*	18*
1 21	22 1.60	−12 52.3	2.458	1.648	15.9	19.1	27 E	16*	15*

160092 2000 PL_6

12 27	14 22.76	−32 31.0	3.716	3.226	14.1	21.0	53 W	11*	47*
1 6	14 33.93	−34 8.5	3.598	3.225	15.4	21.0	60 W	11*	54*
1 16	14 44.29	−35 45.6	3.470	3.223	16.4	20.9	67 W	9*	61*
1 26	14 53.59	−37 22.1	3.334	3.220	17.2	20.9	75 W	8	68*
2 5	15 1.56	−38 57.9	3.194	3.216	17.7	20.8	82 W	6	74*
2 15	15 7.88	−40 32.6	3.051	3.211	17.9	20.7	90 W	4	75*
2 25	15 12.16	−42 5.4	2.909	3.205	17.8	20.6	98 W	3	74
3 7	15 14.02	−43 34.6	2.771	3.198	17.3	20.4	107 W	1	72
3 12	15 13.91	−44 17.2	2.704	3.194	16.9	20.4	111 W	1	72
3 17	15 13.05	−44 57.8	2.640	3.189	16.4	20.3	115 W	—	71
3 22	15 11.41	−45 35.9	2.579	3.185	15.9	20.2	119 W	—	70
3 27	15 8.96	−46 10.8	2.521	3.180	15.2	20.2	123 W	—	70
4 6	15 1.67	−47 8.7	2.417	3.170	13.7	20.0	132 W	—	69
4 16	14 51.42	−47 45.3	2.332	3.159	12.0	19.9	139 W	—	68
4 26	14 38.99	−47 55.2	2.268	3.147	10.5	19.7	145 W	—	68
5 1	14 32.31	−47 49.2	2.246	3.140	10.0	19.7	147 E	—	68
5 6	14 25.56	−47 35.7	2.229	3.133	9.7	19.7	148 E	—	68

160092 2000 PL_6 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 11	14 18.92	−47 15.0	2.219	3.126	9.7	19.6	149 E	—	69
5 16	14 12.56	−46 47.6	2.216	3.119	9.9	19.6	148 E	—	69
5 21	14 6.66	−46 14.3	2.219	3.112	10.4	19.7	146 E	—	70
5 26	14 1.33	−45 36.3	2.227	3.104	11.1	19.7	144 E	—	70
5 31	13 56.69	−44 54.5	2.242	3.096	11.9	19.7	141 E	—	71
6 5	13 52.79	−44 10.1	2.262	3.088	12.8	19.8	138 E	1	72
6 10	13 49.69	−43 24.3	2.288	3.079	13.8	19.8	134 E	2	73
6 15	13 47.40	−42 38.1	2.318	3.070	14.7	19.9	130 E	2*	73
6 20	13 45.93	−41 52.6	2.353	3.061	15.6	19.9	126 E	3*	74
6 25	13 45.24	−41 8.6	2.391	3.052	16.4	20.0	122 E	3*	75
6 30	13 45.31	−40 26.6	2.433	3.042	17.2	20.1	118 E	3*	76
7 5	13 46.10	−39 47.2	2.478	3.033	17.9	20.1	114 E	3*	76
7 15	13 49.70	−38 37.7	2.575	3.012	19.0	20.2	106 E	2*	77
7 25	13 55.69	−37 41.6	2.677	2.991	19.7	20.3	98 E	1*	78*
8 4	14 3.76	−36 59.0	2.783	2.968	20.0	20.4	90 E	—	75*
8 14	14 13.66	−36 29.0	2.889	2.945	20.0	20.4	83 E	—	70*
8 24	14 25.15	−36 10.4	2.992	2.921	19.6	20.5	76 E	—	64*
9 3	14 38.05	−36 1.2	3.091	2.895	19.0	20.5	69 E	—	58*
9 13	14 52.22	−35 59.6	3.184	2.869	18.2	20.5	63 E	—	52*
9 23	15 7.54	−36 3.7	3.268	2.841	17.1	20.5	57 E	—	47*
10 3	15 23.90	−36 11.5	3.343	2.813	15.9	20.5	50 E	—	41*
10 13	15 41.24	−36 21.3	3.407	2.783	14.5	20.5	44 E	—	36*
10 23	15 59.45	−36 31.1	3.460	2.753	13.0	20.5	39 E	—	30*
11 2	16 18.47	−36 39.2	3.501	2.722	11.4	20.4	33 E	—	25*
11 12	16 38.22	−36 44.2	3.528	2.689	9.8	20.3	28 E	—	20*
11 22	16 58.59	−36 44.4	3.542	2.656	8.2	20.2	22 E	—	15*
12 2	17 19.51	−36 38.6	3.542	2.622	6.7	20.1	18 E	—	10*
12 12	17 40.87	−36 25.5	3.529	2.587	5.4	20.0	14 E	—	5*
12 22	18 2.54	−36 4.2	3.502	2.551	4.8	20.0	13 E	—	1*
1 1	18 24.42	−35 33.7	3.461	2.514	5.1	19.9	13 W	—	4*
1 11	18 46.39	−34 53.5	3.407	2.477	6.3	19.9	16 W	—	8*
1 21	19 8.33	−34 3.2	3.341	2.438	7.8	19.9	20 W	—	13*

55757 1991 XN

12 27	14 22.83	− 8 8.9	2.731	2.386	20.8	20.5	59 W	35*	40*
1 6	14 36.40	− 9 13.6	2.643	2.418	21.8	20.5	66 W	35*	47*
1 16	14 48.80	−10 8.9	2.548	2.448	22.6	20.5	73 W	35*	55*
1 26	14 59.80	−10 54.4	2.446	2.478	23.1	20.4	80 W	34	63*
2 5	15 9.16	−11 30.3	2.339	2.508	23.1	20.3	88 W	33	70*
2 15	15 16.58	−11 56.6	2.231	2.536	22.8	20.2	96 W	33	75*
2 25	15 21.74	−12 13.5	2.123	2.564	21.9	20.1	105 W	33	76
3 7	15 24.36	−12 21.4	2.020	2.591	20.4	20.0	114 W	33	76
3 17	15 24.17	−12 20.6	1.925	2.618	18.3	19.9	124 W	33	76
3 27	15 21.04	−12 11.8	1.843	2.643	15.5	19.7	135 W	33	76
4 6	15 15.08	−11 56.1	1.778	2.668	12.1	19.5	146 W	33	76
4 16	15 6.67	−11 35.2	1.736	2.692	8.1	19.3	158 W	33	76
4 26	14 56.56	−11 11.9	1.720	2.715	4.0	19.1	169 W	34	75
5 6	14 45.78	−10 49.4	1.731	2.737	2.1	19.0	174 E	34	75
5 16	14 35.42	−10 31.4	1.772	2.758	5.8	19.3	164 E	34	75
5 26	14 26.48	−10 21.4	1.839	2.778	9.6	19.6	153 E	35	74
6 5	14 19.63	−10 21.4	1.930	2.798	13.0	19.8	142 E	35	74
6 15	14 15.23	−10 32.2	2.041	2.816	15.7	20.1	131 E	34	75
6 25	14 13.37	−10 53.9	2.168	2.834	17.8	20.3	121 E	34*	75
7 5	14 13.90	−11 25.4	2.307	2.851	19.3	20.5	112 E	32*	75
7 15	14 16.65	−12 5.4	2.453	2.866	20.2	20.6	104 E	29*	76
7 25	14 21.36	−12 52.4	2.604	2.881	20.6	20.8	95 E	26*	77
8 4	14 27.77	−13 44.9	2.756	2.895	20.5	20.9	88 E	23*	77*
8 14	14 35.69	−14 41.5	2.907	2.908	20.1	21.0	80 E	21*	72*
8 24	14 44.91	−15 40.8	3.054	2.920	19.3	21.1	73 E	18*	66*
9 3	14 55.27	−16 41.6	3.195	2.931	18.3	21.2	66 E	16*	60*
9 13	15 6.64	−17 42.9	3.329	2.941	17.1	21.3	59 E	14*	53*
9 23	15 18.89	−18 43.6	3.454	2.950	15.6	21.3	52 E	12*	46*
10 3	15 31.92	−19 42.8	3.568	2.958	14.0	21.3	46 E	11*	40*
10 13	15 45.66	−20 39.7	3.670	2.966	12.3	21.3	39 E	9*	33*
10 23	16 0.00	−21 33.3	3.759	2.972	10.4	21.3	33 E	7*	27*
11 2	16 14.87	−22 23.2	3.834	2.977	8.5	21.3	26 E	5*	20*
11 12	16 30.20	−23 8.6	3.893	2.982	6.5	21.2	20 E	3*	14*
11 22	16 45.91	−23 49.1	3.936	2.985	4.5	21.1	14 E	—	7*
12 2	17 1.91	−24 24.1	3.963	2.988	2.4	21.0	7 E	—	1*
12 12	17 18.13	−24 53.6	3.973	2.989	0.6	20.9	2 E	—	—
12 22	17 34.46	−25 17.2	3.966	2.990	2.0	21.0	6 W	—	—
1 1	17 50.83	−25 34.9	3.942	2.989	4.1	21.1	12 W	—	6*
1 11	18 7.12	−25 47.0	3.901	2.988	6.1	21.2	19 W	3*	12*
1 21	18 23.24	−25 53.7	3.843	2.985	8.2	21.3	25 W	5*	19*

303174 2004 FH_{11}

12 27	14 23.10	−17 30.0	2.293	1.929	25.1	21.0	56 W	26*	43*
1 6	14 46.86	−18 15.3	2.144	1.872	27.3	20.8	61 W	26*	49*
1 16	15 11.73	−18 44.1	1.993	1.815	29.5	20.7	65 W	26*	54*
1 26	15 37.77	−18 52.4	1.844	1.758	31.6	20.5	69 W	26*	59*
2 5	16 5.07	−18 35.7	1.699	1.701	33.7	20.3	73 W	26*	63*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
303174 2004 FH_{11} *(continuation)*									
2 10	16 19.19	−18 16.3	1.628	1.673	34.8	20.2	75 W	27*	65*
2 15	16 33.61	−17 48.6	1.559	1.645	35.8	20.1	77 W	27*	67*
2 20	16 48.35	−17 12.0	1.492	1.617	36.8	20.0	78 W	28*	69*
2 25	17 3.38	−16 25.7	1.427	1.590	37.8	19.9	80 W	28*	70*
3 2	17 18.69	−15 29.3	1.364	1.563	38.8	19.8	81 W	29*	71*
3 7	17 34.29	−14 22.0	1.305	1.536	39.9	19.7	83 W	30*	71*
3 12	17 50.14	−13 3.3	1.248	1.510	40.9	19.6	84 W	31*	72*
3 17	18 6.21	−11 32.9	1.194	1.485	41.9	19.5	85 W	32*	71*
3 27	18 38.92	− 7 56.8	1.097	1.436	43.9	19.3	86 W	35*	70*
4 6	19 12.21	− 3 35.9	1.016	1.391	45.9	19.1	87 W	39*	67*
4 16	19 45.81	+ 1 22.7	0.951	1.351	47.9	18.9	87 W	42*	62*
4 21	20 2.64	+ 4 2.0	0.925	1.333	48.8	18.9	87 W	44*	60*
4 26	20 19.44	+ 6 45.4	0.903	1.316	49.8	18.8	87 W	46*	57*
5 1	20 36.21	+ 9 30.6	0.884	1.301	50.6	18.8	87 W	48*	54*
5 6	20 52.90	+12 15.4	0.869	1.288	51.4	18.7	86 W	50*	52
5 11	21 9.47	+14 57.6	0.856	1.276	52.1	18.7	86 W	52*	49
5 16	21 25.90	+17 35.0	0.847	1.267	52.7	18.7	85 W	54*	46
5 21	21 42.16	+20 5.8	0.840	1.259	53.2	18.7	85 W	55*	44
5 26	21 58.22	+22 28.4	0.834	1.253	53.6	18.7	85 W	57*	42
5 31	22 14.07	+24 41.8	0.830	1.250	53.9	18.7	85 W	59*	39
6 5	22 29.64	+26 45.2	0.827	1.248	54.0	18.6	85 W	60*	37
6 10	22 44.90	+28 37.9	0.824	1.249	54.1	18.6	85 W	62*	35
6 15	22 59.80	+30 19.6	0.822	1.251	54.0	18.6	85 W	64*	34
6 20	23 14.28	+31 49.9	0.819	1.256	53.8	18.6	86 W	66*	32
6 25	23 28.31	+33 8.8	0.816	1.263	53.4	18.6	86 W	68*	31
6 30	23 41.82	+34 16.5	0.812	1.272	53.0	18.6	87 W	70*	30
7 5	23 54.73	+35 13.0	0.807	1.283	52.4	18.6	89 W	72*	29
7 10	0 6.96	+35 58.4	0.801	1.295	51.7	18.6	90 W	74*	28
7 15	0 18.42	+36 32.5	0.793	1.309	50.9	18.6	92 W	76*	27
7 20	0 29.04	+36 55.4	0.785	1.325	49.9	18.5	94 W	79*	27
7 25	0 38.73	+37 6.8	0.775	1.343	48.8	18.5	96 W	81*	27
7 30	0 47.41	+37 6.7	0.764	1.362	47.4	18.5	99 W	82*	27
8 4	0 54.98	+36 54.6	0.752	1.382	45.9	18.4	102 W	82	27
8 9	1 1.35	+36 30.0	0.740	1.403	44.2	18.4	105 W	81	28
8 14	1 6.45	+35 51.9	0.727	1.426	42.2	18.3	109 W	81	28
8 19	1 10.24	+34 59.6	0.714	1.449	40.0	18.3	113 W	80	29
8 24	1 12.70	+33 52.4	0.701	1.474	37.4	18.2	118 W	79	30
8 29	1 13.83	+32 29.5	0.689	1.499	34.6	18.1	123 W	77	32
9 3	1 13.67	+30 50.3	0.680	1.524	31.4	18.0	128 W	76	33
9 8	1 12.32	+28 54.6	0.672	1.551	27.9	17.9	134 W	74	35
9 13	1 9.94	+26 43.1	0.668	1.578	24.2	17.8	140 W	72	37
9 18	1 6.73	+24 17.7	0.668	1.605	20.2	17.8	147 W	69	40
9 23	1 2.95	+21 41.3	0.672	1.632	16.0	17.7	153 W	67	42
9 28	0 58.84	+18 58.0	0.682	1.660	11.8	17.6	160 W	64	45
10 3	0 54.65	+16 12.2	0.699	1.689	7.8	17.5	167 W	61	48
10 8	0 50.63	+13 29.1	0.721	1.717	4.5	17.5	172 E	58	51
10 13	0 47.01	+10 53.4	0.751	1.745	4.0	17.6	173 E	56	53
10 18	0 43.94	+ 8 29.2	0.787	1.774	6.5	17.8	168 E	53	56
10 23	0 41.54	+ 6 18.9	0.829	1.802	9.6	18.1	162 E	51	58
10 28	0 39.87	+ 4 24.3	0.877	1.831	12.5	18.4	156 E	49	60
11 2	0 38.95	+ 2 45.8	0.930	1.860	15.2	18.6	151 E	48	61
11 12	0 39.38	+ 0 15.5	1.053	1.916	19.6	19.1	139 E	45	64
11 22	0 42.62	− 1 19.2	1.192	1.973	22.7	19.5	129 E	44	65
12 2	0 48.22	− 2 9.3	1.344	2.029	24.8	19.9	120 E	43	66
12 7	0 51.79	− 2 20.8	1.424	2.056	25.5	20.1	116 E	43	66
12 12	0 55.82	− 2 24.8	1.507	2.084	26.0	20.3	112 E	43	66
12 17	1 0.24	− 2 22.2	1.591	2.111	26.3	20.4	108 E	43	66
12 22	1 5.02	− 2 14.2	1.676	2.138	26.5	20.6	104 E	43	66*
12 27	1 10.11	− 2 1.4	1.763	2.164	26.6	20.7	100 E	43	65*
1 1	1 15.50	− 1 44.6	1.851	2.191	26.5	20.8	96 E	43	63*
1 6	1 21.15	− 1 24.4	1.939	2.217	26.3	21.0	93 E	44	61*
1 11	1 27.03	− 1 1.3	2.028	2.243	26.0	21.1	89 E	44	59*
1 16	1 33.13	− 0 35.8	2.116	2.268	25.6	21.2	86 E	44	57*
1 21	1 39.40	− 0 8.5	2.205	2.294	25.2	21.3	82 E	45	54*
41074 1999 VL_{40}									
12 27	14 23.47	−30 23.0	2.063	1.675	28.1	18.1	53 W	13*	46*
1 6	14 50.09	−32 22.3	2.019	1.700	29.1	18.2	57 W	12*	51*
1 16	15 16.21	−34 1.3	1.971	1.728	29.9	18.2	61 W	11*	55*
1 26	15 41.50	−35 20.1	1.918	1.758	30.7	18.2	66 W	9*	60*
1 31	15 53.71	−35 52.1	1.890	1.773	31.0	18.2	68 W	9*	62*
2 5	16 5.59	−36 19.4	1.860	1.789	31.3	18.1	70 W	9*	64*
2 10	16 17.06	−36 42.1	1.829	1.806	31.5	18.1	73 W	8*	66*
2 15	16 28.07	−37 0.5	1.797	1.822	31.7	18.1	76 W	8*	68*
2 20	16 38.57	−37 14.8	1.763	1.839	31.8	18.1	78 W	8*	71*
2 25	16 48.49	−37 25.1	1.728	1.856	31.8	18.1	81 W	8*	73*
3 2	16 57.80	−37 31.7	1.693	1.874	31.8	18.1	84 W	7*	75*
3 7	17 6.43	−37 35.0	1.656	1.891	31.6	18.0	87 W	7*	76*
3 12	17 14.32	−37 35.0	1.619	1.909	31.4	18.0	91 W	7*	78*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
41074 1999 VL_{40} *(continuation)*									
3 17	17 21.40	−37 32.1	1.581	1.927	31.0	17.9	94 W	7*	78*
3 22	17 27.61	−37 26.3	1.543	1.945	30.5	17.9	98 W	8	79
3 27	17 32.90	−37 17.8	1.504	1.963	29.9	17.8	101 W	8	79
4 1	17 37.22	−37 6.6	1.466	1.982	29.1	17.8	105 W	8	79
4 6	17 40.50	−36 52.7	1.429	2.000	28.1	17.7	110 W	8	79
4 16	17 43.74	−36 16.4	1.357	2.037	25.7	17.6	118 W	9	80
4 26	17 42.38	−35 26.9	1.294	2.074	22.4	17.4	128 W	10	81
5 6	17 36.52	−34 21.1	1.243	2.111	18.2	17.2	139 W	11	82
5 11	17 32.04	−33 41.0	1.223	2.129	15.9	17.1	145 W	11	82
5 16	17 26.71	−32 55.8	1.209	2.148	13.3	17.0	151 W	12	83
5 21	17 20.71	−32 5.5	1.200	2.166	10.7	16.9	157 W	13	84
5 26	17 14.24	−31 10.3	1.197	2.184	8.0	16.8	163 W	14	85
5 31	17 7.55	−30 11.1	1.200	2.203	5.3	16.7	168 W	15	86
6 5	17 0.85	−29 8.6	1.210	2.221	3.2	16.7	173 W	16	87
6 10	16 54.38	−28 4.2	1.227	2.239	2.9	16.7	173 E	17	88
6 15	16 48.34	−26 59.3	1.251	2.256	4.8	16.9	169 E	18	89
6 20	16 42.90	−25 55.3	1.281	2.274	7.2	17.0	164 E	19	90
6 25	16 38.18	−24 53.5	1.318	2.292	9.6	17.2	158 E	20	89
6 30	16 34.26	−23 55.0	1.360	2.309	11.8	17.4	152 E	21	88
7 5	16 31.18	−23 0.6	1.409	2.327	13.9	17.6	147 E	22	87
7 15	16 27.57	−21 26.0	1.521	2.361	17.4	17.9	136 E	24	85
7 25	16 27.22	−20 11.2	1.649	2.394	20.0	18.2	126 E	25	84
8 4	16 29.76	−19 14.8	1.790	2.427	21.8	18.4	117 E	26*	83
8 14	16 34.80	−18 33.8	1.940	2.459	23.0	18.7	109 E	26*	83
8 24	16 41.96	−18 5.0	2.097	2.490	23.5	18.9	101 E	26*	82
9 3	16 50.87	−17 45.0	2.257	2.521	23.6	19.1	93 E	26*	82*
9 13	17 1.25	−17 30.6	2.418	2.550	23.2	19.2	86 E	25*	77*
9 23	17 12.86	−17 19.4	2.578	2.579	22.4	19.4	79 E	25*	71*
10 3	17 25.46	−17 8.9	2.734	2.607	21.4	19.5	72 E	25*	64*
10 13	17 38.90	−16 57.5	2.886	2.634	20.2	19.6	66 E	24*	57*
10 23	17 53.01	−16 43.4	3.031	2.660	18.7	19.7	59 E	24*	50*
11 2	18 7.66	−16 25.5	3.168	2.685	17.1	19.8	53 E	23*	43*
11 12	18 22.72	−16 2.7	3.295	2.709	15.4	19.8	46 E	22*	36*
11 22	18 38.07	−15 34.3	3.410	2.732	13.5	19.8	40 E	21*	29*
12 2	18 53.62	−14 59.7	3.514	2.754	11.6	19.8	34 E	20*	21*
12 12	19 9.28	−14 18.6	3.604	2.776	9.6	19.8	28 E	17*	14*
12 22	19 24.93	−13 30.7	3.680	2.796	7.7	19.8	22 E	14*	7*
1 1	19 40.52	−12 36.0	3.741	2.815	5.8	19.8	17 E	11*	1*
1 11	19 55.96	−11 34.5	3.787	2.833	4.2	19.7	12 E	6*	—
1 21	20 11.17	−10 26.5	3.816	2.850	3.3	19.7	10 W	1*	—
47581 2000 AN_{178}									
12 27	14 24.24	−14 4.2	3.017	2.616	18.4	20.8	57 W	29*	42*
1 6	14 38.37	−14 56.7	2.878	2.597	19.8	20.8	64 W	30*	49*
1 16	14 51.95	−15 41.4	2.731	2.576	21.1	20.7	71 W	29*	57*
1 26	15 4.80	−16 17.4	2.579	2.555	22.1	20.6	78 W	29	65*
2 5	15 16.70	−16 43.9	2.423	2.533	22.8	20.4	85 W	28	73*
2 15	15 27.39	−17 0.3	2.266	2.511	23.1	20.3	92 W	28	79*
2 25	15 36.55	−17 5.9	2.110	2.487	23.0	20.1	100 W	28	81
3 7	15 43.85	−16 59.9	1.957	2.462	22.4	19.9	109 W	28	81
3 17	15 48.91	−16 41.7	1.811	2.437	21.2	19.7	118 W	28	81
3 27	15 51.34	−16 10.7	1.675	2.411	19.3	19.4	127 W	29	80
4 6	15 50.84	−15 26.6	1.552	2.384	16.6	19.1	137 W	30	79
4 16	15 47.23	−14 29.6	1.446	2.356	13.2	18.8	148 W	31	78
4 26	15 40.67	−13 21.5	1.361	2.328	9.0	18.5	159 W	32	77
5 1	15 36.43	−12 44.4	1.327	2.313	6.8	18.3	164 W	32	77
5 6	15 31.70	−12 6.1	1.300	2.299	4.6	18.2	169 W	33	76
5 11	15 26.60	−11 27.3	1.279	2.284	3.2	18.0	173 W	34	75
5 16	15 21.30	−10 49.1	1.264	2.269	3.8	18.0	171 E	34	75
5 21	15 15.98	−10 12.6	1.256	2.254	5.8	18.1	167 E	35	74
5 26	15 10.82	− 9 38.5	1.255	2.239	8.2	18.2	162 E	35	74
5 31	15 5.98	− 9 7.9	1.259	2.223	10.7	18.3	156 E	36	73
6 5	15 1.60	− 8 41.5	1.269	2.208	13.2	18.4	150 E	36	73
6 15	14 54.73	− 8 3.4	1.305	2.177	17.8	18.6	139 E	37	72
6 25	14 50.90	− 7 46.6	1.357	2.145	21.7	18.8	129 E	37	72
7 5	14 50.33	− 7 50.5	1.421	2.114	24.8	18.9	119 E	37*	72
7 15	14 53.00	− 8 12.9	1.493	2.082	27.2	19.1	111 E	35*	72
7 25	14 58.71	− 8 50.8	1.570	2.049	28.9	19.2	103 E	33*	73
8 4	15 7.17	− 9 40.7	1.649	2.017	30.0	19.3	95 E	31*	74
8 14	15 18.13	−10 39.2	1.728	1.985	30.7	19.4	89 E	29*	74*
8 24	15 31.34	−11 43.2	1.805	1.954	30.9	19.5	83 E	27*	72*
9 3	15 46.58	−12 49.8	1.879	1.922	30.8	19.5	77 E	25*	68*
9 13	16 3.71	−13 56.0	1.949	1.891	30.3	19.5	72 E	24*	64*
9 23	16 22.57	−14 59.3	2.015	1.861	29.7	19.6	67 E	23*	59*
10 3	16 43.02	−15 56.8	2.077	1.832	28.8	19.6	62 E	22*	54*
10 13	17 4.97	−16 46.2	2.133	1.803	27.8	19.6	57 E	21*	50*
10 23	17 28.26	−17 25.0	2.185	1.776	26.6	19.5	53 E	21*	45*
11 2	17 52.76	−17 51.0	2.233	1.751	25.3	19.5	49 E	20*	40*
11 12	18 18.33	−18 2.2	2.277	1.727	24.0	19.5	45 E	20*	36*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
47581 2000 AN_{178} *(continuation)*									
11 22	18 44.79	−17 56.9	2.316	1.705	22.5	19.5	41 E	20*	31*
12 2	19 11.94	−17 34.1	2.353	1.685	21.0	19.4	38 E	19*	26*
12 12	19 39.61	−16 53.1	2.386	1.667	19.4	19.4	34 E	19*	22*
12 22	20 7.60	−15 53.8	2.417	1.651	17.8	19.3	31 E	18*	18*
1 1	20 35.73	−14 36.9	2.446	1.638	16.1	19.3	28 E	17*	14*
1 11	21 3.85	−13 3.4	2.473	1.628	14.4	19.2	24 E	15*	10*
1 21	21 31.85	−11 15.1	2.499	1.621	12.7	19.2	21 E	13*	7*
7822 1991 *CS*									
12 27	14 24.54	− 5 0.5	1.348	1.213	44.8	20.2	60 W	38*	38*
1 6	14 57.00	− 3 9.6	1.300	1.233	45.6	20.2	64 W	41*	40*
1 16	15 29.53	− 0 51.7	1.253	1.252	46.2	20.1	67 W	43*	42*
1 26	16 1.93	+ 1 53.6	1.209	1.268	46.8	20.1	70 W	46*	43*
2 5	16 34.04	+ 5 4.2	1.168	1.281	47.2	20.1	72 W	49*	44*
2 10	16 49.91	+ 6 48.1	1.150	1.287	47.4	20.0	74 W	50*	44*
2 15	17 5.61	+ 8 37.0	1.133	1.292	47.5	20.0	75 W	52*	44*
2 20	17 21.12	+10 30.1	1.117	1.296	47.7	20.0	76 W	53*	44*
2 25	17 36.41	+12 26.6	1.103	1.300	47.8	20.0	77 W	55*	43*
3 2	17 51.47	+14 25.6	1.089	1.303	47.9	20.0	77 W	56*	43*
3 7	18 6.27	+16 26.4	1.077	1.305	48.1	19.9	78 W	58*	42*
3 12	18 20.79	+18 28.2	1.066	1.307	48.2	19.9	79 W	59*	41*
3 17	18 35.02	+20 30.3	1.056	1.308	48.4	19.9	79 W	61*	40*
3 22	18 48.93	+22 31.7	1.046	1.308	48.5	19.9	80 W	62*	39*
3 27	19 2.54	+24 31.8	1.036	1.307	48.7	19.9	80 W	63*	37*
4 1	19 15.84	+26 30.1	1.026	1.306	48.9	19.9	80 W	65*	36*
4 6	19 28.83	+28 26.0	1.017	1.304	49.2	19.9	81 W	66*	35*
4 11	19 41.51	+30 19.3	1.006	1.301	49.5	19.8	81 W	67*	33*
4 16	19 53.89	+32 9.5	0.995	1.298	49.8	19.8	81 W	68*	32*
4 21	20 5.97	+33 56.3	0.984	1.294	50.1	19.8	81 W	69*	30*
4 26	20 17.78	+35 39.3	0.970	1.289	50.5	19.8	81 W	70*	28*
5 1	20 29.34	+37 18.6	0.956	1.284	50.9	19.7	82 W	70*	27
5 6	20 40.67	+38 54.1	0.940	1.278	51.4	19.7	82 W	71*	25
5 11	20 51.79	+40 25.6	0.922	1.271	51.9	19.7	82 W	72*	24
5 16	21 2.72	+41 53.1	0.902	1.263	52.5	19.6	82 W	73*	22
5 21	21 13.51	+43 16.3	0.880	1.255	53.1	19.6	83 W	74*	21
5 26	21 24.20	+44 35.1	0.856	1.247	53.8	19.5	83 W	75*	19
5 31	21 34.86	+45 49.5	0.829	1.237	54.5	19.4	84 W	76*	18
6 5	21 45.53	+46 59.5	0.800	1.228	55.3	19.4	84 W	77*	17
6 10	21 56.30	+48 4.8	0.769	1.217	56.2	19.3	85 W	78*	16
6 15	22 7.23	+49 5.1	0.735	1.206	57.1	19.2	85 W	79*	15
6 20	22 18.47	+49 59.7	0.699	1.195	58.0	19.1	86 W	80*	14
6 25	22 30.17	+50 48.1	0.661	1.183	59.1	19.0	87 W	81*	13
6 30	22 42.53	+51 29.7	0.620	1.171	60.2	18.9	88 W	82*	13
7 5	22 55.77	+52 3.4	0.578	1.159	61.3	18.7	89 W	82*	12
7 10	23 10.19	+52 27.0	0.533	1.146	62.6	18.6	90 W	82*	12
7 15	23 26.20	+52 37.6	0.487	1.133	63.8	18.4	91 W	82*	11
7 17	23 33.17	+52 37.3	0.467	1.127	64.4	18.3	91 W	82*	11
7 19	23 40.53	+52 33.6	0.448	1.122	64.9	18.2	92 W	82	11
7 21	23 48.31	+52 26.3	0.429	1.117	65.4	18.1	92 W	83	12
7 23	23 56.58	+52 14.7	0.409	1.111	66.0	18.0	92 W	83	12
7 25	0 5.39	+51 58.1	0.390	1.106	66.6	17.9	93 W	83	12
7 27	0 14.79	+51 35.5	0.370	1.100	67.1	17.8	93 W	83	12
7 29	0 24.86	+51 5.8	0.350	1.095	67.7	17.7	94 W	84	13
7 31	0 35.66	+50 27.4	0.330	1.089	68.3	17.6	94 W	85	14
8 2	0 47.27	+49 38.5	0.311	1.084	69.0	17.5	94 W	85	14
8 4	0 59.74	+48 36.7	0.291	1.079	69.6	17.3	95 W	86	15
8 6	1 13.15	+47 18.9	0.272	1.073	70.3	17.2	95 W	88	17
8 8	1 27.55	+45 41.3	0.253	1.068	71.0	17.0	95 W	89*	18
8 10	1 42.99	+43 39.1	0.235	1.063	71.7	16.9	96 W	88*	20
8 12	1 59.48	+41 6.5	0.217	1.057	72.5	16.7	96 W	85*	23
8 14	2 17.00	+37 56.6	0.200	1.052	73.4	16.6	96 W	82*	26
8 15	2 26.13	+36 5.3	0.193	1.049	73.9	16.5	96 W	80*	28
8 16	2 35.50	+34 1.9	0.185	1.047	74.4	16.4	95 W	78*	30
8 17	2 45.08	+31 45.5	0.178	1.044	74.9	16.4	95 W	75*	32
8 18	2 54.86	+29 15.4	0.172	1.041	75.5	16.3	95 W	73*	35
8 19	3 4.82	+26 31.1	0.166	1.039	76.1	16.2	95 W	70*	37
8 20	3 14.92	+23 32.5	0.161	1.036	76.8	16.2	94 W	67*	40
8 21	3 25.15	+20 19.8	0.156	1.034	77.5	16.1	94 W	63*	44
8 22	3 35.47	+16 54.1	0.152	1.031	78.3	16.1	93 W	60*	47
8 23	3 45.84	+13 16.8	0.149	1.029	79.1	16.1	93 W	56*	51
8 24	3 56.24	+ 9 30.1	0.147	1.026	80.0	16.1	92 W	52*	54
8 25	4 6.63	+ 5 37.1	0.146	1.024	80.8	16.1	91 W	48*	58
8 26	4 16.97	+ 1 40.8	0.145	1.021	81.7	16.1	90 W	43*	62*
8 27	4 27.24	− 2 15.2	0.146	1.019	82.6	16.2	89 W	39*	66*
8 28	4 37.40	− 6 7.4	0.148	1.016	83.4	16.2	88 W	35*	70*
8 29	4 47.41	− 9 52.7	0.150	1.014	84.2	16.3	87 W	31*	73*
8 30	4 57.27	−13 28.4	0.153	1.012	84.9	16.3	86 W	28*	75*
8 31	5 6.93	−16 52.6	0.158	1.009	85.6	16.4	85 W	24*	77*
9 1	5 16.38	−20 4.0	0.162	1.007	86.2	16.5	85 W	21*	78*
9 2	5 25.61	−23 1.8	0.168	1.005	86.7	16.6	84 W	18*	78*
9 3	5 34.60	−25 45.9	0.174	1.002	87.2	16.7	83 W	15*	77*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7822 1991 *CS* *(continuation)*									
9 5	5 51.82	−30 34.3	0.188	0.998	87.8	16.9	81 W	10*	74*
9 7	6 8.01	−34 33.8	0.203	0.993	88.2	17.0	80 W	6*	71*
9 9	6 23.16	−37 51.5	0.219	0.989	88.4	17.2	79 W	2*	68*
9 11	6 37.30	−40 34.3	0.237	0.985	88.4	17.4	78 W	—	65*
9 13	6 50.48	−42 48.4	0.255	0.981	88.3	17.5	77 W	—	63*
9 15	7 2.76	−44 39.2	0.273	0.977	88.0	17.6	76 W	—	61*
9 17	7 14.23	−46 11.1	0.292	0.974	87.7	17.8	75 W	—	59*
9 19	7 24.94	−47 27.6	0.311	0.970	87.3	17.9	75 W	—	58*
9 21	7 34.98	−48 31.5	0.330	0.967	86.8	18.0	74 W	—	56*
9 23	7 44.42	−49 25.0	0.349	0.963	86.3	18.1	73 W	—	55*
9 25	7 53.30	−50 10.0	0.368	0.960	85.8	18.2	73 W	—	55*
9 27	8 1.71	−50 47.8	0.387	0.957	85.2	18.2	72 W	—	54*
9 29	8 9.68	−51 19.7	0.405	0.955	84.7	18.3	72 W	—	53*
10 1	8 17.25	−51 46.5	0.423	0.952	84.1	18.4	71 W	—	53*
10 3	8 24.49	−52 9.0	0.441	0.950	83.5	18.4	71 W	—	53*
10 5	8 31.41	−52 27.8	0.459	0.948	82.8	18.5	70 W	—	52*
10 7	8 38.06	−52 43.5	0.476	0.946	82.2	18.5	70 W	—	52*
10 9	8 44.46	−52 56.3	0.492	0.944	81.6	18.6	69 W	—	52*
10 11	8 50.64	−53 6.6	0.509	0.943	81.0	18.6	69 W	—	52*
10 13	8 56.63	−53 14.7	0.524	0.941	80.4	18.7	68 W	—	52*
10 18	9 10.91	−53 27.0	0.561	0.939	78.9	18.8	68 W	—	51*
10 23	9 24.45	−53 29.9	0.594	0.938	77.4	18.8	67 W	—	52*
10 28	9 37.45	−53 25.8	0.623	0.938	76.1	18.9	66 W	—	52*
11 2	9 50.06	−53 16.1	0.648	0.940	74.8	18.9	66 W	—	52*
11 7	10 2.39	−53 1.6	0.668	0.943	73.7	19.0	66 W	—	53*
11 12	10 14.51	−52 42.8	0.683	0.948	72.7	19.0	66 W	—	54*
11 17	10 26.50	−52 19.8	0.694	0.954	71.8	19.0	66 W	—	55*
11 22	10 38.42	−51 52.9	0.700	0.961	71.0	19.0	67 W	—	56*
12 2	11 2.18	−50 46.7	0.697	0.978	69.9	19.0	69 W	—	58*
12 12	11 25.81	−49 20.3	0.676	0.998	69.0	19.0	71 W	—	61*
12 22	11 49.35	−47 24.7	0.638	1.022	68.2	18.9	75 W	—	65*
12 27	12 1.06	−46 12.1	0.613	1.034	67.8	18.8	77 W	—	67*
1 1	12 12.68	−44 46.3	0.585	1.047	67.3	18.7	79 W	—	69*
1 6	12 24.16	−43 3.9	0.555	1.060	66.7	18.6	82 W	2	72*
1 11	12 35.44	−41 0.2	0.522	1.074	65.9	18.5	85 W	4	74*
1 16	12 46.48	−38 29.5	0.487	1.087	64.8	18.3	89 W	7	77*
1 21	12 57.22	−35 24.7	0.451	1.101	63.3	18.1	93 W	10	81
1565 Lemaître									
12 27	14 24.55	−30 6.2	3.692	3.202	14.2	18.8	53 W	14*	46*
1 6	14 36.21	−31 12.1	3.566	3.194	15.5	18.7	60 W	14*	54*
1 16	14 47.05	−32 14.9	3.429	3.186	16.6	18.7	68 W	13*	61*
1 26	14 56.84	−33 14.1	3.284	3.177	17.4	18.6	75 W	12	69*
2 5	15 5.33	−34 9.2	3.133	3.166	18.0	18.5	83 W	11	76*
2 15	15 12.24	−34 59.6	2.979	3.155	18.2	18.4	91 W	10	81*
2 25	15 17.23	−35 44.2	2.824	3.143	18.1	18.3	99 W	9	80
3 7	15 19.99	−36 21.5	2.673	3.129	17.5	18.1	108 W	9	80
3 17	15 20.21	−36 49.4	2.528	3.115	16.5	18.0	117 W	8	79
3 27	15 17.68	−37 4.7	2.394	3.100	14.9	17.8	127 W	8	79
4 6	15 12.37	−37 3.9	2.276	3.083	12.8	17.6	137 W	8	79
4 11	15 8.74	−36 56.2	2.224	3.075	11.6	17.5	142 W	8	79
4 16	15 4.52	−36 43.0	2.178	3.066	10.4	17.4	147 W	8	79
4 21	14 59.81	−36 23.9	2.137	3.057	9.1	17.3	151 W	9	80
4 26	14 54.72	−35 58.9	2.103	3.048	7.8	17.2	156 W	9	80
5 1	14 49.38	−35 28.0	2.075	3.038	6.8	17.1	159 W	10	81
5 6	14 43.92	−34 51.3	2.055	3.028	6.1	17.0	162 E	10	81
5 11	14 38.49	−34 9.4	2.041	3.018	5.9	17.0	162 E	11	82
5 16	14 33.22	−33 22.9	2.035	3.008	6.4	17.0	161 E	12	83
5 21	14 28.26	−32 32.7	2.036	2.998	7.3	17.1	158 E	12	83
5 26	14 23.72	−31 40.1	2.044	2.987	8.6	17.1	154 E	13	84
5 31	14 19.69	−30 45.9	2.059	2.976	10.0	17.2	149 E	14	85
6 5	14 16.24	−29 51.4	2.079	2.965	11.5	17.3	145 E	15	86
6 10	14 13.43	−28 57.5	2.106	2.953	12.9	17.3	140 E	16	87
6 15	14 11.28	−28 5.2	2.138	2.942	14.2	17.4	135 E	17	88
6 25	14 9.03	−26 28.4	2.216	2.917	16.6	17.5	125 E	18*	90
7 5	14 9.40	−25 5.1	2.308	2.892	18.5	17.7	115 E	18*	89
7 15	14 12.23	−23 57.3	2.411	2.866	19.9	17.8	106 E	17*	88
7 25	14 17.27	−23 5.2	2.519	2.839	20.8	17.9	98 E	16*	87
8 4	14 24.25	−22 27.6	2.630	2.811	21.2	18.0	90 E	15*	83*
8 14	14 32.95	−22 2.8	2.740	2.782	21.1	18.0	82 E	14*	76*
8 24	14 43.18	−21 48.8	2.846	2.752	20.7	18.1	74 E	13*	68*
9 3	14 54.76	−21 43.3	2.947	2.721	20.0	18.1	67 E	12*	61*
9 13	15 7.55	−21 44.1	3.040	2.689	19.0	18.1	60 E	11*	54*
9 23	15 21.43	−21 49.2	3.123	2.657	17.7	18.1	54 E	10*	48*
10 3	15 36.30	−21 56.5	3.196	2.623	16.3	18.1	47 E	9*	41*
10 13	15 52.10	−22 4.3	3.257	2.589	14.7	18.1	41 E	8*	35*
10 23	16 8.72	−22 10.5	3.305	2.554	12.9	18.0	35 E	8*	29*
11 2	16 26.11	−22 13.6	3.340	2.518	11.0	17.9	29 E	7*	22*
11 12	16 44.20	−22 12.0	3.362	2.481	9.0	17.8	23 E	5*	16*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		1565 Lemaître				*(continuation)*			
	h m	° ′			°	m	°	°	°
11 22	17 2.92	−22 4.0	3.369	2.443	6.9	17.7	17 E	4*	10*
12 2	17 22.19	−21 48.3	3.363	2.405	4.7	17.5	12 E	2*	4*
12 12	17 41.95	−21 23.6	3.342	2.366	2.6	17.4	6 E	—	—
12 22	18 2.11	−20 48.6	3.309	2.327	1.1	17.2	3 E	—	—
1 1	18 22.60	−20 2.4	3.263	2.287	2.5	17.2	6 W	—	—
1 11	18 43.34	−19 3.8	3.204	2.246	4.8	17.3	11 W	3*	2*
1 21	19 4.26	−17 52.3	3.135	2.205	7.1	17.3	16 W	6*	7*
		397236 2006 KS_{105}							
12 27	14 24.79	−29 27.0	2.071	1.679	28.0	20.5	53 W	14*	46*
1 6	14 51.36	−31 14.5	2.027	1.705	28.9	20.6	57 W	13*	50*
1 16	15 17.31	−32 41.5	1.979	1.734	29.8	20.6	61 W	12*	55*
1 26	15 42.31	−33 48.0	1.926	1.765	30.6	20.6	66 W	11*	60*
2 5	16 6.00	−34 34.8	1.867	1.797	31.1	20.6	71 W	10*	64*
2 15	16 27.98	−35 3.2	1.803	1.831	31.5	20.5	76 W	10*	69*
2 25	16 47.82	−35 14.6	1.735	1.867	31.6	20.5	82 W	10*	74*
3 2	16 56.82	−35 14.5	1.699	1.885	31.6	20.5	85 W	10*	76*
3 7	17 5.13	−35 10.9	1.663	1.904	31.4	20.4	88 W	10*	78*
3 12	17 12.69	−35 4.0	1.626	1.923	31.1	20.4	91 W	10*	80*
3 17	17 19.45	−34 53.8	1.588	1.942	30.7	20.4	95 W	10*	81*
3 27	17 30.32	−34 24.5	1.512	1.980	29.5	20.3	102 W	11	82
4 6	17 37.36	−33 43.7	1.438	2.019	27.6	20.1	111 W	11	82
4 16	17 40.19	−32 51.0	1.368	2.059	25.0	20.0	120 W	12	83
4 26	17 38.62	−31 45.2	1.307	2.098	21.6	19.8	130 W	13	84
5 6	17 32.83	−30 24.5	1.259	2.138	17.4	19.7	141 W	15	86
5 11	17 28.51	−29 38.1	1.242	2.158	14.9	19.6	147 W	15	86
5 16	17 23.41	−28 47.7	1.230	2.178	12.3	19.5	153 W	16	87
5 21	17 17.71	−27 53.7	1.224	2.198	9.6	19.4	159 W	17	88
5 26	17 11.60	−26 56.5	1.223	2.217	6.8	19.3	165 W	18	89
5 31	17 5.31	−25 57.0	1.230	2.237	4.0	19.2	171 W	19	90
6 5	16 59.02	−24 56.2	1.243	2.257	1.3	19.0	177 W	20	89
6 10	16 52.96	−23 55.3	1.263	2.276	2.0	19.1	175 E	21	88
6 15	16 47.31	−22 55.5	1.289	2.296	4.6	19.4	169 E	22	87
6 20	16 42.22	−21 58.0	1.323	2.315	7.2	19.6	163 E	23	86
6 25	16 37.80	−21 3.8	1.362	2.334	9.6	19.7	157 E	24	85
7 5	16 31.23	−19 28.1	1.459	2.372	13.8	20.1	146 E	26	83
7 15	16 27.85	−18 11.5	1.576	2.410	17.2	20.4	136 E	27	82
7 25	16 27.54	−17 14.3	1.709	2.446	19.7	20.7	126 E	28	81
8 4	16 29.99	−16 34.0	1.855	2.483	21.4	21.0	117 E	28*	81
8 14	16 34.83	−16 7.5	2.010	2.518	22.5	21.2	108 E	28*	80
8 24	16 41.73	−15 51.6	2.171	2.553	22.9	21.4	100 E	28*	80
		278462 2007 TD_{160}							
12 27	14 25.25	−18 17.7	2.864	2.446	19.4	21.2	56 W	25*	43*
1 6	14 41.84	−19 22.1	2.719	2.413	21.0	21.1	62 W	25*	50*
1 16	14 58.28	−20 19.0	2.569	2.379	22.5	21.0	68 W	25*	57*
1 26	15 14.41	−21 7.2	2.414	2.345	23.8	20.9	74 W	24	65*
2 5	15 30.09	−21 45.8	2.257	2.310	24.9	20.7	81 W	23	72*
2 15	15 45.10	−22 13.9	2.098	2.275	25.7	20.6	87 W	23	79*
2 25	15 59.17	−22 30.5	1.941	2.240	26.2	20.4	94 W	22	86*
3 7	16 12.02	−22 34.8	1.786	2.204	26.2	20.2	101 W	22	87
3 17	16 23.27	−22 25.7	1.635	2.168	25.8	19.9	109 W	23	86
3 27	16 32.50	−22 2.1	1.491	2.132	24.8	19.7	116 W	23	86
4 6	16 39.29	−21 23.1	1.357	2.096	23.1	19.4	125 W	24	85
4 16	16 43.15	−20 27.4	1.234	2.060	20.6	19.0	134 W	25	84
4 26	16 43.73	−19 14.2	1.125	2.025	17.2	18.7	144 W	26	83
5 6	16 40.91	−17 43.9	1.034	1.990	12.9	18.3	154 W	27	82
5 16	16 34.88	−15 58.7	0.962	1.955	8.0	17.9	164 W	29	80
5 21	16 30.92	−15 2.2	0.935	1.938	5.6	17.7	169 W	30	79
5 26	16 26.52	−14 4.6	0.913	1.922	4.2	17.6	172 W	31	78
5 31	16 21.88	−13 7.1	0.897	1.905	4.8	17.6	171 E	32	77
6 5	16 17.19	−12 11.1	0.887	1.889	7.0	17.6	167 E	33	76
6 10	16 12.66	−11 18.2	0.882	1.873	9.9	17.7	162 E	34	75
6 15	16 8.51	−10 29.6	0.882	1.857	12.8	17.8	156 E	35	74
6 20	16 4.95	− 9 46.7	0.887	1.841	15.7	17.9	151 E	35	74
6 25	16 2.10	− 9 10.1	0.897	1.826	18.5	18.0	145 E	36	73
7 5	15 58.99	− 8 17.7	0.927	1.797	23.5	18.2	135 E	37	72
7 15	15 59.71	− 7 53.1	0.970	1.770	27.7	18.4	126 E	37	72
7 25	16 4.35	− 7 53.4	1.021	1.745	31.0	18.6	118 E	37*	72
8 4	16 12.64	− 8 13.3	1.078	1.722	33.5	18.7	111 E	36*	72
8 14	16 24.28	− 8 47.5	1.140	1.701	35.3	18.9	104 E	35*	73
8 24	16 38.90	− 9 30.3	1.204	1.683	36.5	19.0	99 E	34*	74
9 3	16 56.12	−10 16.7	1.269	1.668	37.1	19.1	93 E	33*	74*
9 13	17 15.63	−11 2.1	1.336	1.655	37.4	19.2	89 E	32*	74*
9 23	17 37.11	−11 42.1	1.405	1.646	37.4	19.3	85 E	32*	72*
10 3	18 0.24	−12 13.3	1.475	1.640	37.0	19.4	81 E	31*	69*
10 13	18 24.75	−12 32.7	1.547	1.638	36.4	19.5	77 E	31*	65*
10 23	18 50.32	−12 37.7	1.620	1.639	35.5	19.6	73 E	31*	61*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		278462 2007 TD_{160}				*(continuation)*			
	h m	° ′			°	m	°	°	°
11 2	19 16.67	−12 27.0	1.696	1.643	34.5	19.7	70 E	32*	57*
11 12	19 43.52	−11 59.6	1.775	1.651	33.3	19.7	66 E	32*	52*
11 22	20 10.60	−11 15.4	1.856	1.661	32.0	19.8	63 E	33*	48*
12 2	20 37.68	−10 15.3	1.939	1.675	30.6	19.9	60 E	33*	43*
12 12	21 4.59	− 9 0.4	2.026	1.692	29.0	19.9	56 E	34*	38*
12 22	21 31.15	− 7 32.4	2.114	1.711	27.3	20.0	53 E	34*	33*
1 1	21 57.28	− 5 53.6	2.204	1.733	25.5	20.1	49 E	34*	28*
1 11	22 22.93	− 4 5.9	2.295	1.758	23.7	20.1	46 E	33*	24*
1 21	22 48.06	− 2 11.9	2.386	1.784	21.8	20.2	42 E	32*	20*
		209924 2005 WS_{55}							
12 27	14 25.26	−34 2.4	1.652	1.313	36.5	19.3	53 W	10*	46*
1 6	14 57.01	−37 4.6	1.663	1.368	36.2	19.4	55 W	7*	49*
1 16	15 27.98	−39 32.2	1.668	1.426	36.0	19.5	58 W	5*	52*
1 26	15 57.69	−41 28.6	1.666	1.486	35.8	19.5	62 W	3*	55*
1 31	16 11.92	−42 16.3	1.661	1.516	35.8	19.6	64 W	2*	57*
2 5	16 25.66	−42 57.9	1.654	1.547	35.7	19.6	66 W	2*	58*
2 10	16 38.83	−43 34.0	1.645	1.577	35.6	19.6	68 W	1*	60*
2 15	16 51.38	−44 5.1	1.633	1.608	35.5	19.7	71 W	—	61*
2 20	17 3.24	−44 32.0	1.619	1.639	35.3	19.7	73 W	—	63*
2 25	17 14.35	−44 55.1	1.603	1.670	35.1	19.7	76 W	—	64*
3 2	17 24.65	−45 15.0	1.585	1.700	34.9	19.7	79 W	—	66*
3 7	17 34.09	−45 32.4	1.565	1.731	34.6	19.7	82 W	—	67*
3 12	17 42.61	−45 47.8	1.543	1.761	34.2	19.7	85 W	—	68*
3 17	17 50.12	−46 1.5	1.519	1.791	33.7	19.7	88 W	—	69*
3 22	17 56.55	−46 14.0	1.493	1.821	33.2	19.7	92 W	—	69*
3 27	18 1.86	−46 25.4	1.467	1.851	32.5	19.6	95 W	—	70*
4 1	18 5.96	−46 35.9	1.440	1.880	31.6	19.6	99 W	—	69
4 6	18 8.79	−46 45.5	1.412	1.909	30.7	19.6	103 W	—	69
4 11	18 10.26	−46 54.1	1.384	1.938	29.6	19.5	107 W	—	69
4 16	18 10.30	−47 1.2	1.357	1.966	28.3	19.5	112 W	—	69
4 21	18 8.86	−47 6.1	1.331	1.994	26.8	19.4	117 W	—	69
4 26	18 5.92	−47 8.0	1.307	2.022	25.2	19.4	121 W	—	69
5 1	18 1.51	−47 5.7	1.285	2.049	23.3	19.3	126 W	—	69
5 6	17 55.67	−46 58.1	1.266	2.076	21.4	19.2	131 W	—	69
5 11	17 48.51	−46 43.6	1.251	2.103	19.2	19.2	137 W	—	69
5 16	17 40.23	−46 20.9	1.240	2.129	17.0	19.1	142 W	—	70
5 21	17 31.11	−45 49.1	1.234	2.155	14.8	19.0	147 W	—	70
5 26	17 21.48	−45 7.6	1.234	2.180	12.6	19.0	152 W	—	71
5 31	17 11.67	−44 16.5	1.240	2.205	10.7	19.0	156 W	1	72
6 5	17 2.04	−43 16.4	1.252	2.230	9.3	18.9	159 W	2	73
6 10	16 52.90	−42 8.7	1.271	2.254	8.7	19.0	160 E	3	74
6 15	16 44.52	−40 55.3	1.298	2.277	8.9	19.1	160 E	4	75
6 20	16 37.10	−39 38.3	1.331	2.301	9.9	19.2	157 E	5	76
6 25	16 30.76	−38 19.9	1.370	2.324	11.3	19.3	153 E	7	78
6 30	16 25.54	−37 2.1	1.416	2.346	12.9	19.5	149 E	8	79
7 5	16 21.46	−35 46.4	1.468	2.368	14.6	19.6	144 E	9	80
7 10	16 18.46	−34 34.1	1.525	2.390	16.1	19.8	139 E	10	81
7 15	16 16.52	−33 26.2	1.587	2.411	17.5	19.9	134 E	12	83
7 20	16 15.56	−32 23.2	1.654	2.432	18.8	20.1	130 E	13	84
7 25	16 15.48	−31 25.5	1.725	2.452	19.8	20.2	125 E	14*	85
7 30	16 16.22	−30 32.9	1.798	2.472	20.8	20.4	120 E	14*	85
8 4	16 17.69	−29 45.4	1.875	2.492	21.5	20.5	116 E	15*	86
8 14	16 22.56	−28 24.4	2.036	2.529	22.5	20.7	107 E	16*	88
8 24	16 29.61	−27 19.7	2.203	2.565	22.9	21.0	99 E	16*	89
9 3	16 38.41	−26 27.9	2.373	2.600	22.8	21.1	91 E	17*	85*
9 13	16 48.63	−25 45.9	2.543	2.633	22.3	21.3	84 E	17*	78*
9 23	17 0.02	−25 10.7	2.712	2.664	21.5	21.4	77 E	17*	71*
		1134 Kepler							
12 27	14 25.86	−19 12.4	3.521	3.067	15.3	20.1	55 W	24*	43*
1 6	14 37.22	−20 37.5	3.354	3.025	16.7	20.0	62 W	24*	52*
1 16	14 48.08	−22 1.3	3.178	2.983	18.0	19.9	70 W	23*	60*
1 26	14 58.24	−23 24.2	2.997	2.939	19.1	19.8	77 W	22	69*
2 5	15 7.50	−24 46.4	2.812	2.895	19.8	19.6	85 W	20	78*
2 15	15 15.58	−26 8.1	2.625	2.849	20.3	19.5	93 W	19	87*
2 25	15 22.15	−27 29.7	2.441	2.803	20.3	19.3	101 W	18	89
3 7	15 26.84	−28 51.3	2.261	2.755	19.8	19.1	109 W	16	87
3 17	15 29.20	−30 12.4	2.089	2.707	18.9	18.8	118 W	15	86
3 27	15 28.78	−31 32.0	1.929	2.658	17.3	18.6	128 W	13	84
4 6	15 25.19	−32 47.6	1.784	2.608	15.2	18.3	137 W	12	83
4 16	15 18.14	−33 54.8	1.658	2.557	12.5	18.0	147 W	11	82
4 21	15 13.34	−34 23.6	1.604	2.531	11.0	17.8	151 W	11	82
4 26	15 7.76	−34 48.1	1.555	2.505	9.6	17.7	155 W	10	81
5 1	15 1.51	−35 7.6	1.512	2.478	8.4	17.6	159 W	10	81
5 6	14 54.72	−35 21.5	1.476	2.452	7.7	17.4	161 W	10	81
5 11	14 47.56	−35 29.2	1.446	2.425	7.6	17.4	162 E	10	81
5 16	14 40.26	−35 30.5	1.423	2.398	8.3	17.3	160 E	9	80
5 21	14 33.04	−35 25.9	1.406	2.372	9.6	17.3	157 E	10	81
5 26	14 26.12	−35 15.9	1.396	2.344	11.3	17.4	153 E	10	81

