518441 2004 FC_6

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 14	0 50.48	+ 2 36.8	2.036	2.992	7.3	22.3	158 W	48	61
9 24	0 41.14	+ 1 58.2	2.006	2.999	3.4	22.0	170 W	47	62
10 4	0 31.10	+ 1 17.2	2.005	3.004	1.1	21.9	177 E	46	63
10 14	0 21.31	+ 0 39.1	2.034	3.009	4.9	22.2	165 E	46	63
10 24	0 12.63	+ 0 8.3	2.092	3.012	8.6	22.4	153 E	45	64

516986 2012 QP_{10}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 14	2 16.59	−34 18.2	0.327	1.242	38.4	19.0	130 W	11	82
9 19	2 34.06	−37 47.7	0.320	1.224	41.1	19.0	127 W	7	78
9 24	2 51.73	−41 0.1	0.316	1.207	43.8	19.0	124 W	4	75
9 29	3 9.29	−43 49.6	0.314	1.192	46.5	19.0	120 W	1	72
10 4	3 26.41	−46 12.6	0.314	1.178	48.9	19.1	117 W	—	70
10 9	3 42.78	−48 7.4	0.315	1.166	51.1	19.1	115 W	—	68
10 14	3 58.10	−49 34.4	0.316	1.156	53.0	19.2	112 W	—	66
10 19	4 12.11	−50 34.9	0.318	1.147	54.4	19.2	111 W	—	65
10 24	4 24.56	−51 10.4	0.320	1.140	55.5	19.2	109 W	—	65
10 29	4 35.33	−51 21.8	0.321	1.136	56.2	19.2	108 W	—	65
11 3	4 44.39	−51 9.6	0.321	1.133	56.5	19.3	108 W	—	65
11 8	4 51.84	−50 34.1	0.321	1.132	56.4	19.2	108 W	—	65
11 13	4 57.77	−49 35.3	0.320	1.133	55.9	19.2	109 W	—	66
11 18	5 2.30	−48 12.7	0.319	1.137	55.0	19.2	110 W	—	68
11 23	5 5.59	−46 24.6	0.317	1.142	53.7	19.2	111 W	—	70
11 28	5 7.83	−44 9.0	0.315	1.149	51.9	19.1	113 W	1	72
12 3	5 9.33	−41 23.9	0.313	1.158	49.8	19.1	116 W	4	75
12 8	5 10.35	−38 8.6	0.312	1.169	47.4	19.0	119 W	7	78
12 13	5 11.15	−34 23.2	0.312	1.182	44.6	18.9	123 E	11	82
12 18	5 11.95	−30 9.9	0.314	1.196	41.7	18.9	126 E	15	86
12 23	5 12.94	−25 32.3	0.319	1.212	38.7	18.9	130 E	19	90
12 28	5 14.34	−20 36.8	0.326	1.229	35.9	18.9	133 E	24	85
1 2	5 16.32	−15 31.8	0.338	1.247	33.5	18.9	136 E	29	80
1 7	5 18.99	−10 27.1	0.353	1.266	31.7	19.0	137 E	35	74
1 12	5 22.40	− 5 31.9	0.373	1.287	30.5	19.1	138 E	39	70
1 17	5 26.57	− 0 53.6	0.398	1.308	30.1	19.3	138 E	44	65
1 22	5 31.49	+ 3 22.8	0.427	1.330	30.2	19.5	137 E	48	61
1 27	5 37.17	+ 7 14.3	0.461	1.352	30.7	19.7	135 E	52	57
2 1	5 43.58	+10 40.0	0.498	1.375	31.5	19.9	133 E	56	53
2 6	5 50.66	+13 40.3	0.540	1.399	32.4	20.2	131 E	59	50
2 11	5 58.35	+16 16.7	0.585	1.422	33.2	20.4	128 E	61	48
2 16	6 6.57	+18 31.2	0.633	1.447	34.0	20.6	125 E	64	45
2 21	6 15.27	+20 25.8	0.685	1.471	34.8	20.9	122 E	65	44
2 26	6 24.39	+22 2.5	0.739	1.495	35.3	21.1	119 E	67	42
3 2	6 33.89	+23 23.3	0.796	1.520	35.8	21.3	116 E	68	41
3 7	6 43.70	+24 29.9	0.854	1.545	36.2	21.5	113 E	70	39

516725 2009 DK_{12}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 14	2 49.50	−40 4.5	2.503	3.147	15.8	20.6	121 W	5	76
9 19	2 45.54	−40 26.6	2.498	3.167	15.3	20.6	124 W	5	76
9 24	2 40.92	−40 44.0	2.498	3.186	14.9	20.6	125 W	4	75
9 29	2 35.71	−40 55.6	2.501	3.205	14.5	20.6	127 W	4	75
10 4	2 30.02	−41 0.7	2.510	3.225	14.1	20.6	128 W	4	75
10 9	2 23.97	−40 58.4	2.523	3.245	13.9	20.7	129 W	4	75
10 14	2 17.70	−40 48.2	2.541	3.264	13.7	20.7	129 W	4	75
10 19	2 11.35	−40 29.9	2.564	3.284	13.6	20.7	129 W	5	76
10 24	2 5.05	−40 3.5	2.593	3.304	13.7	20.7	128 W	5	76
10 29	1 58.93	−39 29.0	2.626	3.323	13.8	20.8	127 E	6	77
11 3	1 53.14	−38 46.8	2.666	3.343	13.9	20.8	126 E	6	77
11 8	1 47.77	−37 57.6	2.710	3.363	14.2	20.9	124 E	7	78
11 13	1 42.90	−37 2.0	2.759	3.383	14.4	21.0	121 E	8	79
11 18	1 38.59	−36 0.8	2.813	3.403	14.7	21.0	119 E	9	80
11 23	1 34.88	−34 54.9	2.872	3.423	15.0	21.1	116 E	10	81
11 28	1 31.78	−33 45.1	2.935	3.443	15.3	21.2	113 E	11	82
12 3	1 29.31	−32 32.1	3.002	3.463	15.5	21.2	110 E	12	83
12 8	1 27.45	−31 16.7	3.073	3.483	15.7	21.3	106 E	14	85
12 13	1 26.17	−29 59.7	3.146	3.503	15.9	21.4	103 E	15	86
12 18	1 25.46	−28 41.7	3.223	3.523	16.0	21.4	100 E	16	87

523661 2012 LF_{11}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 14	3 4.34	+87 58.1	0.168	1.013	83.0	19.9	87 W	47	—
9 15	9 25.45	+88 8.1	0.164	1.005	85.6	19.9	85 W	46*	—
9 16	11 16.74	+85 28.1	0.161	0.998	88.3	19.9	83 W	44*	—
9 17	11 44.25	+82 24.8	0.158	0.990	91.1	20.0	80 E	43*	—
9 18	11 56.24	+79 11.9	0.155	0.982	94.1	20.1	77 E	43*	—
9 19	12 2.90	+75 51.8	0.153	0.974	97.2	20.2	74 E	42*	—
9 20	12 7.13	+72 26.0	0.152	0.966	100.3	20.3	71 E	41*	—
9 21	12 10.04	+68 55.6	0.151	0.958	103.6	20.4	68 E	40*	—
9 22	12 12.17	+65 22.0	0.150	0.950	106.9	20.6	65 E	38*	—
9 23	12 13.77	+61 46.7	0.150	0.942	110.3	20.7	62 E	37*	—
9 24	12 15.03	+58 11.1	0.151	0.933	113.7	20.9	58 E	35*	—
9 25	12 16.04	+54 36.9	0.152	0.925	117.0	21.2	55 E	33*	—
9 26	12 16.86	+51 5.3	0.154	0.916	120.3	21.4	52 E	31*	—
9 27	12 17.55	+47 37.8	0.157	0.908	123.6	21.7	49 E	28*	—

517532 2014 SW

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 14	5 11.57	+18 40.3	2.198	2.451	24.2	21.1	92 W	63*	45*
9 24	5 15.90	+19 58.9	2.106	2.496	23.3	21.0	101 W	65	44
10 4	5 17.41	+21 21.3	2.017	2.541	21.7	20.9	110 W	66	43
10 14	5 15.76	+22 48.1	1.935	2.585	19.5	20.8	120 W	68	41
10 24	5 10.69	+24 18.3	1.865	2.629	16.5	20.6	131 W	69	40
11 3	5 2.19	+25 49.1	1.814	2.673	12.9	20.5	143 W	71	38
11 8	4 56.75	+26 33.2	1.797	2.695	10.9	20.4	149 W	72	37
11 13	4 50.65	+27 15.6	1.787	2.716	8.9	20.3	155 W	72	37
11 18	4 44.00	+27 55.5	1.783	2.737	6.7	20.2	161 W	73	36
11 23	4 36.97	+28 32.2	1.788	2.759	4.7	20.2	167 W	74	35
11 28	4 29.72	+29 5.4	1.800	2.780	3.1	20.1	171 W	74	35
12 3	4 22.46	+29 34.5	1.821	2.800	2.8	20.1	172 E	75	34
12 8	4 15.39	+29 59.8	1.849	2.821	4.1	20.3	168 E	75	34
12 13	4 8.68	+30 21.2	1.886	2.842	5.8	20.4	163 E	75	34
12 18	4 2.48	+30 39.2	1.930	2.862	7.7	20.6	157 E	76	33
12 23	3 56.91	+30 54.3	1.981	2.882	9.5	20.7	151 E	76	33
12 28	3 52.08	+31 7.0	2.039	2.902	11.1	20.9	145 E	76	33
1 2	3 48.04	+31 18.1	2.103	2.922	12.6	21.0	140 E	76	33
1 7	3 44.82	+31 28.0	2.172	2.942	13.9	21.1	134 E	76	33
1 12	3 42.44	+31 37.4	2.246	2.961	15.0	21.2	129 E	77	32
1 17	3 40.86	+31 46.5	2.323	2.981	16.0	21.4	123 E	77	32
1 22	3 40.07	+31 55.9	2.405	3.000	16.8	21.5	118 E	77	32

516783 2009 XD_8

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 14	6 19.44	+42 31.7	1.407	1.544	39.5	20.8	78 W	71*	19*
9 19	6 31.54	+42 11.7	1.382	1.560	39.4	20.7	80 W	74*	20*
9 24	6 42.76	+41 48.0	1.356	1.577	39.1	20.7	82 W	76*	20*
9 29	6 53.07	+41 21.3	1.328	1.593	38.8	20.7	85 W	79*	21*
10 4	7 2.38	+40 52.0	1.298	1.610	38.4	20.6	88 W	81*	22*
10 9	7 10.68	+40 20.6	1.267	1.628	37.9	20.6	91 W	83*	22*
10 14	7 17.89	+39 47.4	1.235	1.645	37.2	20.5	94 W	85*	23*
10 19	7 23.97	+39 12.9	1.202	1.662	36.4	20.5	98 W	84	24*
10 24	7 28.85	+38 37.2	1.169	1.680	35.5	20.4	102 W	84	25*
10 29	7 32.44	+38 0.6	1.135	1.697	34.3	20.3	106 W	83	26*
11 3	7 34.68	+37 23.0	1.102	1.715	33.0	20.3	110 W	82	27*
11 8	7 35.50	+36 44.0	1.069	1.732	31.4	20.2	114 W	82	27
11 13	7 34.83	+36 3.5	1.037	1.750	29.5	20.1	119 W	81	28
11 23	7 28.92	+34 35.2	0.979	1.785	25.0	19.9	130 W	80	29
12 3	7 16.99	+32 52.0	0.935	1.819	19.2	19.6	143 W	78	31
12 13	7 0.17	+30 47.7	0.910	1.853	12.4	19.4	156 W	76	33
12 18	6 50.60	+29 37.2	0.906	1.870	8.8	19.2	163 W	75	34
12 23	6 40.73	+28 21.8	0.910	1.886	5.2	19.1	170 W	73	36
12 28	6 30.96	+27 3.1	0.920	1.903	2.1	19.0	176 W	72	37
1 2	6 21.67	+25 42.7	0.939	1.919	3.2	19.1	174 E	71	38
1 7	6 13.18	+24 23.0	0.964	1.935	6.5	19.3	167 E	69	40
1 12	6 5.71	+23 5.9	0.996	1.950	9.8	19.6	160 E	68	41
1 17	5 59.42	+21 53.0	1.035	1.966	12.8	19.8	154 E	67	42
1 22	5 54.36	+20 45.5	1.079	1.981	15.5	20.0	147 E	66	43
2 1	5 48.02	+18 49.4	1.184	2.011	20.0	20.4	136 E	64	45
2 11	5 46.33	+17 18.1	1.306	2.039	23.3	20.7	125 E	62	47
2 21	5 48.56	+16 8.0	1.438	2.066	25.6	21.0	115 E	61	48
3 2	5 54.04	+15 14.1	1.579	2.093	27.0	21.3	107 E	60	49

518528 2006 SE_{285}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 14	6 38.84	+12 56.6	2.031	1.957	29.1	20.8	71 W	49*	45*
9 24	6 53.07	+10 26.0	1.967	2.003	29.3	20.8	77 W	51*	49*
10 4	7 4.99	+ 7 44.9	1.900	2.049	29.0	20.7	84 W	51*	53*
10 14	7 14.37	+ 4 55.1	1.832	2.096	28.4	20.7	91 W	50*	57*
10 24	7 20.99	+ 1 59.0	1.766	2.143	27.4	20.6	98 W	47	62*
11 3	7 24.57	− 1 0.0	1.703	2.190	25.9	20.5	106 W	44	65
11 13	7 24.89	− 3 56.9	1.648	2.237	23.9	20.5	114 W	41	68
11 18	7 23.80	− 5 22.6	1.625	2.261	22.8	20.4	118 W	40	69
11 23	7 21.87	− 6 45.1	1.604	2.284	21.6	20.4	122 W	38	71
11 28	7 19.13	− 8 3.3	1.588	2.308	20.3	20.3	126 W	37	72
12 3	7 15.61	− 9 16.0	1.575	2.331	19.0	20.3	130 W	36	73
12 8	7 11.41	−10 22.0	1.567	2.354	17.7	20.3	133 W	35	74
12 13	7 6.60	−11 20.2	1.565	2.378	16.5	20.2	137 W	34	75
12 18	7 1.33	−12 9.7	1.567	2.401	15.5	20.2	139 W	33	76
12 23	6 55.72	−12 49.6	1.576	2.424	14.6	20.2	141 W	32	77
1 2	6 44.15	−13 39.1	1.610	2.469	13.8	20.3	143 E	31	78
1 12	6 33.24	−13 48.7	1.668	2.514	14.0	20.4	142 E	31	78
1 22	6 24.08	−13 23.8	1.748	2.559	15.1	20.6	137 E	32	77
2 1	6 17.43	−12 32.2	1.849	2.603	16.6	20.8	131 E	32	77
2 11	6 13.65	−11 23.3	1.966	2.646	18.1	21.0	124 E	34	75
2 21	6 12.72	−10 5.5	2.098	2.688	19.2	21.2	116 E	35	74
3 2	6 14.44	− 8 45.0	2.241	2.730	20.1	21.4	109 E	36	73