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	1134 Kepler *(continuation)*								
	h m	° ′			°	m	°	°	°
5 31	14 19.71	−35 1.2	1.392	2.317	13.2	17.4	148 E	10	81
6 5	14 13.99	−34 43.1	1.393	2.290	15.3	17.5	144 E	10	81
6 10	14 9.10	−34 22.7	1.399	2.262	17.3	17.5	139 E	11	82
6 15	14 5.16	−34 1.2	1.409	2.234	19.2	17.6	134 E	11	82
6 20	14 2.23	−33 40.0	1.424	2.207	21.0	17.6	129 E	11*	82
6 25	14 0.35	−33 20.1	1.441	2.179	22.8	17.7	124 E	11*	83
6 30	13 59.52	−33 2.2	1.461	2.151	24.3	17.7	119 E	11*	83
7 5	13 59.71	−32 47.0	1.483	2.123	25.7	17.8	115 E	10*	83
7 15	14 3.12	−32 26.4	1.532	2.067	28.1	17.8	107 E	9*	84
7 25	14 10.28	−32 20.2	1.584	2.011	29.9	17.9	99 E	7*	84
8 4	14 20.88	−32 27.6	1.635	1.955	31.2	18.0	92 E	6*	81*
8 14	14 34.67	−32 46.8	1.684	1.900	32.1	18.0	86 E	5*	76*
8 24	14 51.45	−33 14.9	1.730	1.846	32.6	18.0	80 E	4*	70*
9 3	15 11.05	−33 47.9	1.771	1.793	32.9	18.0	75 E	3*	65*
9 13	15 33.39	−34 21.6	1.807	1.741	32.9	18.0	70 E	3*	61*
9 23	15 58.36	−34 51.4	1.839	1.691	32.7	17.9	66 E	3*	57*
10 3	16 25.80	−35 11.6	1.865	1.644	32.4	17.9	62 E	3*	54*
10 13	16 55.55	−35 16.9	1.888	1.600	31.9	17.9	58 E	4*	51*
10 23	17 27.28	−35 1.9	1.908	1.559	31.3	17.8	55 E	5*	48*
11 2	18 0.57	−34 21.4	1.927	1.522	30.7	17.8	51 E	6*	45*
11 7	18 17.65	−33 50.4	1.936	1.505	30.3	17.7	50 E	7*	44*
11 12	18 34.92	−33 11.7	1.945	1.490	29.9	17.7	49 E	7*	43*
11 17	18 52.30	−32 25.0	1.954	1.476	29.5	17.7	47 E	8*	41*
11 22	19 9.73	−31 30.3	1.964	1.463	29.1	17.7	46 E	9*	40*
11 27	19 27.14	−30 27.5	1.974	1.452	28.6	17.6	45 E	10*	38*
12 2	19 44.46	−29 16.8	1.985	1.442	28.2	17.6	44 E	11*	37*
12 7	20 1.65	−27 58.4	1.996	1.434	27.7	17.6	43 E	13*	35*
12 12	20 18.65	−26 32.8	2.009	1.428	27.1	17.6	41 E	14*	33*
12 17	20 35.41	−25 0.3	2.023	1.423	26.6	17.6	40 E	15*	32*
12 22	20 51.91	−23 21.5	2.038	1.420	26.0	17.6	39 E	16*	30*
12 27	21 8.13	−21 37.1	2.054	1.418	25.4	17.6	38 E	17*	28*
1 1	21 24.07	−19 47.7	2.072	1.419	24.8	17.6	37 E	18*	26*
1 6	21 39.71	−17 54.0	2.091	1.421	24.1	17.6	36 E	19*	25*
1 11	21 55.05	−15 56.7	2.112	1.425	23.4	17.6	35 E	19*	23*
1 16	22 10.11	−13 56.5	2.134	1.430	22.7	17.6	34 E	20*	21*
1 21	22 24.88	−11 54.2	2.158	1.437	21.9	17.6	33 E	20*	19*
	13153 1995 QC_3								
12 27	14 26.16	−18 4.5	2.990	2.563	18.4	20.8	55 W	25*	43*
1 6	14 41.28	−19 31.7	2.838	2.525	20.1	20.7	62 W	25*	50*
1 16	14 56.24	−20 55.4	2.679	2.486	21.5	20.6	68 W	24*	58*
1 26	15 10.89	−22 15.2	2.515	2.446	22.8	20.4	75 W	23	66*
2 5	15 25.08	−23 31.2	2.349	2.406	23.9	20.3	81 W	21	74*
2 15	15 38.62	−24 43.4	2.182	2.365	24.7	20.1	88 W	20	81*
2 25	15 51.23	−25 52.0	2.015	2.323	25.1	19.9	95 W	19	89*
3 7	16 2.63	−26 57.3	1.852	2.281	25.2	19.7	102 W	18	89
3 17	16 12.42	−27 59.8	1.694	2.238	24.7	19.4	110 W	17	88
3 27	16 20.16	−28 59.6	1.543	2.195	23.7	19.2	118 W	16	87
4 6	16 25.35	−29 56.8	1.402	2.151	22.0	18.9	126 W	15	86
4 16	16 27.42	−30 50.2	1.273	2.107	19.6	18.5	135 W	14	85
4 26	16 25.91	−31 37.6	1.159	2.064	16.4	18.2	145 W	13	84
5 6	16 20.59	−32 14.9	1.063	2.020	12.4	17.8	154 W	13	84
5 11	16 16.55	−32 27.9	1.022	1.998	10.3	17.6	159 W	13	84
5 16	16 11.70	−32 36.2	0.986	1.977	8.3	17.4	164 W	12	83
5 21	16 6.22	−32 39.2	0.956	1.955	6.7	17.3	167 W	12	83
5 26	16 0.31	−32 36.4	0.931	1.934	6.1	17.2	168 E	12	83
5 31	15 54.21	−32 27.8	0.912	1.913	7.1	17.1	167 E	13	84
6 5	15 48.17	−32 13.5	0.898	1.892	9.1	17.2	163 E	13	84
6 10	15 42.49	−31 54.3	0.890	1.871	11.6	17.2	158 E	13	84
6 15	15 37.41	−31 31.3	0.886	1.850	14.4	17.3	153 E	13	84
6 20	15 33.18	−31 5.6	0.887	1.830	17.1	17.4	148 E	14	85
6 25	15 29.96	−30 38.7	0.893	1.810	19.8	17.4	143 E	14	85
6 30	15 27.86	−30 11.8	0.902	1.790	22.4	17.5	138 E	15	86
7 5	15 26.95	−29 45.9	0.914	1.771	24.8	17.6	133 E	15	86
7 10	15 27.27	−29 21.9	0.929	1.752	27.1	17.7	128 E	16*	87
7 15	15 28.82	−29 0.6	0.947	1.734	29.1	17.7	124 E	16*	87
7 25	15 35.50	−28 26.8	0.987	1.699	32.5	17.9	116 E	16*	88
8 4	15 46.57	−28 4.5	1.033	1.666	35.2	18.0	109 E	16*	88
8 14	16 1.58	−27 51.1	1.082	1.636	37.2	18.1	103 E	15*	88
8 24	16 20.05	−27 42.6	1.133	1.609	38.6	18.2	97 E	15*	88
9 3	16 41.50	−27 34.2	1.185	1.585	39.5	18.3	92 E	16*	86*
9 13	17 5.52	−27 20.9	1.239	1.565	40.0	18.4	88 E	16*	82*
9 23	17 31.63	−26 58.1	1.294	1.550	40.1	18.5	84 E	17*	78*
10 3	17 59.39	−26 21.8	1.351	1.538	39.9	18.6	80 E	18*	74*
10 13	18 28.34	−25 28.8	1.411	1.531	39.4	18.6	77 E	19*	71*
10 23	18 58.03	−24 17.2	1.473	1.529	38.7	18.7	74 E	20*	67*
10 28	19 13.01	−23 34.2	1.505	1.529	38.2	18.7	72 E	21*	65*
11 2	19 28.02	−22 46.4	1.538	1.531	37.7	18.8	71 E	22*	63*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	13153 1995 QC_3 *(continuation)*								
	h m	° ′			°	m	°	°	°
11 7	19 43.02	−21 53.9	1.572	1.534	37.2	18.8	69 E	23*	61*
11 12	19 57.97	−20 56.8	1.607	1.538	36.6	18.9	68 E	24*	59*
11 17	20 12.82	−19 55.3	1.644	1.543	36.0	18.9	66 E	25*	57*
11 22	20 27.55	−18 49.8	1.681	1.549	35.3	18.9	65 E	26*	54*
11 27	20 42.14	−17 40.5	1.719	1.556	34.6	19.0	64 E	27*	52*
12 2	20 56.56	−16 27.8	1.759	1.565	33.9	19.0	62 E	28*	49*
12 7	21 10.81	−15 12.0	1.799	1.574	33.1	19.0	61 E	29*	47*
12 12	21 24.87	−13 53.5	1.841	1.584	32.3	19.1	59 E	30*	44*
12 22	21 52.40	−11 9.9	1.927	1.608	30.6	19.2	56 E	32*	39*
1 1	22 19.14	− 8 20.1	2.018	1.635	28.9	19.3	53 E	33*	34*
1 11	22 45.15	− 5 26.8	2.111	1.664	27.0	19.3	50 E	34*	30*
1 21	23 10.46	− 2 32.6	2.207	1.697	25.1	19.4	47 E	34*	26*
	137158 1999 *FB*								
12 27	14 26.35	− 6 28.7	1.482	1.294	40.8	20.9	59 W	37*	38*
1 6	14 42.40	− 7 58.7	1.462	1.377	40.4	21.0	65 W	36*	46*
1 16	14 56.54	− 9 14.9	1.425	1.453	40.0	21.1	72 W	36*	53*
1 26	15 8.49	−10 17.8	1.373	1.521	39.3	21.1	78 W	35	61*
2 5	15 17.90	−11 8.2	1.308	1.584	38.4	21.0	86 W	34	69*
2 15	15 24.23	−11 46.1	1.234	1.640	36.9	20.9	94 W	33	75*
2 25	15 26.77	−12 11.8	1.154	1.690	34.7	20.8	104 W	33	76
3 7	15 24.74	−12 24.7	1.072	1.734	31.5	20.6	114 W	33	76
3 17	15 17.26	−12 23.6	0.995	1.773	27.0	20.3	126 W	33	76
3 27	15 3.70	−12 6.5	0.930	1.806	21.2	20.1	139 W	33	76
4 6	14 44.26	−11 32.2	0.883	1.834	14.0	19.7	154 W	33	76
4 11	14 32.72	−11 8.6	0.868	1.846	10.0	19.6	161 W	34	75
4 16	14 20.40	−10 41.7	0.861	1.856	5.9	19.4	169 W	34	75
4 21	14 7.70	−10 12.5	0.862	1.866	1.9	19.2	176 W	35	74
4 26	13 55.09	− 9 42.6	0.870	1.874	3.1	19.3	174 E	35	74
5 1	13 43.00	− 9 13.3	0.886	1.881	7.1	19.5	167 E	36	73
5 6	13 31.77	− 8 46.4	0.909	1.886	11.0	19.8	159 E	36	73
5 11	13 21.70	− 8 23.0	0.939	1.891	14.6	20.0	152 E	37	72
5 16	13 12.97	− 8 4.3	0.975	1.894	17.9	20.2	145 E	37	72
5 26	12 59.80	− 7 43.2	1.062	1.896	23.4	20.5	132 E	37	72
6 5	12 52.10	− 7 44.1	1.163	1.893	27.4	20.8	121 E	37*	72
6 15	12 49.19	− 8 5.4	1.271	1.886	30.3	21.1	111 E	35*	72
6 25	12 50.26	− 8 44.3	1.383	1.873	32.1	21.3	102 E	31*	73
	392214 2009 UC_{20}								
12 27	14 27.19	−16 11.1	2.243	1.875	25.7	21.5	56 W	27*	42*
1 6	14 47.77	−16 28.8	2.179	1.908	26.8	21.5	61 W	28*	48*
1 16	15 7.21	−16 29.2	2.107	1.943	27.7	21.5	67 W	28*	54*
1 26	15 25.28	−16 11.5	2.029	1.978	28.4	21.5	73 W	29*	61*
2 5	15 41.74	−15 35.1	1.947	2.013	28.8	21.4	79 W	29	67*
2 15	15 56.30	−14 39.5	1.861	2.049	28.7	21.4	86 W	30	73*
2 25	16 8.62	−13 24.5	1.774	2.085	28.3	21.3	94 W	32	76*
3 7	16 18.40	−11 50.0	1.688	2.120	27.3	21.2	101 W	33	76
3 17	16 25.28	− 9 56.7	1.606	2.156	25.8	21.1	110 W	35	74
3 27	16 28.96	− 7 46.2	1.531	2.191	23.6	20.9	119 W	37	72
4 6	16 29.27	− 5 22.0	1.467	2.226	20.8	20.8	128 W	40	69
4 16	16 26.16	− 2 49.8	1.419	2.260	17.6	20.7	137 W	42	67
4 26	16 19.96	− 0 18.1	1.390	2.294	14.2	20.5	146 W	45	64
5 6	16 11.37	+ 2 2.3	1.383	2.328	11.3	20.4	153 W	47	62
5 11	16 6.47	+ 3 4.9	1.390	2.344	10.5	20.4	155 W	48	61
5 16	16 1.38	+ 4 0.8	1.402	2.361	10.1	20.5	156 W	49	60
5 21	15 56.26	+ 4 49.0	1.421	2.377	10.4	20.5	155 W	50	59
5 26	15 51.27	+ 5 28.9	1.446	2.393	11.1	20.6	153 E	50	59
5 31	15 46.53	+ 6 0.2	1.477	2.409	12.1	20.7	150 E	51	58
6 5	15 42.18	+ 6 23.0	1.513	2.424	13.4	20.8	146 E	51	58
6 10	15 38.31	+ 6 37.5	1.555	2.440	14.7	20.9	143 E	52	57
6 15	15 35.01	+ 6 44.2	1.602	2.455	16.0	21.0	138 E	52	57
6 20	15 32.33	+ 6 43.6	1.653	2.470	17.2	21.2	134 E	52	57
6 25	15 30.29	+ 6 36.5	1.708	2.485	18.3	21.3	130 E	52	57
6 30	15 28.91	+ 6 23.8	1.766	2.500	19.3	21.4	126 E	51	58
	7816 Hanoi								
12 27	14 28.82	−15 24.0	3.421	2.978	15.8	20.9	56 W	28*	41*
1 6	14 40.19	−16 15.6	3.300	2.983	17.1	20.9	63 W	28*	50*
1 16	14 50.67	−17 0.7	3.169	2.988	18.1	20.8	70 W	28*	58*
1 26	15 0.05	−17 38.7	3.031	2.991	18.8	20.7	78 W	27	67*
2 5	15 8.11	−18 9.4	2.888	2.994	19.2	20.7	86 W	27	75*
2 15	15 14.59	−18 32.3	2.743	2.995	19.2	20.5	95 W	26	82*
2 25	15 19.19	−18 47.0	2.599	2.996	18.7	20.4	104 W	26	83
3 7	15 21.66	−18 52.8	2.459	2.996	17.7	20.3	113 W	26	83
3 17	15 21.75	−18 49.2	2.329	2.994	16.1	20.1	123 W	26	83
3 27	15 19.31	−18 35.6	2.212	2.992	13.9	19.9	134 W	26	83
4 6	15 14.38	−18 11.6	2.113	2.989	11.1	19.7	145 W	27	82
4 16	15 7.19	−17 37.4	2.037	2.985	7.7	19.5	157 W	27	82
4 26	14 58.30	−16 54.4	1.986	2.979	3.8	19.2	169 W	28	81

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7816 Hanoi *(continuation)*									
5 1	14 53.47	−16 30.5	1.972	2.976	1.8	19.1	175 W	28	81
5 6	14 48.53	−16 5.6	1.964	2.973	0.3	18.9	179 E	29	80
5 11	14 43.59	−15 40.2	1.965	2.970	2.4	19.1	173 E	29	80
5 16	14 38.79	−15 14.9	1.972	2.966	4.4	19.2	167 E	30	79
5 21	14 34.25	−14 50.5	1.987	2.962	6.4	19.3	161 E	30	79
5 26	14 30.05	−14 27.5	2.008	2.958	8.3	19.4	155 E	31	78
6 5	14 23.03	−13 47.6	2.069	2.949	11.7	19.6	144 E	31	78
6 15	14 18.18	−13 18.4	2.152	2.939	14.7	19.8	133 E	32	77
6 25	14 15.72	−13 1.7	2.251	2.928	17.0	20.0	123 E	32*	77
7 5	14 15.64	−12 57.7	2.363	2.916	18.7	20.1	113 E	30*	77
7 15	14 17.82	−13 5.7	2.482	2.903	19.9	20.3	104 E	28*	77
7 25	14 22.07	−13 24.3	2.606	2.889	20.5	20.4	96 E	26*	77
8 4	14 28.16	−13 52.0	2.731	2.874	20.7	20.5	88 E	23*	77*
8 14	14 35.90	−14 27.0	2.854	2.858	20.4	20.6	80 E	21*	72*
8 24	14 45.12	−15 7.7	2.973	2.841	19.9	20.6	73 E	19*	66*
9 3	14 55.65	−15 52.5	3.085	2.824	19.0	20.7	66 E	17*	59*
9 13	15 7.36	−16 39.7	3.189	2.805	17.9	20.7	59 E	15*	53*
9 23	15 20.13	−17 28.1	3.283	2.785	16.6	20.7	52 E	14*	46*
10 3	15 33.87	−18 16.1	3.367	2.765	15.1	20.7	46 E	12*	40*
10 13	15 48.51	−19 2.7	3.438	2.743	13.4	20.6	40 E	11*	33*
10 23	16 3.96	−19 46.5	3.497	2.721	11.6	20.6	33 E	9*	27*
11 2	16 20.14	−20 26.4	3.542	2.698	9.7	20.5	27 E	7*	21*
11 12	16 37.01	−21 1.4	3.573	2.674	7.7	20.5	21 E	5*	14*
11 22	16 54.47	−21 30.4	3.589	2.649	5.6	20.3	15 E	3*	8*
12 2	17 12.47	−21 52.6	3.591	2.623	3.5	20.2	9 E	—	2*
12 12	17 30.93	−22 7.1	3.578	2.596	1.4	20.0	4 E	—	—
12 22	17 49.75	−22 13.4	3.551	2.569	1.0	20.0	3 W	—	—
1 1	18 8.87	−22 10.9	3.510	2.541	3.2	20.1	8 W	—	1*
1 11	18 28.20	−21 59.1	3.455	2.512	5.4	20.1	14 W	3*	6*
1 21	18 47.65	−21 38.0	3.387	2.482	7.6	20.2	20 W	5*	12*
6170 Levasseur									
12 27	14 28.91	−16 26.7	2.407	2.015	23.6	18.0	55 W	27*	42*
1 6	14 44.78	−18 58.3	2.340	2.053	24.8	18.1	61 W	25*	49*
1 16	14 59.68	−21 24.8	2.265	2.091	25.7	18.1	67 W	23*	57*
1 26	15 13.37	−23 46.9	2.183	2.129	26.4	18.0	74 W	21	66*
2 5	15 25.59	−26 5.8	2.097	2.166	26.7	18.0	81 W	19	74*
2 15	15 35.98	−28 22.8	2.008	2.204	26.6	17.9	88 W	17	82*
2 25	15 44.11	−30 38.5	1.918	2.241	26.1	17.9	95 W	14	85
3 7	15 49.51	−32 53.4	1.830	2.278	25.0	17.8	104 W	12	83
3 12	15 51.01	−34 0.4	1.788	2.297	24.3	17.7	108 W	11	82
3 17	15 51.61	−35 6.8	1.747	2.315	23.4	17.6	112 W	10	81
3 22	15 51.25	−36 12.0	1.709	2.333	22.4	17.6	117 W	9	80
3 27	15 49.89	−37 15.6	1.673	2.351	21.3	17.5	121 W	8	79
4 1	15 47.47	−38 16.9	1.641	2.369	20.0	17.4	126 W	7	78
4 6	15 43.99	−39 14.9	1.612	2.387	18.6	17.4	131 W	6	77
4 11	15 39.44	−40 8.6	1.588	2.404	17.1	17.3	135 W	5	76
4 16	15 33.88	−40 56.8	1.568	2.422	15.6	17.3	140 W	4	75
4 21	15 27.43	−41 38.3	1.554	2.439	14.0	17.2	144 W	3	74
4 26	15 20.23	−42 12.2	1.545	2.456	12.6	17.1	148 W	3	74
5 1	15 12.48	−42 37.6	1.543	2.473	11.4	17.1	151 W	2	73
5 6	15 4.42	−42 54.1	1.546	2.490	10.4	17.1	153 W	2	73
5 11	14 56.29	−43 1.7	1.556	2.506	10.0	17.1	155 E	2	73
5 16	14 48.37	−43 0.7	1.573	2.523	10.0	17.1	154 E	2	73
5 21	14 40.90	−42 52.1	1.595	2.539	10.5	17.2	153 E	2	73
5 26	14 34.09	−42 37.1	1.624	2.555	11.3	17.3	150 E	2	73
5 31	14 28.08	−42 16.9	1.659	2.571	12.3	17.4	147 E	3	74
6 5	14 22.98	−41 53.1	1.699	2.586	13.5	17.5	143 E	3	74
6 10	14 18.84	−41 27.0	1.745	2.602	14.7	17.6	139 E	4	75
6 15	14 15.71	−40 59.9	1.795	2.617	15.8	17.7	135 E	4	75
6 20	14 13.57	−40 33.0	1.850	2.632	16.9	17.8	131 E	4*	75
6 25	14 12.38	−40 7.2	1.908	2.646	17.9	17.9	127 E	5*	76
6 30	14 12.08	−39 43.0	1.970	2.661	18.7	18.1	123 E	5*	76
7 5	14 12.63	−39 21.0	2.035	2.675	19.5	18.2	119 E	4*	77
7 10	14 13.97	−39 1.6	2.102	2.689	20.1	18.3	115 E	4*	77
7 15	14 16.03	−38 44.9	2.172	2.703	20.6	18.4	111 E	4*	77
7 20	14 18.77	−38 31.0	2.243	2.717	21.0	18.5	107 E	3*	77
7 25	14 22.12	−38 20.0	2.316	2.730	21.2	18.5	103 E	2*	78
8 4	14 30.44	−38 5.9	2.464	2.757	21.5	18.7	96 E	1*	77*
8 14	14 40.67	−38 1.5	2.614	2.782	21.3	18.9	89 E	—	74*
8 24	14 52.51	−38 5.4	2.764	2.806	20.9	19.0	82 E	—	69*
9 3	15 5.72	−38 15.6	2.911	2.830	20.2	19.1	75 E	—	63*
9 13	15 20.14	−38 30.6	3.054	2.852	19.2	19.2	69 E	—	58*
9 23	15 35.58	−38 48.6	3.191	2.874	18.1	19.2	63 E	—	52*
10 3	15 51.93	−39 8.1	3.321	2.894	16.8	19.3	57 E	—	47*
10 13	16 9.07	−39 27.7	3.442	2.914	15.4	19.4	51 E	—	42*
10 23	16 26.89	−39 46.2	3.553	2.933	13.8	19.4	45 E	—	36*
11 2	16 45.28	−40 2.3	3.652	2.950	12.3	19.4	39 E	—	31*
11 12	17 4.15	−40 15.3	3.739	2.967	10.7	19.4	34 E	—	26*
11 22	17 23.37	−40 24.2	3.813	2.983	9.1	19.4	29 E	—	21*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
6170 Levasseur *(continuation)*									
12 2	17 42.84	−40 28.7	3.873	2.998	7.6	19.4	24 E	—	16*
12 12	18 2.45	−40 28.4	3.918	3.012	6.4	19.4	20 E	—	11*
12 22	18 22.06	−40 23.0	3.948	3.024	5.6	19.3	18 E	—	7*
1 1	18 41.59	−40 12.8	3.962	3.036	5.5	19.3	17 W	—	4*
1 11	19 0.91	−39 58.1	3.960	3.047	6.0	19.4	19 W	—	8*
1 21	19 19.91	−39 39.3	3.943	3.057	7.1	19.4	23 W	—	13*
162911 2001 LL_5									
12 27	14 29.35	−20 25.6	0.580	0.796	89.8	20.7	54 W	23*	43*
1 1	14 48.02	−22 44.0	0.621	0.800	86.6	20.7	54 W	21*	45*
1 6	15 6.90	−24 43.9	0.661	0.808	83.4	20.8	55 W	19*	46*
1 11	15 25.95	−26 26.5	0.700	0.820	80.2	20.8	55 W	17*	47*
1 16	15 45.08	−27 52.9	0.737	0.835	77.2	20.8	56 W	16*	49*
1 21	16 4.19	−29 4.1	0.772	0.853	74.4	20.9	57 W	14*	50*
1 26	16 23.19	−30 1.1	0.804	0.873	71.8	20.9	57 W	13*	51*
1 31	16 41.97	−30 45.0	0.833	0.896	69.4	21.0	58 W	13*	52*
2 5	17 0.45	−31 16.8	0.860	0.920	67.2	21.1	59 W	12*	53*
2 10	17 18.52	−31 37.4	0.883	0.946	65.2	21.1	60 W	11*	54*
2 15	17 36.09	−31 48.0	0.903	0.972	63.4	21.2	62 W	11*	56*
2 20	17 53.09	−31 49.5	0.919	1.000	61.9	21.2	63 W	11*	57*
2 25	18 9.48	−31 43.0	0.932	1.028	60.4	21.3	65 W	10*	58*
3 2	18 25.21	−31 29.4	0.942	1.056	59.1	21.3	66 W	10*	60*
3 7	18 40.26	−31 9.6	0.948	1.084	58.0	21.3	68 W	10*	62*
3 12	18 54.59	−30 44.5	0.951	1.112	56.9	21.4	70 W	10*	63*
3 17	19 8.19	−30 15.0	0.951	1.140	55.9	21.4	72 W	11*	65*
3 22	19 21.02	−29 41.8	0.948	1.168	55.0	21.4	74 W	11*	67*
3 27	19 33.09	−29 5.6	0.942	1.195	54.1	21.4	76 W	11*	69*
4 1	19 44.39	−28 27.0	0.933	1.221	53.2	21.4	78 W	12*	72*
4 6	19 54.91	−27 46.7	0.921	1.247	52.4	21.4	81 W	13*	74*
4 11	20 4.62	−27 5.3	0.907	1.272	51.5	21.4	83 W	13*	77*
4 16	20 13.49	−26 23.3	0.890	1.297	50.5	21.4	86 W	14*	80*
4 21	20 21.48	−25 41.3	0.871	1.321	49.5	21.4	89 W	15*	83*
4 26	20 28.56	−24 59.6	0.850	1.343	48.4	21.3	92 W	16*	86*
5 1	20 34.69	−24 18.8	0.828	1.365	47.2	21.2	96 W	17*	88
5 6	20 39.81	−23 39.2	0.804	1.387	45.9	21.2	99 W	18*	88
5 11	20 43.82	−23 1.4	0.779	1.407	44.4	21.1	103 W	19*	87
5 16	20 46.63	−22 25.6	0.753	1.426	42.7	21.0	107 W	20*	86
5 21	20 48.15	−21 52.3	0.727	1.444	40.7	20.9	111 W	22*	86
5 26	20 48.27	−21 21.7	0.700	1.462	38.5	20.8	116 W	23*	85
5 31	20 46.89	−20 53.9	0.674	1.479	36.0	20.7	121 W	24*	85
6 5	20 43.88	−20 29.0	0.650	1.494	33.2	20.5	126 W	24*	84
6 10	20 39.15	−20 7.0	0.627	1.509	30.0	20.4	132 W	25	84
6 15	20 32.63	−19 47.5	0.606	1.522	26.4	20.2	138 W	25	84
6 25	20 14.50	−19 13.9	0.574	1.547	18.1	19.9	152 W	26	83
7 5	19 50.99	−18 42.4	0.561	1.568	8.7	19.5	167 W	26	83
7 15	19 25.44	−18 8.7	0.569	1.584	2.8	19.3	176 E	27	82
7 20	19 13.26	−17 50.9	0.582	1.591	6.8	19.5	169 E	27	82
7 25	19 2.15	−17 33.2	0.600	1.597	11.2	19.8	162 E	27	82
7 30	18 52.41	−17 16.2	0.623	1.602	15.4	20.0	155 E	28	81
8 4	18 44.28	−17 0.6	0.651	1.606	19.2	20.3	149 E	28	81
8 14	18 33.15	−16 35.0	0.718	1.612	25.7	20.7	136 E	28	81
8 24	18 28.58	−16 17.2	0.797	1.613	30.5	21.1	126 E	29	80
9 3	18 29.60	−16 5.1	0.883	1.610	34.1	21.4	117 E	29	80
9 13	18 35.24	−15 55.8	0.973	1.604	36.6	21.7	108 E	29	80
484402 2007 XH_{16}									
12 27	14 29.37	+15 43.5	0.465	0.927	82.8	20.7	69 W	58*	25*
1 1	14 58.93	+16 15.4	0.493	0.919	82.3	20.8	68 W	58*	24*
1 6	15 25.89	+16 24.7	0.523	0.914	81.5	20.8	67 W	57*	23*
1 11	15 50.40	+16 16.0	0.556	0.910	80.3	20.9	66 W	56*	23*
1 16	16 12.74	+15 53.4	0.589	0.908	79.0	21.0	65 W	55*	23*
1 21	16 33.19	+15 20.2	0.622	0.909	77.5	21.1	64 W	54*	24*
1 26	16 52.06	+14 39.0	0.654	0.911	76.0	21.1	64 W	53*	26*
1 31	17 9.63	+13 51.9	0.684	0.916	74.4	21.2	64 W	52*	27*
2 5	17 26.13	+13 0.7	0.713	0.923	72.9	21.2	63 W	51*	29*
2 10	17 41.74	+12 6.8	0.739	0.931	71.4	21.3	63 W	50*	31*
2 15	17 56.60	+11 11.2	0.762	0.941	70.0	21.3	64 W	49*	33*
2 20	18 10.84	+10 14.4	0.782	0.953	68.7	21.4	64 W	48*	36*
2 25	18 24.55	+ 9 16.9	0.798	0.966	67.5	21.4	64 W	47*	38*
3 2	18 37.83	+ 8 19.0	0.812	0.981	66.3	21.4	65 W	46*	40*
3 7	18 50.74	+ 7 21.0	0.822	0.996	65.3	21.5	66 W	45*	43*
497117 2004 FU_4									
12 27	14 29.94	+ 6 17.4	1.081	1.100	53.6	20.6	64 W	49*	31*
1 6	14 52.85	+ 2 53.8	1.078	1.142	52.5	20.7	67 W	47*	37*
1 16	15 14.05	− 0 20.8	1.062	1.183	51.6	20.7	71 W	44*	45*
1 26	15 33.61	− 3 27.8	1.035	1.225	50.8	20.7	75 W	41*	52*
2 5	15 51.48	− 6 30.3	0.998	1.266	49.9	20.7	79 W	38*	60*
2 15	16 7.47	− 9 31.9	0.951	1.305	48.9	20.6	85 W	35	67*
2 25	16 21.21	−12 37.8	0.896	1.343	47.5	20.5	91 W	32	74*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	497117 2004 FU_4				*(continuation)*				
	h m	° ′			°	m	°	°	°
3 2	16 27.08	−14 14.5	0.867	1.361	46.6	20.4	94 W	31	78*
3 7	16 32.18	−15 54.7	0.837	1.379	45.5	20.3	97 W	29	80
3 12	16 36.37	−17 39.6	0.805	1.396	44.3	20.3	101 W	27	82
3 17	16 39.52	−19 29.9	0.774	1.412	42.8	20.2	105 W	25	84
3 22	16 41.48	−21 26.7	0.743	1.428	41.1	20.0	110 W	24	85
3 27	16 42.05	−23 30.7	0.712	1.443	39.2	19.9	114 W	21	88
4 1	16 41.04	−25 42.3	0.683	1.457	36.9	19.8	119 W	19	90
4 6	16 38.19	−28 1.4	0.655	1.471	34.3	19.6	124 W	17	88
4 11	16 33.22	−30 26.8	0.631	1.484	31.5	19.5	129 W	15	86
4 16	16 25.87	−32 56.1	0.609	1.496	28.4	19.4	135 W	12	83
4 21	16 15.97	−35 25.5	0.592	1.508	25.2	19.2	140 W	10	81
4 26	16 3.45	−37 49.7	0.579	1.519	22.0	19.1	145 W	7	78
5 1	15 48.45	−40 2.1	0.571	1.529	19.3	19.0	150 W	5	76
5 6	15 31.36	−41 56.1	0.570	1.539	17.2	18.9	153 W	3	74
5 8	15 24.09	−42 35.2	0.570	1.542	16.7	18.9	154 W	2	73
5 10	15 16.67	−43 10.2	0.572	1.546	16.5	18.9	154 W	2	73
5 12	15 9.16	−43 40.9	0.575	1.549	16.4	18.9	154 E	1	72
5 14	15 1.62	−44 7.3	0.579	1.552	16.6	19.0	154 E	1	72
5 16	14 54.14	−44 29.3	0.584	1.555	16.9	19.0	153 E	1	72
5 18	14 46.77	−44 47.1	0.589	1.558	17.5	19.0	152 E	—	71
5 20	14 39.59	−45 0.8	0.596	1.561	18.1	19.1	151 E	—	71
5 22	14 32.65	−45 10.7	0.603	1.564	18.9	19.1	150 E	—	71
5 24	14 26.00	−45 17.1	0.611	1.566	19.8	19.2	148 E	—	71
5 26	14 19.69	−45 20.4	0.620	1.569	20.8	19.3	147 E	—	71
5 31	14 5.57	−45 16.8	0.646	1.574	23.2	19.4	142 E	—	71
6 5	13 54.06	−45 1.2	0.675	1.579	25.7	19.6	137 E	—	71
6 10	13 45.22	−44 38.4	0.707	1.583	28.1	19.8	133 E	—	71
6 15	13 38.95	−44 13.0	0.743	1.587	30.2	20.0	128 E	1*	72
6 20	13 35.05	−43 48.0	0.780	1.589	32.0	20.1	124 E	1*	72
6 25	13 33.25	−43 25.5	0.819	1.591	33.7	20.3	120 E	—	73
6 30	13 33.29	−43 6.6	0.860	1.592	35.1	20.4	116 E	—	73
7 5	13 34.96	−42 52.0	0.901	1.593	36.2	20.6	112 E	—	73
7 10	13 38.06	−42 41.8	0.942	1.592	37.2	20.7	109 E	—	73
7 15	13 42.44	−42 36.1	0.984	1.591	38.0	20.8	105 E	—	73
7 20	13 47.96	−42 34.7	1.025	1.589	38.7	20.9	102 E	—	73
7 25	13 54.50	−42 37.2	1.066	1.586	39.2	21.0	99 E	—	73*
7 30	14 1.95	−42 42.9	1.107	1.583	39.6	21.1	96 E	—	73*
8 4	14 10.25	−42 51.5	1.146	1.578	39.9	21.2	94 E	—	71*
8 9	14 19.36	−43 2.4	1.185	1.573	40.1	21.2	91 E	—	70*
8 14	14 29.23	−43 15.2	1.223	1.567	40.2	21.3	89 E	—	68*
8 19	14 39.81	−43 29.2	1.259	1.561	40.3	21.4	86 E	—	67*
8 24	14 51.07	−43 43.8	1.294	1.553	40.3	21.4	84 E	—	65*
8 29	15 2.98	−43 58.4	1.328	1.545	40.3	21.5	82 E	—	64*
9 3	15 15.53	−44 12.3	1.361	1.536	40.2	21.5	79 E	—	62*
	12711 Tukmit								
12 27	14 30.16	−42 54.4	1.311	1.039	47.8	18.4	51 W	1*	45*
1 1	15 0.34	−45 24.6	1.305	1.018	48.2	18.3	50 W	—	44*
1 6	15 33.05	−47 23.4	1.304	0.997	48.4	18.3	49 W	—	42*
1 11	16 7.79	−48 45.0	1.307	0.976	48.4	18.2	48 W	—	40*
1 16	16 43.72	−49 25.4	1.313	0.957	48.3	18.2	47 W	—	38*
1 18	16 58.19	−49 29.6	1.317	0.950	48.2	18.2	46 W	—	37*
1 20	17 12.61	−49 26.9	1.321	0.942	48.0	18.2	45 W	—	36*
1 22	17 26.90	−49 17.5	1.325	0.935	47.9	18.2	45 W	—	35*
1 24	17 41.00	−49 1.5	1.330	0.929	47.7	18.2	44 W	—	35*
1 26	17 54.85	−48 39.1	1.336	0.922	47.5	18.1	44 W	—	34*
1 28	18 8.40	−48 10.5	1.341	0.916	47.2	18.1	43 W	—	33*
1 30	18 21.60	−47 36.2	1.347	0.910	47.0	18.1	42 W	—	33*
2 1	18 34.43	−46 56.3	1.354	0.904	46.7	18.1	42 W	—	32*
2 3	18 46.86	−46 11.4	1.360	0.899	46.4	18.1	41 W	—	32*
2 5	18 58.87	−45 21.6	1.367	0.894	46.1	18.1	41 W	—	31*
2 10	19 27.05	−42 58.5	1.384	0.883	45.2	18.1	39 W	—	30*
2 15	19 52.65	−40 13.0	1.401	0.874	44.3	18.0	38 W	—	29*
2 20	20 15.89	−37 9.6	1.419	0.868	43.4	18.0	37 W	—	28*
2 25	20 37.07	−33 52.1	1.436	0.864	42.5	18.0	36 W	—	28*
3 2	20 56.50	−30 23.9	1.453	0.864	41.7	18.0	35 W	—	28*
3 7	21 14.50	−26 47.3	1.469	0.865	40.9	18.0	35 W	—	28*
3 12	21 31.33	−23 4.6	1.484	0.870	40.2	18.0	34 W	—	28*
3 17	21 47.23	−19 17.6	1.498	0.877	39.7	18.1	34 W	1*	28*
3 22	22 2.39	−15 27.8	1.511	0.886	39.2	18.1	34 W	4*	28*
3 27	22 17.01	−11 36.4	1.523	0.898	38.8	18.1	34 W	6*	28*
4 1	22 31.21	− 7 44.7	1.535	0.911	38.5	18.2	35 W	8*	28*
4 6	22 45.14	− 3 53.7	1.547	0.927	38.3	18.2	35 W	10*	29*
4 11	22 58.90	− 0 4.5	1.558	0.944	38.1	18.3	36 W	12*	28*
4 16	23 12.58	+ 3 42.0	1.569	0.963	38.0	18.3	36 W	14*	28*
4 21	23 26.26	+ 7 24.7	1.580	0.982	37.8	18.4	37 W	17*	28*
4 26	23 40.02	+11 2.9	1.591	1.003	37.7	18.4	38 W	19*	27*
5 1	23 53.93	+14 35.7	1.602	1.024	37.6	18.5	38 W	21*	27*
5 6	0 8.06	+18 2.3	1.614	1.046	37.4	18.5	39 W	23*	26*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	12711 Tukmit				*(continued)*				
	h m	° ′			°	m	°	°	°
5 11	0 22.46	+21 22.0	1.626	1.068	37.3	18.6	40 W	24*	25*
5 16	0 37.18	+24 34.0	1.638	1.090	37.1	18.7	41 W	26*	24*
5 21	0 52.28	+27 37.7	1.650	1.112	36.9	18.7	41 W	28*	23*
5 26	1 7.79	+30 32.3	1.663	1.135	36.7	18.8	42 W	30*	21*
5 31	1 23.77	+33 17.4	1.675	1.157	36.5	18.8	43 W	31*	20*
6 5	1 40.25	+35 52.6	1.687	1.178	36.3	18.9	43 W	33*	19*
6 10	1 57.25	+38 17.2	1.699	1.200	36.1	18.9	44 W	34*	17*
6 15	2 14.78	+40 30.9	1.710	1.221	35.9	19.0	45 W	36*	16*
6 20	2 32.84	+42 33.2	1.720	1.241	35.7	19.0	46 W	37*	14*
6 25	2 51.41	+44 23.9	1.729	1.261	35.6	19.1	46 W	38*	13*
6 30	3 10.47	+46 2.8	1.737	1.281	35.4	19.1	47 W	40*	12*
7 5	3 29.96	+47 29.7	1.744	1.299	35.4	19.1	48 W	41*	10*
7 10	3 49.81	+48 44.7	1.749	1.317	35.3	19.2	48 W	42*	9*
7 15	4 9.90	+49 47.8	1.753	1.335	35.3	19.2	49 W	43*	8*
7 20	4 30.13	+50 39.1	1.754	1.351	35.3	19.2	50 W	44*	7*
7 25	4 50.38	+51 19.0	1.754	1.367	35.3	19.3	51 W	45*	7*
7 30	5 10.52	+51 47.9	1.751	1.382	35.4	19.3	52 W	46*	6*
8 4	5 30.43	+52 6.5	1.746	1.397	35.5	19.3	53 W	47*	5*
8 9	5 49.97	+52 15.3	1.739	1.410	35.7	19.3	54 W	48*	5*
8 14	6 9.04	+52 15.2	1.728	1.423	35.9	19.3	55 W	49*	5*
8 19	6 27.54	+52 6.7	1.715	1.434	36.1	19.3	57 W	50*	5*
8 24	6 45.40	+51 50.7	1.700	1.445	36.4	19.3	58 W	51*	5*
8 29	7 2.57	+51 28.1	1.681	1.455	36.7	19.3	59 W	53*	5*
9 3	7 19.01	+50 59.5	1.660	1.465	37.0	19.3	61 W	54*	5*
9 13	7 49.59	+49 47.6	1.608	1.481	37.7	19.3	64 W	57*	6*
9 23	8 17.08	+48 20.1	1.545	1.493	38.5	19.3	68 W	61*	7*
10 3	8 41.55	+46 41.3	1.471	1.502	39.3	19.2	72 W	65*	9*
10 13	9 3.04	+44 54.8	1.385	1.507	40.1	19.1	77 W	70*	11*
10 23	9 21.52	+43 2.5	1.289	1.509	40.7	18.9	82 W	75*	14*
11 2	9 36.93	+41 5.8	1.184	1.508	41.1	18.8	87 W	81*	17*
11 7	9 43.37	+40 5.9	1.129	1.505	41.2	18.7	90 W	83*	19*
11 12	9 48.88	+39 4.8	1.072	1.502	41.1	18.5	93 W	84*	20*
11 17	9 53.40	+38 2.0	1.014	1.498	40.9	18.4	97 W	83	22*
11 22	9 56.81	+36 57.0	0.954	1.494	40.6	18.3	101 W	82	24*
11 27	9 58.98	+35 49.1	0.895	1.488	40.0	18.1	104 W	81	27*
12 2	9 59.72	+34 37.2	0.834	1.481	39.1	17.9	109 W	80	29*
12 7	9 58.79	+33 19.7	0.774	1.474	37.9	17.7	113 W	78	30*
12 12	9 55.92	+31 54.3	0.715	1.466	36.3	17.5	118 W	77	32
12 17	9 50.80	+30 17.7	0.657	1.456	34.1	17.2	124 W	75	34
12 22	9 43.07	+28 25.6	0.602	1.446	31.4	16.9	130 W	73	36
12 27	9 32.34	+26 12.5	0.550	1.436	27.8	16.6	137 W	71	38
1 1	9 18.25	+23 31.6	0.503	1.424	23.5	16.3	145 W	69	40
1 6	9 0.62	+20 16.2	0.462	1.411	18.2	15.9	153 W	65	44
1 11	8 39.63	+16 21.6	0.429	1.398	12.4	15.5	162 W	61	48
1 16	8 15.91	+11 49.6	0.406	1.384	7.9	15.2	169 W	57	52
1 21	7 50.63	+ 6 51.7	0.393	1.369	10.1	15.2	166 E	52	57
	79576 1998 QG_{98}								
12 27	14 30.38	−13 5.5	2.611	2.216	21.6	20.6	56 W	30*	40*
1 6	14 49.09	−14 5.8	2.475	2.184	23.3	20.5	62 W	30*	47*
1 16	15 7.83	−14 56.4	2.334	2.152	24.9	20.4	67 W	30*	53*
1 26	15 26.49	−15 35.8	2.191	2.120	26.3	20.2	73 W	29*	60*
2 5	15 44.94	−16 3.0	2.047	2.087	27.6	20.1	78 W	29*	67*
2 15	16 3.02	−16 16.8	1.903	2.055	28.6	19.9	84 W	29	73*
2 25	16 20.50	−16 16.2	1.760	2.023	29.3	19.7	90 W	29	78*
3 7	16 37.15	−16 0.5	1.620	1.990	29.7	19.5	96 W	29	80*
3 17	16 52.67	−15 29.0	1.484	1.958	29.7	19.3	103 W	30	79
3 27	17 6.69	−14 41.6	1.354	1.927	29.3	19.1	109 W	30	79
4 6	17 18.84	−13 38.4	1.232	1.896	28.4	18.8	116 W	31	78
4 16	17 28.66	−12 20.4	1.118	1.866	26.8	18.5	123 W	33	76
4 26	17 35.68	−10 49.6	1.015	1.836	24.6	18.2	131 W	34	75
5 6	17 39.51	− 9 9.4	0.924	1.808	21.7	17.9	139 W	36	73
5 11	17 40.11	− 8 17.4	0.884	1.794	20.0	17.7	143 W	37	72
5 16	17 39.83	− 7 25.4	0.848	1.781	18.2	17.5	147 W	38	71
5 21	17 38.68	− 6 34.6	0.815	1.768	16.4	17.4	151 W	38	71
5 26	17 36.73	− 5 46.1	0.787	1.756	14.6	17.2	154 W	39	70
5 31	17 34.07	− 5 1.4	0.764	1.743	13.0	17.1	157 W	40	69
6 5	17 30.79	− 4 21.8	0.744	1.732	11.8	17.0	160 W	41	68
6 10	17 27.08	− 3 48.7	0.730	1.721	11.4	16.9	160 W	41	68
6 15	17 23.13	− 3 23.5	0.720	1.710	11.8	16.9	160 E	42	67
6 20	17 19.19	− 3 6.9	0.714	1.700	12.9	16.9	158 E	42	67
6 25	17 15.47	− 2 59.6	0.713	1.690	14.7	16.9	155 E	42	67
7 5	17 9.50	− 3 12.7	0.723	1.672	19.0	17.1	148 E	42	67
7 15	17 6.59	− 4 0.0	0.747	1.657	23.5	17.3	140 E	41	68
7 25	17 7.59	− 5 14.0	0.784	1.645	27.4	17.5	132 E	40	69
7 30	17 9.63	− 5 58.2	0.806	1.640	29.2	17.6	128 E	39	70
8 4	17 12.68	− 6 45.6	0.830	1.635	30.7	17.7	125 E	38	71
8 9	17 16.73	− 7 35.2	0.857	1.632	32.1	17.8	121 E	37	72

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
79576 1998 QG_{98} *(continuation)*									
8 14	17 21.74	− 8 26.1	0.885	1.629	33.3	17.9	118 E	37	72
8 19	17 27.65	− 9 17.1	0.915	1.626	34.3	18.0	115 E	36	73
8 24	17 34.41	−10 7.5	0.947	1.625	35.2	18.1	112 E	35	74
9 3	17 50.19	−11 43.4	1.015	1.624	36.5	18.3	107 E	33*	76
9 13	18 8.63	−13 8.5	1.089	1.627	37.3	18.4	102 E	32*	77
9 23	18 29.27	−14 18.8	1.167	1.632	37.6	18.6	97 E	31*	78
10 3	18 51.61	−15 11.1	1.251	1.640	37.5	18.8	93 E	30*	78*
10 13	19 15.27	−15 43.7	1.340	1.651	37.2	18.9	89 E	29*	76*
10 23	19 39.82	−15 55.5	1.433	1.665	36.5	19.1	85 E	29	73*
11 2	20 4.90	−15 46.5	1.530	1.682	35.6	19.2	81 E	29	69*
11 12	20 30.22	−15 17.6	1.631	1.700	34.5	19.3	77 E	30*	64*
11 22	20 55.51	−14 30.0	1.735	1.721	33.2	19.5	73 E	30*	59*
12 2	21 20.58	−13 25.8	1.842	1.744	31.8	19.6	69 E	31*	53*
12 12	21 45.30	−12 7.0	1.951	1.769	30.2	19.7	65 E	33*	48*
12 22	22 9.59	−10 36.1	2.061	1.795	28.5	19.8	61 E	33*	43*
1 1	22 33.38	− 8 55.3	2.172	1.823	26.7	19.9	56 E	34*	38*
1 11	22 56.69	− 7 7.0	2.283	1.852	24.8	20.0	52 E	34*	33*
1 21	23 19.52	− 5 13.3	2.391	1.882	22.9	20.1	48 E	33*	29*
35056 Cullers									
12 27	14 31.22	−30 49.4	3.722	3.207	13.9	20.2	52 W	13*	45*
1 6	14 42.28	−32 30.6	3.611	3.213	15.2	20.2	59 W	12*	52*
1 16	14 52.54	−34 11.4	3.489	3.218	16.2	20.1	66 W	11*	60*
1 26	15 1.76	−35 51.8	3.361	3.223	17.0	20.1	74 W	9	67*
2 5	15 9.67	−37 32.0	3.226	3.226	17.6	20.0	81 W	7	73*
2 15	15 15.96	−39 11.8	3.089	3.229	17.8	19.9	89 W	6	76*
2 25	15 20.26	−40 50.4	2.953	3.231	17.7	19.8	97 W	4	75
3 2	15 21.54	−41 38.9	2.886	3.231	17.5	19.8	101 W	3	74
3 7	15 22.19	−42 26.6	2.820	3.232	17.2	19.7	106 W	3	74
3 12	15 22.14	−43 13.1	2.757	3.232	16.8	19.6	110 W	2	73
3 17	15 21.35	−43 58.1	2.695	3.232	16.3	19.6	114 W	1	72
3 27	15 17.43	−45 21.2	2.582	3.231	15.1	19.4	123 W	—	71
4 6	15 10.34	−46 31.1	2.483	3.229	13.5	19.3	131 W	—	69
4 16	15 0.26	−47 21.9	2.404	3.226	11.9	19.2	139 W	—	69
4 21	14 54.29	−47 38.3	2.372	3.224	11.1	19.1	142 W	—	68
4 26	14 47.87	−47 48.1	2.347	3.222	10.3	19.1	145 W	—	68
5 1	14 41.15	−47 50.8	2.327	3.220	9.8	19.0	147 W	—	68
5 6	14 34.30	−47 46.3	2.314	3.218	9.4	19.0	148 E	—	68
5 11	14 27.50	−47 34.9	2.308	3.215	9.3	19.0	149 E	—	68
5 16	14 20.93	−47 16.9	2.307	3.212	9.5	19.0	148 E	—	69
5 21	14 14.75	−46 52.9	2.313	3.209	9.9	19.0	147 E	—	69
5 26	14 9.10	−46 24.1	2.326	3.206	10.5	19.0	145 E	—	70
5 31	14 4.10	−45 51.3	2.344	3.202	11.3	19.1	142 E	—	70
6 5	13 59.81	−45 15.5	2.368	3.198	12.2	19.1	138 E	—	71
6 10	13 56.29	−44 38.0	2.397	3.194	13.0	19.2	135 E	—	71
6 15	13 53.58	−43 59.6	2.431	3.190	13.9	19.2	131 E	1*	72
6 20	13 51.67	−43 21.5	2.470	3.186	14.8	19.3	127 E	1*	73
6 25	13 50.54	−42 44.3	2.512	3.181	15.6	19.4	123 E	2*	73
6 30	13 50.17	−42 8.7	2.558	3.176	16.3	19.4	119 E	1*	74
7 5	13 50.53	−41 35.3	2.607	3.171	16.9	19.5	115 E	1*	74
7 15	13 53.28	−40 36.3	2.712	3.160	17.9	19.6	107 E	—	75
7 25	13 58.47	−39 49.3	2.824	3.148	18.6	19.7	99 E	—	76*
8 4	14 5.77	−39 14.6	2.939	3.135	18.9	19.8	92 E	—	74*
8 14	14 14.91	−38 51.7	3.054	3.121	18.8	19.9	84 E	—	69*
8 24	14 25.68	−38 39.4	3.167	3.106	18.5	19.9	77 E	—	64*
9 3	14 37.87	−38 36.3	3.276	3.091	17.9	20.0	71 E	—	58*
9 13	14 51.34	−38 40.6	3.379	3.074	17.1	20.0	64 E	—	52*
9 23	15 5.96	−38 50.8	3.474	3.057	16.1	20.0	58 E	—	46*
10 3	15 21.62	−39 5.1	3.559	3.039	14.9	20.0	52 E	—	41*
10 13	15 38.24	−39 21.9	3.634	3.020	13.6	20.0	46 E	—	36*
10 23	15 55.74	−39 39.6	3.696	3.000	12.2	20.0	40 E	—	30*
11 2	16 14.02	−39 56.6	3.746	2.979	10.8	19.9	34 E	—	25*
11 12	16 33.03	−40 11.8	3.783	2.957	9.4	19.9	29 E	—	20*
11 22	16 52.65	−40 23.7	3.805	2.934	8.0	19.8	24 E	—	15*
12 2	17 12.79	−40 31.3	3.814	2.911	6.8	19.7	21 E	—	11*
12 12	17 33.36	−40 33.7	3.807	2.886	6.0	19.7	18 E	—	6*
12 22	17 54.22	−40 30.1	3.786	2.861	5.8	19.6	17 W	—	4*
1 1	18 15.28	−40 20.0	3.751	2.835	6.3	19.6	18 W	—	8*
1 11	18 36.40	−40 3.1	3.701	2.808	7.3	19.6	21 W	—	12*
1 21	18 57.45	−39 39.3	3.638	2.780	8.7	19.6	25 W	—	17*
155340 2006 SK_{198}									
12 27	14 31.60	−22 20.8	1.728	1.382	34.7	19.6	53 W	21*	43*
1 1	14 50.34	−23 37.9	1.682	1.354	35.8	19.6	54 W	20*	44*
1 6	15 9.89	−24 48.5	1.639	1.327	36.9	19.5	54 W	19*	45*
1 11	15 30.27	−25 51.2	1.599	1.301	37.9	19.4	54 W	18*	46*
1 16	15 51.42	−26 44.3	1.562	1.276	38.9	19.4	55 W	17*	47*
1 21	16 13.29	−27 26.4	1.529	1.252	39.9	19.3	55 W	16*	48*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
155340 2006 SK_{198} *(continuation)*									
1 26	16 35.78	−27 56.1	1.499	1.230	40.8	19.2	55 W	15*	48*
1 31	16 58.77	−28 12.1	1.472	1.210	41.7	19.2	55 W	14*	48*
2 5	17 22.10	−28 13.5	1.449	1.191	42.5	19.1	55 W	13*	48*
2 10	17 45.60	−27 59.8	1.429	1.174	43.2	19.1	54 W	13*	48*
2 15	18 9.07	−27 30.8	1.413	1.160	43.8	19.1	54 W	13*	48*
2 20	18 32.33	−26 46.8	1.401	1.147	44.3	19.0	54 W	12*	48*
2 25	18 55.19	−25 48.6	1.391	1.138	44.7	19.0	54 W	12*	48*
3 2	19 17.54	−24 37.1	1.384	1.130	45.0	19.0	54 W	12*	48*
3 7	19 39.24	−23 13.9	1.381	1.126	45.2	19.0	54 W	12*	48*
3 12	20 0.22	−21 40.4	1.379	1.124	45.4	19.0	54 W	13*	48*
3 17	20 20.40	−19 58.3	1.380	1.125	45.4	19.0	54 W	13*	48*
3 22	20 39.78	−18 9.4	1.383	1.129	45.4	19.0	54 W	13*	48*
3 27	20 58.33	−16 15.3	1.387	1.135	45.3	19.0	54 W	14*	48*
4 1	21 16.09	−14 17.4	1.392	1.144	45.1	19.0	54 W	14*	48*
4 6	21 33.07	−12 17.2	1.399	1.155	44.9	19.1	55 W	15*	48*
4 11	21 49.31	−10 15.8	1.405	1.169	44.7	19.1	55 W	16*	49*
4 16	22 4.83	− 8 14.4	1.412	1.185	44.4	19.1	56 W	17*	49*
4 21	22 19.68	− 6 13.9	1.419	1.203	44.1	19.2	56 W	18*	49*
4 26	22 33.88	− 4 15.0	1.426	1.223	43.8	19.2	57 W	19*	50*
5 6	23 0.50	− 0 24.3	1.437	1.268	43.2	19.3	59 W	21*	51*
5 16	23 24.90	+ 3 14.1	1.443	1.318	42.7	19.4	62 W	24*	51*
5 26	23 47.22	+ 6 38.0	1.444	1.373	42.1	19.4	65 W	28*	52*
6 5	0 7.54	+ 9 46.4	1.438	1.430	41.4	19.5	69 W	32*	52*
6 15	0 25.85	+12 38.6	1.425	1.490	40.7	19.5	73 W	37*	51*
6 25	0 42.02	+15 14.4	1.405	1.552	39.8	19.6	78 W	43*	49*
7 5	0 55.90	+17 33.7	1.377	1.614	38.7	19.6	83 W	50*	46
7 15	1 7.18	+19 35.9	1.343	1.677	37.3	19.6	89 W	57*	44
7 25	1 15.51	+21 20.2	1.304	1.739	35.5	19.5	96 W	63*	43
8 4	1 20.48	+22 44.9	1.263	1.801	33.1	19.5	104 W	68*	41
8 14	1 21.66	+23 46.9	1.221	1.862	30.2	19.4	113 W	69	40
8 24	1 18.78	+24 21.8	1.184	1.922	26.5	19.3	122 W	69	40
9 3	1 11.88	+24 25.0	1.155	1.981	22.1	19.2	132 W	69	40
9 8	1 7.07	+24 13.1	1.146	2.010	19.6	19.1	138 W	69	40
9 13	1 1.51	+23 51.9	1.140	2.039	17.1	19.0	143 W	69	40
9 18	0 55.38	+23 21.4	1.140	2.067	14.5	19.0	149 W	68	41
9 23	0 48.90	+22 42.1	1.145	2.095	12.0	18.9	154 W	68	41
9 28	0 42.27	+21 55.2	1.156	2.123	9.7	18.9	159 W	67	42
10 3	0 35.72	+21 1.8	1.173	2.150	7.9	18.9	163 W	66	43
10 8	0 29.47	+20 3.6	1.197	2.177	7.0	18.9	165 E	65	44
10 13	0 23.72	+19 2.8	1.228	2.203	7.3	19.0	164 E	64	45
10 18	0 18.62	+18 1.1	1.265	2.229	8.6	19.1	161 E	63	46
10 23	0 14.27	+17 0.6	1.309	2.255	10.3	19.3	156 E	62	47
10 28	0 10.73	+16 2.6	1.359	2.280	12.1	19.5	151 E	61	48
11 2	0 8.03	+15 8.4	1.414	2.305	13.9	19.7	146 E	60	49
11 7	0 6.19	+14 19.0	1.475	2.330	15.5	19.8	141 E	59	50
11 12	0 5.17	+13 35.0	1.541	2.354	17.0	20.0	136 E	59	50
11 22	0 5.46	+12 24.6	1.685	2.401	19.5	20.3	126 E	57	52
12 2	0 8.47	+11 37.2	1.843	2.447	21.1	20.6	116 E	57	52
12 12	0 13.79	+11 11.3	2.010	2.491	22.1	20.9	108 E	56	52*
12 22	0 20.98	+11 4.3	2.184	2.533	22.5	21.1	99 E	56	50*
1 1	0 29.70	+11 13.1	2.361	2.574	22.5	21.3	91 E	56	46*
1 11	0 39.67	+11 35.2	2.538	2.613	22.0	21.5	83 E	57	42*
189430 1998 HH_{145}									
12 27	14 31.63	−12 35.7	2.364	1.986	24.2	21.5	56 W	31*	40*
1 6	14 53.25	−13 55.3	2.242	1.957	26.0	21.4	61 W	30*	46*
1 16	15 15.17	−15 4.6	2.119	1.929	27.6	21.3	65 W	29*	52*
1 26	15 37.27	−16 2.1	1.994	1.901	29.2	21.2	70 W	29*	58*
2 5	15 59.48	−16 46.9	1.870	1.874	30.5	21.0	75 W	28*	64*
2 15	16 21.63	−17 17.7	1.748	1.848	31.7	20.9	80 W	28*	69*
2 25	16 43.52	−17 33.9	1.627	1.823	32.7	20.7	85 W	27*	74*
3 7	17 4.95	−17 35.2	1.509	1.799	33.5	20.6	90 W	27*	79*
3 17	17 25.63	−17 21.7	1.395	1.776	33.9	20.4	95 W	28*	81*
3 27	17 45.24	−16 54.3	1.285	1.755	34.1	20.2	100 W	28*	81
4 6	18 3.46	−16 14.3	1.181	1.736	33.8	20.0	105 W	29*	80
4 16	18 19.86	−15 23.9	1.082	1.719	33.1	19.7	111 W	30	79
4 26	18 34.00	−14 26.2	0.991	1.703	31.8	19.5	117 W	31	78
5 6	18 45.43	−13 25.2	0.907	1.690	29.8	19.2	124 W	32	77
5 16	18 53.64	−12 25.8	0.833	1.679	27.1	18.9	131 W	33	76
5 21	18 56.40	−11 58.7	0.799	1.674	25.4	18.8	135 W	33	76
5 26	18 58.23	−11 34.4	0.769	1.670	23.5	18.7	139 W	33	76
5 31	18 59.11	−11 13.6	0.741	1.667	21.4	18.5	143 W	34	75
6 5	18 59.04	−10 57.1	0.717	1.664	19.1	18.4	147 W	34	75
6 10	18 58.04	−10 45.9	0.696	1.662	16.7	18.2	152 W	34	75
6 15	18 56.20	−10 40.4	0.679	1.661	14.1	18.1	157 W	34	75
6 25	18 50.58	−10 48.5	0.658	1.660	9.2	17.8	165 W	34	75
7 5	18 43.61	−11 21.7	0.654	1.662	7.2	17.7	168 E	34	75
7 15	18 37.06	−12 16.4	0.668	1.666	10.3	17.9	163 E	33	76