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
518434 2003 PB_8									
9 14	7 10.85	+14 49.9	2.194	1.966	27.3	21.5	64 W	46*	39*
9 24	7 28.43	+14 8.7	2.129	2.002	27.9	21.5	69 W	50*	41*
10 4	7 44.32	+13 24.3	2.058	2.039	28.3	21.5	75 W	54*	43*
10 14	7 58.32	+12 39.2	1.982	2.076	28.3	21.4	81 W	56*	46*
10 24	8 10.24	+11 56.2	1.902	2.114	28.0	21.4	88 W	57*	49*
11 3	8 19.80	+11 18.4	1.819	2.152	27.3	21.3	95 W	56	51*
11 13	8 26.72	+10 49.0	1.736	2.190	26.1	21.2	104 W	56	53*
11 23	8 30.71	+10 31.4	1.656	2.229	24.2	21.1	112 W	56	53
12 3	8 31.50	+10 28.7	1.581	2.267	21.6	20.9	122 W	55	54
12 13	8 28.95	+10 43.6	1.518	2.305	18.2	20.8	133 W	56	53
12 23	8 23.17	+11 17.0	1.471	2.342	14.1	20.6	144 W	56	53
1 2	8 14.64	+12 7.8	1.445	2.379	9.5	20.4	156 W	57	52
1 7	8 9.63	+12 38.6	1.442	2.398	7.1	20.3	162 W	58	51
1 12	8 4.32	+13 12.0	1.445	2.416	4.8	20.2	168 W	58	51
1 17	7 58.87	+13 47.2	1.456	2.435	3.0	20.2	173 W	59	50
1 22	7 53.46	+14 23.3	1.473	2.453	2.9	20.2	173 E	59	50
1 27	7 48.27	+14 59.6	1.498	2.471	4.6	20.3	168 E	60	49
2 1	7 43.46	+15 35.3	1.530	2.489	6.7	20.5	163 E	61	48
2 6	7 39.16	+16 9.7	1.569	2.506	8.9	20.7	157 E	61	48
2 11	7 35.48	+16 42.3	1.615	2.524	10.9	20.8	151 E	62	47
2 16	7 32.49	+17 12.8	1.666	2.541	12.8	21.0	145 E	62	47
2 21	7 30.23	+17 40.9	1.722	2.558	14.4	21.1	140 E	63	46
2 26	7 28.73	+18 6.5	1.784	2.576	15.9	21.3	134 E	63	46
3 2	7 27.99	+18 29.4	1.850	2.592	17.2	21.4	129 E	63	46
523585 1998 MW_5									
9 14	8 4.73	+15 46.7	0.748	0.788	81.8	20.7	51 W	38*	30*
9 19	8 35.49	+15 3.9	0.781	0.758	81.5	20.7	48 W	36*	27*
9 24	9 5.38	+14 4.3	0.820	0.730	80.5	20.7	46 W	35*	25*
9 29	9 34.35	+12 49.6	0.865	0.705	78.6	20.7	44 W	33*	23*
10 4	10 2.37	+11 21.1	0.914	0.684	76.0	20.6	42 W	32*	21*
10 9	10 29.47	+ 9 40.7	0.968	0.668	72.7	20.6	40 W	31*	19*
10 14	10 55.74	+ 7 50.0	1.024	0.657	68.9	20.6	38 W	29*	18*
10 19	11 21.22	+ 5 51.0	1.083	0.652	64.6	20.5	36 W	28*	16*
10 24	11 45.95	+ 3 45.9	1.142	0.654	60.2	20.5	35 W	26*	15*
10 29	12 9.98	+ 1 37.1	1.201	0.662	55.8	20.5	33 W	25*	14*
11 3	12 33.33	− 0 33.1	1.258	0.675	51.6	20.6	32 W	24*	14*
11 8	12 56.01	− 2 42.1	1.314	0.694	47.7	20.6	31 W	23*	13*
11 13	13 18.06	− 4 48.2	1.367	0.717	44.2	20.7	30 W	22*	13*
11 18	13 39.53	− 6 49.5	1.418	0.743	41.2	20.7	30 W	21*	13*
11 23	14 0.45	− 8 44.8	1.466	0.772	38.6	20.8	29 W	20*	13*
11 28	14 20.85	−10 33.1	1.510	0.803	36.4	20.9	29 W	19*	13*
12 3	14 40.78	−12 13.6	1.551	0.835	34.6	21.0	29 W	19*	14*
12 8	15 0.26	−13 46.1	1.589	0.868	33.2	21.1	29 W	18*	15*
12 13	15 19.34	−15 10.3	1.624	0.901	32.1	21.2	29 W	17*	16*
12 18	15 38.04	−16 26.3	1.655	0.934	31.2	21.3	29 W	17*	17*
12 23	15 56.39	−17 33.9	1.684	0.967	30.6	21.4	30 W	16*	18*
12 28	16 14.41	−18 33.5	1.709	0.999	30.2	21.5	31 W	16*	19*
523664 2012 OD_1									
9 14	9 50.42	+58 23.6	0.950	0.946	64.1	20.6	58 W	43*	—
9 16	10 1.96	+56 46.7	0.946	0.929	64.8	20.6	57 W	42*	—
9 18	10 12.65	+55 4.5	0.942	0.913	65.6	20.6	56 W	41*	—
9 20	10 22.58	+53 17.2	0.939	0.896	66.3	20.6	55 W	40*	—
9 22	10 31.83	+51 25.0	0.936	0.878	67.1	20.5	54 W	40*	—
9 24	10 40.47	+49 28.0	0.933	0.860	67.9	20.5	53 W	39*	—
9 26	10 48.56	+47 26.2	0.931	0.842	68.7	20.5	51 W	39*	—
9 28	10 56.18	+45 19.8	0.929	0.823	69.5	20.5	50 W	38*	—
9 30	11 3.38	+43 8.6	0.927	0.803	70.3	20.4	49 W	37*	—
10 2	11 10.22	+40 52.8	0.926	0.784	71.1	20.4	48 W	37*	—
10 4	11 16.74	+38 32.0	0.926	0.763	71.9	20.4	46 W	36*	—
10 9	11 32.03	+32 18.7	0.927	0.711	73.8	20.3	43 W	35*	—
10 14	11 46.44	+25 33.6	0.934	0.658	75.4	20.2	40 W	32*	—
10 19	12 0.78	+18 16.7	0.947	0.603	76.4	20.1	36 W	30*	2*
10 24	12 15.90	+10 30.7	0.970	0.549	76.3	19.9	32 W	26*	5*
10 26	12 22.40	+ 7 17.4	0.982	0.528	75.8	19.8	31 W	25*	7*
10 28	12 29.27	+ 4 1.3	0.995	0.507	75.0	19.7	30 W	23*	8*
10 30	12 36.59	+ 0 43.2	1.011	0.488	73.8	19.6	28 W	21*	9*
11 1	12 44.47	− 2 35.7	1.029	0.470	72.2	19.6	27 W	19*	11*
11 3	12 52.99	− 5 53.9	1.049	0.454	70.2	19.5	26 W	17*	11*
11 5	13 2.25	− 9 9.8	1.071	0.440	67.7	19.4	24 W	14*	12*
11 7	13 12.34	−12 21.3	1.095	0.429	64.7	19.2	23 W	12*	13*
11 9	13 23.32	−15 26.2	1.120	0.420	61.4	19.2	22 W	9*	13*
11 11	13 35.25	−18 22.3	1.147	0.414	57.7	19.1	21 W	7*	13*
11 13	13 48.12	−21 7.3	1.175	0.412	53.8	19.0	20 W	4*	13*
11 15	14 1.91	−23 39.1	1.204	0.414	49.9	18.9	19 W	2*	12*
11 17	14 16.53	−25 56.0	1.233	0.418	45.9	18.9	18 W	—	12*
11 19	14 31.86	−27 56.6	1.262	0.426	42.2	18.9	17 W	—	11*
11 21	14 47.74	−29 40.5	1.291	0.437	38.6	18.9	16 W	—	10*
11 23	15 3.99	−31 7.4	1.320	0.451	35.4	18.9	15 W	—	9*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
523664 2012 OD_1 *(continuation)*									
11 25	15 20.43	−32 17.8	1.349	0.467	32.4	19.0	15 W	—	7*
11 27	15 36.89	−33 12.4	1.377	0.484	29.8	19.0	14 W	—	6*
11 29	15 53.21	−33 52.3	1.405	0.503	27.5	19.1	14 W	—	5*
12 1	16 9.25	−34 18.9	1.433	0.523	25.4	19.1	13 W	—	4*
12 3	16 24.90	−34 33.3	1.460	0.544	23.6	19.2	13 W	—	2*
12 5	16 40.08	−34 37.1	1.487	0.565	21.9	19.3	12 W	—	1*
12 7	16 54.73	−34 31.5	1.513	0.587	20.5	19.4	12 E	—	1*
12 9	17 8.81	−34 17.7	1.540	0.609	19.1	19.4	12 E	—	2*
12 11	17 22.31	−33 57.0	1.565	0.631	17.9	19.5	11 E	—	2*
12 13	17 35.22	−33 30.4	1.591	0.653	16.8	19.6	11 E	—	3*
12 15	17 47.56	−32 58.6	1.616	0.674	15.8	19.6	11 E	—	3*
12 17	17 59.33	−32 22.7	1.641	0.696	14.8	19.7	10 E	—	3*
12 19	18 10.57	−31 43.3	1.665	0.717	13.9	19.8	10 E	—	3*
12 21	18 21.30	−31 0.9	1.689	0.738	13.1	19.8	10 E	—	3*
12 23	18 31.55	−30 16.2	1.712	0.759	12.2	19.9	9 E	—	3*
12 28	18 55.25	−28 16.5	1.768	0.809	10.3	20.0	8 E	—	2*
1 2	19 16.58	−26 9.6	1.821	0.856	8.6	20.2	7 E	—	1*
1 7	19 35.95	−23 58.9	1.871	0.901	7.0	20.3	6 E	—	—
1 12	19 53.69	−21 46.4	1.917	0.942	5.6	20.3	5 E	—	—
1 17	20 10.12	−19 33.4	1.959	0.981	4.4	20.4	4 E	—	—
1 22	20 25.46	−17 20.6	1.997	1.017	3.7	20.5	4 E	—	—
1 27	20 39.91	−15 8.3	2.030	1.050	3.6	20.6	4 E	—	—
2 1	20 53.63	−12 56.8	2.060	1.080	4.1	20.7	4 W	—	—
2 6	21 6.76	−10 45.9	2.085	1.108	5.0	20.8	6 W	—	—
2 11	21 19.40	− 8 35.7	2.106	1.133	6.0	21.0	7 W	1*	—
2 16	21 31.65	− 6 25.8	2.123	1.155	7.2	21.1	8 W	2*	—
2 21	21 43.61	− 4 16.2	2.136	1.175	8.5	21.2	10 W	4*	—
2 26	21 55.34	− 2 6.7	2.145	1.193	9.7	21.3	12 W	6*	—
3 2	22 6.90	+ 0 3.0	2.149	1.207	11.0	21.4	13 W	7*	1*
3 7	22 18.36	+ 2 13.1	2.150	1.220	12.2	21.4	15 W	9*	2*
3 12	22 29.78	+ 4 23.6	2.148	1.230	13.4	21.5	17 W	10*	4*
519824 2013 JY_{35}									
9 14	10 29.25	− 2 7.1	1.421	0.522	30.4	20.0	15 W	—	9*
9 19	10 57.45	− 5 12.4	1.502	0.575	24.0	20.1	13 W	—	7*
9 24	11 23.99	− 7 46.6	1.580	0.635	19.3	20.3	12 W	—	6*
9 29	11 48.83	− 9 55.1	1.656	0.699	15.7	20.5	11 W	—	4*
10 4	12 12.06	−11 42.5	1.730	0.764	13.0	20.7	10 W	—	3*
10 9	12 33.81	−13 12.6	1.802	0.830	10.9	20.9	9 W	—	2*
10 14	12 54.22	−14 28.5	1.871	0.895	9.2	21.0	8 W	—	1*
10 19	13 13.43	−15 32.4	1.937	0.958	7.8	21.2	8 W	—	1*
10 24	13 31.58	−16 26.3	2.000	1.020	6.8	21.4	7 W	—	1*
523648 2010 WP_8									
9 14	10 34.18	− 0 20.1	2.102	1.148	11.8	20.9	13 W	—	7*
9 19	10 51.14	− 2 31.1	2.112	1.161	11.9	21.0	14 W	—	8*
9 24	11 7.93	− 4 40.3	2.124	1.177	12.0	21.0	14 W	—	8*
9 29	11 24.55	− 6 46.8	2.138	1.194	12.1	21.1	14 W	—	8*
10 4	11 41.00	− 8 49.9	2.154	1.214	12.2	21.1	15 W	1*	9*
10 9	11 57.30	−10 48.9	2.170	1.235	12.3	21.2	15 W	1*	9*
10 14	12 13.46	−12 43.4	2.188	1.257	12.4	21.2	16 W	1*	10*
10 19	12 29.48	−14 32.7	2.207	1.281	12.5	21.3	16 W	1*	10*
10 24	12 45.38	−16 16.7	2.226	1.306	12.7	21.4	17 W	2*	11*
10 29	13 1.14	−17 54.9	2.246	1.331	12.9	21.4	17 W	2*	11*
523613 2006 SJ_{198}									
9 14	11 22.29	+ 2 35.3	2.291	1.285	1.1	20.2	1 W	—	—
9 24	11 53.11	− 0 46.1	2.337	1.335	1.6	20.4	2 W	—	—
10 4	12 22.70	− 3 59.0	2.386	1.389	2.7	20.6	4 W	—	—
10 14	12 51.19	− 7 0.4	2.435	1.446	4.0	20.8	6 W	—	—
10 24	13 18.73	− 9 48.3	2.482	1.504	5.5	21.0	8 W	1*	—
11 3	13 45.42	−12 21.3	2.526	1.564	7.1	21.2	11 W	3*	3*
11 13	14 11.34	−14 38.7	2.564	1.625	8.8	21.4	14 W	6*	5*
523808 2007 ML_{24}									
9 14	11 27.72	− 9 47.5	1.505	0.577	24.0	20.1	14 E	—	—
9 19	11 56.14	−13 26.5	1.519	0.613	26.1	20.3	16 E	—	4*
9 24	12 24.59	−16 34.9	1.535	0.651	27.4	20.5	17 E	—	6*
9 29	12 52.94	−19 12.5	1.554	0.688	28.2	20.7	19 E	—	9*
10 4	13 21.00	−21 20.4	1.576	0.726	28.5	20.8	20 E	—	11*
10 9	13 48.59	−23 0.1	1.601	0.762	28.4	21.0	21 E	—	13*
10 14	14 15.55	−24 13.8	1.628	0.796	28.0	21.1	22 E	—	14*
10 19	14 41.73	−25 4.1	1.657	0.829	27.4	21.2	22 E	—	15*
10 24	15 7.06	−25 33.4	1.686	0.859	26.6	21.3	23 E	—	16*
10 29	15 31.45	−25 44.5	1.716	0.887	25.6	21.4	23 E	—	16*
11 3	15 54.88	−25 39.6	1.745	0.912	24.7	21.5	23 E	—	17*
523605 2004 RX_{10}									
9 14	22 17.45	− 6 48.1	0.205	1.203	14.3	19.1	163 E	38	71
9 16	22 9.24	− 8 23.2	0.205	1.199	17.9	19.2	159 E	37	72
9 18	22 1.18	− 9 56.7	0.206	1.194	21.4	19.3	154 E	35	74
9 20	21 53.33	−11 27.6	0.207	1.188	25.0	19.4	150 E	34	75