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
189430 1998 HH_{145} *(continuation)*									
7 20	18 34.53	−12 49.7	0.681	1.670	12.7	18.0	159 E	32	77
7 25	18 32.72	−13 25.5	0.699	1.673	15.3	18.2	154 E	32	77
7 30	18 31.75	−14 2.8	0.721	1.678	17.8	18.3	150 E	31	78
8 4	18 31.70	−14 40.6	0.747	1.683	20.1	18.5	145 E	30	79
8 9	18 32.61	−15 18.0	0.776	1.689	22.2	18.7	141 E	30	79
8 14	18 34.51	−15 54.3	0.808	1.695	24.2	18.8	137 E	29	80
8 24	18 41.14	−17 0.8	0.882	1.709	27.4	19.1	129 E	28	81
9 3	18 51.17	−17 56.0	0.967	1.725	29.9	19.4	122 E	27	82
9 13	19 4.10	−18 37.3	1.060	1.743	31.5	19.7	115 E	26	83
9 23	19 19.39	−19 3.1	1.162	1.763	32.6	19.9	109 E	26	83
10 3	19 36.48	−19 12.6	1.270	1.785	33.1	20.2	103 E	26	83
10 13	19 54.95	−19 5.5	1.384	1.808	33.2	20.4	97 E	26	83
10 23	20 14.39	−18 42.3	1.503	1.833	32.9	20.6	92 E	26	81*
11 2	20 34.46	−18 3.8	1.625	1.858	32.2	20.8	87 E	27	76*
11 12	20 54.92	−17 10.9	1.751	1.885	31.3	20.9	82 E	28	70*
11 22	21 15.55	−16 5.0	1.878	1.912	30.2	21.1	77 E	29	64*
12 2	21 36.19	−14 47.6	2.007	1.940	28.9	21.2	72 E	30	57*
12 12	21 56.75	−13 20.2	2.135	1.968	27.4	21.3	67 E	32*	51*
12 22	22 17.14	−11 44.3	2.263	1.997	25.7	21.5	62 E	33*	45*
1170 Siva									
12 27	14 31.73	−24 7.1	3.333	2.846	15.9	18.0	53 W	19*	43*
1 6	14 43.28	−25 52.7	3.230	2.864	17.3	17.9	60 W	19*	51*
1 16	14 53.94	−27 36.4	3.119	2.881	18.3	17.9	67 W	17*	60*
1 26	15 3.47	−29 18.5	2.999	2.897	19.1	17.9	75 W	16	68*
2 5	15 11.61	−30 59.2	2.874	2.912	19.6	17.8	82 W	14	76*
2 15	15 18.04	−32 38.8	2.746	2.927	19.7	17.7	90 W	12	82*
2 25	15 22.38	−34 16.8	2.619	2.940	19.4	17.6	99 W	11	82
3 7	15 24.26	−35 52.4	2.496	2.952	18.7	17.5	108 W	9	80
3 17	15 23.30	−37 23.6	2.380	2.964	17.5	17.4	117 W	8	79
3 27	15 19.19	−38 46.9	2.277	2.974	15.8	17.2	126 W	6	77
4 6	15 11.86	−39 57.7	2.190	2.984	13.7	17.1	135 W	5	76
4 11	15 7.04	−40 26.7	2.153	2.988	12.5	17.0	140 W	5	76
4 16	15 1.54	−40 50.4	2.123	2.992	11.4	16.9	144 W	4	75
4 21	14 55.48	−41 8.2	2.098	2.996	10.3	16.9	148 W	4	75
4 26	14 48.98	−41 19.6	2.080	3.000	9.3	16.8	151 W	4	75
5 1	14 42.21	−41 24.4	2.068	3.003	8.6	16.8	153 W	4	75
5 6	14 35.33	−41 22.6	2.063	3.006	8.2	16.7	155 E	4	75
5 11	14 28.52	−41 14.2	2.064	3.009	8.2	16.7	155 E	4	75
5 16	14 21.96	−41 0.0	2.073	3.012	8.6	16.8	154 E	4	75
5 21	14 15.82	−40 40.7	2.088	3.014	9.3	16.8	151 E	4	75
5 26	14 10.23	−40 17.3	2.110	3.017	10.3	16.9	148 E	5	76
5 31	14 5.29	−39 50.8	2.137	3.019	11.3	16.9	144 E	5	76
6 5	14 1.06	−39 22.2	2.170	3.020	12.4	17.0	140 E	6	77
6 10	13 57.61	−38 52.6	2.209	3.022	13.5	17.1	136 E	6	77
6 15	13 54.95	−38 22.9	2.252	3.023	14.6	17.2	132 E	7*	78
6 20	13 53.08	−37 54.1	2.300	3.024	15.5	17.3	127 E	7*	78
6 25	13 51.99	−37 26.8	2.351	3.025	16.4	17.3	123 E	7*	79
7 5	13 52.00	−36 38.6	2.463	3.025	17.9	17.5	114 E	6*	79
7 15	13 54.71	−36 1.1	2.584	3.025	18.9	17.6	106 E	5*	80
7 25	13 59.80	−35 35.5	2.711	3.024	19.4	17.7	98 E	3*	80*
8 4	14 6.94	−35 21.5	2.840	3.022	19.6	17.9	90 E	2*	77*
8 14	14 15.88	−35 18.3	2.968	3.018	19.5	17.9	83 E	—	71*
8 24	14 26.38	−35 24.6	3.094	3.014	19.0	18.0	76 E	—	65*
9 3	14 38.27	−35 38.7	3.214	3.009	18.3	18.1	69 E	—	58*
9 13	14 51.40	−35 59.3	3.328	3.003	17.3	18.1	63 E	—	52*
9 23	15 5.64	−36 24.6	3.433	2.996	16.2	18.1	56 E	—	46*
10 3	15 20.89	−36 53.0	3.528	2.988	14.9	18.1	50 E	—	41*
10 13	15 37.07	−37 23.2	3.611	2.979	13.5	18.1	44 E	—	35*
10 23	15 54.10	−37 53.7	3.683	2.969	12.0	18.1	38 E	—	30*
11 2	16 11.89	−38 23.2	3.741	2.958	10.5	18.1	33 E	—	24*
11 12	16 30.38	−38 50.6	3.786	2.946	9.0	18.0	28 E	—	19*
11 22	16 49.48	−39 14.6	3.816	2.933	7.6	18.0	23 E	—	14*
12 2	17 9.10	−39 34.5	3.831	2.919	6.4	17.9	19 E	—	9*
12 12	17 29.14	−39 49.5	3.832	2.905	5.7	17.9	17 E	—	5*
12 22	17 49.50	−39 58.9	3.817	2.889	5.6	17.9	17 W	—	5*
1 1	18 10.06	−40 2.4	3.788	2.872	6.2	17.9	18 W	—	9*
1 11	18 30.71	−39 59.8	3.744	2.854	7.4	17.9	22 W	—	13*
1 21	18 51.32	−39 51.3	3.685	2.836	8.8	17.9	26 W	—	18*
136900 1998 HL_{49}									
12 27	14 32.18	−23 1.1	0.943	0.857	66.0	19.1	53 W	20*	43*
1 1	14 44.33	−23 14.5	0.983	0.909	62.5	19.2	55 W	21*	45*
1 6	14 56.04	−23 24.9	1.017	0.961	59.5	19.3	57 W	21*	48*
1 11	15 7.20	−23 32.1	1.045	1.015	57.0	19.4	60 W	21*	51*
1 16	15 17.71	−23 35.8	1.067	1.069	54.9	19.5	63 W	21*	54*
1 26	15 36.55	−23 32.2	1.095	1.175	51.3	19.6	69 W	21*	60*
2 5	15 52.18	−23 14.3	1.104	1.279	48.2	19.8	75 W	22*	67*
2 15	16 4.18	−22 42.0	1.096	1.380	45.2	19.8	83 W	22	75*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
136900 1998 HL_{49} *(continuation)*									
2 25	16 12.07	−21 55.0	1.076	1.477	42.1	19.8	91 W	23	83*
3 7	16 15.42	−20 52.4	1.047	1.570	38.4	19.8	101 W	24	85
3 17	16 13.72	−19 33.0	1.015	1.659	34.0	19.7	111 W	25	84
3 27	16 6.70	−17 55.4	0.986	1.744	28.6	19.6	123 W	27	82
4 6	15 54.58	−15 59.9	0.967	1.825	22.4	19.5	136 W	29	80
4 11	15 46.87	−14 56.4	0.964	1.864	18.9	19.4	143 W	30	79
4 16	15 38.30	−13 50.3	0.966	1.902	15.3	19.4	150 W	31	78
4 21	15 29.16	−12 42.9	0.975	1.939	11.7	19.3	157 W	32	77
4 26	15 19.73	−11 36.1	0.990	1.976	8.2	19.2	164 W	33	76
5 1	15 10.32	−10 31.4	1.012	2.011	5.1	19.2	170 W	34	75
5 6	15 1.21	− 9 30.6	1.041	2.046	3.6	19.2	173 W	35	74
5 11	14 52.64	− 8 35.2	1.078	2.079	5.0	19.4	170 E	36	73
5 16	14 44.82	− 7 46.3	1.121	2.112	7.5	19.6	164 E	37	72
5 26	14 31.96	− 6 30.4	1.228	2.175	12.6	20.1	152 E	38	71
6 5	14 23.10	− 5 44.0	1.357	2.235	16.8	20.5	140 E	39	70
6 15	14 18.09	− 5 24.1	1.504	2.291	19.9	20.9	130 E	40	69
6 25	14 16.52	− 5 26.0	1.665	2.345	22.0	21.2	120 E	39*	69
2329 Orthos									
12 27	14 32.74	− 5 33.3	2.389	2.049	24.1	19.1	58 W	37*	36*
1 6	14 54.40	− 5 53.7	2.203	1.965	26.5	18.9	63 W	38*	42*
1 16	15 17.57	− 5 58.9	2.016	1.878	29.0	18.7	68 W	38*	47*
1 26	15 42.53	− 5 45.1	1.833	1.790	31.5	18.4	72 W	39*	52*
1 31	15 55.81	− 5 29.8	1.744	1.745	32.8	18.3	74 W	39*	54*
2 5	16 9.71	− 5 8.2	1.656	1.699	34.1	18.2	75 W	40*	55*
2 10	16 24.27	− 4 39.4	1.571	1.653	35.5	18.0	77 W	40*	57*
2 15	16 39.58	− 4 3.0	1.489	1.606	37.0	17.9	78 W	41*	58*
2 20	16 55.70	− 3 18.3	1.410	1.559	38.5	17.7	79 W	41*	58*
2 25	17 12.72	− 2 24.7	1.335	1.512	40.1	17.6	80 W	42*	59*
3 7	17 49.82	− 0 9.3	1.198	1.416	43.6	17.3	80 W	43*	58*
3 17	18 31.54	+ 2 43.9	1.082	1.321	47.7	17.1	79 W	45*	56*
3 27	19 18.27	+ 6 8.3	0.993	1.226	52.2	16.8	76 W	46*	53*
4 1	19 43.52	+ 7 57.1	0.960	1.179	54.5	16.8	74 W	45*	51*
4 6	20 9.94	+ 9 46.2	0.934	1.133	56.9	16.7	72 W	45*	49*
4 11	20 37.35	+11 32.0	0.916	1.089	59.2	16.6	69 W	44*	46*
4 16	21 5.54	+13 10.6	0.906	1.046	61.4	16.6	66 W	43*	44*
4 21	21 34.25	+14 38.3	0.904	1.005	63.3	16.5	63 W	41*	42*
4 26	22 3.22	+15 52.4	0.909	0.967	64.8	16.5	60 W	39*	40*
5 1	22 32.16	+16 51.1	0.922	0.932	65.8	16.5	58 W	37*	39*
5 6	23 0.83	+17 34.0	0.940	0.902	66.4	16.5	55 W	34*	37*
5 11	23 29.00	+18 1.4	0.964	0.876	66.4	16.5	53 W	32*	36*
5 16	23 56.53	+18 14.6	0.992	0.856	65.9	16.5	51 W	29*	35*
5 21	0 23.29	+18 15.1	1.024	0.842	64.8	16.5	49 W	27*	34*
5 26	0 49.20	+18 4.9	1.059	0.834	63.4	16.5	47 W	25*	34*
5 31	1 14.23	+17 46.2	1.097	0.834	61.6	16.5	46 W	23*	34*
6 5	1 38.34	+17 20.6	1.136	0.840	59.6	16.5	46 W	21*	34*
6 10	2 1.48	+16 49.7	1.175	0.853	57.5	16.6	45 W	20*	34*
6 15	2 23.63	+16 14.4	1.215	0.873	55.3	16.6	45 W	19*	34*
6 20	2 44.78	+15 35.6	1.254	0.898	53.3	16.7	45 W	19*	34*
6 25	3 4.93	+14 54.0	1.293	0.927	51.3	16.8	45 W	18*	35*
7 5	3 42.26	+13 23.9	1.365	0.999	47.9	17.0	47 W	19*	37*
7 15	4 15.74	+11 45.7	1.430	1.082	45.1	17.2	49 W	20*	39*
7 25	4 45.58	+10 0.1	1.486	1.172	42.9	17.4	52 W	22*	41*
8 4	5 12.02	+ 8 7.8	1.531	1.266	41.2	17.6	55 W	26*	44*
8 14	5 35.25	+ 6 9.0	1.566	1.361	39.7	17.7	59 W	29*	47*
8 24	5 55.42	+ 4 4.1	1.589	1.457	38.5	17.9	64 W	32*	50*
9 3	6 12.63	+ 1 53.7	1.601	1.552	37.3	18.0	69 W	36*	54*
9 13	6 26.86	− 0 21.6	1.603	1.646	36.1	18.1	74 W	38*	58*
9 23	6 38.03	− 2 40.7	1.595	1.737	34.7	18.1	80 W	40*	62*
10 3	6 46.03	− 5 1.8	1.581	1.827	33.2	18.2	87 W	40*	66*
10 13	6 50.62	− 7 22.5	1.561	1.915	31.3	18.2	94 W	38	71*
10 23	6 51.59	− 9 38.5	1.539	2.000	29.1	18.2	102 W	35	74
10 28	6 50.67	−10 43.1	1.529	2.042	27.9	18.2	106 W	34	75
11 2	6 48.79	−11 44.4	1.520	2.084	26.5	18.2	110 W	33	76
11 7	6 45.96	−12 41.2	1.512	2.124	25.1	18.2	115 W	32	77
11 12	6 42.21	−13 32.5	1.507	2.165	23.6	18.2	119 W	31	78
11 17	6 37.60	−14 17.0	1.505	2.204	22.1	18.2	123 W	31	78
11 22	6 32.21	−14 53.8	1.506	2.243	20.6	18.2	127 W	30	79
11 27	6 26.15	−15 21.8	1.512	2.281	19.1	18.2	131 W	30	79
12 2	6 19.56	−15 40.2	1.522	2.319	17.8	18.2	134 W	29	80
12 7	6 12.61	−15 48.3	1.538	2.357	16.5	18.2	137 W	29	80
12 12	6 5.49	−15 45.9	1.559	2.393	15.5	18.2	139 W	29	80
12 17	5 58.38	−15 33.1	1.586	2.430	14.8	18.3	141 W	29	80
12 22	5 51.48	−15 10.6	1.619	2.465	14.4	18.3	141 E	30	79
12 27	5 44.94	−14 39.1	1.659	2.500	14.4	18.4	141 E	30	79
1 1	5 38.91	−13 59.7	1.704	2.535	14.6	18.5	140 E	31	78
1 6	5 33.50	−13 13.6	1.756	2.569	15.0	18.6	138 E	32	77