2019	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
523605 2004 RX_{10} *(continuation)*									
9 22	21 45.78	−12 55.2	0.209	1.183	28.4	19.5	146 E	32	77
9 24	21 38.57	−14 18.8	0.212	1.177	31.8	19.6	142 E	31	78
9 29	21 22.31	−17 28.2	0.220	1.161	39.8	19.9	132 E	28	81
10 4	21 8.91	−20 8.0	0.231	1.144	46.9	20.2	123 E	25	84
10 9	20 58.36	−22 20.5	0.242	1.125	53.3	20.4	115 E	23	86
10 14	20 50.39	−24 10.0	0.254	1.104	59.1	20.7	108 E	21	88
10 19	20 44.58	−25 41.4	0.266	1.082	64.5	20.9	102 E	19	90
10 24	20 40.50	−26 59.1	0.277	1.058	69.5	21.1	95 E	18	89*
10 29	20 37.73	−28 6.9	0.286	1.032	74.3	21.2	90 E	17	84*
11 3	20 35.79	−29 8.1	0.294	1.005	79.1	21.4	84 E	16	78*
523625 2008 DG_{17}									
9 14	23 40.48	+49 21.2	1.845	2.577	18.2	23.9	127 W	86	15
9 19	23 29.74	+49 45.8	1.820	2.568	17.9	23.9	128 E	85	14
9 24	23 18.67	+49 56.9	1.801	2.558	17.7	23.8	129 E	85	14
9 29	23 7.61	+49 54.2	1.787	2.548	17.6	23.8	130 E	85	14
10 4	22 56.92	+49 38.1	1.779	2.537	17.7	23.8	130 E	85	14
523626 2008 PH_{9}									
9 24	0 53.11	+40 18.9	3.381	4.182	9.2	23.0	138 W	85	24
9 29	0 47.77	+40 20.6	3.366	4.194	8.6	22.9	141 W	85	24
10 4	0 42.33	+40 16.8	3.358	4.206	8.1	22.9	144 W	85	24
10 9	0 36.87	+40 7.7	3.356	4.218	7.7	22.9	146 E	85	24
10 14	0 31.50	+39 53.4	3.361	4.230	7.5	22.9	147 E	85	24
10 19	0 26.32	+39 34.5	3.374	4.241	7.4	22.9	147 E	85	24
10 24	0 21.42	+39 11.4	3.393	4.252	7.6	22.9	146 E	84	25
516641 2008 GB_{110}									
9 24	0 53.87	+21 29.5	1.334	2.283	10.7	22.8	155 W	66	43
9 29	0 48.31	+19 52.4	1.301	2.272	8.3	22.6	161 W	65	44
10 4	0 42.46	+18 4.7	1.277	2.260	6.2	22.5	166 W	63	46
10 9	0 36.52	+16 8.3	1.260	2.248	5.0	22.4	169 E	61	48
10 14	0 30.69	+14 5.7	1.251	2.236	5.5	22.4	168 E	59	50
10 19	0 25.15	+11 59.8	1.250	2.223	7.4	22.5	163 E	57	52
10 24	0 20.09	+ 9 53.5	1.257	2.209	9.9	22.6	157 E	55	54
523607 2005 CS_{6}									
9 24	1 22.75	+39 48.2	3.090	3.878	10.3	24.0	136 W	85	24
9 29	1 17.87	+39 48.5	3.065	3.887	9.5	23.9	140 W	85	24
10 4	1 12.75	+39 43.2	3.046	3.896	8.8	23.9	143 W	85	24
10 9	1 7.49	+39 32.1	3.034	3.905	8.2	23.8	146 W	85	24
10 14	1 2.19	+39 15.6	3.028	3.913	7.7	23.8	148 E	84	25
10 19	0 56.98	+38 53.9	3.029	3.921	7.4	23.8	150 E	84	25
10 24	0 51.94	+38 27.4	3.037	3.929	7.3	23.8	150 E	83	26
10 29	0 47.18	+37 56.7	3.052	3.937	7.5	23.8	149 E	83	26
518440 2004 CL_{1}									
9 24	1 34.82	+16 26.3	2.073	2.995	9.1	24.0	152 W	61	48
10 4	1 23.68	+16 4.8	2.010	2.982	5.5	23.7	163 W	61	48
10 14	1 11.37	+15 29.8	1.976	2.968	2.6	23.5	172 E	60	49
10 24	0 58.97	+14 45.0	1.974	2.952	4.4	23.6	167 E	60	49
11 3	0 47.57	+13 56.0	2.004	2.934	8.2	23.8	155 E	59	50
516795 2010 GZ_{62}									
9 24	2 45.19	+21 2.1	1.801	2.608	15.8	21.4	135 W	66	43
10 4	2 38.91	+19 55.3	1.758	2.650	12.0	21.3	146 W	65	44
10 14	2 30.57	+18 32.6	1.739	2.692	7.8	21.1	159 W	64	45
10 24	2 21.06	+16 58.4	1.746	2.733	3.3	20.9	171 W	62	47
11 3	2 11.46	+15 19.7	1.783	2.774	1.6	20.9	175 E	60	49
11 13	2 2.85	+13 44.9	1.851	2.813	5.8	21.2	163 E	59	50
11 23	1 56.01	+12 21.1	1.946	2.852	9.6	21.6	151 E	57	52
523638 2010 MQ_{1}									
10 4	1 45.06	+62 54.6	2.291	2.920	17.3	25.4	120 W	72	1
10 9	1 35.50	+62 58.6	2.257	2.919	16.8	25.4	123 W	72	1
10 14	1 25.41	+62 51.2	2.228	2.917	16.3	25.3	125 W	72	1
10 19	1 15.16	+62 31.6	2.203	2.914	15.8	25.3	127 E	72	1
10 24	1 5.10	+62 0.0	2.183	2.911	15.5	25.3	129 E	73	2
10 29	0 55.60	+61 16.6	2.168	2.908	15.2	25.2	130 E	74	3
11 3	0 46.96	+60 22.3	2.158	2.904	15.0	25.2	131 E	75	4
516420 2003 FS_{2}									
10 4	1 58.02	+ 7 43.0	2.552	3.508	5.7	24.0	160 W	53	56
10 14	1 49.64	+ 6 31.9	2.535	3.524	2.5	23.8	171 W	52	57
10 24	1 40.89	+ 5 21.0	2.549	3.539	1.9	23.8	173 E	50	59
11 3	1 32.49	+ 4 15.5	2.594	3.552	4.9	24.0	162 E	49	60
11 13	1 25.11	+ 3 19.6	2.670	3.565	7.9	24.3	150 E	48	61

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
523679 2013 YB_{38}									
10 4	2 6.06	+33 47.2	2.379	3.241	10.5	22.9	144 W	79	30
10 9	2 1.27	+33 26.3	2.338	3.233	9.3	22.8	149 W	78	31
10 14	1 56.12	+32 59.3	2.303	3.224	8.1	22.7	153 W	78	31
10 19	1 50.74	+32 26.3	2.275	3.215	7.0	22.6	157 W	77	32
10 24	1 45.24	+31 47.3	2.254	3.206	6.2	22.6	160 E	77	32
10 29	1 39.76	+31 3.0	2.241	3.196	5.9	22.5	161 E	76	33
11 3	1 34.45	+30 14.1	2.236	3.186	6.1	22.5	160 E	75	34
11 8	1 29.42	+29 21.6	2.238	3.176	6.9	22.6	157 E	74	35
516541 2006 SX_{294}									
10 4	4 28.39	+17 48.6	1.260	1.980	25.4	21.3	122 W	63	46
10 14	4 27.94	+17 4.0	1.200	2.009	21.7	21.2	132 W	62	47
10 24	4 23.49	+16 10.4	1.155	2.038	17.1	21.0	143 W	61	48
11 3	4 15.42	+15 10.5	1.127	2.068	11.9	20.8	155 W	60	49
11 13	4 4.81	+14 9.1	1.122	2.097	6.4	20.5	166 W	59	50
11 23	3 53.18	+13 12.2	1.142	2.126	3.2	20.4	173 W	58	51
11 28	3 47.52	+12 47.4	1.162	2.140	4.7	20.6	170 E	58	51
12 3	3 42.24	+12 26.2	1.189	2.155	7.1	20.8	164 E	57	52
12 8	3 37.52	+12 9.0	1.222	2.169	9.6	20.9	159 E	57	52
12 13	3 33.48	+11 56.1	1.261	2.183	11.9	21.1	153 E	57	52
12 18	3 30.19	+11 47.8	1.305	2.197	14.1	21.3	147 E	57	52
12 23	3 27.73	+11 44.0	1.355	2.211	16.1	21.5	141 E	57	52
523608 2005 EZ_{29}									
10 14	2 9.83	+ 4 2.9	1.503	2.482	5.7	23.6	166 W	49	60
10 19	2 4.07	+ 3 18.2	1.482	2.469	4.0	23.5	170 W	48	61
10 24	1 58.04	+ 2 34.1	1.467	2.455	3.7	23.4	171 W	48	61
10 29	1 51.89	+ 1 51.7	1.461	2.441	5.0	23.5	168 E	47	62
11 3	1 45.81	+ 1 12.3	1.461	2.426	7.1	23.6	163 E	46	63
11 8	1 39.97	+ 0 37.0	1.469	2.411	9.4	23.7	157 E	46	63
11 13	1 34.54	+ 0 6.6	1.483	2.395	11.7	23.8	151 E	45	64
519307 2011 EF_{15}									
10 14	2 20.75	+14 14.8	2.216	3.181	5.4	24.8	162 W	59	50
10 24	2 10.92	+13 25.4	2.207	3.200	1.6	24.6	175 W	58	51
11 3	2 0.96	+12 33.3	2.230	3.217	2.3	24.6	173 E	58	51
11 13	1 51.78	+11 43.5	2.284	3.232	6.0	24.9	160 E	57	52
11 23	1 44.10	+11 0.7	2.367	3.247	9.3	25.1	148 E	56	53
517035 2012 XS_{119}									
10 14	5 3.77	+ 7 16.7	1.114	1.858	26.7	21.5	123 W	52	57
10 19	5 4.46	+ 7 20.3	1.066	1.851	25.2	21.3	128 W	52	57
10 24	5 4.10	+ 7 26.0	1.021	1.844	23.5	21.2	132 W	52	57
10 29	5 2.61	+ 7 34.8	0.978	1.838	21.4	21.0	137 W	53	56
11 3	4 59.96	+ 7 47.3	0.940	1.831	19.2	20.9	143 W	53	56
11 8	4 56.14	+ 8 4.3	0.905	1.824	16.7	20.7	148 W	53	56
11 13	4 51.21	+ 8 26.5	0.875	1.817	13.9	20.5	154 W	53	56
11 18	4 45.25	+ 8 54.2	0.850	1.809	11.1	20.3	159 W	54	55
11 23	4 38.42	+ 9 27.8	0.831	1.802	8.4	20.2	164 W	54	55
12 3	4 23.10	+10 52.1	0.811	1.788	6.3	20.0	169 E	56	53
12 13	4 7.67	+12 35.8	0.815	1.773	10.8	20.2	160 E	58	51
12 23	3 54.57	+14 32.5	0.843	1.758	17.0	20.5	149 E	60	49
12 28	3 49.50	+15 33.6	0.864	1.751	19.9	20.6	143 E	61	48
1 2	3 45.64	+16 35.8	0.890	1.744	22.6	20.7	137 E	62	47
1 7	3 43.05	+17 38.5	0.920	1.737	25.0	20.9	132 E	63	46
1 12	3 41.75	+18 41.3	0.953	1.729	27.2	21.0	127 E	64	45
1 17	3 41.71	+19 43.8	0.988	1.722	29.1	21.1	122 E	65	44
1 22	3 42.90	+20 45.8	1.026	1.715	30.7	21.2	117 E	66	43
1 27	3 45.27	+21 47.0	1.066	1.708	32.1	21.4	113 E	67	42
2 1	3 48.76	+22 47.3	1.107	1.701	33.3	21.5	109 E	68	41*
517046 2013 AA_{53}									
10 14	13 11.96	+ 6 41.8	1.823	0.894	16.3	21.3	15 W	5*	—
10 19	13 32.07	+ 4 0.5	1.762	0.828	16.6	21.1	14 W	4*	—
10 24	13 53.49	+ 1 2.8	1.701	0.761	16.5	20.8	13 E	3*	—
10 29	14 16.42	− 2 12.7	1.641	0.693	16.0	20.5	11 E	3*	—
11 3	14 41.13	− 5 47.2	1.583	0.625	15.0	20.2	9 E	2*	—
11 13	15 37.08	−13 54.0	1.467	0.502	14.9	19.6	7 E	1*	—
11 23	16 43.73	−22 53.6	1.339	0.430	29.5	19.5	12 E	—	6*
12 3	18 1.66	−31 3.8	1.195	0.455	52.5	20.0	21 E	—	15*
12 5	18 18.54	−32 22.5	1.166	0.471	56.2	20.1	23 E	—	17*
12 7	18 35.82	−33 32.3	1.139	0.490	59.5	20.3	25 E	—	19*
12 9	18 53.52	−34 32.2	1.113	0.511	62.3	20.4	27 E	—	21*
12 11	19 11.58	−35 21.4	1.089	0.534	64.5	20.5	29 E	—	23*
12 13	19 29.97	−35 59.4	1.067	0.558	66.2	20.6	31 E	1*	25*
12 15	19 48.63	−36 25.6	1.046	0.583	67.6	20.7	33 E	1*	27*
12 17	20 7.45	−36 39.6	1.028	0.609	68.5	20.8	35 E	2*	29*
12 19	20 26.34	−36 41.1	1.013	0.636	69.0	20.9	37 E	3*	31*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
517046 2013 AA_{53} *(continuation)*									
12 21	20 45.17	−36 30.3	0.999	0.663	69.2	20.9	39 E	4*	33*
12 23	21 3.83	−36 7.3	0.989	0.690	69.1	21.0	41 E	5*	35*
12 25	21 22.19	−35 32.5	0.980	0.717	68.8	21.1	43 E	6*	37*
12 27	21 40.12	−34 46.7	0.974	0.744	68.3	21.1	45 E	7*	38*
12 29	21 57.55	−33 50.8	0.971	0.771	67.6	21.2	46 E	9*	40*
12 31	22 14.37	−32 45.8	0.970	0.798	66.8	21.2	48 E	10*	42*
1 2	22 30.54	−31 32.9	0.971	0.825	65.8	21.2	50 E	12*	43*
1 4	22 46.01	−30 13.2	0.975	0.851	64.7	21.3	52 E	13*	45*
1 6	23 0.77	−28 48.2	0.981	0.878	63.6	21.3	53 E	15*	46*
1 8	23 14.81	−27 18.8	0.990	0.904	62.4	21.4	55 E	16*	47*
1 10	23 28.14	−25 46.3	1.000	0.929	61.2	21.4	56 E	18*	48*
1 12	23 40.79	−24 11.8	1.012	0.955	59.9	21.5	57 E	20*	48*
518509 2006 FZ_{51}									
10 24	2 41.52	+22 47.6	2.801	3.766	4.3	22.4	164 W	68	41
11 3	2 32.97	+22 9.7	2.820	3.806	1.9	22.3	173 W	67	42
11 13	2 24.69	+21 26.6	2.870	3.845	2.9	22.4	169 E	66	43
11 23	2 17.31	+20 42.1	2.950	3.883	5.5	22.6	158 E	66	43
12 3	2 11.35	+20 0.0	3.060	3.921	8.0	22.9	147 E	65	44
523581 2018 FL_5									
10 24	4 5.16	−14 23.3	2.430	3.239	11.9	22.3	138 W	31	78
10 29	4 1.49	−15 6.9	2.423	3.252	11.2	22.3	141 W	30	79
11 3	3 57.45	−15 45.9	2.421	3.266	10.6	22.3	143 W	29	80
11 8	3 53.14	−16 19.4	2.427	3.279	10.3	22.3	144 W	29	80
11 13	3 48.66	−16 46.8	2.438	3.292	10.1	22.3	144 W	28	81
11 18	3 44.10	−17 7.8	2.456	3.305	10.2	22.3	144 W	28	81
11 23	3 39.56	−17 22.1	2.480	3.317	10.5	22.3	142 E	28	81
11 28	3 35.14	−17 29.5	2.511	3.330	10.9	22.4	140 E	28	81
12 3	3 30.94	−17 30.2	2.547	3.342	11.5	22.5	138 E	27	82
12 8	3 27.05	−17 24.4	2.590	3.354	12.1	22.5	134 E	28	81
516476 2005 TS_{86}									
10 24	6 38.48	+12 1.8	0.748	1.435	40.6	21.5	110 W	57	52
11 3	6 56.09	+ 9 21.5	0.685	1.424	39.2	21.2	115 W	54	55
11 13	7 10.30	+ 6 28.0	0.627	1.415	37.0	20.9	121 W	51	58
11 23	7 20.48	+ 3 30.4	0.577	1.410	34.2	20.7	127 W	49	60
12 3	7 25.99	+ 0 41.2	0.535	1.407	30.7	20.4	133 W	46	63
12 8	7 26.90	− 0 35.2	0.517	1.407	28.8	20.3	137 W	44	65
12 13	7 26.60	− 1 43.2	0.502	1.407	26.7	20.1	140 W	43	66
12 18	7 25.14	− 2 40.5	0.490	1.408	24.5	20.0	144 W	42	67
12 23	7 22.62	− 3 24.9	0.480	1.410	22.5	19.9	147 W	42	67
12 28	7 19.23	− 3 54.2	0.473	1.413	20.6	19.8	150 W	41	68
1 2	7 15.23	− 4 7.1	0.470	1.416	19.0	19.8	152 W	41	68
1 12	7 6.66	− 3 42.5	0.474	1.424	17.7	19.8	154 E	41	68
1 22	6 59.40	− 2 17.5	0.492	1.435	19.2	19.9	151 E	43	66
2 1	6 55.53	− 0 9.5	0.524	1.449	22.5	20.2	146 E	45	64
2 6	6 55.28	+ 1 3.6	0.545	1.457	24.4	20.3	142 E	46	63
2 11	6 56.21	+ 2 19.0	0.569	1.465	26.3	20.5	139 E	47	62
2 16	6 58.31	+ 3 34.5	0.596	1.473	28.1	20.7	135 E	49	60
2 21	7 1.53	+ 4 48.3	0.626	1.483	29.7	20.8	132 E	50	59
2 26	7 5.83	+ 5 58.8	0.659	1.492	31.3	21.0	129 E	51	58
3 2	7 11.12	+ 7 4.8	0.694	1.502	32.6	21.2	125 E	52	57
3 7	7 17.30	+ 8 5.4	0.731	1.512	33.8	21.3	122 E	53	56
3 12	7 24.26	+ 9 0.0	0.770	1.523	34.8	21.5	119 E	54	55
520399 2014 JQ_{54}									
11 3	3 27.51	+ 9 23.9	2.440	3.408	4.3	23.2	165 W	54	55
11 13	3 18.42	+ 8 39.7	2.449	3.430	2.7	23.1	171 W	54	55
11 23	3 9.46	+ 8 2.0	2.489	3.450	4.5	23.3	164 E	53	56
12 3	3 1.35	+ 7 33.7	2.559	3.469	7.3	23.5	153 E	53	56
12 13	2 54.73	+ 7 16.8	2.657	3.487	10.0	23.7	142 E	52	57
523822 2012 DG_{61}									
11 3	3 42.93	+13 47.2	3.614	4.570	3.8	24.6	162 W	59	50
11 13	3 34.64	+13 28.0	3.628	4.611	1.6	24.5	173 W	58	51
11 23	3 26.33	+13 10.2	3.674	4.652	2.0	24.6	171 E	58	51
12 3	3 18.49	+12 55.4	3.754	4.691	4.2	24.8	160 E	58	51
12 13	3 11.62	+12 45.1	3.864	4.730	6.3	25.0	148 E	58	51
517362 2014 KC_4									
11 3	4 27.02	− 3 55.9	1.896	2.771	11.7	21.8	146 W	41	68
11 8	4 22.71	− 4 53.5	1.894	2.790	10.6	21.8	149 W	40	69
11 13	4 18.07	− 5 46.3	1.900	2.808	9.8	21.8	151 W	39	70
11 18	4 13.22	− 6 33.4	1.912	2.825	9.3	21.8	152 W	38	71
11 23	4 8.28	− 7 14.0	1.931	2.843	9.3	21.8	152 W	38	71
11 28	4 3.38	− 7 47.5	1.957	2.860	9.6	21.9	151 E	37	72
12 3	3 58.65	− 8 13.8	1.990	2.878	10.3	21.9	149 E	37	72
12 8	3 54.20	− 8 32.7	2.030	2.895	11.2	22.0	145 E	36	73

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
517362 2014 KC_4 *(continuation)*									
12 13	3 50.14	− 8 44.5	2.075	2.912	12.1	22.1	142 E	36	73
12 18	3 46.53	− 8 49.5	2.127	2.928	13.1	22.2	137 E	36	73
12 23	3 43.43	− 8 48.2	2.183	2.945	14.1	22.3	133 E	36	73
519783 2013 FP_{21}									
11 3	4 32.07	+ 4 26.0	2.472	3.357	8.9	22.1	148 W	49	60
11 13	4 24.10	+ 3 27.7	2.461	3.394	6.6	22.0	157 W	48	61
11 23	4 15.35	+ 2 39.5	2.478	3.429	5.2	22.0	162 W	48	61
12 3	4 6.56	+ 2 4.3	2.525	3.464	5.9	22.1	159 E	47	62
12 13	3 58.51	+ 1 44.1	2.602	3.498	7.8	22.2	151 E	47	62
12 23	3 51.78	+ 1 38.9	2.706	3.530	10.0	22.4	142 E	47	62
517735 2015 MN_{54}									
11 3	4 32.53	+17 17.1	1.488	2.402	11.7	21.8	151 W	62	47
11 13	4 22.22	+17 2.4	1.468	2.431	6.9	21.6	163 W	62	47
11 23	4 10.51	+16 47.1	1.474	2.459	2.2	21.4	174 W	62	47
12 3	3 58.80	+16 33.5	1.510	2.486	3.9	21.5	170 E	62	47
12 13	3 48.49	+16 24.9	1.573	2.513	8.5	21.9	158 E	61	48
12 23	3 40.57	+16 23.6	1.663	2.539	12.5	22.2	146 E	61	48
523775 2014 YB_{35}									
11 3	5 1.77	+40 56.9	1.254	2.100	18.4	22.1	138 W	86	23
11 8	4 57.12	+41 48.3	1.196	2.074	16.8	21.9	143 W	87	22
11 13	4 50.98	+42 37.0	1.143	2.046	15.2	21.7	147 W	88	21
11 18	4 43.31	+43 21.1	1.095	2.019	13.6	21.5	151 W	88	21
11 23	4 34.21	+43 58.4	1.053	1.991	12.3	21.3	155 W	89	20
11 28	4 23.85	+44 26.3	1.017	1.962	11.5	21.2	157 W	89	20
12 3	4 12.57	+44 43.0	0.987	1.933	11.6	21.1	157 E	90	19
12 8	4 0.80	+44 47.2	0.964	1.903	12.6	21.1	155 E	90	19
12 13	3 49.04	+44 38.4	0.947	1.873	14.4	21.1	152 E	90	19
12 18	3 37.81	+44 17.4	0.936	1.843	16.7	21.1	147 E	89	20
12 23	3 27.56	+43 45.7	0.930	1.811	19.4	21.1	142 E	89	20
12 28	3 18.68	+43 5.8	0.929	1.780	22.1	21.2	137 E	88	21
1 2	3 11.45	+42 20.4	0.932	1.748	24.9	21.2	132 E	87	22
1 7	3 6.00	+41 32.6	0.939	1.715	27.5	21.3	126 E	87	22
1 12	3 2.37	+40 44.6	0.949	1.683	30.0	21.3	121 E	86	23
1 17	3 0.52	+39 58.3	0.960	1.649	32.4	21.4	116 E	85	24*
1 22	3 0.38	+39 15.2	0.973	1.616	34.6	21.4	111 E	84	25*
1 27	3 1.87	+38 36.0	0.986	1.582	36.6	21.5	107 E	84	25*
2 1	3 4.90	+38 1.4	0.999	1.548	38.4	21.5	102 E	83	25*
517739 2015 MS_{101}									
11 3	5 4.88	+24 29.6	1.467	2.333	15.0	21.4	142 W	69	40
11 13	4 55.72	+24 30.2	1.435	2.367	10.3	21.2	155 W	70	39
11 23	4 44.23	+24 22.9	1.428	2.401	5.2	21.0	167 W	69	40
12 3	4 31.83	+24 8.0	1.448	2.433	0.9	20.8	178 E	69	40
12 13	4 20.12	+23 47.8	1.497	2.466	5.3	21.2	167 E	69	40
12 23	4 10.45	+23 26.6	1.574	2.497	9.8	21.5	154 E	68	41
517829 2015 RL_{82}									
11 13	4 39.31	+18 50.9	2.493	3.435	6.0	23.4	159 W	64	45
11 23	4 28.39	+18 36.7	2.461	3.440	2.5	23.2	171 W	64	45
12 3	4 16.91	+18 21.1	2.461	3.444	1.6	23.1	175 E	63	46
12 13	4 5.84	+18 5.8	2.495	3.446	5.0	23.4	162 E	63	46
12 23	3 56.02	+17 53.2	2.559	3.446	8.2	23.6	150 E	63	46
518469 2005 LH_8									
11 13	4 41.77	+14 25.7	2.840	3.775	5.7	24.3	158 W	59	50
11 23	4 32.49	+14 20.5	2.828	3.801	2.9	24.2	169 W	59	50
12 3	4 22.82	+14 17.6	2.848	3.826	2.1	24.1	172 E	59	50
12 13	4 13.52	+14 18.2	2.900	3.850	4.4	24.3	162 E	59	50
12 23	4 5.23	+14 23.1	2.983	3.872	7.1	24.5	151 E	59	50
517681 2015 DE_{198}									
11 13	4 52.75	+32 25.4	2.349	3.260	8.0	23.7	153 W	77	32
11 18	4 46.75	+32 31.3	2.323	3.262	6.4	23.6	158 W	78	31
11 23	4 40.36	+32 33.8	2.304	3.263	4.9	23.5	164 W	78	31
11 28	4 33.70	+32 32.8	2.294	3.264	3.7	23.4	168 W	78	31
12 3	4 26.94	+32 28.3	2.291	3.265	3.2	23.4	169 E	77	32
12 8	4 20.23	+32 20.4	2.297	3.265	3.8	23.4	167 E	77	32
12 13	4 13.73	+32 9.5	2.311	3.265	5.0	23.5	163 E	77	32
12 18	4 7.58	+31 56.2	2.332	3.265	6.5	23.6	158 E	77	32
523636 2010 EX_{119}									
11 13	4 54.74	+ 9 37.1	2.015	2.933	8.7	23.8	153 W	55	54
11 23	4 43.36	+ 8 31.2	1.954	2.912	5.7	23.5	163 W	54	55
12 3	4 30.77	+ 7 31.4	1.924	2.889	4.9	23.4	166 E	53	56
12 13	4 18.13	+ 6 42.5	1.927	2.864	7.3	23.5	158 E	52	57
12 23	4 6.56	+ 6 7.9	1.960	2.837	10.8	23.7	147 E	51	58