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		2329 Orthos			*(continuation)*				
	h m	° ′			°	m	°	°	°
1 11	5 28.78	−12 22.1	1.813	2.603	15.5	18.7	135 E	33	76
1 16	5 24.82	−11 26.6	1.876	2.636	16.2	18.8	132 E	34	75
1 21	5 21.63	−10 28.3	1.944	2.668	16.8	19.0	128 E	35	74
		168318 1989 *DA*							
12 27	14 33.01	−15 31.6	1.327	1.102	46.6	21.5	55 W	28*	41*
1 6	15 3.85	−18 45.8	1.357	1.160	45.2	21.6	57 W	25*	45*
1 16	15 32.85	−21 28.8	1.379	1.225	43.9	21.7	60 W	23*	50*
1 26	15 59.84	−23 43.6	1.392	1.295	42.8	21.8	63 W	21*	55*
2 5	16 24.62	−25 34.3	1.396	1.368	41.8	21.9	68 W	19*	61*
		1866 Sisyphus							
12 27	14 33.24	+21 52.7	3.062	2.912	18.7	18.1	72 W	63*	20*
1 6	14 43.34	+22 7.2	2.944	2.909	19.3	18.0	78 W	66*	26*
1 16	14 52.17	+22 38.5	2.822	2.904	19.7	18.0	85 W	68*	32*
1 26	14 59.46	+23 27.1	2.697	2.898	19.9	17.9	92 W	68	36*
2 5	15 4.89	+24 32.4	2.572	2.890	19.7	17.7	99 W	70	38*
2 15	15 8.06	+25 53.5	2.450	2.879	19.3	17.6	106 W	71	38*
2 25	15 8.57	+27 27.5	2.335	2.867	18.6	17.5	113 W	72	37
3 2	15 7.71	+28 18.0	2.281	2.860	18.1	17.4	116 W	73	36
3 7	15 6.03	+29 9.7	2.230	2.853	17.6	17.3	120 W	74	35
3 12	15 3.50	+30 1.8	2.183	2.845	17.1	17.3	123 W	75	34
3 17	15 0.09	+30 53.1	2.140	2.837	16.6	17.2	126 W	76	33
3 22	14 55.80	+31 42.2	2.100	2.828	16.0	17.1	128 W	77	32
3 27	14 50.64	+32 27.7	2.066	2.819	15.6	17.1	131 W	77	32
4 1	14 44.67	+33 8.1	2.037	2.809	15.2	17.0	132 W	78	31
4 6	14 37.97	+33 41.9	2.013	2.799	15.0	17.0	134 W	79	30
4 11	14 30.63	+34 7.8	1.995	2.789	14.9	17.0	134 W	79	30
4 16	14 22.81	+34 24.4	1.983	2.777	15.0	16.9	134 W	79	30
4 21	14 14.68	+34 30.8	1.976	2.766	15.3	16.9	133 W	80	29
4 26	14 6.45	+34 26.5	1.976	2.754	15.7	16.9	132 E	79	30
5 1	13 58.30	+34 11.1	1.981	2.741	16.3	17.0	130 E	79	30
5 6	13 50.40	+33 45.1	1.991	2.728	17.0	17.0	128 E	79	30
5 11	13 42.95	+33 8.7	2.007	2.714	17.8	17.0	125 E	78	31
5 16	13 36.06	+32 22.8	2.028	2.700	18.6	17.0	122 E	77	32
5 21	13 29.87	+31 28.4	2.053	2.685	19.4	17.1	118 E	76	33
5 26	13 24.44	+30 26.7	2.082	2.670	20.1	17.1	115 E	75	34
5 31	13 19.80	+29 18.7	2.115	2.654	20.9	17.2	111 E	74	35
6 5	13 15.97	+28 5.6	2.150	2.638	21.5	17.2	107 E	73	36
6 10	13 12.95	+26 48.2	2.189	2.621	22.1	17.3	104 E	71*	37
6 15	13 10.72	+25 27.6	2.229	2.604	22.6	17.3	100 E	68*	39
6 20	13 9.25	+24 4.5	2.271	2.586	23.0	17.3	96 E	65*	40
6 25	13 8.49	+22 39.6	2.314	2.568	23.3	17.4	93 E	61*	41
7 5	13 8.91	+19 46.6	2.402	2.530	23.6	17.4	85 E	53*	44
7 15	13 11.66	+16 51.5	2.490	2.489	23.6	17.5	78 E	46*	47*
7 25	13 16.40	+13 56.4	2.574	2.446	23.2	17.5	71 E	40*	48*
8 4	13 22.86	+11 2.4	2.653	2.402	22.5	17.5	65 E	35*	47*
8 14	13 30.83	+ 8 10.0	2.725	2.354	21.5	17.5	58 E	30*	45*
8 24	13 40.12	+ 5 19.5	2.787	2.305	20.2	17.4	52 E	26*	41*
9 3	13 50.62	+ 2 30.7	2.837	2.253	18.7	17.4	46 E	22*	36*
9 13	14 2.25	− 0 16.5	2.876	2.199	17.0	17.3	40 E	19*	31*
9 23	14 14.96	− 3 2.1	2.901	2.143	15.2	17.2	34 E	15*	26*
10 3	14 28.73	− 5 46.6	2.911	2.084	13.1	17.1	28 E	12*	20*
10 13	14 43.60	− 8 30.0	2.907	2.023	10.9	16.9	23 E	9*	15*
10 23	14 59.61	−11 12.5	2.888	1.959	8.6	16.8	17 E	6*	9*
11 2	15 16.86	−13 54.3	2.853	1.893	6.1	16.5	12 E	3*	4*
11 12	15 35.50	−16 35.3	2.804	1.824	3.6	16.3	7 E	—	—
11 22	15 55.70	−19 15.5	2.741	1.753	0.9	16.0	2 E	—	—
12 2	16 17.73	−21 54.3	2.664	1.680	2.0	15.9	3 W	—	—
12 12	16 41.93	−24 30.9	2.575	1.605	4.8	15.9	8 W	—	1*
12 22	17 8.73	−27 3.4	2.476	1.528	7.8	15.8	12 W	—	6*
12 27	17 23.28	−28 17.2	2.423	1.489	9.3	15.8	14 W	—	8*
1 1	17 38.69	−29 28.7	2.369	1.450	10.8	15.8	16 W	—	10*
1 6	17 55.06	−30 37.0	2.313	1.410	12.4	15.7	18 W	—	12*
1 11	18 12.46	−31 41.2	2.257	1.370	13.9	15.6	20 W	—	13*
1 16	18 30.98	−32 40.2	2.200	1.330	15.4	15.6	21 W	—	15*
1 21	18 50.70	−33 32.4	2.144	1.290	16.9	15.5	22 W	—	16*
		163243 2002 FB_3							
12 27	14 34.29	−21 35.9	1.505	1.198	40.7	19.4	53 W	22*	42*
1 1	14 50.05	−22 14.2	1.457	1.185	42.1	19.3	54 W	21*	44*
1 6	15 6.61	−22 47.5	1.407	1.169	43.7	19.3	55 W	21*	46*
1 11	15 24.09	−23 15.0	1.356	1.150	45.3	19.2	56 W	20*	47*
1 16	15 42.64	−23 35.5	1.303	1.128	47.1	19.1	57 W	20*	48*
1 21	16 2.41	−23 47.4	1.250	1.102	49.0	19.0	58 W	20*	49*
1 26	16 23.59	−23 48.9	1.197	1.073	51.1	18.9	58 W	19*	50*
1 31	16 46.36	−23 37.8	1.145	1.040	53.3	18.8	58 W	19*	50*
2 5	17 10.92	−23 11.2	1.095	1.004	55.8	18.7	57 W	19*	50*
2 10	17 37.43	−22 26.1	1.049	0.964	58.5	18.6	56 W	19*	49*
2 15	18 5.98	−21 18.9	1.008	0.919	61.5	18.5	55 W	19*	48*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		163243 2002 FB_3			*(continuation)*				
	h m	° ′			°	m	°	°	°
2 20	18 36.60	−19 46.3	0.973	0.871	64.6	18.4	53 W	18*	45*
2 25	19 9.21	−17 46.2	0.947	0.819	67.8	18.3	50 W	18*	43*
3 2	19 43.61	−15 18.1	0.931	0.762	70.9	18.2	47 W	18*	39*
3 7	20 19.47	−12 24.5	0.929	0.700	73.5	18.1	43 W	17*	35*
3 12	20 56.45	− 9 11.6	0.942	0.634	75.4	18.0	38 W	15*	31*
3 17	21 34.28	− 5 48.1	0.972	0.564	75.6	17.8	33 W	14*	26*
3 19	21 49.64	− 4 26.0	0.989	0.534	75.1	17.7	31 W	13*	24*
3 21	22 5.15	− 3 4.6	1.009	0.505	74.0	17.6	29 W	12*	21*
3 23	22 20.83	− 1 44.4	1.032	0.475	72.4	17.5	27 W	11*	19*
3 25	22 36.74	− 0 26.1	1.057	0.446	70.0	17.3	25 W	10*	17*
3 27	22 52.92	+ 0 49.9	1.086	0.417	66.8	17.1	23 W	9*	15*
4 1	23 35.07	+ 3 46.2	1.165	0.351	53.9	16.5	16 W	5*	9*
4 6	0 20.29	+ 6 18.0	1.245	0.309	33.1	15.8	10 W	1*	3*
4 11	1 7.68	+ 8 19.8	1.308	0.309	8.1	15.1	2 W	—	—
4 16	1 53.96	+ 9 51.9	1.344	0.352	12.6	15.6	4 E	—	—
4 21	2 36.86	+11 0.0	1.366	0.418	25.6	16.5	10 E	—	4*
4 26	3 16.10	+11 49.5	1.383	0.491	32.8	17.0	15 E	3*	8*
5 1	3 52.05	+12 24.3	1.404	0.565	36.5	17.5	19 E	5*	12*
5 6	4 25.13	+12 46.5	1.429	0.635	38.1	17.8	23 E	7*	16*
5 11	4 55.68	+12 58.2	1.459	0.701	38.5	18.1	26 E	8*	18*
5 16	5 23.98	+13 0.8	1.494	0.763	38.2	18.3	28 E	8*	21*
5 21	5 50.25	+12 55.7	1.532	0.820	37.4	18.5	29 E	8*	22*
5 26	6 14.72	+12 44.0	1.573	0.872	36.4	18.7	31 E	8*	24*
5 31	6 37.57	+12 26.8	1.616	0.920	35.2	18.8	32 E	7*	25*
6 5	6 59.01	+12 4.9	1.660	0.964	33.9	18.9	32 E	6*	25*
6 10	7 19.19	+11 39.0	1.705	1.004	32.6	19.0	32 E	5*	26*
6 15	7 38.27	+11 9.7	1.749	1.041	31.3	19.1	32 E	4*	26*
6 25	8 13.63	+10 2.5	1.835	1.102	28.7	19.3	31 E	2*	25*
7 5	8 46.00	+ 8 46.1	1.915	1.150	26.1	19.4	30 E	1*	24*
7 15	9 16.15	+ 7 22.3	1.986	1.186	23.6	19.5	28 E	—	22*
7 25	9 44.65	+ 5 52.3	2.045	1.208	21.1	19.5	25 E	—	19*
8 4	10 12.02	+ 4 17.2	2.090	1.219	18.7	19.5	23 E	—	17*
8 14	10 38.71	+ 2 37.4	2.121	1.218	16.4	19.4	20 E	—	14*
8 24	11 5.11	+ 0 53.7	2.135	1.204	14.1	19.4	17 E	—	11*
9 3	11 31.63	− 0 53.6	2.133	1.179	11.9	19.2	14 E	—	8*
9 13	11 58.69	− 2 43.9	2.112	1.141	9.7	19.0	11 E	—	5*
9 23	12 26.76	− 4 36.7	2.073	1.089	7.6	18.8	8 E	—	2*
10 3	12 56.43	− 6 31.3	2.015	1.024	5.7	18.5	6 E	—	—
10 13	13 28.46	− 8 26.9	1.937	0.944	4.3	18.2	4 E	—	—
10 23	14 3.83	−10 22.1	1.839	0.848	4.2	17.8	4 E	—	—
11 2	14 43.99	−12 15.0	1.720	0.735	6.1	17.5	5 E	—	—
11 7	15 6.48	−13 9.8	1.651	0.671	7.9	17.3	5 E	—	—
11 12	15 31.00	−14 3.3	1.576	0.603	10.8	17.1	7 E	—	—
11 17	15 57.95	−14 55.6	1.492	0.531	15.1	16.8	8 E	2*	—
11 22	16 27.70	−15 48.1	1.396	0.457	22.1	16.6	10 E	3*	—
11 27	17 0.43	−16 45.6	1.284	0.386	33.7	16.4	13 E	5*	2*
12 2	17 35.31	−18 1.8	1.151	0.328	52.6	16.3	15 E	7*	5*
12 4	17 49.21	−18 43.5	1.090	0.313	62.5	16.4	16 E	7*	6*
12 6	18 2.57	−19 35.2	1.027	0.305	73.6	16.6	17 E	7*	8*
12 8	18 14.97	−20 39.3	0.962	0.304	85.3	16.8	18 E	7*	9*
12 10	18 26.05	−21 57.6	0.898	0.311	96.9	17.2	18 E	6*	10*
12 12	18 35.58	−23 30.8	0.836	0.324	107.7	17.7	18 E	5*	10*
12 14	18 43.51	−25 18.4	0.778	0.344	117.3	18.3	18 E	4*	11*
12 16	18 49.91	−27 19.3	0.725	0.367	125.4	18.9	18 E	2*	11*
12 18	18 54.93	−29 32.1	0.677	0.393	131.8	19.5	17 E	—	11*
12 20	18 58.75	−31 55.1	0.635	0.421	136.5	20.0	17 E	—	11*
12 22	19 1.53	−34 26.6	0.597	0.450	139.5	20.4	17 E	—	11*
12 24	19 3.42	−37 4.8	0.564	0.480	140.8	20.6	18 E	—	11*
12 26	19 4.55	−39 48.3	0.535	0.510	140.7	20.6	19 E	—	11*
12 28	19 5.06	−42 35.3	0.509	0.539	139.5	20.5	21 E	—	10*
12 30	19 5.03	−45 24.8	0.487	0.568	137.4	20.2	23 E	—	10*
1 1	19 4.55	−48 15.3	0.467	0.597	134.8	19.9	26 E	—	10*
1 3	19 3.69	−51 6.0	0.450	0.625	131.7	19.6	28 E	—	10*
1 5	19 2.50	−53 56.1	0.435	0.652	128.5	19.3	31 E	—	10*
1 7	19 1.05	−56 45.1	0.421	0.679	125.1	19.0	34 W	—	13*
1 9	18 59.35	−59 32.6	0.410	0.704	121.7	18.8	38 W	—	16*
1 11	18 57.45	−62 18.4	0.399	0.729	118.3	18.5	41 W	—	18*
1 13	18 55.34	−65 2.8	0.389	0.754	114.9	18.3	44 W	—	20*
1 15	18 53.01	−67 45.7	0.381	0.777	111.6	18.1	47 W	—	22*
1 17	18 50.43	−70 27.6	0.373	0.800	108.4	17.9	51 W	—	24*
1 19	18 47.50	−73 8.8	0.365	0.822	105.3	17.8	54 W	—	25*
1 21	18 44.04	−75 49.9	0.359	0.844	102.2	17.6	57 W	—	26*
		101961 1999 RL_{39}							
12 27	14 35.28	− 8 48.4	2.931	2.523	18.9	21.2	56 W	34*	37*
1 6	14 49.93	− 9 48.6	2.797	2.504	20.4	21.1	63 W	34*	45*
1 16	15 4.09	−10 41.3	2.655	2.484	21.7	21.1	69 W	34*	52*
1 26	15 17.59	−11 25.8	2.509	2.463	22.8	20.9	76 W	34*	60*
2 5	15 30.24	−12 2.1	2.358	2.442	23.6	20.8	83 W	33	67*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
101961 1999 RL_{39} *(continuation)*									
2 15	15 41.78	−12 29.9	2.206	2.419	24.1	20.7	90 W	33	73*
2 25	15 51.92	−12 49.3	2.054	2.396	24.2	20.5	98 W	32	77*
3 7	16 0.34	−13 0.7	1.905	2.372	23.8	20.3	106 W	32	77
3 17	16 6.63	−13 4.5	1.761	2.348	22.8	20.1	114 W	32	77
3 27	16 10.39	−13 1.5	1.625	2.322	21.2	19.8	123 W	32	77
4 6	16 11.23	−12 52.8	1.500	2.296	18.8	19.5	132 W	32	77
4 16	16 8.83	−12 39.8	1.390	2.270	15.6	19.2	143 W	32	77
4 26	16 3.12	−12 24.6	1.298	2.243	11.6	18.9	153 W	33	76
5 6	15 54.40	−12 9.6	1.228	2.215	7.1	18.6	164 W	33	76
5 16	15 43.47	−11 58.0	1.181	2.187	3.5	18.3	172 W	33	76
5 21	15 37.57	−11 54.6	1.168	2.173	4.1	18.3	171 E	33	76
5 26	15 31.65	−11 53.5	1.160	2.159	6.1	18.4	167 E	33	76
5 31	15 25.89	−11 55.1	1.159	2.145	8.6	18.5	161 E	33	76
6 5	15 20.48	−11 59.6	1.164	2.130	11.2	18.6	156 E	33	76
6 15	15 11.36	−12 18.6	1.189	2.102	16.3	18.8	145 E	33	76
6 25	15 5.33	−12 52.0	1.233	2.072	20.7	19.0	134 E	32	77
7 5	15 2.83	−13 39.1	1.291	2.043	24.3	19.1	124 E	31*	78
7 15	15 3.97	−14 38.3	1.359	2.014	27.2	19.3	115 E	29*	79
7 25	15 8.59	−15 47.7	1.433	1.985	29.3	19.4	107 E	27*	80
8 4	15 16.39	−17 4.3	1.511	1.957	30.7	19.6	100 E	25*	81
8 14	15 27.09	−18 25.7	1.590	1.928	31.6	19.7	93 E	22*	82*
8 24	15 40.42	−19 49.1	1.669	1.901	32.1	19.8	87 E	20*	80*
9 3	15 56.12	−21 11.8	1.746	1.873	32.1	19.8	81 E	19*	75*
9 13	16 14.01	−22 31.0	1.821	1.847	31.8	19.9	76 E	17*	69*
9 23	16 33.91	−23 44.0	1.892	1.822	31.3	19.9	70 E	16*	64*
10 3	16 55.65	−24 48.0	1.960	1.798	30.5	19.9	66 E	15*	60*
10 13	17 19.08	−25 40.3	2.024	1.775	29.5	20.0	61 E	14*	55*
10 23	17 43.99	−26 18.3	2.085	1.753	28.4	20.0	57 E	14*	51*
11 2	18 10.19	−26 39.6	2.142	1.734	27.2	20.0	53 E	14*	46*
11 12	18 37.45	−26 42.4	2.195	1.716	25.8	20.0	49 E	14*	42*
11 22	19 5.50	−26 25.0	2.245	1.700	24.3	19.9	45 E	14*	38*
12 2	19 34.06	−25 46.8	2.292	1.686	22.8	19.9	42 E	14*	34*
12 12	20 2.90	−24 47.4	2.336	1.674	21.3	19.9	38 E	14*	30*
12 22	20 31.73	−23 27.4	2.378	1.665	19.6	19.9	35 E	14*	26*
1 1	21 0.36	−21 48.2	2.417	1.658	18.0	19.8	31 E	14*	22*
1 11	21 28.65	−19 51.3	2.455	1.654	16.3	19.8	28 E	13*	18*
1 21	21 56.46	−17 39.2	2.492	1.653	14.6	19.8	25 E	12*	15*
488693 2003 WW_{87}									
12 27	14 35.35	+59 45.2	1.377	1.763	33.7	20.3	95 W	72*	—
1 1	14 45.45	+60 32.4	1.399	1.800	32.9	20.4	97 W	72*	—
1 6	14 54.04	+61 24.9	1.421	1.837	32.0	20.4	98 W	72*	—
1 11	15 1.05	+62 22.6	1.443	1.873	31.2	20.5	99 W	72*	—
1 16	15 6.36	+63 25.2	1.465	1.910	30.4	20.5	101 W	71*	—
1 21	15 9.81	+64 32.0	1.487	1.947	29.6	20.6	102 W	70*	—
1 26	15 11.21	+65 41.9	1.510	1.983	28.9	20.6	103 W	69	—
1 31	15 10.33	+66 53.7	1.534	2.019	28.2	20.7	104 W	68	—
2 5	15 6.88	+68 5.8	1.558	2.055	27.5	20.8	106 W	67	—
2 10	15 0.51	+69 16.3	1.584	2.090	26.9	20.8	106 W	66	—
2 15	14 50.91	+70 22.4	1.612	2.126	26.3	20.9	107 W	65	—
2 20	14 37.83	+71 21.0	1.641	2.161	25.8	20.9	108 W	64	—
2 25	14 21.28	+72 8.7	1.672	2.195	25.3	21.0	108 W	63	—
3 2	14 1.59	+72 42.0	1.705	2.230	24.9	21.1	109 W	62	—
3 7	13 39.53	+72 58.0	1.741	2.264	24.5	21.1	109 W	62	—
3 12	13 16.31	+72 54.3	1.779	2.298	24.2	21.2	109 W	62	—
3 17	12 53.34	+72 30.2	1.820	2.331	23.9	21.3	108 W	62	—
3 22	12 31.97	+71 46.7	1.864	2.364	23.7	21.3	108 W	63	—
3 27	12 13.12	+70 45.7	1.911	2.397	23.5	21.4	107 E	64	—
4 1	11 57.22	+69 30.3	1.961	2.430	23.3	21.5	106 E	65	—
4 6	11 44.30	+68 3.3	2.014	2.462	23.2	21.6	104 E	67	—
4 11	11 34.18	+66 27.4	2.069	2.494	23.1	21.7	103 E	69	—
4 16	11 26.55	+64 45.1	2.128	2.525	22.9	21.7	101 E	70	—
4 21	11 21.04	+62 58.3	2.189	2.556	22.8	21.8	100 E	72	1
156716 2002 RK_{27}									
12 27	14 35.59	−12 16.4	2.181	1.807	26.5	21.5	55 W	31*	39*
1 6	14 59.08	−13 50.6	2.080	1.790	28.2	21.4	59 W	30*	44*
1 16	15 22.81	−15 13.7	1.977	1.773	29.8	21.3	64 W	29*	50*
1 26	15 46.69	−16 24.3	1.874	1.758	31.3	21.2	68 W	28*	56*
2 5	16 10.59	−17 21.6	1.770	1.743	32.6	21.1	72 W	27*	62*
2 15	16 34.36	−18 4.9	1.666	1.729	33.8	21.0	77 W	27*	67*
2 25	16 57.77	−18 33.8	1.564	1.717	34.7	20.9	81 W	26*	72*
3 7	17 20.60	−18 48.9	1.463	1.705	35.5	20.7	86 W	26*	77*
3 17	17 42.57	−18 50.8	1.364	1.695	35.9	20.6	90 W	26*	81*
3 27	18 3.33	−18 41.3	1.268	1.686	36.1	20.4	95 W	26*	83*
4 6	18 22.58	−18 22.6	1.175	1.679	35.9	20.2	101 W	26*	82
4 16	18 39.90	−17 57.5	1.085	1.673	35.1	20.0	106 W	27*	82
4 26	18 54.83	−17 29.8	1.001	1.668	33.9	19.8	112 W	27*	81
5 6	19 6.94	−17 3.7	0.921	1.666	31.9	19.6	119 W	28*	81
5 16	19 15.64	−16 44.1	0.849	1.664	29.1	19.3	127 W	28	81
5 26	19 20.46	−16 35.9	0.786	1.665	25.4	19.1	135 W	28	81
6 5	19 21.08	−16 43.2	0.733	1.667	20.7	18.8	144 W	28	81
6 15	19 17.45	−17 8.5	0.694	1.671	15.0	18.5	155 W	28	81
6 25	19 10.27	−17 50.8	0.672	1.676	8.5	18.1	166 W	27	82
6 30	19 5.77	−18 17.0	0.667	1.679	5.2	18.0	171 W	27	82
7 5	19 0.96	−18 45.5	0.667	1.683	2.5	17.8	176 W	26	83
7 10	18 56.11	−19 15.3	0.672	1.686	3.4	17.9	174 E	26	83
7 15	18 51.49	−19 45.6	0.682	1.691	6.5	18.1	169 E	25	84
7 20	18 47.39	−20 15.4	0.696	1.695	9.7	18.3	164 E	25	84
7 25	18 44.00	−20 44.2	0.715	1.700	12.8	18.5	158 E	24	85
7 30	18 41.47	−21 11.4	0.738	1.706	15.8	18.7	153 E	24	85
8 4	18 39.92	−21 36.6	0.766	1.711	18.5	18.8	148 E	23	86
8 14	18 39.98	−22 20.1	0.831	1.723	23.1	19.2	138 E	23	86
8 24	18 44.25	−22 53.5	0.909	1.737	26.7	19.5	129 E	22	87
9 3	18 52.27	−23 15.7	0.998	1.751	29.4	19.8	122 E	22	87
9 13	19 3.51	−23 26.2	1.094	1.766	31.3	20.1	114 E	22	87
9 23	19 17.38	−23 24.2	1.198	1.782	32.4	20.3	108 E	22	87
10 3	19 33.29	−23 9.3	1.307	1.799	33.0	20.5	102 E	22	87
10 13	19 50.79	−22 41.2	1.420	1.817	33.1	20.7	96 E	22	87*
10 23	20 9.43	−21 59.8	1.537	1.834	32.8	20.9	90 E	23	82*
11 2	20 28.88	−21 5.5	1.655	1.853	32.2	21.1	85 E	24	76*
11 12	20 48.87	−19 58.9	1.775	1.871	31.4	21.2	80 E	25	70*
11 22	21 9.18	−18 40.8	1.895	1.890	30.2	21.4	75 E	26	63*
12 2	21 29.63	−17 12.2	2.015	1.909	28.9	21.5	70 E	28*	57*
134341 1979 *MA*									
12 27	14 36.53	−32 46.9	2.102	1.658	27.2	19.1	50 W	11*	44*
1 1	14 52.04	−33 59.8	2.071	1.654	27.8	19.1	52 W	10*	45*
1 6	15 7.83	−35 6.9	2.040	1.651	28.5	19.1	53 W	9*	47*
1 11	15 23.86	−36 7.7	2.009	1.648	29.1	19.1	55 W	8*	49*
1 16	15 40.08	−37 1.7	1.978	1.647	29.7	19.1	56 W	7*	50*
1 21	15 56.44	−37 48.7	1.947	1.646	30.3	19.0	58 W	6*	52*
1 26	16 12.87	−38 28.2	1.917	1.647	30.9	19.0	59 W	6*	53*
1 31	16 29.31	−39 0.3	1.887	1.648	31.4	19.0	61 W	5*	54*
2 5	16 45.68	−39 24.7	1.856	1.650	32.0	19.0	62 W	4*	56*
2 10	17 1.90	−39 41.6	1.826	1.653	32.5	19.0	64 W	4*	57*
2 15	17 17.89	−39 51.0	1.795	1.656	32.9	19.0	66 W	4*	58*
2 20	17 33.57	−39 53.2	1.764	1.661	33.4	18.9	68 W	4*	60*
2 25	17 48.84	−39 48.3	1.732	1.666	33.8	18.9	69 W	4*	61*
3 2	18 3.66	−39 36.9	1.700	1.673	34.2	18.9	71 W	4*	63*
3 7	18 17.94	−39 19.3	1.668	1.680	34.5	18.9	73 W	4*	64*
3 12	18 31.64	−38 56.0	1.635	1.688	34.8	18.8	76 W	4*	66*
3 17	18 44.67	−38 27.5	1.601	1.696	35.0	18.8	78 W	4*	68*
3 27	19 8.59	−37 16.9	1.533	1.716	35.2	18.7	82 W	5*	72*
4 6	19 29.39	−35 51.5	1.462	1.738	35.1	18.7	88 W	7*	76*
4 16	19 46.76	−34 15.1	1.390	1.763	34.6	18.6	93 W	8*	81*
4 26	20 0.42	−32 30.7	1.317	1.790	33.6	18.5	100 W	10*	83
5 6	20 10.10	−30 40.8	1.246	1.819	32.0	18.3	107 W	13*	85
5 16	20 15.47	−28 46.8	1.178	1.850	29.7	18.2	115 W	16*	87
5 26	20 16.27	−26 49.5	1.116	1.882	26.4	18.0	124 W	18*	89
6 5	20 12.43	−24 48.7	1.064	1.916	22.3	17.8	134 W	20	89
6 15	20 4.18	−22 44.6	1.027	1.951	17.2	17.6	145 W	22	87
6 20	19 58.65	−21 41.6	1.016	1.968	14.4	17.5	151 W	23	86
6 25	19 52.40	−20 38.4	1.010	1.986	11.4	17.4	157 W	24	85
6 30	19 45.63	−19 35.4	1.009	2.005	8.4	17.3	163 W	25	84
7 5	19 38.57	−18 33.4	1.015	2.023	5.4	17.2	169 W	26	83
7 10	19 31.46	−17 33.2	1.027	2.041	2.9	17.1	174 W	27	82
7 15	19 24.55	−16 35.5	1.046	2.060	2.8	17.2	174 E	28	81
7 20	19 18.07	−15 41.2	1.071	2.079	5.1	17.4	169 E	29	80
7 25	19 12.19	−14 50.9	1.103	2.097	7.8	17.6	164 E	30	79
8 4	19 2.75	−13 23.5	1.184	2.135	12.7	18.0	152 E	32	77
8 14	18 56.85	−12 14.3	1.285	2.173	16.8	18.3	142 E	33	76
8 24	18 54.57	−11 21.0	1.405	2.211	19.9	18.7	132 E	34	75
9 3	18 55.61	−10 40.2	1.538	2.249	22.2	19.0	123 E	34	75
9 13	18 59.54	−10 7.9	1.682	2.287	23.7	19.2	114 E	35	74
9 23	19 5.93	− 9 40.2	1.833	2.324	24.5	19.5	106 E	35	74
10 3	19 14.31	− 9 14.1	1.990	2.362	24.8	19.7	99 E	36	73
10 13	19 24.34	− 8 46.9	2.150	2.398	24.6	19.9	92 E	36	71*
10 23	19 35.68	− 8 16.7	2.311	2.435	24.0	20.1	85 E	37*	67*
11 2	19 48.07	− 7 42.1	2.471	2.470	23.2	20.2	78 E	37*	60*
11 12	20 1.28	− 7 1.9	2.629	2.506	22.1	20.4	72 E	38*	53*
11 22	20 15.11	− 6 15.6	2.782	2.540	20.8	20.5	66 E	38*	46*
12 2	20 29.41	− 5 22.6	2.929	2.574	19.3	20.6	60 E	37*	39*
12 12	20 44.05	− 4 22.9	3.070	2.608	17.7	20.6	54 E	37*	31*
12 22	20 58.90	− 3 16.5	3.201	2.640	16.0	20.7	48 E	35*	24*
1 1	21 13.88	− 2 3.6	3.323	2.672	14.2	20.7	42 E	32*	17*
1 11	21 28.91	− 0 44.5	3.434	2.703	12.4	20.8	36 E	29*	11*
1 21	21 43.90	+ 0 40.3	3.533	2.734	10.6	20.8	31 E	25*	5*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
138205 2000 EZ_{148}									
12 27	14 36.54	−17 58.6	2.467	2.033	22.7	19.5	53 W	25*	41*
1 6	14 58.21	−20 10.5	2.294	1.955	25.2	19.3	58 W	24*	47*
1 16	15 21.58	−22 23.2	2.122	1.874	27.6	19.1	62 W	22*	53*
1 26	15 47.06	−24 35.5	1.951	1.793	30.1	18.9	66 W	20*	58*
1 31	16 0.74	−25 40.8	1.867	1.752	31.4	18.8	68 W	19*	61*
2 5	16 15.15	−26 45.2	1.784	1.711	32.7	18.7	70 W	18*	63*
2 10	16 30.38	−27 48.1	1.703	1.669	34.0	18.6	71 W	17*	65*
2 15	16 46.51	−28 48.7	1.625	1.628	35.4	18.5	72 W	16*	66*
2 20	17 3.63	−29 46.3	1.549	1.586	36.7	18.3	74 W	15*	68*
2 25	17 21.85	−30 39.7	1.475	1.545	38.2	18.2	75 W	14*	69*
3 2	17 41.26	−31 27.4	1.405	1.503	39.7	18.1	76 W	13*	69*
3 7	18 1.94	−32 7.9	1.339	1.462	41.2	18.0	76 W	11*	70*
3 12	18 23.95	−32 38.9	1.276	1.422	42.8	17.9	76 W	10*	69*
3 17	18 47.28	−32 58.0	1.218	1.381	44.5	17.7	76 W	9*	69*
3 22	19 11.89	−33 2.7	1.165	1.342	46.2	17.6	76 W	9*	69*
3 27	19 37.65	−32 50.2	1.118	1.303	47.9	17.5	76 W	8*	68*
4 1	20 4.36	−32 18.0	1.076	1.265	49.7	17.4	75 W	7*	67*
4 6	20 31.74	−31 24.1	1.040	1.229	51.5	17.3	74 W	6*	66*
4 11	20 59.42	−30 7.4	1.010	1.194	53.3	17.3	73 W	6*	65*
4 16	21 27.02	−28 27.8	0.986	1.161	55.0	17.2	71 W	5*	64*
4 21	21 54.19	−26 26.6	0.969	1.130	56.6	17.1	70 W	5*	62*
4 26	22 20.61	−24 5.9	0.959	1.101	58.0	17.1	68 W	5*	61*
5 1	22 46.07	−21 29.1	0.954	1.076	59.2	17.1	66 W	5*	60*
5 6	23 10.42	−18 39.9	0.956	1.053	60.1	17.1	65 W	5*	58*
5 11	23 33.59	−15 42.3	0.962	1.034	60.7	17.1	63 W	6*	57*
5 16	23 55.58	−12 40.2	0.973	1.019	60.9	17.1	62 W	7*	56*
5 21	0 16.44	− 9 36.8	0.988	1.008	60.9	17.1	61 W	8*	55*
5 26	0 36.26	− 6 35.1	1.006	1.002	60.6	17.1	59 W	10*	53*
5 31	0 55.13	− 3 37.3	1.027	1.000	60.0	17.1	59 W	11*	52*
6 5	1 13.15	− 0 45.0	1.050	1.002	59.2	17.1	58 W	13*	51*
6 10	1 30.41	+ 2 0.4	1.074	1.009	58.2	17.2	58 W	15*	50*
6 15	1 46.98	+ 4 38.0	1.098	1.020	57.1	17.2	58 W	18*	49*
6 25	2 18.28	+ 9 27.9	1.147	1.055	54.8	17.3	58 W	23*	46*
7 5	2 47.42	+13 43.2	1.191	1.103	52.4	17.4	59 W	28*	44*
7 15	3 14.54	+17 25.2	1.229	1.163	50.2	17.5	62 W	35*	42*
7 25	3 39.60	+20 36.9	1.258	1.232	48.1	17.7	65 W	41*	40*
8 4	4 2.52	+23 22.5	1.277	1.306	46.2	17.8	68 W	48*	39*
8 14	4 23.06	+25 46.7	1.286	1.385	44.4	17.9	73 W	55*	37*
8 24	4 40.91	+27 54.1	1.285	1.466	42.5	17.9	78 W	62*	35*
9 3	4 55.71	+29 49.5	1.275	1.548	40.4	18.0	84 W	69*	34*
9 13	5 6.96	+31 36.8	1.257	1.631	38.1	18.0	92 W	75*	32*
9 18	5 11.07	+32 28.4	1.246	1.673	36.7	18.0	95 W	77*	32
9 23	5 14.09	+33 19.0	1.234	1.714	35.3	18.0	99 W	78	31
9 28	5 15.93	+34 8.7	1.222	1.755	33.7	18.0	104 W	79	30
10 3	5 16.51	+34 57.3	1.209	1.796	31.9	17.9	108 W	80	29
10 8	5 15.76	+35 44.4	1.197	1.837	30.0	17.9	113 W	81	28
10 13	5 13.62	+36 29.4	1.187	1.878	27.9	17.9	118 W	81	28
10 18	5 10.08	+37 11.4	1.178	1.918	25.7	17.8	124 W	82	27
10 23	5 5.16	+37 49.5	1.172	1.958	23.3	17.8	129 W	83	26
10 28	4 58.94	+38 22.2	1.170	1.997	20.7	17.8	135 W	83	26
11 2	4 51.53	+38 48.3	1.171	2.037	18.1	17.7	140 W	84	25
11 7	4 43.16	+39 6.5	1.178	2.075	15.5	17.7	146 W	84	25
11 12	4 34.09	+39 15.8	1.191	2.114	12.9	17.7	151 W	84	25
11 17	4 24.67	+39 15.9	1.209	2.152	10.6	17.6	156 W	84	25
11 22	4 15.24	+39 7.0	1.235	2.190	8.8	17.7	160 W	84	25
11 27	4 6.12	+38 49.7	1.267	2.227	7.8	17.7	162 E	84	25
12 2	3 57.60	+38 25.4	1.306	2.264	7.8	17.8	162 E	83	26
12 7	3 49.92	+37 55.7	1.352	2.300	8.7	18.0	159 E	83	26
12 12	3 43.25	+37 22.2	1.404	2.336	10.1	18.1	156 E	82	27
12 17	3 37.69	+36 46.9	1.463	2.372	11.6	18.3	151 E	82	27
12 22	3 33.27	+36 11.2	1.528	2.407	13.2	18.5	146 E	81	28
12 27	3 29.97	+35 36.3	1.599	2.442	14.7	18.7	141 E	81	28
1 1	3 27.74	+35 3.2	1.674	2.476	16.1	18.9	136 E	80	29
1 6	3 26.53	+34 32.5	1.754	2.510	17.2	19.0	131 E	80	29
1 11	3 26.26	+34 4.8	1.838	2.544	18.2	19.2	126 E	79	30
1 16	3 26.85	+33 40.3	1.926	2.577	19.1	19.3	121 E	79	30
1 21	3 28.22	+33 19.0	2.017	2.609	19.7	19.5	117 E	78	31
413192 2002 VY_{94}									
12 27	14 36.97	−22 47.6	1.483	1.167	41.4	19.6	52 W	20*	42*
1 6	15 12.91	−25 30.9	1.509	1.212	40.5	19.7	53 W	18*	45*
1 16	15 47.18	−27 33.5	1.533	1.268	39.7	19.8	55 W	16*	48*
1 26	16 19.28	−28 59.6	1.553	1.332	39.0	19.9	58 W	15*	52*
2 5	16 48.84	−29 54.8	1.565	1.402	38.3	20.0	62 W	14*	56*
2 15	17 15.53	−30 25.0	1.570	1.478	37.7	20.1	66 W	13*	60*
2 25	17 39.08	−30 36.1	1.565	1.556	37.0	20.2	71 W	13*	65*
3 7	17 59.31	−30 33.8	1.552	1.637	36.1	20.3	77 W	13*	70*
3 17	18 16.03	−30 22.9	1.531	1.719	35.0	20.3	83 W	13*	76*
3 27	18 28.99	−30 7.5	1.502	1.803	33.6	20.4	90 W	14*	83*
4 6	18 38.03	−29 50.7	1.469	1.886	31.7	20.4	98 W	15*	86

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
413192 2002 VY_{94} *(continuation)*									
4 16	18 42.89	−29 34.5	1.433	1.969	29.3	20.3	106 W	15*	86
4 26	18 43.37	−29 19.7	1.400	2.051	26.1	20.3	116 W	16*	87
5 6	18 39.48	−29 5.2	1.373	2.133	22.3	20.2	127 W	16	87
5 16	18 31.46	−28 48.7	1.358	2.214	17.8	20.1	138 W	16	87
5 21	18 26.11	−28 38.7	1.357	2.255	15.4	20.1	144 W	16	87
5 26	18 20.07	−28 27.0	1.361	2.294	12.8	20.0	150 W	17	88
5 31	18 13.48	−28 13.4	1.371	2.334	10.2	20.0	156 W	17	88
6 5	18 6.55	−27 57.6	1.387	2.373	7.5	19.9	162 W	17	88
6 10	17 59.48	−27 39.8	1.409	2.412	4.9	19.9	168 W	17	88
6 15	17 52.47	−27 20.2	1.438	2.451	2.5	19.8	174 W	18	89
6 20	17 45.74	−26 59.2	1.475	2.489	1.6	19.8	176 E	18	89
6 25	17 39.43	−26 37.2	1.518	2.527	3.5	20.1	171 E	18	89
6 30	17 33.70	−26 14.9	1.568	2.565	5.6	20.3	166 E	19	90
7 5	17 28.62	−25 52.8	1.625	2.603	7.7	20.5	160 E	19	90
7 15	17 20.72	−25 10.9	1.756	2.677	11.4	20.9	149 E	20	89
7 25	17 15.93	−24 34.6	1.909	2.749	14.3	21.2	138 E	20	89
8 4	17 14.11	−24 5.1	2.081	2.821	16.5	21.5	128 E	21	88
8 14	17 14.97	−23 42.3	2.266	2.891	17.9	21.8	119 E	21	88
163696 2003 EB_{50}									
12 27	14 37.44	+ 8 28.4	2.486	2.232	23.3	21.3	64 W	50*	28*
1 6	14 52.19	+ 7 47.3	2.345	2.201	24.7	21.2	69 W	52*	35*
1 16	15 6.42	+ 7 17.9	2.197	2.167	26.0	21.1	75 W	52*	41*
1 26	15 19.94	+ 7 0.7	2.044	2.131	27.2	20.9	81 W	52*	47*
2 5	15 32.56	+ 6 56.3	1.887	2.091	28.1	20.7	88 W	52	52*
2 15	15 44.01	+ 7 5.2	1.728	2.048	28.8	20.5	94 W	52	55*
2 25	15 53.93	+ 7 27.5	1.568	2.002	29.1	20.3	101 W	52	57*
3 7	16 1.90	+ 8 2.7	1.410	1.953	29.0	20.0	107 W	53	56
3 17	16 7.29	+ 8 50.2	1.256	1.901	28.4	19.6	115 W	54	55
3 27	16 9.31	+ 9 47.2	1.108	1.846	27.2	19.3	122 W	55	54
4 1	16 8.75	+10 17.9	1.037	1.817	26.3	19.1	126 W	55	54
4 6	16 6.95	+10 49.0	0.969	1.787	25.3	18.9	130 W	56	53
4 11	16 3.72	+11 19.3	0.903	1.756	24.1	18.6	134 W	56	53
4 16	15 58.89	+11 46.9	0.841	1.725	22.7	18.4	138 W	57	52
4 21	15 52.28	+12 9.6	0.782	1.693	21.3	18.1	142 W	57	52
4 26	15 43.74	+12 24.5	0.728	1.660	19.9	17.9	146 W	57	52
5 1	15 33.14	+12 28.4	0.678	1.626	18.8	17.7	149 W	57	52
5 6	15 20.45	+12 17.4	0.634	1.591	18.3	17.5	150 W	57	52
5 11	15 5.76	+11 47.1	0.595	1.555	18.7	17.3	150 E	57	52
5 16	14 49.33	+10 53.6	0.562	1.519	20.4	17.2	148 E	56	53
5 21	14 31.62	+ 9 34.3	0.536	1.482	23.4	17.1	144 E	55	54
5 26	14 13.22	+ 7 48.4	0.517	1.444	27.3	17.1	139 E	53	56
5 31	13 54.77	+ 5 37.4	0.503	1.405	31.9	17.1	133 E	51	58
6 5	13 36.87	+ 3 5.0	0.495	1.366	36.9	17.1	126 E	48	61
6 10	13 20.04	+ 0 15.9	0.492	1.326	42.0	17.2	119 E	45*	64
6 15	13 4.62	− 2 44.6	0.494	1.285	47.1	17.3	112 E	41*	67
6 20	12 50.73	− 5 52.0	0.498	1.244	52.0	17.4	105 E	35*	70
6 25	12 38.30	− 9 2.5	0.504	1.203	56.6	17.5	99 E	29*	73
6 30	12 27.18	−12 13.4	0.512	1.161	61.0	17.5	93 E	23*	76
7 5	12 17.10	−15 23.1	0.520	1.120	65.1	17.6	87 E	17*	78*
7 10	12 7.78	−18 30.6	0.528	1.078	69.0	17.7	82 E	11*	76*
7 15	11 58.85	−21 34.8	0.534	1.037	72.8	17.8	77 E	5*	71*
7 20	11 49.91	−24 34.6	0.539	0.997	76.5	17.8	72 E	—	64*
7 25	11 40.51	−27 28.0	0.543	0.957	80.1	17.9	68 E	—	58*
7 30	11 30.19	−30 12.0	0.544	0.920	83.6	17.9	64 E	—	51*
8 4	11 18.54	−32 42.4	0.543	0.884	87.2	18.0	61 E	—	44*
8 9	11 5.16	−34 53.4	0.541	0.852	90.6	18.0	57 E	—	37*
8 14	10 49.80	−36 37.1	0.537	0.823	94.0	18.1	54 E	—	30*
8 19	10 32.49	−37 44.3	0.531	0.798	97.2	18.1	51 E	—	23*
8 24	10 13.73	−38 4.7	0.524	0.778	100.0	18.2	49 E	—	15*
8 26	10 6.03	−37 58.0	0.522	0.772	101.0	18.2	49 W	—	17*
8 28	9 58.34	−37 42.1	0.519	0.767	101.9	18.2	48 W	—	19*
8 30	9 50.73	−37 16.9	0.516	0.762	102.6	18.2	47 W	—	22*
9 1	9 43.31	−36 42.3	0.514	0.759	103.3	18.2	47 W	—	24*
9 3	9 36.16	−35 58.4	0.511	0.757	103.8	18.3	47 W	—	26*
9 5	9 29.34	−35 5.5	0.509	0.755	104.1	18.3	47 W	—	29*
9 7	9 22.94	−34 3.9	0.506	0.755	104.3	18.3	47 W	—	31*
9 9	9 17.01	−32 54.1	0.504	0.756	104.3	18.3	47 W	—	33*
9 11	9 11.59	−31 36.8	0.502	0.758	104.2	18.2	47 W	—	35*
9 13	9 6.70	−30 12.5	0.500	0.762	103.8	18.2	47 W	—	37*
9 18	8 56.92	−26 16.1	0.496	0.774	102.4	18.2	49 W	1*	41*
9 23	8 50.54	−21 52.4	0.493	0.792	100.0	18.1	51 W	8*	45*
9 28	8 47.22	−17 11.8	0.491	0.815	97.0	18.0	54 W	16*	47*
10 3	8 46.45	−12 22.2	0.490	0.843	93.5	17.9	57 W	23*	49*
10 8	8 47.65	− 7 29.0	0.488	0.875	89.6	17.8	61 W	31*	49*
10 13	8 50.31	− 2 34.5	0.486	0.910	85.5	17.7	65 W	37*	49*
10 23	8 58.23	+ 7 15.5	0.483	0.986	76.9	17.6	75 W	50*	46*
11 2	9 7.14	+17 12.0	0.480	1.067	68.0	17.4	85 W	62*	41*
11 12	9 14.18	+27 23.3	0.480	1.150	58.7	17.3	97 W	72	34*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
163696 2003 EB_{50} *(continuation)*									
11 17	9 16.11	+32 33.9	0.483	1.192	54.1	17.3	103 W	78	30*
11 22	9 16.44	+37 44.7	0.489	1.233	49.4	17.2	108 W	83	26*
11 27	9 14.69	+42 51.5	0.497	1.274	44.9	17.2	114 W	88	21*
12 2	9 10.24	+47 48.5	0.510	1.315	40.7	17.2	120 W	87	16
12 4	9 7.56	+49 42.9	0.516	1.331	39.1	17.2	122 W	85	14
12 6	9 4.29	+51 34.1	0.522	1.347	37.5	17.3	124 W	83	12
12 8	9 0.40	+53 21.4	0.530	1.363	36.1	17.3	125 W	82	11
12 10	8 55.84	+55 4.3	0.538	1.379	34.7	17.3	127 W	80	9
12 12	8 50.59	+56 42.2	0.547	1.395	33.4	17.3	129 W	78	7
12 17	8 34.28	+60 22.2	0.574	1.433	30.6	17.4	132 W	75	4
12 22	8 13.43	+63 21.0	0.605	1.471	28.5	17.5	134 W	72	1
12 27	7 48.76	+65 33.6	0.640	1.509	27.2	17.6	136 W	69	—
1 1	7 21.99	+66 58.8	0.681	1.545	26.4	17.8	136 W	68	—
1 2	7 16.59	+67 10.3	0.689	1.553	26.3	17.8	136 W	68	—
1 3	7 11.22	+67 20.1	0.698	1.560	26.2	17.9	135 W	68	—
1 4	7 5.92	+67 28.2	0.707	1.567	26.2	17.9	135 W	68	—
1 5	7 0.68	+67 34.7	0.716	1.574	26.2	17.9	135 E	67	—
1 6	6 55.54	+67 39.6	0.726	1.581	26.2	18.0	135 E	67	—
1 7	6 50.51	+67 43.0	0.735	1.588	26.2	18.0	135 E	67	—
1 8	6 45.61	+67 45.1	0.745	1.595	26.2	18.1	134 E	67	—
1 9	6 40.85	+67 45.7	0.755	1.602	26.2	18.1	134 E	67	—
1 10	6 36.24	+67 45.2	0.764	1.609	26.2	18.1	134 E	67	—
1 11	6 31.80	+67 43.4	0.775	1.616	26.3	18.2	133 E	67	—
1 13	6 23.43	+67 36.7	0.795	1.630	26.4	18.3	133 E	67	—
1 15	6 15.79	+67 26.2	0.816	1.644	26.6	18.3	132 E	68	—
1 17	6 8.91	+67 12.5	0.838	1.657	26.7	18.4	131 E	68	—
1 19	6 2.78	+66 56.0	0.860	1.670	26.9	18.5	130 E	68	—
1 21	5 57.41	+66 37.3	0.883	1.684	27.1	18.6	129 E	68	—
302830 2003 FB									
12 27	14 37.71	+ 9 8.2	0.675	0.917	74.5	20.4	64 W	51*	27*
1 1	14 47.63	+ 7 41.2	0.701	0.945	71.7	20.4	66 W	50*	31*
1 6	14 57.09	+ 6 17.0	0.723	0.974	69.0	20.5	68 W	50*	35*
1 11	15 6.07	+ 4 56.3	0.740	1.005	66.6	20.5	70 W	49*	38*
1 16	15 14.51	+ 3 39.4	0.754	1.038	64.3	20.5	72 W	48*	42*
1 21	15 22.37	+ 2 26.4	0.763	1.072	62.2	20.6	74 W	47*	46*
1 26	15 29.60	+ 1 17.5	0.768	1.106	60.2	20.6	77 W	46*	50*
1 31	15 36.15	+ 0 12.2	0.770	1.140	58.3	20.6	80 W	45*	53*
2 5	15 41.95	− 0 49.4	0.769	1.175	56.4	20.6	83 W	44	57*
2 10	15 46.91	− 1 47.7	0.764	1.210	54.5	20.6	86 W	43	61*
2 15	15 50.93	− 2 42.9	0.756	1.245	52.5	20.6	90 W	42	64*
2 20	15 53.91	− 3 35.6	0.746	1.280	50.4	20.6	94 W	41	66*
2 25	15 55.74	− 4 26.2	0.733	1.314	48.2	20.5	98 W	41	68*
3 2	15 56.30	− 5 15.1	0.719	1.348	45.8	20.5	103 W	40	69
3 7	15 55.47	− 6 2.8	0.704	1.381	43.2	20.4	108 W	39	70
3 17	15 49.08	− 7 35.6	0.674	1.446	37.1	20.2	119 W	37	72
3 27	15 35.82	− 9 5.9	0.649	1.509	29.6	20.0	132 W	36	73
4 6	15 15.90	−10 31.8	0.635	1.568	20.9	19.8	146 W	34	75
4 11	15 3.93	−11 11.3	0.636	1.597	16.2	19.7	154 W	34	75
4 16	14 51.12	−11 47.6	0.642	1.625	11.3	19.6	162 W	33	76
4 21	14 37.98	−12 20.1	0.654	1.652	6.4	19.5	169 W	33	76
4 26	14 25.05	−12 48.7	0.673	1.679	1.7	19.3	177 W	32	77
5 1	14 12.81	−13 13.7	0.699	1.704	3.0	19.5	175 E	32	77
5 6	14 1.65	−13 35.6	0.731	1.729	7.2	19.8	168 E	31	78
5 11	13 51.84	−13 55.3	0.769	1.753	11.1	20.1	161 E	31	78
5 16	13 43.54	−14 13.8	0.812	1.777	14.5	20.4	154 E	31	78
5 26	13 31.64	−14 51.0	0.915	1.821	20.2	20.9	142 E	30	79
6 5	13 25.48	−15 32.0	1.032	1.862	24.3	21.4	131 E	29	80
6 15	13 24.18	−16 19.3	1.162	1.901	27.1	21.7	121 E	28*	80
6 25	13 26.78	−17 13.5	1.299	1.936	28.9	22.1	113 E	26*	81
193749 2001 KG									
12 27	14 38.25	−11 26.1	2.745	2.321	20.2	21.4	55 W	31*	38*
1 6	14 55.16	−12 50.6	2.604	2.286	22.0	21.3	61 W	31*	45*
1 16	15 12.03	−14 9.7	2.458	2.252	23.6	21.2	66 W	30*	52*
1 26	15 28.76	−15 23.1	2.307	2.216	25.0	21.1	72 W	30*	60*
2 5	15 45.23	−16 30.9	2.154	2.180	26.3	21.0	78 W	28*	67*
2 15	16 1.28	−17 33.2	2.000	2.144	27.3	20.8	84 W	27	74*
2 25	16 16.72	−18 30.5	1.847	2.107	28.0	20.6	91 W	26	80*
3 7	16 31.32	−19 23.8	1.696	2.070	28.4	20.4	97 W	26	83
3 17	16 44.78	−20 14.4	1.549	2.032	28.4	20.1	104 W	25	84
3 27	16 56.75	−21 4.1	1.407	1.995	27.8	19.9	111 W	24	85
4 6	17 6.83	−21 55.2	1.272	1.958	26.7	19.6	118 W	23	86
4 16	17 14.47	−22 50.2	1.147	1.920	24.9	19.3	126 W	22	87
4 26	17 19.12	−23 51.7	1.032	1.884	22.2	18.9	135 W	21	88
5 6	17 20.24	−25 1.7	0.932	1.847	18.6	18.5	144 W	20	89
5 16	17 17.35	−26 20.4	0.847	1.812	13.9	18.1	154 W	19	90
5 26	17 10.48	−27 44.9	0.780	1.778	8.5	17.7	165 W	17	88