517714 2015 JF_3

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 13	4 56.63	− 3 55.7	1.821	2.699	11.8	21.7	146 W	41	68
11 18	4 51.96	− 4 35.9	1.815	2.711	10.8	21.6	149 W	40	69
11 23	4 46.97	− 5 10.8	1.815	2.723	10.0	21.6	151 W	40	69
11 28	4 41.78	− 5 39.5	1.822	2.734	9.7	21.6	152 W	39	70
12 3	4 36.54	− 6 1.6	1.836	2.746	9.7	21.6	152 W	39	70
12 8	4 31.38	− 6 16.8	1.857	2.757	10.1	21.7	150 E	39	70
12 13	4 26.45	− 6 25.0	1.884	2.768	10.9	21.8	148 E	39	70
12 18	4 21.84	− 6 26.4	1.918	2.779	11.8	21.9	145 E	39	70
12 23	4 17.67	− 6 21.4	1.957	2.789	12.9	21.9	141 E	39	70
12 28	4 14.02	− 6 10.3	2.002	2.799	14.0	22.0	137 E	39	70
1 2	4 10.95	− 5 53.9	2.052	2.809	15.0	22.1	132 E	39	70

517726 2015 LZ_{22}

11 13	5 41.65	+21 27.6	1.722	2.590	12.9	22.3	144 W	66	43
11 23	5 32.27	+21 29.2	1.676	2.612	8.7	22.1	156 W	66	43
12 3	5 20.81	+21 29.0	1.657	2.632	4.0	21.9	169 W	66	43
12 13	5 8.51	+21 26.5	1.667	2.651	1.0	21.7	177 E	66	43
12 23	4 56.75	+21 22.7	1.708	2.669	5.6	22.0	165 E	66	43
1 2	4 46.76	+21 19.2	1.777	2.686	9.8	22.3	152 E	66	43

523602 2004 LH

11 13	5 59.14	+17 14.2	1.394	2.243	16.5	22.2	140 W	62	47
11 23	5 47.30	+14 7.9	1.304	2.224	12.1	21.8	152 W	59	50
12 3	5 32.02	+10 46.1	1.243	2.202	7.9	21.5	162 W	56	53
12 13	5 14.79	+ 7 22.0	1.215	2.179	7.0	21.4	164 E	52	57
12 23	4 57.59	+ 4 12.9	1.222	2.155	11.0	21.6	155 E	49	60
1 2	4 42.41	+ 1 34.3	1.259	2.128	16.1	21.8	143 E	47	62

516647 2008 HP_{46}

11 23	6 0.41	+27 37.2	1.827	2.726	10.5	22.5	150 W	73	36
11 28	5 55.34	+27 55.1	1.804	2.734	8.5	22.4	156 W	73	36
12 3	5 49.71	+28 11.5	1.788	2.742	6.4	22.2	162 W	73	36
12 8	5 43.66	+28 26.0	1.779	2.750	4.3	22.1	168 W	73	36
12 13	5 37.36	+28 38.3	1.778	2.758	2.5	22.0	173 W	74	35
12 18	5 30.96	+28 48.0	1.784	2.765	2.1	22.0	174 E	74	35
12 23	5 24.65	+28 55.3	1.798	2.772	3.6	22.1	170 E	74	35
12 28	5 18.61	+29 0.1	1.820	2.779	5.5	22.3	164 E	74	35
1 2	5 13.01	+29 2.8	1.849	2.785	7.6	22.4	158 E	74	35

516462 2005 LF_{38}

11 23	6 21.49	+17 27.3	1.525	2.399	13.8	21.8	145 W	62	47
12 3	6 12.06	+17 50.1	1.488	2.425	9.2	21.6	157 W	63	46
12 13	6 0.52	+18 18.0	1.478	2.451	4.4	21.4	169 W	63	46
12 23	5 48.20	+18 48.7	1.496	2.477	2.3	21.3	174 E	64	45
1 2	5 36.57	+19 20.4	1.544	2.501	6.5	21.6	163 E	64	45
1 12	5 26.97	+19 52.4	1.619	2.525	10.8	21.9	151 E	65	44

519198 2010 PZ_{77}

11 23	6 35.22	+ 0 46.9	1.929	2.724	14.7	21.4	136 W	46	63
11 28	6 31.38	− 0 3.5	1.912	2.743	13.3	21.4	140 W	45	64
12 3	6 27.03	− 0 50.0	1.900	2.761	12.0	21.3	144 W	44	65
12 8	6 22.26	− 1 31.8	1.895	2.780	10.8	21.3	148 W	43	66
12 13	6 17.18	− 2 8.2	1.897	2.798	9.8	21.3	151 W	43	66
12 18	6 11.91	− 2 38.8	1.905	2.817	9.2	21.3	153 W	42	67
12 23	6 6.60	− 3 3.2	1.920	2.835	8.9	21.3	153 W	42	67
12 28	6 1.36	− 3 21.2	1.943	2.853	9.1	21.3	153 E	42	67
1 2	5 56.34	− 3 32.9	1.972	2.870	9.6	21.4	151 E	41	68
1 7	5 51.66	− 3 38.6	2.008	2.888	10.5	21.5	148 E	41	68
1 12	5 47.41	− 3 38.5	2.051	2.905	11.4	21.6	144 E	41	68
1 17	5 43.67	− 3 33.4	2.099	2.923	12.5	21.7	140 E	41	68
1 22	5 40.48	− 3 23.6	2.153	2.940	13.5	21.8	136 E	42	67

516457 2005 HM_3

12 3	6 0.29	−18 45.8	1.079	1.902	21.8	22.4	134 W	26	83
12 8	5 54.01	−20 28.7	1.058	1.886	21.8	22.4	135 W	25	84
12 13	5 47.02	−21 59.8	1.043	1.869	22.1	22.3	134 W	23	86
12 18	5 39.53	−23 16.8	1.032	1.851	22.7	22.3	133 E	22	87
12 23	5 31.78	−24 17.9	1.026	1.834	23.6	22.3	132 E	21	88
12 28	5 24.05	−25 1.9	1.024	1.815	24.7	22.3	129 E	20	89
1 2	5 16.63	−25 28.6	1.026	1.797	26.0	22.3	127 E	20	89
1 7	5 9.79	−25 38.5	1.031	1.778	27.3	22.3	124 E	19	90
1 12	5 3.75	−25 32.8	1.040	1.759	28.7	22.4	121 E	19	90

523651 2011 GA_{62}

12 3	6 4.29	+23 15.5	2.418	3.358	6.0	23.9	159 W	68	41
12 13	5 53.49	+22 58.4	2.393	3.370	2.4	23.7	172 W	68	41
12 23	5 42.23	+22 38.5	2.401	3.382	1.4	23.6	175 E	68	41
1 2	5 31.49	+22 16.8	2.441	3.392	5.0	23.9	163 E	67	42
1 12	5 22.15	+21 55.2	2.512	3.401	8.2	24.1	150 E	67	42

523786 2015 DP

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 3	6 4.33	−54 23.4	2.328	2.699	21.0	23.4	101 W	—	62
12 8	5 56.36	−54 31.1	2.315	2.695	21.0	23.4	102 W	—	61
12 13	5 48.02	−54 26.5	2.305	2.691	21.0	23.4	102 W	—	62
12 18	5 39.53	−54 9.3	2.296	2.686	21.0	23.4	102 E	—	62
12 23	5 31.13	−53 39.0	2.289	2.681	21.0	23.4	103 E	—	62
12 28	5 23.09	−52 55.9	2.284	2.676	21.0	23.4	103 E	—	63
1 2	5 15.60	−52 0.3	2.281	2.671	21.1	23.4	102 E	—	64

519504 2012 EU_{14}

12 3	6 8.55	− 8 7.4	2.217	3.056	11.4	25.2	142 W	37	72
12 13	5 58.24	− 8 43.3	2.193	3.064	10.2	25.1	147 W	36	73
12 23	5 47.30	− 8 54.3	2.196	3.071	9.9	25.1	147 E	36	73
1 2	5 36.71	− 8 39.6	2.226	3.076	10.8	25.2	144 E	36	73
1 12	5 27.38	− 8 1.4	2.282	3.080	12.4	25.3	138 E	37	72

516868 2011 GC_{60}

12 3	9 22.20	+83 23.2	1.876	2.447	21.6	23.4	114 W	52	—
12 4	9 22.50	+83 42.1	1.873	2.446	21.6	23.4	114 W	51	—
12 5	9 22.54	+84 1.1	1.869	2.445	21.6	23.3	114 W	51	—
12 6	9 22.28	+84 19.9	1.866	2.443	21.6	23.3	114 W	51	—
12 7	9 21.66	+84 38.6	1.863	2.442	21.5	23.3	114 W	50	—
12 8	9 20.63	+84 57.2	1.860	2.441	21.5	23.3	115 W	50	—
12 9	9 19.11	+85 15.7	1.858	2.439	21.5	23.3	115 W	50	—
12 10	9 16.99	+85 34.0	1.855	2.438	21.5	23.3	115 W	49	—
12 11	9 14.15	+85 52.2	1.853	2.437	21.5	23.3	115 W	49	—
12 12	9 10.44	+86 10.1	1.851	2.435	21.5	23.3	115 W	49	—
12 13	9 5.65	+86 27.7	1.848	2.434	21.5	23.3	115 W	49	—
12 14	8 59.51	+86 45.1	1.846	2.432	21.5	23.3	115 W	48	—
12 15	8 51.66	+87 2.0	1.844	2.431	21.5	23.3	115 W	48	—
12 16	8 41.64	+87 18.3	1.843	2.429	21.5	23.3	115 W	48	—
12 17	8 28.83	+87 34.0	1.841	2.428	21.5	23.3	115 W	47	—
12 18	8 12.43	+87 48.8	1.840	2.426	21.6	23.3	115 W	47	—
12 19	7 51.45	+88 2.4	1.838	2.425	21.6	23.3	115 W	47	—
12 20	7 24.78	+88 14.3	1.837	2.423	21.6	23.3	115 W	47	—
12 21	6 51.56	+88 23.9	1.836	2.422	21.6	23.3	115 W	47	—
12 22	6 11.79	+88 30.7	1.835	2.420	21.6	23.3	115 W	46	—
12 23	5 27.21	+88 34.0	1.834	2.418	21.7	23.3	115 E	46	—
12 24	4 41.45	+88 33.3	1.833	2.417	21.7	23.3	115 E	46	—
12 25	3 58.68	+88 28.9	1.833	2.415	21.7	23.3	115 E	47	—
12 26	3 21.78	+88 21.3	1.832	2.413	21.8	23.3	115 E	47	—
12 27	2 51.62	+88 11.2	1.832	2.412	21.8	23.3	114 E	47	—
12 28	2 27.70	+87 59.4	1.832	2.410	21.8	23.3	114 E	47	—
12 29	2 9.00	+87 46.2	1.832	2.408	21.9	23.3	114 E	47	—
12 30	1 54.44	+87 32.1	1.832	2.406	21.9	23.3	114 E	47	—
12 31	1 43.11	+87 17.5	1.832	2.405	22.0	23.3	114 E	48	—
1 1	1 34.30	+87 2.3	1.832	2.403	22.0	23.3	114 E	48	—
1 2	1 27.45	+86 46.9	1.833	2.401	22.1	23.3	114 E	48	—
1 3	1 22.16	+86 31.3	1.833	2.399	22.1	23.3	113 E	48	—
1 4	1 18.11	+86 15.6	1.834	2.397	22.2	23.3	113 E	49	—
1 5	1 15.06	+85 59.8	1.835	2.395	22.2	23.3	113 E	49	—
1 6	1 12.83	+85 43.9	1.835	2.393	22.3	23.3	113 E	49	—
1 7	1 11.27	+85 28.1	1.836	2.392	22.3	23.3	112 E	50	—
1 8	1 10.28	+85 12.2	1.837	2.390	22.4	23.3	112 E	50	—
1 9	1 9.76	+84 56.4	1.839	2.388	22.5	23.3	112 E	50	—
1 10	1 9.64	+84 40.7	1.840	2.386	22.5	23.3	112 E	50	—
1 11	1 9.87	+84 25.0	1.841	2.384	22.6	23.3	111 E	51	—

518568 2007 HO_{67}

12 13	6 16.59	+ 4 40.0	2.032	2.963	7.5	22.5	157 W	50	59
12 23	6 6.26	+ 4 28.3	2.037	2.984	6.2	22.5	161 W	49	60
1 2	5 56.06	+ 4 32.2	2.071	3.005	7.1	22.6	158 E	50	59
1 12	5 46.98	+ 4 50.6	2.134	3.024	9.4	22.8	150 E	50	59
1 22	5 39.75	+ 5 20.9	2.223	3.043	12.0	23.0	140 E	50	59

523662 2012 MU_2

12 13	6 24.39	+17 31.5	2.146	3.102	5.2	25.3	164 W	63	46
12 23	6 12.49	+17 12.8	2.117	3.096	2.1	25.1	173 W	62	47
1 2	6 0.34	+16 56.4	2.121	3.088	3.9	25.2	168 E	62	47
1 12	5 49.08	+16 43.1	2.156	3.079	7.6	25.5	156 E	62	47
1 22	5 39.60	+16 33.6	2.221	3.068	11.0	25.7	143 E	62	47

518645 2008 PL_{12}

12 13	6 41.98	+22 28.6	1.727	2.676	7.0	22.5	161 W	67	42
12 18	6 36.39	+22 34.5	1.719	2.687	4.7	22.4	167 W	68	41
12 23	6 30.51	+22 40.1	1.718	2.697	2.4	22.3	174 W	68	41
12 28	6 24.53	+22 45.0	1.724	2.708	0.2	22.1	179 E	68	41
1 2	6 18.61	+22 49.2	1.738	2.718	2.3	22.3	174 E	68	41
1 7	6 12.93	+22 52.7	1.760	2.727	4.6	22.5	167 E	68	41
1 12	6 7.63	+22 55.4	1.789	2.737	6.8	22.7	161 E	68	41

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
523599 2003 *RM*									
12 13	6 49.92	+35 22.0	3.132	4.055	5.5	25.6	157 W	80	29
12 18	6 44.90	+35 28.8	3.126	4.071	4.4	25.5	161 W	80	29
12 23	6 39.69	+35 33.2	3.128	4.088	3.5	25.5	165 W	81	28
12 28	6 34.38	+35 35.0	3.138	4.104	3.0	25.5	168 W	81	28
1 2	6 29.10	+35 34.3	3.156	4.119	3.1	25.5	167 E	81	28
1 7	6 23.94	+35 30.9	3.182	4.135	3.8	25.6	164 E	81	28
1 12	6 19.02	+35 25.1	3.216	4.150	4.8	25.6	159 E	80	29
1 17	6 14.40	+35 17.0	3.258	4.165	5.9	25.7	154 E	80	29
523802 1998 KH_9									
12 13	7 0.16	+28 49.9	2.256	3.183	7.1	23.3	156 W	74	35
12 18	6 54.74	+29 17.6	2.227	3.178	5.4	23.2	162 W	74	35
12 23	6 48.88	+29 44.2	2.205	3.173	3.7	23.1	168 W	75	34
12 28	6 42.70	+30 9.1	2.191	3.168	2.5	23.0	172 W	75	34
1 2	6 36.35	+30 31.6	2.185	3.162	2.4	23.0	172 E	76	33
1 7	6 29.99	+30 51.6	2.187	3.156	3.7	23.0	168 E	76	33
1 12	6 23.76	+31 8.6	2.198	3.149	5.4	23.1	162 E	76	33
1 17	6 17.82	+31 22.8	2.216	3.142	7.2	23.2	156 E	76	33
521938 2015 VT_1									
12 13	7 39.49	+11 57.7	1.849	2.713	12.1	22.1	145 W	57	52
12 23	7 30.78	+12 22.4	1.808	2.737	8.3	21.9	156 W	57	52
1 2	7 20.43	+12 58.2	1.793	2.761	4.5	21.8	167 W	58	51
1 12	7 9.54	+13 42.1	1.809	2.784	3.4	21.7	170 E	59	50
1 22	6 59.24	+14 30.5	1.855	2.805	6.4	22.0	161 E	60	49
2 1	6 50.59	+15 20.0	1.929	2.826	10.0	22.2	150 E	60	49
516396 2000 WY_{28}									
12 13	11 32.53	+33 51.2	0.631	1.257	50.5	21.5	100 W	79	26*
12 18	11 47.00	+35 6.7	0.629	1.272	49.2	21.5	102 W	80	26*
12 23	12 0.32	+36 24.4	0.627	1.289	47.8	21.4	104 W	81	25*
12 28	12 12.35	+37 44.9	0.626	1.306	46.3	21.4	106 W	83	24*
1 2	12 22.96	+39 8.4	0.625	1.323	44.7	21.4	109 W	84	24*
1 7	12 32.03	+40 34.9	0.625	1.342	43.1	21.4	111 W	86	23*
1 12	12 39.43	+42 3.9	0.625	1.361	41.5	21.4	114 W	87	22*
1 17	12 45.00	+43 34.9	0.626	1.380	39.8	21.4	116 W	89	20*
1 22	12 48.59	+45 6.9	0.628	1.399	38.1	21.3	119 W	90	19
1 27	12 50.01	+46 37.9	0.631	1.419	36.4	21.3	121 W	88	17
2 1	12 49.16	+48 5.4	0.636	1.439	34.7	21.3	124 W	87	16
2 6	12 45.97	+49 26.2	0.643	1.459	33.1	21.3	126 W	86	15
2 11	12 40.47	+50 37.2	0.651	1.480	31.7	21.4	128 W	84	13
2 16	12 32.82	+51 34.9	0.662	1.500	30.4	21.4	130 W	83	12
2 21	12 23.28	+52 15.8	0.675	1.520	29.3	21.4	131 W	83	12
2 26	12 12.34	+52 36.9	0.691	1.541	28.5	21.5	132 W	82	11
3 2	12 0.64	+52 36.4	0.710	1.561	27.9	21.6	132 W	82	11
3 7	11 48.86	+52 13.7	0.732	1.581	27.6	21.6	132 W	83	12
3 12	11 37.66	+51 30.0	0.757	1.601	27.6	21.7	132 W	84	13
3 17	11 27.50	+50 27.3	0.785	1.621	27.7	21.9	131 E	85	14
3 22	11 18.76	+49 8.2	0.817	1.640	28.1	22.0	129 E	86	15
3 27	11 11.61	+47 36.0	0.852	1.659	28.5	22.1	127 E	87	16
4 1	11 6.12	+45 53.5	0.890	1.679	29.1	22.2	125 E	89	18
4 6	11 2.23	+44 3.8	0.931	1.697	29.7	22.4	123 E	89	20
518737 2009 OO_9									
12 13	19 58.96	−23 32.8	1.562	0.973	37.3	21.2	37 E	15*	28*
12 23	20 23.75	−23 7.7	1.442	0.807	40.8	20.7	32 E	13*	23*
1 2	20 51.00	−22 24.2	1.277	0.627	48.7	20.1	29 E	12*	20*
1 12	21 17.00	−21 22.7	1.051	0.440	69.0	19.6	25 E	10*	16*
1 14	21 20.72	−21 9.5	0.997	0.405	76.3	19.5	24 E	9*	15*
1 16	21 23.18	−20 56.7	0.941	0.373	85.4	19.5	22 E	8*	14*
1 18	21 23.73	−20 44.8	0.883	0.345	96.6	19.7	20 E	7*	12*
1 20	21 21.58	−20 33.9	0.825	0.323	110.3	20.1	18 E	6*	10*
1 22	21 15.88	−20 22.9	0.770	0.309	126.3	21.0	15 E	3*	7*
96536 1998 SO_{10}									
12 23	0 0.07	+ 0 59.4	2.995	3.150	18.2	21.2	90 E	46	57*
1 2	0 5.76	+ 0 53.2	3.210	3.206	17.6	21.4	81 E	46	51*
1 12	0 12.53	+ 0 59.5	3.420	3.259	16.7	21.5	72 E	46*	44*
1 22	0 20.18	+ 1 15.6	3.622	3.311	15.5	21.6	64 E	44*	38*
2 1	0 28.53	+ 1 39.3	3.812	3.360	14.1	21.7	56 E	40*	32*
363084 2000 RD_{53}									
12 23	0 1.04	−14 41.8	0.670	1.130	60.0	21.4	84 E	30	68*
12 28	0 24.92	−12 35.5	0.691	1.153	58.2	21.5	85 E	32	67*
1 2	0 47.76	−10 24.6	0.716	1.177	56.5	21.6	86 E	35	66*
1 7	1 9.55	− 8 12.0	0.745	1.203	54.7	21.7	87 E	37	65*
1 12	1 30.29	− 6 0.4	0.779	1.230	53.0	21.8	88 E	39	63*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
16143 1999 XK_{142}									
12 23	0 1.43	+13 10.9	1.383	1.765	33.7	17.3	95 E	58	46*
1 2	0 21.70	+14 29.5	1.511	1.803	33.0	17.6	90 E	59	42*
1 12	0 42.35	+15 51.1	1.644	1.843	32.1	17.8	85 E	61	39*
1 22	1 3.27	+17 13.9	1.781	1.883	31.0	18.0	80 E	62*	35*
2 1	1 24.43	+18 36.4	1.920	1.923	29.7	18.1	75 E	61*	32*
2 11	1 45.75	+19 57.0	2.060	1.964	28.3	18.3	70 E	59*	29*
2 21	2 7.22	+21 14.2	2.200	2.005	26.7	18.4	66 E	56*	26*
3 2	2 28.80	+22 26.9	2.339	2.046	25.0	18.6	61 E	52*	24*
3 12	2 50.47	+23 33.7	2.476	2.087	23.2	18.7	56 E	48*	22*
3 22	3 12.19	+24 33.7	2.609	2.128	21.3	18.8	51 E	43*	20*
4 1	3 33.94	+25 26.1	2.737	2.168	19.4	18.8	46 E	38*	18*
4 11	3 55.66	+26 10.2	2.860	2.208	17.4	18.9	41 E	33*	17*
4 21	4 17.31	+26 45.5	2.976	2.247	15.4	19.0	36 E	28*	15*
5 1	4 38.84	+27 11.7	3.084	2.286	13.3	19.0	32 E	23*	13*
5 11	5 0.18	+27 28.5	3.182	2.324	11.2	19.0	27 E	18*	11*
5 21	5 21.27	+27 36.0	3.272	2.361	9.1	19.1	22 E	13*	8*
5 31	5 42.06	+27 34.2	3.350	2.398	7.0	19.0	17 E	8*	5*
6 10	6 2.48	+27 23.5	3.417	2.433	4.9	19.0	12 E	4*	2*
6 20	6 22.48	+27 4.1	3.473	2.468	3.0	19.0	7 E	1*	—
6 30	6 42.00	+26 36.7	3.515	2.501	1.5	18.9	4 E	—	—
7 10	7 0.99	+26 1.8	3.545	2.534	2.2	19.0	5 W	—	—
7 20	7 19.41	+25 20.0	3.560	2.566	4.0	19.2	10 W	3*	—
7 30	7 37.21	+24 32.1	3.562	2.597	5.9	19.3	15 W	8*	4*
8 9	7 54.35	+23 38.8	3.550	2.627	7.9	19.4	21 W	13*	7*
8 19	8 10.80	+22 41.2	3.524	2.655	9.8	19.5	26 W	18*	11*
8 29	8 26.50	+21 39.9	3.483	2.683	11.6	19.6	32 W	24*	14*
9 8	8 41.41	+20 36.0	3.429	2.710	13.3	19.6	38 W	30*	17*
9 18	8 55.47	+19 30.5	3.360	2.736	14.9	19.6	44 W	36*	21*
9 28	9 8.61	+18 24.5	3.279	2.760	16.4	19.7	51 W	42*	24*
10 8	9 20.73	+17 19.1	3.186	2.784	17.7	19.7	58 W	47*	28*
10 18	9 31.74	+16 15.5	3.082	2.806	18.7	19.6	65 W	52*	32*
10 28	9 41.47	+15 15.2	2.969	2.828	19.5	19.6	72 W	56*	36*
11 7	9 49.78	+14 19.4	2.848	2.848	20.0	19.5	80 W	59*	40*
11 17	9 56.47	+13 29.7	2.722	2.867	20.2	19.5	88 W	58	44*
11 27	10 1.29	+12 47.8	2.594	2.885	19.8	19.4	97 W	58	48*
12 7	10 4.01	+12 15.1	2.467	2.903	19.0	19.2	106 W	57	51*
12 17	10 4.39	+11 53.2	2.346	2.919	17.6	19.1	116 W	57	52
12 27	10 2.21	+11 43.0	2.236	2.933	15.6	18.9	127 W	57	52
1 6	9 57.43	+11 44.8	2.141	2.947	12.9	18.8	138 W	57	52
1 16	9 50.17	+11 57.9	2.066	2.960	9.5	18.6	150 W	57	52
225454 2000 EY_{14}									
12 23	0 2.31	−18 47.4	2.479	2.547	22.5	21.2	83 E	26	70*
1 2	0 9.71	−16 24.3	2.580	2.518	22.2	21.2	75 E	29	62*
1 12	0 18.70	−13 58.2	2.676	2.489	21.6	21.3	68 E	31*	54*
1 22	0 29.04	−11 30.3	2.767	2.459	20.6	21.3	62 E	32*	47*
2 1	0 40.55	− 9 1.2	2.849	2.428	19.5	21.3	55 E	32*	40*
2 11	0 53.07	− 6 31.6	2.923	2.397	18.1	21.3	49 E	30*	34*
2 21	1 6.50	− 4 1.9	2.987	2.365	16.6	21.2	43 E	27*	29*
3 2	1 20.75	− 1 32.8	3.040	2.332	15.0	21.2	37 E	23*	25*
3 12	1 35.77	+ 0 55.4	3.082	2.299	13.2	21.1	32 E	19*	20*
3 22	1 51.52	+ 3 22.0	3.112	2.266	11.3	21.0	27 E	15*	16*
4 1	2 7.99	+ 5 46.6	3.132	2.231	9.4	20.9	21 E	10*	13*
4 11	2 25.18	+ 8 8.5	3.140	2.197	7.4	20.8	16 E	5*	9*
4 21	2 43.10	+10 27.0	3.137	2.162	5.4	20.7	12 E	1*	5*
5 1	3 1.79	+12 41.7	3.123	2.127	3.4	20.5	7 E	—	1*
5 11	3 21.27	+14 51.5	3.099	2.092	1.8	20.4	4 E	—	—
5 21	3 41.59	+16 55.8	3.065	2.057	2.0	20.3	4 W	—	—
5 31	4 2.79	+18 53.6	3.023	2.022	3.8	20.4	8 W	—	2*
6 10	4 24.90	+20 44.0	2.972	1.987	5.8	20.4	11 W	—	5*
6 20	4 47.98	+22 25.9	2.914	1.953	8.0	20.4	15 W	3*	8*
6 30	5 12.06	+23 58.1	2.849	1.919	10.1	20.4	19 W	7*	10*
7 10	5 37.15	+25 19.5	2.778	1.886	12.2	20.4	23 W	11*	12*
7 20	6 3.25	+26 28.7	2.703	1.854	14.4	20.4	27 W	16*	13*
7 30	6 30.34	+27 24.6	2.623	1.823	16.4	20.4	31 W	21*	14*
8 9	6 58.36	+28 6.0	2.541	1.794	18.5	20.3	34 W	25*	15*
8 19	7 27.23	+28 31.8	2.458	1.766	20.4	20.3	38 W	29*	15*
8 29	7 56.82	+28 41.2	2.373	1.739	22.3	20.3	41 W	34*	15*
9 8	8 26.98	+28 33.8	2.288	1.715	24.1	20.2	44 W	37*	15*
9 18	8 57.54	+28 9.6	2.204	1.693	25.9	20.1	47 W	41*	15*
9 28	9 28.29	+27 29.1	2.122	1.673	27.5	20.1	50 W	44*	15*
10 8	9 59.02	+26 33.5	2.043	1.656	29.0	20.0	53 W	47*	15*
10 18	10 29.56	+25 24.5	1.966	1.642	30.4	20.0	57 W	50*	15*
10 28	10 59.67	+24 4.7	1.893	1.631	31.7	19.9	59 W	53*	16*
11 7	11 29.19	+22 36.7	1.822	1.623	32.8	19.8	62 W	56*	18*
11 17	11 57.94	+21 3.8	1.755	1.618	33.8	19.8	65 W	58*	20*
11 27	12 25.74	+19 29.6	1.690	1.617	34.6	19.7	69 W	59*	22*
12 7	12 52.44	+17 57.4	1.628	1.619	35.3	19.7	72 W	60*	26*
12 17	13 17.87	+16 30.4	1.567	1.624	35.9	19.6	75 W	61*	29*
12 27	13 41.81	+15 11.7	1.507	1.633	36.2	19.5	79 W	60*	34*
1 6	14 4.07	+14 3.2	1.447	1.644	36.4	19.5	83 W	59	39*
1 16	14 24.39	+13 6.9	1.386	1.659	36.3	19.4	87 W	58	43*