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
193749 2001 KG *(continuation)*									
5 31	17 5.74	−28 27.6	0.754	1.761	5.9	17.5	170 W	17	88
6 5	17 0.33	−29 9.2	0.733	1.744	4.0	17.3	173 W	16	87
6 10	16 54.48	−29 48.9	0.717	1.728	4.6	17.3	172 E	15	86
6 15	16 48.48	−30 25.8	0.706	1.713	7.2	17.3	168 E	15	86
6 20	16 42.67	−30 59.3	0.701	1.697	10.4	17.4	162 E	14	85
6 25	16 37.36	−31 29.3	0.700	1.683	13.7	17.5	157 E	14	85
6 30	16 32.81	−31 55.9	0.703	1.668	16.9	17.6	152 E	13	84
7 5	16 29.26	−32 19.2	0.710	1.655	19.9	17.7	146 E	13	84
7 10	16 26.91	−32 39.9	0.721	1.642	22.8	17.9	141 E	12	83
7 15	16 25.90	−32 58.6	0.734	1.629	25.5	18.0	136 E	12	83
7 25	16 28.12	−33 31.7	0.770	1.606	30.0	18.2	128 E	11	82
8 4	16 35.86	−34 0.6	0.813	1.586	33.6	18.4	120 E	11*	82
8 14	16 48.76	−34 24.8	0.862	1.569	36.3	18.5	113 E	10*	82
8 19	16 56.96	−34 34.4	0.889	1.562	37.4	18.6	110 E	10*	81
8 24	17 6.21	−34 41.9	0.916	1.556	38.3	18.7	108 E	10*	81
8 29	17 16.40	−34 46.6	0.944	1.550	39.0	18.8	105 E	10*	81
9 3	17 27.45	−34 47.9	0.973	1.546	39.6	18.9	102 E	10*	81
9 8	17 39.28	−34 45.5	1.003	1.542	40.0	18.9	100 E	10*	81
9 13	17 51.80	−34 38.9	1.034	1.540	40.3	19.0	98 E	10*	81
9 18	18 4.91	−34 27.5	1.065	1.538	40.5	19.1	96 E	10*	82
9 23	18 18.51	−34 11.1	1.098	1.537	40.6	19.1	94 E	11*	82*
9 28	18 32.50	−33 49.2	1.131	1.537	40.6	19.2	92 E	11*	81*
10 3	18 46.81	−33 21.7	1.165	1.539	40.6	19.3	90 E	12*	81*
10 8	19 1.35	−32 48.4	1.200	1.541	40.4	19.3	88 E	12*	80*
10 13	19 16.04	−32 9.3	1.237	1.544	40.2	19.4	87 E	13	80*
10 18	19 30.82	−31 24.5	1.274	1.548	39.9	19.5	85 E	14	79*
10 23	19 45.59	−30 34.1	1.312	1.553	39.5	19.5	83 E	14	77*
10 28	20 0.31	−29 38.3	1.352	1.559	39.1	19.6	82 E	15	76*
11 2	20 14.94	−28 37.4	1.392	1.566	38.6	19.6	80 E	16	74*
11 7	20 29.42	−27 31.7	1.434	1.573	38.1	19.7	79 E	17	72*
11 12	20 43.74	−26 21.6	1.477	1.582	37.6	19.8	77 E	19	70*
11 17	20 57.86	−25 7.5	1.521	1.591	37.0	19.8	75 E	20	68*
11 22	21 11.76	−23 49.9	1.566	1.601	36.3	19.9	74 E	21	65*
11 27	21 25.43	−22 29.0	1.613	1.612	35.6	19.9	72 E	23	63*
12 2	21 38.86	−21 5.5	1.660	1.623	34.9	20.0	70 E	24	60*
12 7	21 52.07	−19 39.6	1.709	1.636	34.2	20.1	69 E	25*	58*
12 12	22 5.04	−18 11.8	1.759	1.648	33.4	20.1	67 E	27*	55*
12 17	22 17.79	−16 42.5	1.809	1.662	32.6	20.2	65 E	28*	52*
12 22	22 30.31	−15 12.1	1.860	1.676	31.8	20.2	64 E	29*	49*
12 27	22 42.62	−13 40.9	1.912	1.690	30.9	20.3	62 E	31*	46*
1 1	22 54.74	−12 9.3	1.965	1.705	30.0	20.3	60 E	32*	44*
1 6	23 6.67	−10 37.4	2.018	1.721	29.1	20.4	58 E	33*	41*
1 11	23 18.44	− 9 5.7	2.072	1.737	28.2	20.4	57 E	33*	39*
1 16	23 30.04	− 7 34.3	2.126	1.753	27.3	20.5	55 E	34*	36*
1 21	23 41.50	− 6 3.5	2.181	1.769	26.3	20.5	53 E	34*	34*
8176 1991 WA									
12 27	14 38.28	+24 52.0	1.919	1.880	30.0	21.0	73 W	65*	18*
1 6	15 0.72	+24 20.6	1.772	1.808	31.9	20.8	76 W	67*	22*
1 16	15 23.84	+23 58.5	1.624	1.731	33.9	20.6	79 W	67*	26*
1 26	15 47.84	+23 44.8	1.476	1.649	36.2	20.3	82 W	68*	30*
1 31	16 0.26	+23 40.6	1.402	1.606	37.5	20.2	83 W	68*	31*
2 5	16 13.04	+23 37.7	1.329	1.563	38.8	20.0	84 W	68*	33*
2 10	16 26.25	+23 35.6	1.256	1.518	40.3	19.9	84 W	68*	34*
2 15	16 39.98	+23 33.9	1.183	1.471	42.0	19.7	85 W	68*	35*
2 20	16 54.34	+23 31.4	1.111	1.424	43.8	19.6	85 W	68*	36*
2 25	17 9.50	+23 27.1	1.040	1.375	45.8	19.4	85 W	67*	37*
3 2	17 25.69	+23 19.3	0.969	1.325	48.2	19.3	85 W	67*	37*
3 7	17 43.17	+23 6.1	0.899	1.273	50.9	19.1	84 W	66*	38*
3 12	18 2.33	+22 44.5	0.831	1.221	54.0	18.9	83 W	65*	39*
3 17	18 23.61	+22 10.7	0.764	1.167	57.6	18.7	82 W	64*	39*
3 22	18 47.66	+21 18.9	0.699	1.112	61.9	18.6	80 W	61*	40*
3 27	19 15.21	+20 1.4	0.639	1.056	67.0	18.4	77 W	58*	41*
3 29	19 27.41	+19 21.1	0.616	1.033	69.3	18.4	75 W	56*	41*
3 31	19 40.36	+18 34.5	0.595	1.010	71.8	18.3	74 W	55*	41*
4 2	19 54.12	+17 40.8	0.574	0.987	74.4	18.3	72 W	53*	42*
4 4	20 8.72	+16 39.5	0.555	0.964	77.2	18.2	70 W	50*	42*
4 6	20 24.18	+15 29.8	0.538	0.941	80.1	18.2	68 W	48*	42*
4 11	21 6.59	+11 57.5	0.504	0.884	88.0	18.2	62 W	40*	42*
4 16	21 53.57	+ 7 36.7	0.487	0.827	96.1	18.4	55 W	31*	41*
4 21	22 42.95	+ 2 53.6	0.492	0.771	103.2	18.6	48 W	21*	39*
4 26	23 31.61	− 1 28.5	0.521	0.718	107.6	18.8	43 W	11*	36*
4 28	23 50.20	− 2 58.0	0.539	0.697	108.4	18.8	41 W	8*	35*
4 30	0 8.08	− 4 16.0	0.561	0.678	108.4	18.9	40 W	4*	34*
5 2	0 25.16	− 5 21.5	0.586	0.659	107.9	18.9	39 W	2*	32*
5 4	0 41.39	− 6 13.9	0.614	0.642	106.7	18.9	38 W	—	31*
5 6	0 56.75	− 6 53.3	0.646	0.626	105.0	18.8	37 W	—	30*

8176 1991 *WA* — *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 11	1 31.46	− 7 38.1	0.735	0.592	98.6	18.7	35 W	—	27*
5 16	2 1.47	− 7 15.7	0.835	0.570	90.0	18.5	34 W	—	26*
5 21	2 27.67	− 6 0.5	0.942	0.562	80.3	18.3	33 W	—	24*
5 26	2 50.90	− 4 7.9	1.050	0.569	70.4	18.3	32 W	—	23*
5 28	2 59.52	− 3 15.7	1.093	0.576	66.6	18.2	31 W	—	23*
5 30	3 7.80	− 2 20.7	1.135	0.585	63.0	18.2	31 W	—	22*
6 1	3 15.79	− 1 23.7	1.176	0.595	59.5	18.3	30 W	—	22*
6 3	3 23.50	− 0 25.3	1.217	0.608	56.3	18.3	30 W	—	22*
6 5	3 30.97	+ 0 33.8	1.256	0.623	53.2	18.3	29 W	—	22*
6 10	3 48.68	+ 3 1.6	1.349	0.665	46.6	18.4	28 W	—	21*
6 15	4 5.23	+ 5 25.4	1.434	0.714	41.4	18.6	28 W	—	21*
6 20	4 20.82	+ 7 41.9	1.512	0.767	37.4	18.7	27 W	—	21*
6 25	4 35.61	+ 9 49.7	1.581	0.823	34.5	18.9	27 W	—	21*
7 5	5 3.30	+13 38.3	1.700	0.937	30.9	19.2	28 W	5*	22*
7 15	5 28.96	+16 53.5	1.791	1.051	29.4	19.6	31 W	11*	22*
7 25	5 53.01	+19 40.7	1.860	1.163	29.1	19.8	34 W	17*	23*
8 4	6 15.68	+22 6.2	1.906	1.269	29.4	20.1	38 W	24*	23*
8 14	6 37.13	+24 15.3	1.931	1.371	30.1	20.3	43 W	31*	23*
8 24	6 57.37	+26 13.6	1.937	1.468	30.8	20.5	48 W	38*	23*
9 3	7 16.43	+28 6.1	1.926	1.559	31.5	20.6	54 W	45*	24*
9 13	7 34.24	+29 57.8	1.899	1.646	32.0	20.7	60 W	52*	24*
9 23	7 50.66	+31 53.8	1.859	1.728	32.2	20.8	67 W	59*	23*
10 3	8 5.52	+33 59.3	1.806	1.805	32.2	20.8	74 W	67*	23*
10 13	8 18.51	+36 19.9	1.746	1.878	31.7	20.8	81 W	74*	23*
10 23	8 29.21	+39 0.5	1.680	1.946	30.7	20.8	90 W	82*	22*
11 2	8 37.02	+42 5.6	1.613	2.010	29.2	20.7	98 W	87	20*
11 12	8 41.02	+45 37.3	1.550	2.071	27.2	20.7	107 W	89	18*
11 22	8 39.96	+49 33.1	1.496	2.127	24.6	20.6	116 W	85	14*
12 2	8 32.17	+53 43.5	1.458	2.180	21.7	20.5	125 W	81	10
12 7	8 25.12	+55 48.4	1.447	2.205	20.3	20.4	129 W	79	8
12 12	8 15.67	+57 48.5	1.441	2.230	18.9	20.4	133 W	77	6
12 17	8 3.70	+59 40.0	1.442	2.253	17.8	20.4	136 W	75	4
12 22	7 49.23	+61 18.6	1.449	2.275	16.9	20.4	138 W	74	3
12 24	7 42.80	+61 53.5	1.454	2.284	16.6	20.4	138 W	73	2
12 26	7 36.03	+62 25.6	1.459	2.293	16.4	20.4	139 W	73	2
12 28	7 28.97	+62 54.6	1.466	2.301	16.3	20.4	139 W	72	1
12 30	7 21.66	+63 20.3	1.475	2.310	16.2	20.4	139 W	72	1
1 1	7 14.17	+63 42.6	1.484	2.318	16.2	20.5	139 W	71	—
1 3	7 6.54	+64 1.5	1.494	2.326	16.2	20.5	139 W	71	—
1 5	6 58.84	+64 16.9	1.505	2.334	16.3	20.5	138 E	71	—
1 7	6 51.14	+64 28.8	1.518	2.342	16.4	20.5	138 E	71	—
1 9	6 43.51	+64 37.4	1.531	2.349	16.5	20.6	137 E	70	—
1 11	6 36.02	+64 42.6	1.546	2.357	16.8	20.6	136 E	70	—
1 13	6 28.72	+64 44.8	1.561	2.364	17.0	20.6	135 E	70	—
1 15	6 21.67	+64 44.1	1.577	2.372	17.3	20.7	134 E	70	—
1 17	6 14.91	+64 40.6	1.595	2.379	17.5	20.7	133 E	70	—
1 19	6 8.48	+64 34.6	1.613	2.386	17.9	20.8	132 E	70	—
1 21	6 2.42	+64 26.4	1.632	2.393	18.2	20.8	131 E	71	—

39702 1996 TZ_{10}

12 27	14 38.64	−12 51.0	3.256	2.796	16.6	21.1	54 W	30*	38*
1 6	14 52.17	−13 35.5	3.112	2.771	18.1	21.0	61 W	31*	46*
1 16	15 5.22	−14 12.4	2.959	2.746	19.4	20.9	68 W	31*	54*
1 26	15 17.59	−14 40.8	2.801	2.719	20.5	20.8	75 W	30*	62*
2 5	15 29.10	−15 0.2	2.638	2.692	21.3	20.7	82 W	30	69*
2 15	15 39.51	−15 10.1	2.473	2.664	21.8	20.5	90 W	30	76*
2 25	15 48.53	−15 9.8	2.308	2.635	21.8	20.4	98 W	30	79*
3 7	15 55.87	−14 59.0	2.147	2.605	21.4	20.2	106 W	30	79
3 17	16 1.16	−14 37.3	1.991	2.575	20.5	20.0	115 W	30	79
3 27	16 4.07	−14 4.6	1.845	2.543	18.9	19.7	124 W	31	78
4 6	16 4.30	−13 21.1	1.711	2.511	16.7	19.5	134 W	32	77
4 16	16 1.63	−12 27.6	1.594	2.479	13.7	19.2	144 W	33	76
4 26	15 56.10	−11 26.1	1.497	2.445	10.1	18.9	155 W	34	75
5 6	15 48.10	−10 20.1	1.423	2.411	6.2	18.6	165 W	35	74
5 11	15 43.38	− 9 46.9	1.395	2.394	4.7	18.4	169 W	35	74
5 16	15 38.37	− 9 14.7	1.375	2.377	4.2	18.3	170 W	36	73
5 21	15 33.20	− 8 44.3	1.360	2.359	5.2	18.4	168 E	36	73
5 26	15 28.06	− 8 16.5	1.353	2.342	7.0	18.4	164 E	37	72
5 31	15 23.09	− 7 52.0	1.351	2.324	9.2	18.5	158 E	37	72
6 5	15 18.44	− 7 31.5	1.356	2.306	11.5	18.6	153 E	37	72
6 15	15 10.63	− 7 4.3	1.381	2.270	15.9	18.7	142 E	38	71
6 25	15 5.49	− 6 57.0	1.425	2.234	19.8	18.9	132 E	38	71
7 5	15 3.41	− 7 9.2	1.482	2.197	23.1	19.1	122 E	38*	71
7 15	15 4.50	− 7 38.9	1.549	2.161	25.6	19.2	113 E	36*	72
7 25	15 8.66	− 8 23.2	1.622	2.124	27.5	19.3	105 E	34*	72
8 4	15 15.66	− 9 18.9	1.698	2.087	28.8	19.4	97 E	32*	73
8 14	15 25.27	−10 23.0	1.775	2.051	29.6	19.5	90 E	30*	74*

39702 1996 TZ_{10} — *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
8 24	15 37.26	−11 32.3	1.850	2.014	29.9	19.6	84 E	28*	73*
9 3	15 51.40	−12 44.0	1.922	1.979	29.9	19.6	78 E	26*	69*
9 13	16 7.55	−13 55.5	1.991	1.943	29.6	19.6	73 E	25*	65*
9 23	16 25.53	−15 4.1	2.056	1.909	29.0	19.6	67 E	23*	60*
10 3	16 45.23	−16 7.1	2.116	1.875	28.2	19.6	62 E	22*	55*
10 13	17 6.52	−17 2.3	2.171	1.843	27.3	19.6	58 E	21*	50*
10 23	17 29.27	−17 47.0	2.221	1.812	26.1	19.6	53 E	21*	45*
11 2	17 53.33	−18 19.1	2.267	1.783	24.9	19.6	49 E	20*	41*
11 12	18 18.58	−18 36.5	2.308	1.756	23.5	19.5	45 E	20*	36*
11 22	18 44.81	−18 37.4	2.346	1.730	22.1	19.5	41 E	19*	31*
12 2	19 11.83	−18 20.6	2.380	1.707	20.6	19.5	38 E	19*	26*
12 12	19 39.47	−17 45.3	2.411	1.687	19.0	19.4	34 E	18*	22*
12 22	20 7.49	−16 51.4	2.440	1.669	17.4	19.4	31 E	17*	18*
1 1	20 35.72	−15 39.2	2.467	1.654	15.8	19.3	27 E	16*	14*
1 11	21 3.98	−14 9.9	2.492	1.643	14.1	19.3	24 E	14*	11*
1 21	21 32.13	−12 25.1	2.517	1.635	12.4	19.2	21 E	12*	8*

5645 1990 *SP*

12 27	14 38.79	+ 5 22.8	0.603	0.878	80.9	18.5	62 W	47*	29*
1 1	14 50.83	+ 3 54.9	0.632	0.898	77.8	18.6	63 W	47*	32*
1 6	15 2.49	+ 2 28.5	0.658	0.921	75.0	18.6	65 W	46*	36*
1 11	15 13.75	+ 1 4.4	0.681	0.945	72.4	18.7	66 W	45*	39*
1 16	15 24.59	− 0 16.5	0.699	0.972	69.9	18.7	68 W	44*	42*
1 26	15 44.91	− 2 48.0	0.726	1.029	65.6	18.8	72 W	42*	49*
2 5	16 3.18	− 5 5.3	0.739	1.089	61.8	18.8	77 W	40*	57*
2 15	16 19.01	− 7 9.7	0.738	1.151	58.2	18.8	82 W	38*	64*
2 25	16 31.82	− 9 3.9	0.725	1.213	54.6	18.8	89 W	36	70*
3 7	16 40.95	−10 52.4	0.702	1.274	50.8	18.7	96 W	34	75*
3 17	16 45.46	−12 39.4	0.672	1.333	46.2	18.6	105 W	32	77
3 27	16 44.27	−14 29.0	0.639	1.390	40.8	18.4	114 W	31	78
4 6	16 36.31	−16 23.4	0.608	1.445	34.1	18.2	126 W	29	80
4 16	16 20.86	−18 19.0	0.584	1.496	25.9	18.0	139 W	27	82
4 21	16 10.43	−19 14.2	0.578	1.521	21.4	17.9	147 W	26	83
4 26	15 58.54	−20 5.5	0.575	1.544	16.6	17.7	154 W	25	84
5 1	15 45.60	−20 50.9	0.579	1.567	11.7	17.6	162 W	24	85
5 6	15 32.11	−21 29.0	0.587	1.590	6.8	17.5	169 W	24	85
5 11	15 18.66	−21 58.9	0.602	1.611	2.8	17.3	175 W	23	86
5 16	15 5.83	−22 21.2	0.623	1.632	4.2	17.5	173 E	23	86
5 21	14 54.13	−22 36.9	0.650	1.651	8.2	17.8	167 E	22	87
5 26	14 43.89	−22 47.7	0.683	1.670	12.1	18.1	160 E	22	87
5 31	14 35.29	−22 55.3	0.720	1.688	15.7	18.4	153 E	22	87
6 5	14 28.40	−23 1.5	0.763	1.706	18.9	18.6	147 E	22	87
6 10	14 23.20	−23 7.5	0.809	1.722	21.7	18.9	141 E	22	87
6 15	14 19.60	−23 14.6	0.859	1.738	24.1	19.1	136 E	22	87
6 20	14 17.49	−23 23.3	0.912	1.753	26.1	19.3	131 E	22*	87
6 25	14 16.72	−23 34.2	0.967	1.767	27.8	19.5	126 E	21*	88
6 30	14 17.15	−23 47.3	1.025	1.780	29.2	19.7	121 E	21*	88
7 5	14 18.64	−24 2.6	1.084	1.792	30.4	19.9	117 E	20*	88
7 10	14 21.10	−24 20.1	1.145	1.804	31.3	20.0	113 E	19*	88
7 15	14 24.41	−24 39.6	1.207	1.814	32.0	20.2	109 E	18*	89
7 25	14 33.25	−25 24.0	1.332	1.833	32.8	20.4	102 E	15*	89
8 4	14 44.54	−26 13.7	1.458	1.849	33.1	20.6	95 E	13*	89*
8 14	14 57.91	−27 6.7	1.584	1.861	33.0	20.8	89 E	12*	82*
8 24	15 13.04	−28 1.2	1.707	1.870	32.4	21.0	83 E	10*	76*
9 3	15 29.68	−28 55.2	1.826	1.876	31.6	21.1	77 E	9*	70*
9 13	15 47.72	−29 46.8	1.939	1.879	30.5	21.2	71 E	8*	64*
9 23	16 7.00	−30 34.4	2.047	1.878	29.2	21.3	66 E	7*	59*
10 3	16 27.42	−31 16.1	2.146	1.874	27.8	21.4	61 E	7*	54*
10 13	16 48.91	−31 50.4	2.238	1.867	26.2	21.4	56 E	6*	49*
10 23	17 11.38	−32 15.7	2.320	1.857	24.5	21.4	51 E	6*	45*
11 2	17 34.71	−32 30.4	2.392	1.843	22.7	21.4	46 E	5*	40*
11 12	17 58.84	−32 33.1	2.453	1.826	20.9	21.4	41 E	5*	35*
11 22	18 23.62	−32 22.6	2.503	1.806	19.0	21.3	36 E	5*	30*
12 2	18 48.97	−31 57.7	2.542	1.783	17.0	21.3	32 E	4*	26*
12 12	19 14.76	−31 17.5	2.569	1.756	15.1	21.2	28 E	3*	21*
12 22	19 40.88	−30 21.3	2.584	1.726	13.1	21.1	23 E	2*	17*
1 1	20 7.23	−29 8.3	2.587	1.693	11.2	21.0	20 E	1*	13*
1 11	20 33.74	−27 38.3	2.580	1.656	9.4	20.9	16 E	—	10*
1 21	21 0.35	−25 51.1	2.561	1.616	7.7	20.7	13 E	—	7*

162273 1999 VL_{12}

12 27	14 38.93	−26 30.0	1.876	1.465	31.3	20.7	51 W	17*	42*
1 1	14 55.50	−27 10.7	1.833	1.449	32.2	20.7	52 W	16*	44*
1 6	15 12.49	−27 44.5	1.790	1.432	33.2	20.6	53 W	16*	45*
1 11	15 29.86	−28 10.7	1.747	1.416	34.2	20.6	54 W	15*	47*
1 16	15 47.60	−28 28.5	1.705	1.400	35.2	20.5	55 W	15*	48*
1 21	16 5.67	−28 37.1	1.663	1.385	36.2	20.5	56 W	15*	49*
1 26	16 24.02	−28 35.9	1.622	1.370	37.2	20.4	57 W	15*	51*
1 31	16 42.61	−28 24.3	1.583	1.355	38.2	20.4	58 W	15*	52*
2 5	17 1.38	−28 1.7	1.544	1.340	39.2	20.3	59 W	15*	53*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
162273 1999 VL_{12} *(continuation)*									
2 10	17 20.27	−27 27.7	1.506	1.327	40.2	20.3	60 W	15*	54*
2 15	17 39.19	−26 41.9	1.469	1.313	41.1	20.2	61 W	16*	55*
2 20	17 58.08	−25 44.1	1.434	1.301	42.0	20.2	62 W	16*	55*
2 25	18 16.88	−24 34.4	1.401	1.288	42.9	20.1	62 W	17*	56*
3 7	18 53.94	−21 39.7	1.339	1.267	44.7	20.1	64 W	18*	57*
3 17	19 29.98	−18 0.8	1.284	1.249	46.2	20.0	65 W	20*	58*
3 27	20 4.71	−13 43.6	1.238	1.234	47.6	19.9	66 W	23*	59*
4 1	20 21.55	−11 23.0	1.218	1.229	48.2	19.9	66 W	24*	58*
4 6	20 38.05	− 8 55.9	1.200	1.224	48.8	19.9	67 W	25*	58*
4 11	20 54.19	− 6 23.6	1.184	1.221	49.2	19.8	67 W	27*	58*
4 16	21 9.99	− 3 47.4	1.170	1.218	49.6	19.8	68 W	28*	57*
4 21	21 25.47	− 1 8.5	1.158	1.217	50.0	19.8	68 W	30*	56*
4 26	21 40.63	+ 1 31.8	1.147	1.218	50.3	19.8	68 W	31*	55*
5 1	21 55.52	+ 4 12.1	1.139	1.219	50.5	19.8	69 W	33*	54*
5 6	22 10.14	+ 6 51.6	1.131	1.221	50.6	19.8	69 W	35*	53*
5 11	22 24.50	+ 9 29.0	1.125	1.225	50.7	19.8	70 W	36*	51*
5 16	22 38.63	+12 3.3	1.120	1.230	50.7	19.8	70 W	38*	49*
5 21	22 52.54	+14 33.8	1.115	1.235	50.7	19.8	71 W	40*	48*
5 26	23 6.24	+16 59.7	1.111	1.242	50.6	19.8	71 W	42*	46*
5 31	23 19.75	+19 20.4	1.107	1.250	50.5	19.8	72 W	44*	44*
6 5	23 33.07	+21 35.6	1.103	1.259	50.3	19.8	73 W	46*	42*
6 10	23 46.19	+23 44.7	1.098	1.269	50.2	19.8	74 W	48*	40*
6 15	23 59.11	+25 47.5	1.093	1.280	49.9	19.8	75 W	51*	38*
6 20	0 11.82	+27 43.6	1.088	1.291	49.7	19.8	76 W	53*	36
6 25	0 24.31	+29 33.0	1.081	1.303	49.4	19.8	77 W	56*	34
6 30	0 36.55	+31 15.6	1.073	1.316	49.1	19.8	78 W	59*	33
7 5	0 48.53	+32 51.4	1.065	1.330	48.7	19.8	79 W	61*	31
7 10	1 0.18	+34 20.3	1.055	1.344	48.3	19.8	81 W	64*	30
7 15	1 11.47	+35 42.3	1.043	1.358	47.9	19.8	82 W	67*	28
7 20	1 22.33	+36 57.3	1.030	1.373	47.4	19.7	84 W	70*	27
7 25	1 32.72	+38 5.5	1.016	1.388	46.9	19.7	86 W	74*	26
7 30	1 42.57	+39 6.8	1.000	1.404	46.3	19.7	88 W	77*	25
8 4	1 51.78	+40 1.2	0.982	1.420	45.6	19.7	91 W	80*	24
8 9	2 0.26	+40 48.7	0.963	1.436	44.8	19.6	93 W	83*	23
8 14	2 7.90	+41 28.9	0.943	1.452	43.9	19.6	96 W	86*	23
8 19	2 14.60	+42 1.6	0.922	1.469	42.9	19.5	99 W	87	22
8 24	2 20.26	+42 26.5	0.899	1.485	41.8	19.5	102 W	87	22
8 29	2 24.75	+42 43.2	0.876	1.502	40.4	19.4	105 W	88	21
9 3	2 27.96	+42 50.8	0.853	1.518	38.9	19.3	109 W	88	21
9 8	2 29.77	+42 48.3	0.829	1.535	37.2	19.2	113 W	88	21
9 13	2 30.11	+42 34.4	0.806	1.551	35.2	19.1	117 W	88	21
9 18	2 28.96	+42 7.6	0.784	1.568	32.9	19.0	122 W	87	22
9 23	2 26.34	+41 26.5	0.763	1.584	30.4	18.9	127 W	86	23
9 28	2 22.33	+40 29.4	0.744	1.600	27.6	18.8	132 W	85	24
10 3	2 17.08	+39 15.1	0.728	1.616	24.6	18.7	138 W	84	25
10 8	2 10.86	+37 42.6	0.716	1.632	21.3	18.6	144 W	83	26
10 13	2 3.99	+35 52.3	0.708	1.647	18.0	18.5	149 W	81	28
10 18	1 56.87	+33 45.9	0.705	1.663	14.7	18.4	155 W	79	30
10 23	1 49.86	+31 26.6	0.708	1.678	11.8	18.3	160 W	76	33
10 28	1 43.31	+28 58.5	0.717	1.692	9.9	18.3	163 E	74	35
11 2	1 37.49	+26 26.5	0.732	1.707	9.6	18.3	163 E	71	38
11 7	1 32.62	+23 56.0	0.754	1.721	11.0	18.5	161 E	69	40
11 12	1 28.83	+21 31.5	0.782	1.735	13.3	18.6	156 E	67	42
11 17	1 26.19	+19 17.0	0.816	1.748	15.9	18.8	151 E	64	45
11 22	1 24.67	+17 14.9	0.856	1.762	18.5	19.0	146 E	62	47
11 27	1 24.23	+15 26.6	0.900	1.774	20.9	19.2	140 E	60	49
12 2	1 24.80	+13 52.5	0.949	1.787	23.0	19.4	135 E	59	50
12 12	1 28.69	+11 26.0	1.058	1.811	26.5	19.8	125 E	56	53
12 22	1 35.66	+ 9 48.8	1.178	1.833	28.9	20.1	116 E	55	54
1 1	1 45.10	+ 8 51.6	1.306	1.854	30.4	20.4	107 E	54	55*
1 6	1 50.59	+ 8 35.1	1.372	1.864	30.9	20.6	103 E	54	55*
1 11	1 56.52	+ 8 25.4	1.438	1.873	31.2	20.7	100 E	53	54*
1 16	2 2.86	+ 8 21.5	1.505	1.882	31.3	20.8	96 E	53	53*
1 21	2 9.54	+ 8 22.5	1.573	1.891	31.3	20.9	92 E	53	51*
21030 1989 TZ_{11}									
12 27	14 39.90	−10 9.7	3.363	2.909	16.0	20.7	55 W	32*	37*
1 6	14 52.11	−11 4.3	3.215	2.883	17.5	20.7	62 W	33*	45*
1 16	15 3.76	−11 52.6	3.058	2.857	18.7	20.6	69 W	33*	53*
1 26	15 14.66	−12 34.3	2.895	2.829	19.8	20.5	76 W	32	61*
2 5	15 24.59	−13 9.4	2.727	2.801	20.5	20.3	84 W	32	69*
2 15	15 33.32	−13 37.6	2.557	2.771	20.9	20.2	92 W	31	75*
2 25	15 40.54	−13 59.0	2.388	2.741	20.8	20.0	100 W	31	78
3 7	15 45.94	−14 13.7	2.222	2.709	20.3	19.8	109 W	31	78
3 17	15 49.15	−14 21.8	2.062	2.677	19.2	19.6	118 W	31	78
3 27	15 49.84	−14 23.8	1.913	2.643	17.4	19.3	128 W	31	78
4 6	15 47.72	−14 20.0	1.778	2.609	14.9	19.1	138 W	31	78
4 16	15 42.63	−14 10.9	1.662	2.573	11.6	18.8	149 W	31	78
4 26	15 34.72	−13 57.7	1.567	2.537	7.7	18.4	160 W	31	78

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
21030 1989 TZ_{11} *(continuation)*									
5 6	15 24.51	−13 42.1	1.497	2.500	3.4	18.1	172 W	31	78
5 16	15 12.93	−13 26.5	1.455	2.462	2.9	18.0	173 E	32	77
5 21	15 7.02	−13 19.9	1.444	2.442	5.1	18.1	168 E	32	77
5 26	15 1.25	−13 14.7	1.440	2.423	7.6	18.2	162 E	32	77
5 31	14 55.78	−13 11.3	1.443	2.403	10.0	18.2	156 E	32	77
6 5	14 50.75	−13 10.2	1.451	2.383	12.4	18.3	150 E	32	77
6 15	14 42.50	−13 16.2	1.484	2.343	16.7	18.5	138 E	32	77
6 25	14 37.22	−13 34.9	1.534	2.301	20.4	18.7	128 E	31*	78
7 5	14 35.17	−14 6.5	1.597	2.260	23.4	18.8	118 E	30*	78
7 15	14 36.36	−14 50.7	1.668	2.217	25.7	18.9	109 E	28*	79
7 25	14 40.63	−15 46.0	1.744	2.175	27.3	19.0	101 E	25*	80
8 4	14 47.74	−16 50.4	1.821	2.131	28.4	19.1	93 E	22*	81*
8 14	14 57.46	−18 2.1	1.898	2.088	28.9	19.2	86 E	20*	79*
8 24	15 9.58	−19 18.8	1.971	2.044	29.1	19.2	80 E	18*	73*
9 3	15 23.91	−20 38.2	2.039	2.001	28.9	19.2	73 E	16*	67*
9 13	15 40.35	−21 58.0	2.102	1.958	28.4	19.2	68 E	14*	62*
9 23	15 58.78	−23 15.7	2.159	1.915	27.7	19.2	62 E	13*	56*
10 3	16 19.13	−24 28.6	2.209	1.872	26.8	19.2	57 E	12*	51*
10 13	16 41.34	−25 34.0	2.252	1.830	25.7	19.2	53 E	11*	47*
10 23	17 5.31	−26 29.1	2.289	1.790	24.6	19.1	48 E	10*	42*
11 2	17 30.94	−27 10.8	2.320	1.750	23.3	19.0	44 E	10*	38*
11 12	17 58.10	−27 36.3	2.344	1.713	21.9	19.0	40 E	9*	34*
11 22	18 26.60	−27 42.6	2.364	1.677	20.5	18.9	37 E	9*	30*
12 2	18 56.20	−27 27.4	2.379	1.643	19.1	18.8	33 E	9*	26*
12 12	19 26.64	−26 48.9	2.391	1.612	17.7	18.8	30 E	9*	22*
12 22	19 57.61	−25 46.0	2.400	1.585	16.2	18.7	27 E	8*	19*
1 1	20 28.82	−24 18.6	2.408	1.560	14.8	18.6	24 E	8*	16*
1 11	21 0.00	−22 27.2	2.415	1.540	13.4	18.5	21 E	7*	13*
1 21	21 30.91	−20 13.9	2.423	1.523	11.9	18.5	19 E	6*	11*
6261 Chione									
12 27	14 40.08	− 4 28.9	2.602	2.225	21.8	19.2	57 W	38*	34*
1 6	14 56.37	− 4 26.1	2.532	2.266	22.8	19.2	63 W	39*	41*
1 16	15 11.48	− 4 8.2	2.454	2.306	23.6	19.2	70 W	40*	47*
1 26	15 25.20	− 3 34.3	2.370	2.346	24.1	19.2	77 W	41*	54*
2 5	15 37.32	− 2 44.1	2.283	2.385	24.3	19.1	84 W	42	59*
2 15	15 47.58	− 1 37.4	2.193	2.424	24.0	19.1	91 W	43	63*
2 25	15 55.69	− 0 14.7	2.104	2.461	23.4	19.0	99 W	45	64*
3 7	16 1.40	+ 1 22.8	2.019	2.498	22.3	18.9	107 W	46	63
3 17	16 4.42	+ 3 12.9	1.940	2.534	20.7	18.8	116 W	48	61
3 27	16 4.59	+ 5 11.6	1.873	2.569	18.8	18.7	124 W	50	59
4 1	16 3.58	+ 6 12.4	1.845	2.586	17.6	18.6	128 W	51	58
4 6	16 1.86	+ 7 13.0	1.821	2.604	16.5	18.6	133 W	52	57
4 11	15 59.45	+ 8 12.5	1.801	2.620	15.3	18.5	136 W	53	56
4 16	15 56.40	+ 9 9.8	1.787	2.637	14.1	18.5	140 W	54	55
4 21	15 52.78	+10 3.6	1.778	2.653	13.0	18.4	143 W	55	54
4 26	15 48.68	+10 52.9	1.774	2.669	12.1	18.4	146 W	56	53
5 1	15 44.21	+11 36.7	1.777	2.685	11.5	18.4	148 W	57	52
5 6	15 39.47	+12 14.2	1.786	2.701	11.1	18.4	149 W	57	52
5 11	15 34.59	+12 44.6	1.801	2.716	11.1	18.4	149 W	58	51
5 16	15 29.70	+13 7.5	1.822	2.732	11.4	18.5	148 E	58	51
5 26	15 20.41	+13 30.0	1.882	2.761	12.7	18.6	143 E	59	50
6 5	15 12.45	+13 23.1	1.964	2.790	14.5	18.8	137 E	58	51
6 15	15 6.42	+12 50.3	2.065	2.817	16.3	19.0	129 E	58	51
6 25	15 2.63	+11 56.7	2.181	2.844	17.8	19.2	121 E	57	52
7 5	15 1.14	+10 48.0	2.310	2.870	19.0	19.4	113 E	56*	53
7 15	15 1.87	+ 9 28.6	2.448	2.894	19.8	19.5	106 E	53*	55
7 25	15 4.63	+ 8 2.6	2.592	2.918	20.1	19.7	98 E	50*	56
8 4	15 9.21	+ 6 33.3	2.739	2.941	20.2	19.8	91 E	46*	57
8 14	15 15.38	+ 5 3.0	2.888	2.962	19.9	20.0	84 E	43*	59*
8 24	15 22.94	+ 3 33.7	3.034	2.983	19.3	20.1	77 E	40*	58*
9 3	15 31.72	+ 2 6.8	3.177	3.002	18.5	20.1	71 E	37*	55*
9 13	15 41.54	+ 0 43.5	3.315	3.021	17.5	20.2	64 E	34*	50*
9 23	15 52.28	− 0 35.0	3.446	3.038	16.3	20.3	58 E	32*	45*
10 3	16 3.80	− 1 48.1	3.567	3.055	15.0	20.3	52 E	30*	39*
10 13	16 16.01	− 2 55.1	3.679	3.070	13.5	20.3	46 E	28*	33*
10 23	16 28.79	− 3 55.2	3.779	3.085	12.0	20.4	40 E	25*	26*
11 2	16 42.05	− 4 48.0	3.867	3.098	10.4	20.4	34 E	23*	19*
11 12	16 55.71	− 5 32.9	3.940	3.111	8.8	20.3	29 E	20*	12*
11 22	17 9.66	− 6 9.7	3.999	3.122	7.4	20.3	24 E	17*	5*
12 2	17 23.83	− 6 38.1	4.043	3.132	6.1	20.3	20 E	14*	—
12 12	17 38.12	− 6 57.9	4.070	3.141	5.2	20.3	17 E	9*	—
12 22	17 52.44	− 7 9.0	4.081	3.150	5.1	20.3	16 W	7*	—
1 1	18 6.69	− 7 11.4	4.076	3.157	5.6	20.3	18 W	12*	—
1 11	18 20.79	− 7 5.3	4.053	3.163	6.7	20.3	22 W	16*	1*
1 21	18 34.62	− 6 51.0	4.015	3.168	8.1	20.4	27 W	19*	9*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5626 Melissabrucker									
12 27	14 40.36	−13 38.9	3.550	3.068	14.9	20.2	53 W	29*	38*
1 6	14 50.90	−14 18.2	3.439	3.085	16.2	20.2	61 W	30*	46*
1 16	15 0.48	−14 50.2	3.318	3.102	17.2	20.2	69 W	30*	55*
1 26	15 8.89	−15 14.7	3.188	3.116	17.9	20.1	77 W	30	64*
2 5	15 15.93	−15 31.2	3.051	3.130	18.3	20.0	85 W	29	72*
2 15	15 21.34	−15 39.3	2.911	3.142	18.3	20.0	94 W	29	79*
2 25	15 24.86	−15 38.9	2.772	3.153	17.8	19.8	103 W	29	80
3 7	15 26.26	−15 29.4	2.637	3.162	16.8	19.7	113 W	30	79
3 17	15 25.34	−15 10.8	2.512	3.170	15.2	19.5	123 W	30	79
3 27	15 22.00	−14 42.9	2.400	3.177	13.0	19.4	134 W	30	79
4 6	15 16.32	−14 6.3	2.307	3.183	10.3	19.2	145 W	31	78
4 16	15 8.57	−13 22.2	2.238	3.187	7.0	19.0	157 W	32	77
4 26	14 59.32	−12 33.0	2.197	3.190	3.5	18.8	169 W	32	77
5 6	14 49.32	−11 42.1	2.185	3.191	1.5	18.6	175 E	33	76
5 16	14 39.43	−10 53.7	2.204	3.191	4.7	18.8	165 E	34	75
5 26	14 30.51	−10 12.0	2.251	3.190	8.1	19.1	154 E	35	74
6 5	14 23.17	− 9 40.1	2.325	3.188	11.2	19.2	142 E	35	74
6 15	14 17.85	− 9 20.0	2.420	3.184	13.9	19.4	131 E	36	73
6 25	14 14.74	− 9 12.4	2.533	3.179	15.9	19.6	121 E	35*	73
7 5	14 13.82	− 9 16.7	2.657	3.173	17.4	19.7	111 E	34*	73
7 15	14 14.98	− 9 32.0	2.789	3.165	18.3	19.9	102 E	31*	74
7 25	14 18.06	− 9 56.8	2.925	3.156	18.7	20.0	94 E	28*	74
8 4	14 22.85	−10 29.5	3.061	3.145	18.8	20.1	85 E	26*	73*
8 14	14 29.18	−11 8.6	3.194	3.134	18.4	20.1	77 E	23*	69*
8 24	14 36.86	−11 52.6	3.321	3.121	17.7	20.2	70 E	21*	63*
9 3	14 45.73	−12 40.0	3.440	3.106	16.7	20.2	63 E	18*	56*
9 13	14 55.69	−13 29.8	3.549	3.090	15.5	20.3	55 E	16*	49*
9 23	15 6.60	−14 20.6	3.646	3.073	14.1	20.3	48 E	14*	42*
10 3	15 18.38	−15 11.5	3.730	3.055	12.6	20.2	42 E	12*	35*
10 13	15 30.93	−16 1.3	3.799	3.035	10.8	20.2	35 E	11*	28*
10 23	15 44.19	−16 49.1	3.853	3.014	9.0	20.1	28 E	9*	21*
11 2	15 58.07	−17 34.1	3.890	2.991	7.1	20.0	22 E	6*	15*
11 12	16 12.52	−18 15.5	3.910	2.967	5.0	19.9	15 E	4*	8*
11 22	16 27.46	−18 52.3	3.913	2.942	3.0	19.8	9 E	1*	1*
12 2	16 42.84	−19 24.0	3.898	2.915	1.2	19.6	4 E	—	—
12 12	16 58.57	−19 50.0	3.866	2.887	1.8	19.7	5 W	—	—
12 22	17 14.59	−20 9.8	3.816	2.857	3.8	19.7	11 W	3*	2*
1 1	17 30.82	−20 22.8	3.750	2.826	5.9	19.8	17 W	7*	8*
1 11	17 47.18	−20 28.9	3.667	2.794	8.1	19.8	24 W	10*	14*
1 21	18 3.57	−20 27.8	3.569	2.760	10.2	19.8	30 W	12*	21*
162998 2001 SK_{162}									
12 27	14 40.59	−17 0.1	1.680	1.332	35.8	21.1	52 W	26*	39*
1 6	15 6.38	−18 56.1	1.681	1.397	35.8	21.2	56 W	25*	45*
1 16	15 30.50	−20 31.3	1.673	1.464	35.8	21.3	60 W	24*	50*
1 26	15 52.77	−21 47.7	1.654	1.531	35.7	21.4	65 W	23*	56*
2 5	16 13.02	−22 47.4	1.626	1.597	35.6	21.4	71 W	22*	63*
2 15	16 30.99	−23 32.9	1.587	1.663	35.3	21.5	77 W	21*	69*
2 25	16 46.37	−24 6.5	1.541	1.728	34.7	21.5	83 W	21*	76*
3 7	16 58.84	−24 30.5	1.487	1.791	33.6	21.4	90 W	20*	84*
3 17	17 7.98	−24 47.0	1.429	1.853	32.1	21.4	98 W	20	89
3 27	17 13.36	−24 57.5	1.369	1.913	29.9	21.3	107 W	20	89
4 6	17 14.56	−25 2.9	1.311	1.972	27.0	21.2	116 W	20	89
4 16	17 11.28	−25 2.4	1.260	2.028	23.3	21.0	127 W	20	89
4 26	17 3.51	−24 54.7	1.220	2.083	18.7	20.9	138 W	20	89
5 6	16 51.80	−24 37.2	1.197	2.135	13.3	20.7	151 W	20	89
5 16	16 37.30	−24 8.4	1.197	2.186	7.4	20.5	164 W	21	88
5 26	16 21.80	−23 29.4	1.223	2.235	1.6	20.3	177 W	22	87
5 31	16 14.28	−23 7.4	1.246	2.258	1.8	20.4	176 E	22	87
6 5	16 7.20	−22 44.7	1.276	2.281	4.6	20.6	170 E	22	87
6 10	16 0.72	−22 22.2	1.313	2.304	7.2	20.8	163 E	23	86
6 15	15 55.00	−22 0.5	1.356	2.326	9.7	21.0	157 E	23	86
6 20	15 50.13	−21 40.6	1.405	2.348	12.0	21.2	151 E	23	86
6 25	15 46.15	−21 22.9	1.459	2.369	14.0	21.4	146 E	24	85
93751 2000 WH_1									
12 27	14 41.00	− 2 13.0	3.527	3.116	15.5	21.2	58 W	40*	33*
1 6	14 50.88	− 3 1.2	3.395	3.111	16.7	21.1	65 W	41*	41*
1 16	14 59.86	− 3 41.9	3.254	3.105	17.6	21.0	73 W	41*	49*
1 26	15 7.74	− 4 15.0	3.105	3.099	18.3	21.0	80 W	41	57*
2 5	15 14.29	− 4 40.6	2.952	3.091	18.6	20.9	89 W	40	64*
2 15	15 19.25	− 4 58.8	2.798	3.083	18.5	20.7	97 W	40	69*
2 25	15 22.33	− 5 10.2	2.645	3.073	18.0	20.6	106 W	40	69
3 7	15 23.26	− 5 15.5	2.498	3.063	17.0	20.4	116 W	40	69
3 17	15 21.79	− 5 15.7	2.361	3.052	15.3	20.2	126 W	40	69
3 27	15 17.75	− 5 12.4	2.238	3.039	13.1	20.0	136 W	40	69
4 6	15 11.18	− 5 7.5	2.136	3.026	10.3	19.8	147 W	40	69
4 16	15 2.29	− 5 3.5	2.057	3.012	7.1	19.6	158 W	40	69
4 26	14 51.67	− 5 3.2	2.006	2.996	4.2	19.4	167 W	40	69
5 6	14 40.14	− 5 9.2	1.985	2.980	3.9	19.3	168 E	40	69
5 16	14 28.68	− 5 23.9	1.994	2.963	6.8	19.5	160 E	40	69