30512 2001 HO_8

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 23	0 4.19	−22 51.8	5.062	5.012	11.2	20.4	81 E	22	72*
1 2	0 7.70	−21 58.6	5.201	5.004	10.8	20.5	73 E	23	63*
1 12	0 12.25	−21 1.9	5.333	4.996	10.3	20.5	65 E	24*	55*
1 22	0 17.71	−20 2.7	5.454	4.988	9.5	20.5	57 E	23*	47*
2 1	0 23.97	−19 2.2	5.563	4.979	8.6	20.5	49 E	21*	40*
2 11	0 30.90	−18 1.3	5.656	4.970	7.7	20.5	42 E	17*	34*
2 21	0 38.40	−17 0.9	5.733	4.961	6.6	20.5	35 E	12*	28*
3 2	0 46.35	−16 1.7	5.791	4.951	5.6	20.4	29 E	7*	23*
3 12	0 54.68	−15 4.5	5.831	4.941	4.7	20.4	24 E	—	18*
3 22	1 3.28	−14 9.9	5.851	4.930	4.1	20.4	21 E	—	13*
4 1	1 12.08	−13 18.6	5.851	4.919	3.9	20.4	19 E	—	8*
4 11	1 21.00	−12 31.2	5.832	4.908	4.2	20.4	21 E	—	4*
4 21	1 29.98	−11 48.4	5.793	4.896	4.9	20.4	25 W	—	10*
5 1	1 38.93	−11 10.8	5.736	4.884	5.8	20.4	30 W	—	18*
5 11	1 47.78	−10 38.9	5.661	4.872	6.9	20.4	35 W	—	25*
5 21	1 56.45	−10 13.4	5.570	4.859	7.9	20.4	42 W	—	33*
5 31	2 4.87	− 9 54.9	5.463	4.846	9.0	20.4	48 W	—	41*
6 10	2 12.94	− 9 43.9	5.343	4.833	9.9	20.4	55 W	—	49*
6 20	2 20.57	− 9 40.8	5.212	4.819	10.7	20.4	62 W	5*	56*
6 30	2 27.65	− 9 46.4	5.071	4.805	11.4	20.3	69 W	11*	63*
7 10	2 34.06	−10 0.8	4.923	4.790	11.9	20.3	77 W	17*	69*
7 20	2 39.69	−10 24.4	4.771	4.775	12.2	20.2	84 W	23*	73*
7 30	2 44.38	−10 57.2	4.617	4.760	12.3	20.1	92 W	27*	75
8 9	2 48.01	−11 38.9	4.465	4.744	12.2	20.1	100 W	31*	76
8 19	2 50.44	−12 28.9	4.318	4.728	11.8	20.0	108 W	32*	76
8 29	2 51.53	−13 26.1	4.180	4.712	11.1	19.9	116 W	32	77
9 8	2 51.22	−14 28.3	4.055	4.695	10.2	19.8	124 W	31	78
9 18	2 49.44	−15 33.3	3.946	4.678	9.2	19.6	132 W	29	80
9 28	2 46.25	−16 37.5	3.857	4.661	8.1	19.5	139 W	28	81
10 8	2 41.79	−17 37.1	3.792	4.643	7.2	19.5	145 W	27	82
10 18	2 36.31	−18 28.1	3.751	4.625	6.6	19.4	148 W	27	82
10 28	2 30.17	−19 6.7	3.738	4.606	6.7	19.4	147 W	26	83
11 7	2 23.84	−19 30.1	3.751	4.587	7.3	19.4	144 E	25	84
11 17	2 17.77	−19 36.7	3.789	4.568	8.4	19.5	138 E	25	84
11 27	2 12.42	−19 26.2	3.851	4.549	9.6	19.5	130 E	26	83
12 7	2 8.14	−18 59.7	3.932	4.529	10.7	19.6	122 E	26	83
12 17	2 5.19	−18 19.0	4.029	4.508	11.6	19.7	113 E	27	82
12 27	2 3.70	−17 26.5	4.138	4.488	12.2	19.8	105 E	28	81
1 6	2 3.71	−16 24.7	4.254	4.467	12.6	19.8	96 E	29	79*
1 16	2 5.19	−15 16.0	4.374	4.446	12.8	19.9	88 E	30	73*

102109 1999 RD_{166}

12 23	0 4.19	+ 2 33.4	1.571	1.874	31.7	20.6	91 E	48	56*
1 2	0 21.00	+ 4 30.4	1.704	1.905	31.0	20.8	86 E	50	50*
1 12	0 38.45	+ 6 28.4	1.839	1.936	30.1	21.0	80 E	51	45*
1 22	0 56.42	+ 8 26.2	1.976	1.968	28.9	21.1	75 E	53*	40*
2 1	1 14.85	+10 22.3	2.113	2.001	27.5	21.3	70 E	53*	36*
2 11	1 33.67	+12 15.7	2.248	2.034	26.0	21.4	65 E	51*	32*
2 21	1 52.82	+14 5.1	2.381	2.066	24.4	21.5	60 E	48*	29*

85709 1998 SG_{36}

12 23	0 4.41	− 9 5.3	2.005	2.184	26.7	20.3	87 E	36	65*
1 2	0 15.40	− 8 24.0	2.145	2.191	26.2	20.4	80 E	37	59*
1 12	0 27.59	− 7 31.0	2.280	2.197	25.3	20.6	73 E	37*	52*
1 22	0 40.77	− 6 29.3	2.407	2.200	24.1	20.6	66 E	38*	47*
2 1	0 54.81	− 5 21.0	2.527	2.201	22.7	20.7	60 E	36*	42*
2 11	1 9.58	− 4 8.4	2.636	2.201	21.2	20.8	54 E	34*	37*
2 21	1 24.98	− 2 53.1	2.734	2.198	19.5	20.8	48 E	30*	33*
3 2	1 40.98	− 1 36.6	2.820	2.193	17.8	20.8	42 E	26*	29*
3 12	1 57.51	− 0 20.6	2.894	2.186	15.9	20.8	37 E	22*	26*
3 22	2 14.56	+ 0 53.8	2.955	2.177	14.1	20.7	32 E	17*	23*
4 1	2 32.09	+ 2 5.3	3.002	2.166	12.3	20.7	28 E	12*	20*
4 11	2 50.10	+ 3 12.6	3.037	2.153	10.6	20.6	23 E	6*	17*
4 21	3 8.59	+ 4 14.8	3.059	2.138	9.0	20.6	20 E	1*	14*
5 1	3 27.54	+ 5 10.7	3.067	2.121	7.8	20.5	17 E	—	10*
5 11	3 46.95	+ 5 59.2	3.064	2.102	7.0	20.5	15 E	—	7*
5 21	4 6.81	+ 6 39.5	3.048	2.081	6.8	20.4	14 E	—	3*
5 31	4 27.13	+ 7 10.4	3.021	2.057	7.2	20.4	15 W	—	2*
6 10	4 47.89	+ 7 31.2	2.983	2.032	8.2	20.4	17 W	—	6*
6 20	5 9.07	+ 7 40.9	2.936	2.004	9.6	20.4	19 W	—	11*
6 30	5 30.67	+ 7 38.8	2.879	1.975	11.2	20.4	22 W	—	15*
7 10	5 52.65	+ 7 24.2	2.814	1.944	12.9	20.3	25 W	—	19*
7 20	6 15.02	+ 6 56.6	2.741	1.910	14.7	20.3	28 W	—	22*
7 30	6 37.75	+ 6 15.5	2.662	1.875	16.5	20.3	32 W	5*	25*
8 9	7 0.83	+ 5 20.7	2.577	1.838	18.4	20.2	35 W	9*	28*
8 19	7 24.28	+ 4 12.1	2.487	1.799	20.2	20.2	38 W	14*	30*
8 29	7 48.10	+ 2 49.9	2.393	1.758	22.1	20.1	41 W	18*	32*
9 8	8 12.32	+ 1 14.5	2.297	1.716	23.9	20.0	44 W	21*	34*
9 18	8 37.01	− 0 33.3	2.198	1.672	25.8	19.9	46 W	24*	36*
9 28	9 2.24	− 2 32.4	2.098	1.627	27.7	19.8	49 W	27*	38*
10 8	9 28.14	− 4 41.1	1.997	1.581	29.6	19.7	51 W	28*	39*
10 18	9 54.87	− 6 57.7	1.897	1.534	31.6	19.6	54 W	29*	41*

85709 1998 SG_{36} *(continuation)*

10 28	10 22.63	− 9 19.3	1.798	1.486	33.5	19.4	56 W	30*	43*
11 7	10 51.66	−11 42.4	1.700	1.438	35.6	19.3	58 W	30*	45*
11 12	11 6.76	−12 53.4	1.653	1.414	36.6	19.2	58 W	29*	45*
11 17	11 22.29	−14 3.0	1.606	1.390	37.7	19.2	59 W	29*	46*
11 22	11 38.28	−15 10.7	1.560	1.366	38.7	19.1	60 W	28*	47*
11 27	11 54.80	−16 15.5	1.515	1.343	39.8	19.0	61 W	28*	48*
12 2	12 11.87	−17 16.7	1.471	1.320	40.9	18.9	61 W	27*	49*
12 7	12 29.55	−18 13.2	1.428	1.297	42.0	18.9	62 W	26*	50*
12 12	12 47.86	−19 4.0	1.387	1.275	43.2	18.8	62 W	26*	51*
12 17	13 6.82	−19 48.1	1.347	1.254	44.3	18.7	63 W	25*	51*
12 22	13 26.43	−20 24.0	1.309	1.233	45.4	18.7	63 W	24*	52*
12 27	13 46.70	−20 50.7	1.273	1.214	46.5	18.6	64 W	24*	53*
1 1	14 7.61	−21 6.8	1.240	1.195	47.6	18.5	64 W	24*	53*
1 6	14 29.10	−21 11.3	1.208	1.177	48.7	18.5	64 W	24*	54*
1 11	14 51.11	−21 3.2	1.180	1.161	49.7	18.4	64 W	24*	54*
1 16	15 13.52	−20 41.5	1.154	1.146	50.6	18.4	64 W	24*	54*

378747 2008 RM_{77}

12 23	0 5.30	+ 6 45.8	1.322	1.693	35.5	20.6	93 E	52	52*
1 2	0 25.81	+ 9 1.2	1.439	1.725	34.7	20.8	89 E	54	48*
1 12	0 46.82	+11 13.8	1.560	1.759	33.8	21.0	84 E	56	43*
1 22	1 8.21	+13 22.0	1.686	1.795	32.7	21.2	80 E	58*	39*
2 1	1 29.95	+15 24.9	1.815	1.832	31.3	21.3	75 E	59*	35*