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
93751 2000 WH_1 *(continuation)*									
5 26	14 18.27	− 5 48.8	2.032	2.945	10.3	19.6	149 E	39	70
6 5	14 9.68	− 6 24.3	2.094	2.926	13.5	19.8	138 E	39	70
6 15	14 3.39	− 7 10.2	2.177	2.906	16.2	20.0	127 E	38	71
6 25	13 59.61	− 8 5.6	2.275	2.885	18.3	20.1	117 E	36*	72
7 5	13 58.33	− 9 9.3	2.384	2.863	19.8	20.3	108 E	33*	73
7 15	13 59.42	−10 20.2	2.499	2.840	20.7	20.4	99 E	29*	74
7 25	14 2.67	−11 37.1	2.617	2.817	21.1	20.5	91 E	25*	76*
8 4	14 7.88	−12 58.9	2.733	2.792	21.1	20.5	83 E	22*	74*
8 14	14 14.84	−14 24.6	2.847	2.766	20.7	20.6	75 E	18*	68*
8 24	14 23.38	−15 53.3	2.954	2.740	20.0	20.6	68 E	15*	62*
9 3	14 33.35	−17 24.0	3.053	2.713	19.0	20.7	61 E	13*	55*
9 13	14 44.63	−18 56.1	3.142	2.685	17.8	20.7	54 E	10*	48*
9 23	14 57.13	−20 28.6	3.220	2.656	16.3	20.6	48 E	8*	42*
10 3	15 10.78	−22 0.7	3.287	2.626	14.7	20.6	42 E	6*	36*
10 13	15 25.55	−23 31.5	3.340	2.595	13.0	20.5	36 E	4*	30*
10 23	15 41.37	−25 0.3	3.379	2.564	11.1	20.5	30 E	2*	24*
11 2	15 58.23	−26 26.1	3.405	2.531	9.2	20.4	24 E	—	18*
11 12	16 16.11	−27 48.0	3.416	2.498	7.3	20.3	19 E	—	13*
11 22	16 34.99	−29 5.0	3.413	2.465	5.4	20.2	14 E	—	7*
12 2	16 54.86	−30 16.3	3.396	2.430	4.0	20.0	10 E	—	3*
12 12	17 15.69	−31 20.9	3.365	2.395	3.4	20.0	8 W	—	—
12 22	17 37.44	−32 17.8	3.322	2.360	4.2	19.9	10 W	—	3*
1 1	18 0.08	−33 6.2	3.265	2.324	5.9	20.0	14 W	—	7*
1 11	18 23.57	−33 45.2	3.198	2.287	7.9	20.0	19 W	—	12*
1 21	18 47.83	−34 14.2	3.120	2.250	10.0	20.0	23 W	—	17*
280481 2004 HL_{48}									
12 27	14 41.00	−25 24.0	2.174	1.722	26.1	20.2	50 W	18*	42*
1 6	15 5.51	−26 21.6	2.129	1.756	27.2	20.2	55 W	17*	47*
1 16	15 29.02	−27 0.6	2.078	1.792	28.2	20.2	60 W	17*	52*
1 26	15 51.24	−27 21.2	2.019	1.828	29.1	20.2	65 W	17*	58*
2 5	16 11.93	−27 24.1	1.954	1.866	29.8	20.2	70 W	17*	64*
2 15	16 30.78	−27 9.9	1.882	1.904	30.2	20.2	76 W	18*	70*
2 25	16 47.47	−26 39.5	1.805	1.943	30.3	20.1	83 W	18*	76*
3 7	17 1.69	−25 53.7	1.725	1.982	30.0	20.1	89 W	19*	83*
3 17	17 13.07	−24 53.5	1.642	2.021	29.3	20.0	97 W	20	89
3 27	17 21.25	−23 39.3	1.560	2.059	27.9	19.9	105 W	21	88
4 6	17 25.92	−22 12.0	1.482	2.098	25.8	19.7	114 W	23	86
4 16	17 26.81	−20 32.0	1.410	2.137	23.0	19.6	124 W	24	85
4 26	17 23.83	−18 40.8	1.351	2.175	19.4	19.4	134 W	26	83
5 6	17 17.27	−16 41.1	1.308	2.212	15.1	19.2	145 W	28	81
5 11	17 12.82	−15 39.4	1.294	2.231	12.7	19.2	151 W	29	80
5 16	17 7.75	−14 37.5	1.286	2.249	10.4	19.1	156 W	30	79
5 21	17 2.22	−13 36.5	1.284	2.268	8.0	19.0	162 W	31	78
5 26	16 56.41	−12 37.3	1.289	2.286	6.1	18.9	166 W	32	77
5 31	16 50.51	−11 41.0	1.301	2.304	4.9	18.9	169 W	33	76
6 5	16 44.68	−10 48.6	1.319	2.322	5.1	19.0	168 E	34	75
6 10	16 39.10	−10 0.8	1.344	2.339	6.5	19.1	165 E	35	74
6 15	16 33.92	− 9 18.5	1.376	2.357	8.4	19.2	160 E	36	73
6 25	16 25.26	− 8 11.5	1.458	2.391	12.4	19.6	150 E	37	72
7 5	16 19.30	− 7 27.9	1.561	2.424	15.9	19.9	139 E	38	71
7 15	16 16.26	− 7 5.8	1.681	2.457	18.6	20.1	130 E	38	71
7 25	16 16.07	− 7 1.4	1.816	2.488	20.6	20.4	120 E	38*	71
8 4	16 18.47	− 7 10.5	1.960	2.519	22.0	20.6	112 E	37*	71
8 14	16 23.15	− 7 29.3	2.112	2.549	22.7	20.8	104 E	36*	71
8 24	16 29.83	− 7 54.4	2.267	2.578	23.0	21.0	96 E	35*	72
9 3	16 38.18	− 8 22.6	2.424	2.605	22.8	21.2	89 E	34*	72*
9 13	16 47.97	− 8 51.8	2.580	2.632	22.2	21.3	82 E	33*	68*
9 23	16 58.99	− 9 19.8	2.734	2.658	21.4	21.4	75 E	32*	63*
107150 2001 BW_{10}									
12 27	14 42.06	−31 33.8	2.042	1.587	28.0	19.8	49 W	12*	43*
1 1	14 58.33	−33 1.7	2.004	1.574	28.8	19.8	51 W	10*	44*
1 6	15 15.16	−34 24.1	1.966	1.562	29.6	19.7	52 W	9*	46*
1 11	15 32.53	−35 40.1	1.930	1.551	30.4	19.7	53 W	8*	47*
1 16	15 50.42	−36 48.9	1.895	1.540	31.1	19.7	54 W	7*	48*
1 21	16 8.77	−37 49.6	1.861	1.531	31.9	19.6	55 W	6*	49*
1 26	16 27.55	−38 41.5	1.829	1.522	32.6	19.6	56 W	5*	50*
1 31	16 46.67	−39 23.9	1.797	1.514	33.2	19.6	57 W	4*	51*
2 5	17 6.04	−39 56.4	1.766	1.508	33.9	19.5	59 W	3*	52*
2 10	17 25.54	−40 18.4	1.737	1.502	34.5	19.5	60 W	2*	52*
2 15	17 45.06	−40 29.8	1.708	1.497	35.1	19.5	61 W	2*	53*
2 20	18 4.46	−40 30.5	1.679	1.493	35.7	19.5	62 W	2*	54*
2 25	18 23.62	−40 20.7	1.652	1.490	36.3	19.4	63 W	1*	55*
3 2	18 42.43	−40 0.7	1.625	1.489	36.8	19.4	64 W	1*	55*
3 7	19 0.77	−39 31.0	1.598	1.488	37.3	19.4	65 W	1*	56*
3 12	19 18.56	−38 52.2	1.571	1.488	37.8	19.4	67 W	1*	57*
3 17	19 35.70	−38 5.0	1.545	1.490	38.2	19.3	68 W	1*	58*
3 27	20 7.83	−36 8.5	1.493	1.496	39.0	19.3	71 W	2*	61*
4 6	20 36.90	−33 47.8	1.440	1.506	39.6	19.3	74 W	3*	65*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
				107150 2001 BW_{10}		*(continuation)*			
4 16	21 2.79	−31 8.9	1.385	1.521	40.1	19.2	77 W	5*	69*
4 26	21 25.47	−28 17.2	1.329	1.539	40.3	19.1	81 W	8*	74*
5 6	21 44.99	−25 17.0	1.272	1.560	40.1	19.1	85 W	11*	79*
5 16	22 1.30	−22 11.8	1.212	1.584	39.7	19.0	90 W	15*	84*
5 26	22 14.29	−19 4.5	1.152	1.612	38.7	18.9	96 W	19*	83
6 5	22 23.79	−15 57.0	1.092	1.642	37.1	18.8	102 W	24*	80
6 15	22 29.48	−12 51.6	1.034	1.674	34.9	18.6	109 W	29*	77
6 25	22 31.00	− 9 50.3	0.980	1.707	31.8	18.5	118 W	34*	74
7 5	22 28.08	− 6 56.0	0.933	1.743	27.9	18.3	127 W	38	71
7 10	22 24.90	− 5 32.8	0.913	1.761	25.6	18.2	132 W	39	70
7 15	22 20.59	− 4 13.3	0.897	1.779	23.1	18.1	137 W	41	68
7 20	22 15.25	− 2 58.3	0.885	1.798	20.4	18.0	142 W	42	67
7 25	22 8.99	− 1 48.7	0.877	1.817	17.6	17.9	147 W	43	66
7 30	22 1.99	− 0 45.3	0.875	1.836	14.8	17.9	153 W	44	65
8 4	21 54.44	+ 0 11.0	0.877	1.855	12.2	17.8	157 W	45	64
8 14	21 38.77	+ 1 40.0	0.900	1.894	8.6	17.7	164 W	47	62
8 24	21 24.13	+ 2 37.5	0.946	1.933	9.4	17.9	162 E	48	61
9 3	21 12.27	+ 3 8.1	1.016	1.972	13.0	18.3	154 E	48	61
9 8	21 7.72	+ 3 15.7	1.059	1.992	15.0	18.5	149 E	48	61
9 13	21 4.20	+ 3 19.6	1.106	2.011	16.9	18.6	144 E	48	61
9 18	21 1.71	+ 3 21.0	1.158	2.031	18.7	18.8	140 E	48	61
9 23	21 0.22	+ 3 20.9	1.214	2.050	20.2	19.0	135 E	48	61
9 28	20 59.68	+ 3 20.0	1.273	2.070	21.6	19.2	131 E	48	61
10 3	21 0.04	+ 3 19.1	1.336	2.089	22.7	19.3	126 E	48	61
10 13	21 3.21	+ 3 19.5	1.469	2.127	24.5	19.6	118 E	48	61
10 23	21 9.16	+ 3 26.0	1.611	2.165	25.6	19.9	110 E	48	61
11 2	21 17.37	+ 3 40.3	1.759	2.202	26.1	20.1	103 E	49	60*
11 12	21 27.40	+ 4 3.8	1.911	2.239	26.1	20.3	96 E	49	58*
11 22	21 38.86	+ 4 37.0	2.065	2.275	25.7	20.5	89 E	50	54*
12 2	21 51.44	+ 5 19.6	2.220	2.310	25.0	20.7	83 E	50	48*
12 12	22 4.91	+ 6 11.4	2.373	2.344	24.1	20.9	76 E	51*	42*
12 22	22 19.07	+ 7 11.8	2.523	2.377	22.9	21.0	70 E	51*	35*
1 1	22 33.75	+ 8 20.1	2.669	2.410	21.6	21.1	64 E	50*	29*
1 11	22 48.86	+ 9 35.5	2.809	2.441	20.1	21.2	58 E	48*	23*
1 21	23 4.27	+10 57.1	2.942	2.472	18.4	21.3	53 E	45*	17*
				18899 2000 JQ_2					
12 27	14 42.80	−21 3.2	3.038	2.534	17.5	20.3	51 W	22*	40*
1 6	14 59.20	−21 40.3	2.890	2.497	19.3	20.2	57 W	22*	47*
1 16	15 15.46	−22 8.1	2.734	2.458	21.0	20.1	63 W	22*	54*
1 26	15 31.41	−22 25.2	2.572	2.419	22.5	19.9	70 W	22*	61*
2 5	15 46.92	−22 30.2	2.404	2.378	23.8	19.8	77 W	22*	69*
2 15	16 1.79	−22 21.4	2.235	2.337	24.8	19.6	83 W	23	76*
2 25	16 15.77	−21 56.9	2.064	2.295	25.6	19.4	90 W	23	82*
3 7	16 28.59	−21 14.9	1.895	2.252	25.9	19.2	98 W	24	85
3 17	16 39.92	−20 12.8	1.729	2.208	25.8	19.0	105 W	25	84
3 27	16 49.37	−18 48.0	1.570	2.163	25.1	18.7	113 W	26	83
4 6	16 56.54	−16 57.5	1.420	2.119	23.8	18.4	121 W	28	81
4 16	17 0.95	−14 38.3	1.281	2.073	21.8	18.1	130 W	30	79
4 26	17 2.20	−11 48.6	1.159	2.028	19.0	17.7	139 W	33	76
5 6	17 0.03	− 8 28.8	1.054	1.982	15.8	17.4	148 W	37	72
5 11	16 57.64	− 6 39.0	1.010	1.959	14.1	17.2	152 W	38	71
5 16	16 54.43	− 4 44.4	0.971	1.936	12.7	17.0	155 W	40	69
5 21	16 50.49	− 2 46.9	0.939	1.913	11.8	16.9	157 W	42	67
5 26	16 45.94	− 0 48.7	0.912	1.890	11.6	16.8	158 W	44	65
5 31	16 40.94	+ 1 7.7	0.892	1.868	12.3	16.7	157 W	46	63
6 5	16 35.66	+ 2 59.4	0.878	1.845	13.9	16.7	154 E	48	61
6 10	16 30.33	+ 4 43.8	0.869	1.822	16.0	16.8	150 E	50	59
6 15	16 25.16	+ 6 18.5	0.866	1.800	18.4	16.8	146 E	51	58
6 20	16 20.38	+ 7 41.7	0.867	1.778	20.9	16.9	141 E	53	56
6 25	16 16.18	+ 8 52.5	0.873	1.756	23.4	16.9	137 E	54	55
7 5	16 10.09	+10 35.6	0.894	1.714	28.1	17.1	127 E	56	53
7 15	16 7.79	+11 29.9	0.925	1.673	32.1	17.2	119 E	57	52
7 25	16 9.62	+11 42.8	0.960	1.634	35.3	17.3	111 E	57*	52
7 30	16 12.08	+11 36.6	0.979	1.615	36.7	17.4	108 E	56*	52
8 4	16 15.53	+11 23.2	0.998	1.597	37.9	17.4	105 E	56*	53
8 9	16 19.94	+11 3.6	1.016	1.579	38.9	17.5	102 E	55*	53
8 14	16 25.30	+10 38.8	1.035	1.563	39.7	17.5	99 E	54*	53
8 19	16 31.56	+10 9.6	1.053	1.547	40.5	17.6	97 E	54*	54
8 24	16 38.67	+ 9 36.8	1.070	1.532	41.1	17.6	95 E	53*	54
8 29	16 46.60	+ 9 0.9	1.087	1.518	41.7	17.6	93 E	52*	55
9 3	16 55.32	+ 8 22.7	1.103	1.505	42.1	17.6	91 E	51*	56*
9 8	17 4.80	+ 7 42.6	1.119	1.493	42.4	17.7	89 E	51*	56*
9 13	17 15.02	+ 7 1.2	1.135	1.482	42.7	17.7	87 E	50*	56*
9 18	17 25.94	+ 6 19.2	1.150	1.472	42.9	17.7	86 E	49*	56*
9 23	17 37.53	+ 5 37.0	1.165	1.463	43.1	17.7	85 E	49*	56*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
				18899 2000 JQ_2		*(continuation)*			
10 3	18 2.58	+ 4 14.1	1.196	1.449	43.1	17.8	82 E	48*	56*
10 13	18 29.93	+ 2 56.3	1.228	1.441	43.0	17.8	80 E	47*	55*
10 23	18 59.26	+ 1 48.0	1.265	1.437	42.6	17.9	78 E	46*	53*
11 2	19 30.14	+ 0 52.5	1.307	1.439	42.0	17.9	76 E	45*	51*
11 12	20 2.16	+ 0 12.9	1.356	1.447	41.2	18.0	74 E	45*	49*
11 22	20 34.81	− 0 8.8	1.413	1.459	40.2	18.1	72 E	44*	47*
12 2	21 7.60	− 0 12.0	1.479	1.477	39.0	18.1	70 E	44*	44*
12 12	21 40.13	+ 0 2.9	1.555	1.499	37.6	18.3	68 E	44*	41*
12 22	22 12.03	+ 0 34.2	1.640	1.525	36.0	18.4	66 E	44*	38*
1 1	22 43.07	+ 1 19.3	1.733	1.555	34.3	18.5	63 E	44*	35*
1 11	23 13.14	+ 2 15.6	1.834	1.588	32.4	18.6	60 E	44*	32*
1 21	23 42.16	+ 3 20.0	1.939	1.624	30.4	18.7	57 E	43*	29*
				308108 2004 XB					
12 27	14 43.78	−25 44.6	2.484	1.994	22.1	21.4	50 W	17*	41*
1 6	15 5.35	−27 32.7	2.388	1.987	23.8	21.4	55 W	16*	47*
1 16	15 27.06	−29 11.7	2.287	1.980	25.4	21.3	60 W	15*	53*
1 26	15 48.76	−30 41.0	2.181	1.972	26.8	21.3	65 W	14*	58*
2 5	16 10.32	−32 0.1	2.071	1.964	28.1	21.2	70 W	13*	64*
2 15	16 31.54	−33 8.9	1.957	1.955	29.2	21.1	75 W	12*	69*
2 25	16 52.15	−34 7.5	1.841	1.946	30.1	21.0	81 W	11*	74*
3 7	17 11.89	−34 56.3	1.724	1.936	30.8	20.8	86 W	10*	78*
3 17	17 30.38	−35 36.2	1.607	1.925	31.1	20.7	92 W	9*	80*
3 27	17 47.19	−36 8.1	1.490	1.914	31.0	20.5	99 W	9*	80
4 6	18 1.86	−36 33.3	1.376	1.903	30.5	20.3	105 W	8*	79
4 11	18 8.21	−36 43.7	1.320	1.898	30.0	20.2	109 W	8	79
4 16	18 13.79	−36 52.8	1.266	1.892	29.4	20.1	112 W	8	79
4 21	18 18.53	−37 0.5	1.213	1.886	28.6	20.0	116 W	8	79
4 26	18 22.33	−37 6.9	1.161	1.880	27.6	19.8	120 W	8	79
5 1	18 25.13	−37 11.9	1.112	1.874	26.4	19.7	124 W	8	79
5 6	18 26.82	−37 15.0	1.065	1.868	25.0	19.5	129 W	8	79
5 11	18 27.32	−37 16.0	1.020	1.862	23.4	19.4	133 W	8	79
5 16	18 26.57	−37 14.2	0.979	1.856	21.5	19.2	138 W	8	79
5 21	18 24.54	−37 8.8	0.940	1.849	19.4	19.1	143 W	8	79
5 26	18 21.25	−36 58.7	0.906	1.843	17.1	18.9	148 W	8	79
5 31	18 16.76	−36 43.1	0.876	1.837	14.6	18.8	153 W	8	79
6 5	18 11.18	−36 20.9	0.850	1.831	12.0	18.6	158 W	9	80
6 10	18 4.70	−35 51.1	0.829	1.824	9.4	18.4	163 W	9	80
6 15	17 57.60	−35 13.2	0.814	1.818	7.3	18.3	167 W	10	81
6 20	17 50.21	−34 27.4	0.804	1.812	6.2	18.2	169 E	11	82
6 25	17 42.88	−33 34.2	0.799	1.806	6.9	18.2	168 E	11	82
6 30	17 35.92	−32 35.0	0.800	1.799	9.0	18.3	164 E	12	83
7 5	17 29.63	−31 31.3	0.807	1.793	11.8	18.4	159 E	13	84
7 10	17 24.26	−30 25.0	0.818	1.787	14.6	18.5	154 E	15	86
7 15	17 19.99	−29 18.3	0.834	1.781	17.5	18.7	148 E	16	87
7 20	17 16.92	−28 12.7	0.855	1.775	20.2	18.8	143 E	17	88
7 25	17 15.10	−27 9.7	0.879	1.769	22.7	18.9	138 E	18	89
7 30	17 14.51	−26 10.3	0.907	1.763	24.9	19.1	133 E	19	90
8 4	17 15.10	−25 15.0	0.938	1.757	27.0	19.2	128 E	20	89
8 14	17 19.61	−23 37.4	1.007	1.746	30.3	19.4	120 E	21	88
8 24	17 28.03	−22 16.0	1.083	1.735	32.8	19.6	112 E	23*	86
9 3	17 39.70	−21 7.3	1.164	1.724	34.4	19.8	105 E	24*	85
9 13	17 54.07	−20 6.9	1.248	1.714	35.5	20.0	98 E	25*	84
9 23	18 10.66	−19 10.4	1.334	1.705	36.0	20.2	93 E	26*	82*
10 3	18 29.03	−18 14.1	1.420	1.697	36.1	20.3	87 E	27*	78*
10 13	18 48.87	−17 14.5	1.505	1.689	35.8	20.4	82 E	27*	72*
10 23	19 9.87	−16 9.0	1.590	1.682	35.3	20.5	77 E	29*	67*
11 2	19 31.77	−14 55.6	1.673	1.676	34.5	20.6	73 E	30*	61*
11 12	19 54.40	−13 32.8	1.754	1.671	33.5	20.6	69 E	31*	55*
11 22	20 17.55	−11 59.8	1.834	1.667	32.3	20.7	65 E	32*	49*
12 2	20 41.08	−10 16.3	1.910	1.664	31.1	20.7	61 E	33*	43*
12 12	21 4.89	− 8 22.4	1.985	1.662	29.7	20.8	57 E	34*	37*
12 22	21 28.87	− 6 18.7	2.057	1.661	28.2	20.8	53 E	35*	32*
1 1	21 52.97	− 4 6.2	2.126	1.661	26.7	20.8	49 E	35*	27*
1 11	22 17.17	− 1 46.2	2.192	1.662	25.1	20.9	46 E	34*	22*
1 21	22 41.44	+ 0 39.9	2.256	1.664	23.4	20.9	42 E	33*	18*
				36282 2000 CT_{98}					
12 27	14 44.69	−21 26.3	2.787	2.288	19.3	20.3	50 W	21*	40*
1 6	15 3.31	−23 2.3	2.658	2.258	21.1	20.2	56 W	21*	46*
1 16	15 22.09	−24 32.9	2.524	2.229	22.8	20.1	61 W	20*	53*
1 26	15 40.93	−25 57.5	2.385	2.198	24.4	20.0	67 W	19*	60*
2 5	15 59.75	−27 15.9	2.243	2.168	25.8	19.9	73 W	18*	66*
2 15	16 18.39	−28 27.7	2.099	2.137	26.9	19.8	79 W	17*	73*
2 25	16 36.66	−29 33.1	1.956	2.106	27.9	19.6	85 W	15*	78*
3 7	16 54.36	−30 32.4	1.813	2.075	28.6	19.4	91 W	14	83*
3 17	17 11.19	−31 26.2	1.672	2.044	28.9	19.2	97 W	14	85
3 27	17 26.81	−32 15.1	1.536	2.013	28.9	19.0	103 W	13	84
4 6	17 40.83	−33 0.4	1.405	1.983	28.3	18.8	110 W	12	83

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
		36282 2000 CT_{98}				*(continuation)*			
4 11	17 47.09	−33 21.9	1.341	1.967	27.9	18.6	113 W	12	83
4 16	17 52.75	−33 42.8	1.280	1.952	27.3	18.5	117 W	11	82
4 21	17 57.73	−34 3.2	1.221	1.937	26.5	18.4	121 W	11	82
4 26	18 1.98	−34 23.0	1.164	1.923	25.5	18.2	125 W	11	82
5 1	18 5.42	−34 42.4	1.110	1.908	24.4	18.1	129 W	10	81
5 6	18 7.96	−35 1.0	1.059	1.894	23.1	17.9	133 W	10	81
5 11	18 9.52	−35 18.6	1.011	1.879	21.5	17.7	137 W	10	81
5 16	18 10.04	−35 34.7	0.966	1.865	19.8	17.6	141 W	9	80
5 21	18 9.48	−35 48.7	0.925	1.852	17.9	17.4	146 W	9	80
5 26	18 7.86	−35 59.9	0.888	1.838	15.8	17.2	150 W	9	80
5 31	18 5.20	−36 7.3	0.855	1.825	13.5	17.0	155 W	9	80
6 5	18 1.57	−36 10.0	0.826	1.812	11.2	16.9	160 W	9	80
6 10	17 57.11	−36 7.0	0.802	1.799	9.1	16.7	164 W	9	80
6 15	17 52.03	−35 57.5	0.783	1.787	7.5	16.6	167 W	9	80
6 20	17 46.62	−35 40.9	0.770	1.775	7.0	16.5	168 E	9	80
6 25	17 41.16	−35 17.5	0.761	1.764	8.0	16.5	166 E	10	81
6 30	17 35.96	−34 47.4	0.756	1.753	10.0	16.6	163 E	10	81
7 5	17 31.28	−34 11.7	0.757	1.743	12.5	16.6	158 E	11	82
7 10	17 27.39	−33 31.5	0.762	1.733	15.2	16.7	153 E	11	82
7 15	17 24.50	−32 48.2	0.772	1.723	17.9	16.9	149 E	12	83
7 20	17 22.74	−32 3.1	0.785	1.714	20.5	17.0	144 E	13	84
7 25	17 22.19	−31 17.7	0.802	1.705	22.9	17.1	139 E	14	85
7 30	17 22.86	−30 32.7	0.822	1.698	25.2	17.2	135 E	14	85
8 4	17 24.72	−29 48.9	0.846	1.690	27.2	17.3	130 E	15	86
8 9	17 27.74	−29 6.7	0.871	1.683	29.0	17.4	126 E	16	87
8 14	17 31.86	−28 26.4	0.899	1.677	30.6	17.5	122 E	17	88
8 19	17 37.01	−27 47.8	0.929	1.672	32.0	17.6	119 E	17	88
8 24	17 43.08	−27 10.9	0.961	1.667	33.2	17.7	115 E	18	89
9 3	17 57.68	−26 0.5	1.029	1.659	35.1	17.9	109 E	19	90
9 13	18 15.05	−24 52.0	1.102	1.654	36.3	18.1	103 E	20	89
9 23	18 34.59	−23 42.2	1.180	1.652	37.0	18.2	98 E	21	88
10 3	18 55.76	−22 28.0	1.262	1.653	37.2	18.4	93 E	23	85*
10 13	19 18.15	−21 7.2	1.347	1.656	37.0	18.5	89 E	24	80*
10 23	19 41.37	−19 37.8	1.435	1.663	36.5	18.7	84 E	25	75*
11 2	20 5.09	−17 59.1	1.526	1.672	35.8	18.8	80 E	27	70*
11 12	20 29.07	−16 10.8	1.620	1.683	34.8	18.9	76 E	29*	64*
11 22	20 53.11	−14 13.1	1.716	1.697	33.6	19.0	72 E	31*	58*
12 2	21 17.04	−12 6.9	1.814	1.714	32.3	19.1	68 E	33*	52*
12 12	21 40.80	− 9 53.1	1.914	1.732	30.8	19.2	64 E	35*	46*
12 22	22 4.30	− 7 33.0	2.014	1.753	29.2	19.3	60 E	36*	40*
1 1	22 27.51	− 5 8.3	2.116	1.775	27.5	19.4	57 E	37*	35*
1 11	22 50.45	− 2 40.3	2.217	1.799	25.8	19.5	53 E	37*	30*
1 21	23 13.11	− 0 10.7	2.318	1.825	23.9	19.6	49 E	36*	25*
		50867 2000 GM_4							
12 27	14 44.98	−11 55.0	2.568	2.127	21.7	19.7	53 W	30*	36*
1 6	15 2.91	−12 1.1	2.495	2.160	23.0	19.8	59 W	32*	43*
1 16	15 19.81	−11 52.4	2.415	2.193	24.0	19.7	65 W	33*	50*
1 26	15 35.47	−11 27.9	2.327	2.226	24.8	19.7	72 W	33*	56*
2 5	15 49.69	−10 47.2	2.235	2.258	25.3	19.7	79 W	34*	63*
2 15	16 2.19	− 9 49.7	2.139	2.290	25.5	19.6	86 W	35	68*
2 25	16 12.70	− 8 35.4	2.042	2.322	25.2	19.5	93 W	36	72*
3 7	16 20.93	− 7 4.4	1.947	2.353	24.4	19.4	101 W	38	71
3 17	16 26.57	− 5 17.7	1.856	2.384	23.1	19.3	110 W	40	69
3 27	16 29.36	− 3 17.4	1.773	2.413	21.3	19.2	118 W	42	67
4 6	16 29.15	− 1 7.1	1.702	2.443	19.0	19.1	127 W	44	65
4 11	16 27.89	+ 0 0.2	1.672	2.457	17.7	19.0	132 W	45	64
4 16	16 25.89	+ 1 7.7	1.646	2.471	16.3	18.9	136 W	46	63
4 21	16 23.19	+ 2 14.4	1.626	2.485	14.9	18.9	141 W	47	62
4 26	16 19.86	+ 3 19.0	1.611	2.499	13.5	18.8	144 W	48	61
5 1	16 15.97	+ 4 20.5	1.602	2.513	12.3	18.8	148 W	49	60
5 6	16 11.62	+ 5 17.7	1.598	2.526	11.3	18.7	151 W	50	59
5 11	16 6.94	+ 6 9.4	1.601	2.540	10.6	18.7	152 W	51	58
5 16	16 2.05	+ 6 54.7	1.610	2.553	10.4	18.7	153 W	52	57
5 26	15 52.24	+ 8 3.4	1.648	2.578	11.2	18.8	151 E	53	56
6 5	15 43.23	+ 8 41.0	1.709	2.603	13.1	19.0	145 E	54	55
6 15	15 35.87	+ 8 48.4	1.791	2.627	15.3	19.2	137 E	54	55
6 25	15 30.72	+ 8 29.5	1.892	2.650	17.4	19.4	129 E	53	56
6 30	15 29.05	+ 8 11.9	1.948	2.661	18.3	19.5	125 E	53	56
7 5	15 28.00	+ 7 49.8	2.007	2.672	19.1	19.6	121 E	53	56
7 10	15 27.56	+ 7 23.7	2.069	2.683	19.8	19.7	117 E	52*	57
7 15	15 27.72	+ 6 54.4	2.134	2.693	20.4	19.8	113 E	52*	57
7 25	15 29.74	+ 5 48.2	2.268	2.714	21.2	20.0	105 E	49*	58
8 4	15 33.83	+ 4 35.5	2.407	2.733	21.6	20.1	98 E	47*	59
8 14	15 39.77	+ 3 19.2	2.549	2.752	21.6	20.3	91 E	44*	61
8 24	15 47.33	+ 2 2.1	2.691	2.770	21.3	20.4	84 E	41*	61*
9 3	15 56.29	+ 0 46.1	2.831	2.786	20.7	20.5	77 E	39*	59*
9 13	16 6.48	− 0 27.0	2.968	2.802	19.8	20.6	71 E	37*	55*
9 23	16 17.72	− 1 35.9	3.099	2.817	18.8	20.7	65 E	34*	51*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
		50867 2000 GM_4				*(continuation)*			
10 3	16 29.89	− 2 39.5	3.223	2.831	17.5	20.7	58 E	33*	45*
10 13	16 42.85	− 3 36.9	3.339	2.844	16.2	20.8	53 E	31*	39*
10 23	16 56.49	− 4 27.1	3.445	2.856	14.7	20.8	47 E	29*	33*
11 2	17 10.71	− 5 9.5	3.541	2.867	13.1	20.8	41 E	27*	26*
11 12	17 25.40	− 5 43.6	3.625	2.877	11.5	20.8	36 E	25*	19*
11 22	17 40.46	− 6 8.8	3.696	2.886	9.9	20.8	30 E	22*	12*
12 2	17 55.80	− 6 24.9	3.754	2.894	8.4	20.8	25 E	19*	5*
12 12	18 11.34	− 6 31.7	3.797	2.902	7.1	20.7	21 E	15*	—
12 22	18 26.96	− 6 28.9	3.827	2.908	6.0	20.7	18 E	11*	—
1 1	18 42.59	− 6 16.8	3.841	2.913	5.6	20.7	17 W	7*	—
1 11	18 58.14	− 5 55.4	3.840	2.917	5.8	20.7	18 W	11*	—
1 21	19 13.51	− 5 25.0	3.824	2.921	6.7	20.7	20 W	14*	—
		27346 2000 DN_8							
12 27	14 46.36	+13 41.2	2.674	2.423	21.5	20.9	65 W	54*	23*
1 6	15 1.66	+14 29.0	2.591	2.448	22.3	20.9	71 W	57*	28*
1 16	15 15.94	+15 35.3	2.505	2.472	22.8	20.8	77 W	60*	33*
1 26	15 28.96	+17 0.9	2.416	2.494	23.1	20.8	83 W	62*	38*
2 5	15 40.48	+18 45.8	2.328	2.514	23.1	20.7	89 W	64	41*
2 15	15 50.21	+20 49.5	2.242	2.533	22.8	20.7	95 W	66	42*
2 25	15 57.79	+23 10.2	2.161	2.550	22.4	20.6	101 W	68	41*
3 7	16 2.88	+25 44.3	2.087	2.565	21.7	20.5	107 W	71	38
3 12	16 4.37	+27 5.0	2.054	2.572	21.3	20.5	110 W	72	37
3 17	16 5.09	+28 26.8	2.023	2.578	20.8	20.4	113 W	73	36
3 22	16 5.01	+29 48.8	1.995	2.584	20.4	20.4	115 W	75	34
3 27	16 4.10	+31 9.8	1.971	2.590	20.0	20.3	118 W	76	33
4 1	16 2.34	+32 28.6	1.950	2.595	19.5	20.3	120 W	77	32
4 6	15 59.74	+33 43.7	1.933	2.599	19.2	20.3	121 W	79	30
4 11	15 56.30	+34 53.8	1.919	2.604	18.8	20.3	123 W	80	29
4 16	15 52.07	+35 57.2	1.910	2.608	18.6	20.2	124 W	81	28
4 21	15 47.13	+36 52.8	1.905	2.611	18.5	20.2	125 W	82	27
4 26	15 41.59	+37 39.0	1.904	2.614	18.4	20.2	125 W	83	26
5 1	15 35.57	+38 15.1	1.908	2.617	18.4	20.2	125 W	83	26
5 6	15 29.22	+38 40.3	1.915	2.619	18.6	20.3	124 W	84	25
5 11	15 22.70	+38 53.9	1.927	2.620	18.8	20.3	123 W	84	25
5 16	15 16.21	+38 55.8	1.942	2.622	19.1	20.3	122 E	84	25
5 21	15 9.90	+38 46.3	1.962	2.622	19.5	20.3	120 E	84	25
5 26	15 3.95	+38 25.8	1.984	2.623	19.8	20.4	118 E	83	26
5 31	14 58.47	+37 55.1	2.010	2.623	20.3	20.4	116 E	83	26
6 5	14 53.56	+37 15.1	2.039	2.622	20.7	20.5	114 E	82	27
6 10	14 49.32	+36 26.7	2.071	2.621	21.1	20.5	112 E	81	28
6 15	14 45.78	+35 30.9	2.106	2.620	21.5	20.6	109 E	81	28
6 20	14 42.99	+34 28.9	2.142	2.618	21.8	20.6	106 E	79	30
6 25	14 40.94	+33 21.6	2.181	2.616	22.2	20.6	104 E	78	31
6 30	14 39.62	+32 10.1	2.221	2.614	22.4	20.7	101 E	77*	32
7 5	14 39.00	+30 55.2	2.263	2.611	22.7	20.7	98 E	74*	33
7 10	14 39.06	+29 37.6	2.305	2.607	22.8	20.8	95 E	71*	34
7 15	14 39.76	+28 17.9	2.349	2.603	23.0	20.8	93 E	68*	36
7 20	14 41.07	+26 56.9	2.393	2.599	23.0	20.9	90 E	65*	37
7 25	14 42.95	+25 35.1	2.438	2.594	23.0	20.9	87 E	62*	38
7 30	14 45.35	+24 12.9	2.483	2.589	23.0	20.9	84 E	60*	40
8 4	14 48.24	+22 50.6	2.528	2.583	22.9	21.0	82 E	57*	41*
8 9	14 51.60	+21 28.5	2.573	2.577	22.7	21.0	79 E	55*	42*
8 14	14 55.38	+20 7.0	2.617	2.571	22.5	21.0	76 E	53*	43*
8 19	14 59.57	+18 46.3	2.661	2.564	22.2	21.0	73 E	50*	43*
8 24	15 4.13	+17 26.7	2.704	2.557	21.9	21.1	71 E	49*	43*
8 29	15 9.03	+16 8.3	2.746	2.549	21.6	21.1	68 E	47*	43*
9 3	15 14.26	+14 51.2	2.787	2.541	21.2	21.1	66 E	45*	42*
9 8	15 19.81	+13 35.5	2.826	2.532	20.8	21.1	63 E	43*	41*
9 13	15 25.64	+12 21.5	2.865	2.523	20.3	21.1	60 E	42*	39*
9 18	15 31.75	+11 9.3	2.901	2.513	19.8	21.1	58 E	40*	37*
9 23	15 38.12	+ 9 59.0	2.936	2.503	19.2	21.1	55 E	39*	36*
9 28	15 44.73	+ 8 50.5	2.969	2.493	18.7	21.1	53 E	37*	33*
10 3	15 51.58	+ 7 44.1	3.000	2.482	18.0	21.1	50 E	36*	31*
10 8	15 58.66	+ 6 39.8	3.030	2.471	17.4	21.1	48 E	34*	29*
10 13	16 5.95	+ 5 37.7	3.057	2.459	16.8	21.1	45 E	33*	26*
10 18	16 13.45	+ 4 37.8	3.081	2.447	16.1	21.1	43 E	32*	24*
10 23	16 21.14	+ 3 40.4	3.103	2.434	15.4	21.0	41 E	30*	21*
10 28	16 29.01	+ 2 45.3	3.123	2.421	14.7	21.0	38 E	29*	18*
11 2	16 37.07	+ 1 52.6	3.141	2.408	14.0	21.0	36 E	28*	15*
11 7	16 45.31	+ 1 2.5	3.155	2.394	13.3	21.0	34 E	26*	12*
11 12	16 53.70	+ 0 14.9	3.167	2.380	12.5	20.9	31 E	25*	9*
11 17	17 2.26	− 0 30.0	3.176	2.365	11.8	20.9	29 E	23*	6*
11 22	17 10.96	− 1 12.3	3.182	2.350	11.2	20.9	27 E	21*	3*
11 27	17 19.81	− 1 51.9	3.185	2.334	10.5	20.8	26 E	20*	—
12 2	17 28.79	− 2 28.8	3.186	2.318	9.9	20.8	24 E	18*	—
12 7	17 37.91	− 3 3.0	3.183	2.301	9.3	20.7	22 E	16*	—
12 12	17 47.15	− 3 34.4	3.177	2.284	8.8	20.7	21 E	14*	—
12 17	17 56.50	− 4 3.0	3.168	2.267	8.5	20.7	20 E	11*	—
12 22	18 5.96	− 4 29.0	3.156	2.249	8.2	20.6	19 E	9*	—
12 27	18 15.53	− 4 52.2	3.141	2.231	8.1	20.6	19 W	9*	—

27346 2000 DN_8 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 1	18 25.20	− 5 12.7	3.123	2.212	8.1	20.6	18 W	10*	—
1 6	18 34.96	− 5 30.5	3.102	2.193	8.3	20.5	19 W	12*	—
1 11	18 44.81	− 5 45.7	3.077	2.173	8.6	20.5	19 W	13*	—
1 16	18 54.74	− 5 58.3	3.050	2.153	9.1	20.5	20 W	14*	—
1 21	19 4.75	− 6 8.4	3.019	2.133	9.6	20.5	21 W	15*	2*

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12 27	14 46.39	− 2 11.3	3.374	2.949	16.2	19.8	57 W	40*	32*
1 6	14 58.15	− 2 9.1	3.271	2.970	17.3	19.7	64 W	41*	39*
1 16	15 8.97	− 1 54.7	3.158	2.989	18.1	19.7	71 W	43*	47*
1 26	15 18.65	− 1 27.4	3.039	3.007	18.7	19.7	79 W	44*	53*
2 5	15 26.99	− 0 46.7	2.916	3.024	19.0	19.6	87 W	44	59*
2 15	15 33.75	+ 0 7.6	2.792	3.040	18.9	19.5	95 W	45	63*
2 25	15 38.70	+ 1 15.2	2.670	3.056	18.4	19.4	103 W	46	63
3 7	15 41.60	+ 2 35.1	2.554	3.070	17.4	19.3	112 W	48	61
3 17	15 42.27	+ 4 5.4	2.449	3.083	16.0	19.2	121 W	49	60
3 27	15 40.58	+ 5 42.7	2.358	3.095	14.3	19.0	130 W	51	58
4 1	15 38.86	+ 6 32.6	2.319	3.100	13.3	19.0	134 W	52	57
4 6	15 36.57	+ 7 22.3	2.285	3.106	12.3	18.9	138 W	52	57
4 11	15 33.74	+ 8 11.1	2.256	3.111	11.3	18.8	142 W	53	56
4 16	15 30.43	+ 8 58.1	2.234	3.115	10.4	18.8	146 W	54	55
4 21	15 26.70	+ 9 42.4	2.218	3.120	9.6	18.7	149 W	55	54
4 26	15 22.62	+10 23.1	2.208	3.124	9.1	18.7	151 W	55	54
5 1	15 18.29	+10 59.5	2.205	3.128	8.8	18.7	152 W	56	53
5 6	15 13.80	+11 31.0	2.208	3.132	8.8	18.7	152 W	57	52
5 16	15 4.75	+12 16.9	2.235	3.139	9.8	18.8	148 E	57	52
5 26	14 56.28	+12 38.3	2.287	3.145	11.5	18.9	142 E	58	51
6 5	14 49.09	+12 35.8	2.361	3.149	13.4	19.0	134 E	58	51
6 15	14 43.63	+12 11.7	2.454	3.153	15.2	19.2	125 E	57	52
6 25	14 40.20	+11 29.5	2.561	3.156	16.7	19.3	117 E	56*	53
7 5	14 38.84	+10 33.2	2.680	3.157	17.8	19.5	109 E	55*	53
7 15	14 39.51	+ 9 26.3	2.806	3.158	18.4	19.6	101 E	51*	55
7 25	14 42.08	+ 8 12.2	2.935	3.157	18.7	19.7	93 E	47*	56
8 4	14 46.35	+ 6 53.6	3.066	3.156	18.7	19.8	86 E	44*	57*
8 14	14 52.16	+ 5 32.3	3.195	3.153	18.4	19.9	78 E	40*	57*
8 24	14 59.34	+ 4 10.4	3.320	3.149	17.7	19.9	72 E	37*	55*
9 3	15 7.73	+ 2 49.3	3.438	3.145	16.9	20.0	65 E	34*	50*
9 13	15 17.19	+ 1 30.0	3.548	3.139	15.8	20.0	58 E	32*	45*
9 23	15 27.59	+ 0 13.7	3.649	3.132	14.6	20.0	52 E	29*	40*
10 3	15 38.83	− 0 58.7	3.738	3.125	13.3	20.0	46 E	27*	33*
10 13	15 50.82	− 2 6.4	3.815	3.116	11.8	20.0	40 E	25*	27*
10 23	16 3.46	− 3 8.5	3.879	3.106	10.4	20.0	34 E	22*	20*
11 2	16 16.67	− 4 4.5	3.929	3.095	8.9	19.9	29 E	20*	13*
11 12	16 30.38	− 4 53.7	3.963	3.083	7.4	19.9	24 E	17*	6*
11 22	16 44.48	− 5 35.5	3.982	3.070	6.2	19.8	20 E	14*	—
12 2	16 58.92	− 6 9.4	3.985	3.056	5.4	19.8	17 E	10*	—
12 12	17 13.61	− 6 34.9	3.972	3.041	5.3	19.7	16 W	6*	—
12 22	17 28.45	− 6 51.9	3.943	3.025	5.8	19.7	18 W	11*	—
1 1	17 43.37	− 7 0.0	3.899	3.008	7.0	19.8	22 W	16*	—
1 11	17 58.27	− 6 59.1	3.839	2.989	8.4	19.8	26 W	19*	6*
1 21	18 13.05	− 6 49.3	3.764	2.970	10.0	19.8	32 W	22*	14*

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12 27	14 46.57	−16 17.3	2.920	2.428	18.4	21.2	51 W	26*	38*
1 6	15 1.90	−16 36.0	2.840	2.461	19.8	21.2	58 W	27*	45*
1 16	15 16.20	−16 43.2	2.751	2.494	20.9	21.2	65 W	28*	52*
1 26	15 29.26	−16 38.3	2.653	2.526	21.7	21.2	72 W	28*	60*
2 5	15 40.86	−16 20.7	2.548	2.557	22.3	21.1	79 W	29	68*
2 15	15 50.76	−15 50.1	2.439	2.587	22.4	21.1	87 W	29	75*
2 25	15 58.68	−15 5.9	2.328	2.617	22.1	21.0	96 W	30	79*
3 7	16 4.36	−14 8.1	2.219	2.646	21.3	20.9	104 W	31	78
3 17	16 7.54	−12 56.7	2.115	2.675	19.9	20.8	114 W	32	77
3 27	16 8.01	−11 32.5	2.020	2.702	17.9	20.6	124 W	33	76
4 6	16 5.73	− 9 57.2	1.939	2.729	15.4	20.5	134 W	35	74
4 16	16 0.79	− 8 14.0	1.877	2.755	12.3	20.3	144 W	37	72
4 21	15 57.43	− 7 20.8	1.854	2.767	10.6	20.2	149 W	38	71
4 26	15 53.59	− 6 27.8	1.838	2.780	9.0	20.1	154 W	39	70
5 1	15 49.34	− 5 35.5	1.828	2.792	7.5	20.1	159 W	39	70
5 6	15 44.80	− 4 45.0	1.825	2.804	6.2	20.0	163 W	40	69
5 11	15 40.08	− 3 57.0	1.830	2.816	5.5	20.0	164 W	41	68
5 16	15 35.30	− 3 12.4	1.841	2.827	5.6	20.0	164 W	42	67
5 26	15 26.08	− 1 56.3	1.885	2.850	7.7	20.2	158 E	43	66
6 5	15 17.99	− 1 0.2	1.956	2.871	10.6	20.4	149 E	44	65
6 15	15 11.67	− 0 25.6	2.049	2.892	13.4	20.6	139 E	45	64
6 25	15 7.51	− 0 11.2	2.163	2.912	15.7	20.9	129 E	45	64
7 5	15 5.62	− 0 14.5	2.291	2.930	17.5	21.1	120 E	45*	64
7 15	15 5.94	− 0 32.4	2.430	2.948	18.8	21.2	111 E	43*	65
7 25	15 8.33	− 1 1.7	2.576	2.965	19.5	21.4	102 E	41*	65

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12 27	14 48.41	−14 46.5	3.006	2.511	17.8	21.2	51 W	27*	37*
1 6	15 4.26	−15 46.8	2.872	2.486	19.5	21.2	58 W	28*	44*
1 16	15 19.85	−16 39.9	2.730	2.460	21.0	21.1	64 W	28*	51*
1 26	15 35.03	−17 25.2	2.582	2.434	22.4	21.0	70 W	27*	59*
2 5	15 49.65	−18 2.4	2.430	2.407	23.5	20.8	77 W	27*	66*
2 15	16 3.49	−18 31.2	2.275	2.379	24.4	20.7	84 W	26	74*
2 25	16 16.31	−18 51.4	2.118	2.350	24.9	20.5	91 W	26	80*
3 7	16 27.82	−19 3.2	1.963	2.321	25.0	20.3	98 W	26	83
3 17	16 37.67	−19 6.7	1.811	2.291	24.7	20.1	106 W	26	83
3 27	16 45.48	−19 2.2	1.665	2.260	23.8	19.9	114 W	26	83
4 6	16 50.83	−18 50.1	1.526	2.229	22.3	19.6	122 W	26	83
4 16	16 53.27	−18 31.0	1.398	2.197	20.0	19.3	132 W	26	83
4 26	16 52.43	−18 5.4	1.284	2.165	16.8	19.0	142 W	27	82
5 6	16 48.17	−17 34.2	1.187	2.132	12.8	18.7	152 W	27	82
5 16	16 40.64	−16 58.7	1.111	2.099	8.0	18.3	163 W	28	81
5 21	16 35.86	−16 40.0	1.081	2.083	5.4	18.1	169 W	28	81
5 26	16 30.60	−16 21.4	1.057	2.066	3.2	17.9	173 W	29	80
5 31	16 25.02	−16 3.2	1.039	2.050	3.0	17.8	174 E	29	80
6 5	16 19.33	−15 46.0	1.026	2.033	5.1	17.9	170 E	29	80
6 10	16 13.73	−15 30.5	1.020	2.016	7.8	18.0	164 E	29	80
6 15	16 8.46	−15 17.3	1.020	2.000	10.7	18.1	159 E	30	79
6 20	16 3.70	−15 7.0	1.025	1.983	13.6	18.2	153 E	30	79
6 25	15 59.62	−15 0.1	1.034	1.967	16.3	18.3	147 E	30	79
7 5	15 53.97	−14 57.5	1.066	1.934	21.3	18.5	136 E	30	79
7 15	15 52.13	−15 10.5	1.112	1.902	25.4	18.7	127 E	30	79
7 25	15 54.27	−15 38.0	1.168	1.870	28.8	18.9	118 E	29*	80
8 4	16 0.21	−16 17.2	1.230	1.839	31.3	19.0	110 E	28*	80
8 14	16 9.65	−17 5.0	1.295	1.809	33.1	19.1	102 E	26*	81
8 24	16 22.28	−17 57.5	1.363	1.780	34.4	19.2	96 E	25*	82
9 3	16 37.72	−18 51.1	1.431	1.752	35.2	19.3	90 E	24*	81*
9 13	16 55.71	−19 41.9	1.498	1.726	35.5	19.4	85 E	23*	77*
9 23	17 15.97	−20 26.5	1.564	1.702	35.5	19.5	80 E	22*	73*
10 3	17 38.20	−21 1.5	1.629	1.680	35.2	19.5	75 E	22*	68*
10 13	18 2.18	−21 23.7	1.692	1.660	34.6	19.6	71 E	22*	64*
10 23	18 27.61	−21 30.6	1.753	1.642	33.9	19.6	67 E	22*	60*
11 2	18 54.20	−21 19.9	1.814	1.627	33.0	19.6	63 E	22*	55*
11 12	19 21.69	−20 50.1	1.874	1.615	31.9	19.7	60 E	22*	51*
11 22	19 49.76	−20 0.5	1.933	1.606	30.7	19.7	56 E	23*	46*
12 2	20 18.14	−18 51.1	1.991	1.600	29.4	19.7	53 E	24*	41*
12 12	20 46.60	−17 22.6	2.050	1.597	28.0	19.7	50 E	24*	37*
12 22	21 14.92	−15 36.7	2.109	1.597	26.5	19.7	46 E	25*	32*
1 1	21 42.96	−13 35.3	2.169	1.601	24.9	19.8	43 E	25*	28*
1 11	22 10.62	−11 20.9	2.229	1.607	23.2	19.8	40 E	25*	24*
1 21	22 37.84	− 8 56.3	2.290	1.617	21.5	19.8	37 E	24*	21*

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12 27	14 48.56	−26 49.3	2.766	2.239	19.2	20.9	48 W	16*	40*
1 6	15 9.24	−27 48.7	2.629	2.195	21.2	20.8	54 W	16*	46*
1 16	15 30.33	−28 37.8	2.486	2.150	23.1	20.7	59 W	16*	52*
1 26	15 51.73	−29 14.7	2.337	2.106	24.9	20.6	64 W	15*	58*
2 5	16 13.36	−29 37.5	2.186	2.060	26.6	20.5	70 W	15*	63*
2 10	16 24.23	−29 42.9	2.109	2.037	27.5	20.4	72 W	15*	66*
2 15	16 35.10	−29 44.1	2.032	2.014	28.3	20.3	75 W	15*	69*
2 20	16 45.96	−29 40.5	1.955	1.991	29.0	20.2	78 W	15*	72*
2 25	16 56.78	−29 32.1	1.878	1.968	29.7	20.1	80 W	15*	74*
3 2	17 7.54	−29 18.5	1.801	1.945	30.4	20.0	83 W	16*	77*
3 7	17 18.22	−28 59.3	1.725	1.922	31.0	19.9	86 W	16*	79*
3 12	17 28.79	−28 34.2	1.649	1.898	31.5	19.8	88 W	16*	82*
3 17	17 39.20	−28 2.8	1.574	1.875	32.0	19.7	91 W	17*	85*
3 22	17 49.42	−27 24.6	1.500	1.852	32.5	19.6	94 W	17*	87*
3 27	17 59.43	−26 39.3	1.427	1.829	32.8	19.5	96 W	18*	89
4 1	18 9.20	−25 46.4	1.355	1.807	33.1	19.3	99 W	19*	90
4 6	18 18.68	−24 45.3	1.285	1.784	33.3	19.2	102 W	20*	89
4 11	18 27.82	−23 35.5	1.217	1.762	33.4	19.1	105 W	21*	88
4 16	18 36.58	−22 16.3	1.151	1.739	33.4	18.9	107 W	23*	86
4 21	18 44.92	−20 47.0	1.087	1.718	33.3	18.7	110 W	24*	85
4 26	18 52.80	−19 7.0	1.026	1.696	33.1	18.6	113 W	26*	83
5 1	19 0.17	−17 15.6	0.967	1.675	32.7	18.4	116 W	28*	81
5 6	19 6.97	−15 12.0	0.911	1.654	32.3	18.3	119 W	30*	79
5 11	19 13.15	−12 55.8	0.859	1.634	31.7	18.1	122 W	32	77
5 16	19 18.64	−10 26.5	0.810	1.614	31.1	17.9	124 W	35	74
5 26	19 27.39	− 4 48.6	0.723	1.576	29.6	17.6	130 W	40	69
6 5	19 32.85	+ 1 36.9	0.653	1.541	28.3	17.3	134 W	47	62
6 15	19 34.70	+ 8 33.3	0.601	1.509	27.6	17.0	136 W	54	55
6 20	19 34.29	+12 4.2	0.582	1.495	27.7	16.9	137 W	57	52
6 25	19 33.06	+15 30.7	0.567	1.481	28.1	16.9	137 W	61	48
6 30	19 31.09	+18 48.3	0.557	1.469	28.8	16.8	136 W	64	45
7 5	19 28.49	+21 52.2	0.551	1.457	29.8	16.8	135 W	67	42
7 10	19 25.44	+24 38.2	0.548	1.447	30.9	16.8	133 W	70	39

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 15	19 22.17	+27 3.2	0.548	1.438	32.1	16.8	131 E	72	37
7 20	19 18.94	+29 5.5	0.550	1.430	33.3	16.9	129 E	74	35
7 25	19 15.98	+30 44.4	0.555	1.423	34.5	16.9	127 E	76	33
7 30	19 13.54	+32 0.2	0.562	1.418	35.6	17.0	126 E	77	32
8 4	19 11.82	+32 53.6	0.570	1.414	36.5	17.0	124 E	78	31
8 9	19 11.01	+33 25.9	0.579	1.412	37.3	17.1	122 E	78	31
8 14	19 11.29	+33 39.0	0.589	1.411	37.9	17.1	121 E	79	30
8 19	19 12.74	+33 35.0	0.600	1.411	38.4	17.2	120 E	79	30
8 24	19 15.42	+33 15.8	0.612	1.413	38.8	17.2	119 E	78	31
8 29	19 19.32	+32 43.3	0.625	1.416	39.0	17.3	118 E	78	31
9 3	19 24.42	+31 58.9	0.638	1.420	39.1	17.3	117 E	77	32
9 8	19 30.68	+31 4.5	0.652	1.426	39.1	17.4	117 E	76	33
9 13	19 38.07	+30 1.5	0.667	1.433	39.0	17.5	116 E	75	34
9 18	19 46.48	+28 51.9	0.684	1.441	38.8	17.5	116 E	74	35
9 23	19 55.82	+27 37.0	0.702	1.451	38.6	17.6	115 E	73	36
9 28	20 5.97	+26 18.3	0.722	1.462	38.4	17.7	115 E	71	38
10 3	20 16.84	+24 57.1	0.744	1.474	38.2	17.7	115 E	70	39
10 8	20 28.33	+23 34.9	0.768	1.487	37.9	17.8	114 E	69	40
10 13	20 40.35	+22 13.3	0.795	1.501	37.7	17.9	113 E	67	42
10 18	20 52.77	+20 53.7	0.824	1.516	37.4	18.0	112 E	66	43
10 23	21 5.50	+19 37.2	0.856	1.531	37.2	18.1	111 E	65	44
10 28	21 18.43	+18 24.8	0.891	1.548	37.0	18.2	110 E	63	46
11 2	21 31.51	+17 17.3	0.930	1.566	36.8	18.3	109 E	62	47
11 7	21 44.65	+16 15.5	0.971	1.584	36.6	18.4	108 E	61	48*
11 12	21 57.81	+15 20.0	1.016	1.603	36.4	18.5	106 E	60	49*
11 17	22 10.93	+14 31.0	1.063	1.622	36.2	18.7	104 E	60	49*
11 22	22 23.95	+13 48.7	1.114	1.642	35.9	18.8	103 E	59	49*
12 2	22 49.59	+12 43.5	1.224	1.684	35.4	19.0	99 E	58	49*
12 12	23 14.61	+12 2.9	1.345	1.727	34.6	19.3	94 E	57	47*
12 22	23 38.92	+11 44.0	1.475	1.771	33.7	19.5	90 E	57	45*
1 1	0 2.52	+11 43.3	1.613	1.816	32.6	19.7	85 E	57	42*
1 11	0 25.48	+11 57.2	1.756	1.862	31.4	19.9	80 E	57*	39*
1 21	0 47.84	+12 22.3	1.903	1.908	29.9	20.1	75 E	56*	36*

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12 27	14 48.75	−10 27.8	2.699	2.244	20.4	21.0	53 W	31*	35*
1 6	15 4.44	−11 12.0	2.640	2.293	21.5	21.1	59 W	32*	42*
1 16	15 18.91	−11 44.7	2.571	2.341	22.5	21.1	65 W	33*	50*
1 26	15 31.97	−12 5.9	2.494	2.389	23.1	21.1	72 W	33*	57*
2 5	15 43.42	−12 15.7	2.410	2.436	23.5	21.1	80 W	33	65*
2 15	15 53.00	−12 14.4	2.320	2.482	23.4	21.0	88 W	33	72*
2 25	16 0.43	−12 2.5	2.228	2.527	22.9	20.9	96 W	33	76*
3 7	16 5.46	−11 40.6	2.137	2.572	21.9	20.9	105 W	33	76
3 17	16 7.83	−11 9.5	2.049	2.615	20.4	20.8	114 W	34	75
3 27	16 7.36	−10 30.6	1.970	2.658	18.2	20.6	124 W	34	75
4 6	16 4.02	− 9 45.7	1.904	2.699	15.4	20.5	134 W	35	74
4 16	15 57.97	− 8 57.2	1.856	2.739	12.1	20.4	145 W	36	73
4 26	15 49.70	− 8 8.8	1.830	2.779	8.5	20.2	156 W	37	72
5 6	15 39.95	− 7 24.3	1.830	2.817	5.3	20.1	165 W	38	71
5 16	15 29.68	− 6 47.9	1.858	2.854	4.3	20.1	168 E	38	71
5 26	15 19.91	− 6 22.8	1.914	2.890	6.6	20.3	161 E	39	70
6 5	15 11.48	− 6 11.0	1.997	2.925	9.7	20.6	151 E	39	70
6 15	15 4.99	− 6 12.9	2.104	2.959	12.6	20.8	141 E	39	70
6 25	15 0.76	− 6 27.8	2.231	2.992	15.0	21.1	130 E	39	70
7 5	14 58.83	− 6 53.8	2.374	3.024	16.8	21.3	121 E	38*	71
7 15	14 59.12	− 7 29.0	2.528	3.055	18.0	21.5	112 E	36*	71

6500 Kodaira

12 27	14 50.21	− 6 11.6	3.534	3.061	15.1	18.7	54 W	35*	33*
1 6	15 1.44	− 5 58.8	3.444	3.098	16.2	18.7	61 W	38*	40*
1 16	15 11.65	− 5 34.4	3.345	3.134	17.1	18.7	69 W	39*	48*
1 26	15 20.64	− 4 57.5	3.238	3.169	17.6	18.7	77 W	40*	55*
2 5	15 28.23	− 4 7.8	3.127	3.204	17.9	18.6	86 W	41	62*
2 15	15 34.21	− 3 5.1	3.014	3.238	17.7	18.6	94 W	42	66*
2 25	15 38.38	− 1 49.6	2.903	3.271	17.1	18.5	103 W	43	66
3 7	15 40.56	− 0 22.2	2.798	3.303	16.2	18.4	112 W	45	64
3 17	15 40.63	+ 1 15.1	2.705	3.334	14.7	18.3	121 W	46	63
3 27	15 38.53	+ 2 59.3	2.627	3.365	13.0	18.2	131 W	48	61
4 6	15 34.38	+ 4 46.1	2.568	3.394	11.0	18.1	140 W	50	59
4 11	15 31.60	+ 5 38.7	2.548	3.409	10.0	18.0	144 W	51	58
4 16	15 28.41	+ 6 29.8	2.534	3.423	9.1	18.0	148 W	51	58
4 21	15 24.89	+ 7 18.6	2.526	3.437	8.3	18.0	151 W	52	57
4 26	15 21.10	+ 8 4.4	2.526	3.451	7.7	18.0	153 W	53	56
5 6	15 13.04	+ 9 24.2	2.545	3.478	7.4	18.0	154 W	54	55
5 16	15 4.89	+10 24.9	2.593	3.504	8.3	18.1	150 E	55	54
5 26	14 57.35	+11 4.2	2.666	3.530	9.9	18.2	143 E	56	53
6 5	14 50.95	+11 22.4	2.763	3.554	11.6	18.4	135 E	56	53
6 15	14 46.07	+11 21.0	2.880	3.578	13.2	18.5	126 E	56	53
6 25	14 42.93	+11 2.7	3.012	3.601	14.5	18.7	118 E	56	53
7 5	14 41.58	+10 31.0	3.156	3.622	15.4	18.8	109 E	55*	53

6500 Kodaira *(continuation)*

7 15	14 41.98	+ 9 48.9	3.308	3.644	15.9	19.0	101 E	52*	54
7 25	14 44.02	+ 8 59.1	3.463	3.664	16.1	19.1	93 E	48*	55
8 4	14 47.54	+ 8 4.3	3.620	3.683	15.9	19.2	86 E	45*	56*
8 14	14 52.40	+ 7 6.4	3.774	3.702	15.5	19.3	78 E	42*	55*
8 24	14 58.44	+ 6 7.2	3.924	3.720	14.9	19.4	71 E	39*	53*
9 3	15 5.52	+ 5 8.2	4.067	3.737	14.0	19.4	64 E	36*	48*
9 13	15 13.50	+ 4 10.4	4.200	3.753	13.0	19.5	57 E	33*	43*
9 23	15 22.27	+ 3 15.2	4.322	3.768	11.9	19.5	51 E	31*	37*
10 3	15 31.72	+ 2 23.3	4.432	3.783	10.7	19.5	44 E	29*	30*
10 13	15 41.75	+ 1 35.6	4.527	3.796	9.4	19.5	38 E	26*	23*
10 23	15 52.25	+ 0 53.0	4.607	3.809	8.1	19.5	33 E	24*	16*
11 2	16 3.15	+ 0 16.0	4.671	3.821	7.0	19.5	28 E	21*	8*
11 12	16 14.35	− 0 14.6	4.717	3.832	6.0	19.5	24 E	18*	1*
11 22	16 25.76	− 0 38.3	4.746	3.843	5.4	19.4	21 E	14*	—
12 2	16 37.29	− 0 54.6	4.756	3.852	5.3	19.4	21 E	10*	—
12 12	16 48.85	− 1 3.0	4.748	3.861	5.7	19.5	23 W	15*	—
12 22	17 0.33	− 1 3.1	4.723	3.869	6.6	19.5	27 W	20*	—
1 1	17 11.63	− 0 54.6	4.679	3.876	7.6	19.5	32 W	25*	4*
1 11	17 22.64	− 0 37.4	4.619	3.882	8.8	19.6	37 W	30*	12*
1 21	17 33.25	− 0 11.3	4.543	3.888	10.0	19.6	43 W	33*	20*

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12 27	14 50.21	−34 30.1	3.496	2.923	14.4	21.0	47 W	8*	41*
1 6	15 5.16	−35 59.4	3.380	2.908	15.8	20.9	54 W	8*	48*
1 16	15 19.75	−37 27.0	3.254	2.893	17.2	20.9	60 W	7*	54*
1 26	15 33.79	−38 52.9	3.119	2.877	18.3	20.8	67 W	6*	60*
2 5	15 47.05	−40 17.2	2.977	2.860	19.3	20.7	74 W	5*	66*
2 15	15 59.28	−41 40.3	2.831	2.841	20.1	20.6	81 W	3	70*
2 25	16 10.14	−43 2.3	2.682	2.822	20.5	20.5	88 W	2	72*
3 7	16 19.25	−44 23.3	2.532	2.802	20.7	20.4	95 W	1	72
3 12	16 23.00	−45 3.5	2.458	2.791	20.6	20.3	99 W	—	71
3 17	16 26.13	−45 43.2	2.385	2.780	20.4	20.2	103 W	—	70
3 22	16 28.58	−46 22.3	2.313	2.769	20.2	20.1	107 W	—	70
3 27	16 30.27	−47 0.5	2.243	2.758	19.8	20.0	111 W	—	69
4 1	16 31.14	−47 37.7	2.175	2.747	19.3	20.0	115 W	—	68
4 6	16 31.13	−48 13.3	2.109	2.735	18.7	19.9	119 W	—	68
4 11	16 30.17	−48 46.7	2.046	2.723	18.0	19.8	123 W	—	67
4 16	16 28.20	−49 17.1	1.986	2.711	17.2	19.7	127 W	—	67
4 21	16 25.22	−49 43.9	1.930	2.698	16.3	19.6	131 W	—	66
4 26	16 21.22	−50 5.8	1.878	2.686	15.3	19.5	135 W	—	66
5 1	16 16.27	−50 22.1	1.830	2.673	14.4	19.4	139 W	—	66
5 6	16 10.42	−50 31.6	1.788	2.660	13.4	19.3	142 W	—	65
5 11	16 3.82	−50 33.2	1.751	2.646	12.5	19.2	146 W	—	65
5 16	15 56.66	−50 26.1	1.719	2.633	11.7	19.1	148 W	—	66
5 21	15 49.16	−50 9.9	1.693	2.619	11.2	19.0	150 E	—	66
5 26	15 41.59	−49 44.4	1.673	2.605	11.0	19.0	151 E	—	66
5 31	15 34.19	−49 10.0	1.660	2.590	11.1	19.0	150 E	—	67
6 5	15 27.21	−48 27.3	1.652	2.576	11.7	19.0	149 E	—	68
6 10	15 20.85	−47 37.3	1.650	2.561	12.5	19.0	147 E	—	68
6 15	15 15.30	−46 41.5	1.655	2.546	13.6	19.0	144 E	—	69
6 20	15 10.69	−45 41.5	1.664	2.531	14.9	19.1	140 E	—	70
6 25	15 7.08	−44 38.8	1.679	2.516	16.2	19.1	136 E	—	71
6 30	15 4.50	−43 35.0	1.699	2.500	17.5	19.2	132 E	1	72
7 5	15 2.95	−42 31.3	1.723	2.484	18.7	19.2	128 E	2*	73
7 10	15 2.40	−41 28.9	1.751	2.468	20.0	19.3	124 E	3*	75
7 15	15 2.83	−40 28.7	1.782	2.452	21.1	19.3	120 E	4*	76
7 20	15 4.17	−39 31.4	1.817	2.436	22.1	19.4	116 E	4*	76
7 25	15 6.37	−38 37.5	1.853	2.419	23.0	19.5	112 E	5*	77
7 30	15 9.36	−37 47.2	1.892	2.402	23.8	19.5	108 E	5*	78
8 4	15 13.09	−37 0.5	1.933	2.385	24.4	19.6	104 E	5*	79
8 14	15 22.56	−35 38.1	2.017	2.351	25.4	19.6	96 E	6*	80*
8 24	15 34.37	−34 29.0	2.104	2.316	25.9	19.7	89 E	6*	78*
9 3	15 48.19	−33 30.7	2.190	2.280	26.0	19.8	82 E	6*	73*
9 13	16 3.76	−32 40.6	2.274	2.244	25.7	19.8	76 E	7*	67*
9 23	16 20.85	−31 55.7	2.353	2.207	25.2	19.8	69 E	7*	62*
10 3	16 39.26	−31 12.9	2.428	2.170	24.3	19.8	63 E	8*	57*
10 13	16 58.84	−30 29.5	2.496	2.133	23.2	19.8	58 E	8*	51*
10 23	17 19.42	−29 42.8	2.557	2.096	22.0	19.8	52 E	9*	46*
11 2	17 40.85	−28 50.4	2.610	2.058	20.5	19.8	47 E	9*	40*
11 12	18 3.01	−27 50.1	2.655	2.021	18.9	19.7	41 E	10*	35*
11 22	18 25.75	−26 40.1	2.691	1.983	17.1	19.6	36 E	10*	29*
12 2	18 48.93	−25 18.7	2.719	1.946	15.3	19.6	31 E	10*	24*
12 12	19 12.45	−23 44.7	2.737	1.910	13.4	19.5	27 E	10*	18*
12 22	19 36.18	−21 57.1	2.748	1.874	11.4	19.4	22 E	9*	13*
1 1	20 0.05	−19 55.4	2.750	1.839	9.4	19.2	18 E	8*	8*
1 11	20 23.98	−17 39.3	2.745	1.805	7.4	19.1	14 E	6*	3*
1 21	20 47.92	−15 8.9	2.733	1.772	5.5	19.0	10 E	4*	—