99915 1997 TR_6

12 23	0 5.48	− 3 16.3	1.405	1.706	35.2	18.1	89 E	42	61*
1 2	0 26.69	− 0 49.4	1.517	1.735	34.4	18.3	85 E	44	55*
1 12	0 48.10	+ 1 37.7	1.635	1.768	33.3	18.5	81 E	47	50*
1 22	1 9.64	+ 4 2.5	1.757	1.802	32.1	18.7	76 E	49*	46*
2 1	1 31.29	+ 6 22.8	1.884	1.840	30.7	18.8	72 E	50*	42*
2 11	1 53.01	+ 8 37.0	2.012	1.879	29.1	19.0	68 E	50*	38*
2 21	2 14.78	+10 43.3	2.143	1.919	27.5	19.1	64 E	48*	35*
3 2	2 36.60	+12 40.7	2.274	1.962	25.7	19.2	59 E	46*	32*
3 12	2 58.45	+14 28.1	2.406	2.005	23.9	19.3	55 E	43*	30*
3 22	3 20.30	+16 4.6	2.536	2.049	22.0	19.4	50 E	39*	27*
4 1	3 42.13	+17 29.8	2.663	2.094	20.0	19.5	46 E	35*	25*
4 11	4 3.90	+18 43.3	2.787	2.140	18.0	19.6	41 E	30*	23*
4 21	4 25.56	+19 44.8	2.906	2.186	16.0	19.7	37 E	25*	21*
5 1	4 47.06	+20 34.4	3.019	2.232	13.9	19.7	32 E	20*	18*
5 11	5 8.35	+21 12.1	3.125	2.278	11.8	19.8	28 E	15*	16*
5 21	5 29.36	+21 38.3	3.224	2.324	9.7	19.8	23 E	10*	13*
5 31	5 50.04	+21 53.4	3.313	2.370	7.6	19.8	18 E	6*	10*
6 10	6 10.32	+21 58.0	3.393	2.416	5.5	19.8	13 E	1*	6*
6 20	6 30.15	+21 52.7	3.462	2.461	3.4	19.8	8 E	—	2*
6 30	6 49.49	+21 38.2	3.520	2.506	1.4	19.7	3 E	—	—
7 10	7 8.28	+21 15.4	3.566	2.550	1.0	19.7	2 W	—	—
7 20	7 26.48	+20 45.2	3.599	2.594	2.9	20.0	7 W	—	1*
7 30	7 44.05	+20 8.5	3.619	2.638	4.9	20.1	13 W	3*	4*
8 9	8 0.94	+19 26.3	3.625	2.681	6.8	20.2	18 W	9*	8*
8 19	8 17.13	+18 39.7	3.617	2.723	8.7	20.4	24 W	14*	12*
8 29	8 32.57	+17 49.6	3.594	2.764	10.5	20.5	30 W	20*	15*
9 8	8 47.21	+16 57.2	3.558	2.805	12.2	20.5	36 W	26*	18*
9 18	9 0.99	+16 3.7	3.508	2.845	13.7	20.6	42 W	32*	22*
9 28	9 13.85	+15 10.3	3.444	2.884	15.1	20.6	49 W	38*	25*
10 8	9 25.71	+14 18.2	3.368	2.923	16.4	20.6	56 W	44*	29*
10 18	9 36.46	+13 28.9	3.280	2.961	17.4	20.7	63 W	49*	33*
10 28	9 45.98	+12 43.8	3.183	2.998	18.2	20.6	70 W	54*	37*
11 7	9 54.12	+12 4.6	3.077	3.034	18.6	20.6	78 W	56*	41*
11 17	10 0.71	+11 32.7	2.965	3.069	18.8	20.6	87 W	57	45*
11 27	10 5.55	+11 10.1	2.850	3.103	18.5	20.5	95 W	56	49*
12 7	10 8.46	+10 58.1	2.737	3.137	17.7	20.4	105 W	56	52*
12 17	10 9.25	+10 58.2	2.628	3.170	16.4	20.3	115 W	56	53
12 27	10 7.78	+11 11.3	2.530	3.202	14.5	20.2	125 W	56	53
1 6	10 4.04	+11 37.3	2.447	3.233	12.1	20.0	137 W	57	52
1 16	9 58.19	+12 14.9	2.384	3.263	9.1	19.9	148 W	57	52

388259 2006 QF_1

12 23	0 5.66	+ 1 15.4	1.028	1.438	43.2	20.6	91 E	46	57*
1 2	0 32.80	+ 4 8.6	1.109	1.461	42.3	20.8	88 E	49	53*
1 12	1 0.04	+ 6 58.2	1.197	1.489	41.2	21.0	86 E	52	48*
1 22	1 27.29	+ 9 40.4	1.292	1.520	39.9	21.1	83 E	55	45*
2 1	1 54.52	+12 12.4	1.394	1.555	38.5	21.3	80 E	57*	41*
2 11	2 21.67	+14 31.8	1.502	1.592	37.0	21.5	76 E	58*	39*

291919 2006 QU_{20}

12 23	0 6.26	− 5 4.5	1.335	1.643	36.8	20.2	89 E	40	62*
1 2	0 27.39	− 2 58.1	1.431	1.655	36.3	20.3	84 E	42	57*
1 12	0 49.10	− 0 45.3	1.529	1.669	35.5	20.5	80 E	44	52*
1 22	1 11.25	+ 1 30.5	1.629	1.687	34.5	20.6	76 E	46*	48*
2 1	1 33.79	+ 3 46.5	1.732	1.706	33.3	20.7	72 E	48*	44*
2 11	1 56.66	+ 5 59.7	1.837	1.727	32.0	20.9	68 E	48*	41*

291919 2006 QU_{20} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 21	2 19.80	+8 7.7	1.942	1.751	30.5	21.0	64 E	47*	38*
3 2	2 43.21	+10 8.4	2.048	1.776	28.9	21.1	60 E	45*	35*
3 12	3 6.83	+11 59.8	2.154	1.802	27.3	21.2	56 E	42*	33*
3 22	3 30.63	+13 40.3	2.260	1.830	25.5	21.3	52 E	39*	31*
4 1	3 54.58	+15 8.8	2.364	1.858	23.7	21.3	48 E	35*	29*
4 11	4 18.60	+16 24.2	2.466	1.888	21.9	21.4	45 E	31*	27*
4 21	4 42.63	+17 25.8	2.565	1.918	20.0	21.5	41 E	27*	25*

2937 Gibbs

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	0 7.44	+22 28.6	1.421	1.861	31.4	16.7	100 E	67	38*
1 2	0 28.65	+21 42.7	1.544	1.894	31.2	16.9	94 E	67	37*
1 12	0 50.04	+21 15.5	1.675	1.927	30.7	17.1	89 E	66	35*
1 22	1 11.47	+21 3.1	1.811	1.962	29.9	17.2	84 E	66*	33*
2 1	1 32.89	+21 2.3	1.950	1.997	28.9	17.4	78 E	64*	31*
2 11	1 54.26	+21 9.8	2.092	2.032	27.6	17.6	73 E	61*	29*
2 21	2 15.54	+21 22.7	2.234	2.068	26.2	17.7	67 E	57*	28*
3 2	2 36.74	+21 38.4	2.375	2.104	24.6	17.8	62 E	53*	26*
3 12	2 57.84	+21 54.7	2.514	2.139	22.9	17.9	57 E	48*	24*
3 22	3 18.80	+22 9.6	2.648	2.175	21.1	18.0	52 E	43*	23*
4 1	3 39.65	+22 21.7	2.777	2.211	19.1	18.1	46 E	37*	22*
4 11	4 0.32	+22 29.5	2.899	2.246	17.1	18.2	41 E	32*	20*
4 21	4 20.81	+22 32.0	3.014	2.281	15.1	18.2	36 E	26*	18*
5 1	4 41.09	+22 28.4	3.120	2.315	13.0	18.3	31 E	20*	16*
5 11	5 1.10	+22 18.0	3.216	2.349	10.8	18.3	26 E	15*	14*
5 21	5 20.82	+22 0.4	3.302	2.383	8.7	18.3	21 E	9*	11*
5 31	5 40.21	+21 35.3	3.376	2.416	6.5	18.3	16 E	4*	8*
6 10	5 59.22	+21 2.6	3.438	2.448	4.4	18.2	11 E	—	4*
6 20	6 17.81	+20 22.2	3.487	2.479	2.5	18.2	6 E	—	—
6 30	6 35.95	+19 34.3	3.524	2.510	1.5	18.1	4 W	—	—
7 10	6 53.58	+18 39.0	3.547	2.540	2.7	18.3	7 W	—	1*
7 20	7 10.67	+17 36.6	3.557	2.569	4.6	18.4	12 W	—	5*
7 30	7 27.19	+16 27.4	3.552	2.598	6.5	18.5	17 W	4*	10*
8 9	7 43.08	+15 11.8	3.534	2.625	8.5	18.6	22 W	9*	14*
8 19	7 58.31	+13 50.3	3.502	2.652	10.3	18.7	28 W	14*	18*
8 29	8 12.83	+12 23.2	3.456	2.678	12.1	18.8	34 W	20*	22*
9 8	8 26.56	+10 51.1	3.398	2.703	13.8	18.8	40 W	26*	26*
9 18	8 39.46	+9 14.5	3.326	2.727	15.4	18.8	46 W	31*	30*
9 28	8 51.42	+7 34.0	3.243	2.751	16.8	18.8	53 W	36*	34*
10 8	9 2.35	+5 50.3	3.149	2.773	18.0	18.8	59 W	41*	39*
10 18	9 12.13	+4 4.0	3.045	2.794	19.0	18.8	66 W	44*	44*
10 28	9 20.58	+2 16.0	2.934	2.815	19.8	18.8	73 W	46*	49*
11 7	9 27.54	+0 27.4	2.817	2.834	20.2	18.7	81 W	45*	54*
11 17	9 32.80	−1 20.5	2.696	2.853	20.3	18.6	89 W	44	60*
11 27	9 36.11	−3 5.9	2.575	2.871	19.9	18.5	97 W	42	65*
12 7	9 37.25	−4 46.5	2.457	2.887	19.2	18.4	106 W	40	69
12 17	9 36.02	−6 19.5	2.346	2.903	17.9	18.3	115 W	39	70
12 27	9 32.27	−7 41.1	2.247	2.918	16.1	18.2	124 W	37	72
1 6	9 26.08	−8 47.3	2.164	2.932	14.0	18.0	134 W	36	73
1 16	9 17.71	−9 33.7	2.101	2.945	11.7	17.9	143 W	35	74

41074 1999 VL_{40}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	0 8.15	+21 2.2	2.060	2.424	23.6	18.8	99 E	66	40*
1 2	0 17.80	+20 12.8	2.154	2.391	24.3	18.9	91 E	65	37*
1 12	0 29.37	+19 42.9	2.249	2.357	24.5	19.0	84 E	65*	34*
1 22	0 42.60	+19 30.2	2.341	2.323	24.4	19.0	77 E	63*	30*
2 1	0 57.28	+19 32.3	2.430	2.288	23.9	19.0	70 E	59*	27*
2 11	1 13.25	+19 46.3	2.512	2.253	23.1	19.1	64 E	55*	24*
2 21	1 30.36	+20 9.4	2.587	2.217	22.1	19.1	57 E	50*	21*
3 2	1 48.54	+20 39.2	2.655	2.181	20.8	19.0	52 E	44*	18*
3 12	2 7.70	+21 13.0	2.713	2.144	19.4	19.0	46 E	39*	16*
3 22	2 27.80	+21 48.2	2.762	2.107	17.9	19.0	41 E	34*	14*
4 1	2 48.80	+22 22.5	2.801	2.070	16.3	18.9	35 E	28*	12*
4 11	3 10.64	+22 53.4	2.831	2.033	14.5	18.8	31 E	23*	11*
4 21	3 33.31	+23 18.8	2.852	1.996	12.7	18.7	26 E	18*	9*
5 1	3 56.76	+23 36.3	2.863	1.959	10.8	18.6	21 E	14*	7*
5 11	4 20.91	+23 43.9	2.866	1.923	8.9	18.5	17 E	9*	5*
5 21	4 45.72	+23 39.5	2.860	1.887	6.9	18.4	13 E	5*	3*
5 31	5 11.09	+23 21.4	2.847	1.852	4.9	18.2	9 E	1*	1*
6 10	5 36.92	+22 48.0	2.827	1.819	3.0	18.1	5 E	—	—
6 20	6 3.11	+21 57.9	2.801	1.786	1.4	17.9	2 E	—	—
6 30	6 29.56	+20 50.2	2.769	1.755	1.6	17.8	3 W	—	—
7 10	6 56.13	+19 24.1	2.733	1.725	3.4	17.9	6 W	—	—
7 20	7 22.75	+17 39.5	2.694	1.697	5.3	17.9	9 W	—	3*
7 30	7 49.33	+15 36.4	2.652	1.672	7.2	18.0	12 W	—	6*
8 9	8 15.80	+13 15.6	2.609	1.649	9.1	18.0	15 W	2*	8*
8 19	8 42.13	+10 38.0	2.564	1.629	10.9	18.0	18 W	4*	11*
8 29	9 8.30	+7 45.1	2.519	1.612	12.6	18.0	20 W	7*	13*
9 8	9 34.32	+4 38.9	2.476	1.598	14.3	18.0	23 W	9*	15*
9 18	10 0.23	+1 21.6	2.433	1.587	15.9	18.0	26 W	12*	17*
9 28	10 26.06	−2 4.0	2.392	1.580	17.4	18.0	28 W	14*	19*
10 8	10 51.89	−5 34.9	2.352	1.576	18.8	18.0	31 W	15*	21*
10 18	11 17.77	−9 7.9	2.315	1.577	20.2	18.0	33 W	17*	24*

41074 1999 VL_{40} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 28	11 43.77	−12 39.6	2.279	1.581	21.5	18.0	36 W	17*	26*
11 7	12 9.95	−16 6.6	2.244	1.588	22.7	18.0	38 W	18*	29*
11 17	12 36.34	−19 25.5	2.210	1.599	23.9	18.1	41 W	18*	32*
11 27	13 2.94	−22 33.3	2.176	1.613	25.0	18.1	44 W	17*	35*
12 7	13 29.72	−25 26.9	2.141	1.631	26.1	18.1	47 W	16*	38*
12 17	13 56.62	−28 4.2	2.103	1.651	27.1	18.1	50 W	15*	42*
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*

186418 2002 RA

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	0 8.56	+7 17.6	1.296	1.685	35.6	19.7	94 E	52	52*
1 2	0 28.94	+9 7.2	1.404	1.707	35.2	19.8	89 E	54	48*
1 12	0 50.06	+10 59.1	1.515	1.731	34.5	20.0	85 E	56	44*
1 22	1 11.74	+12 50.9	1.631	1.757	33.5	20.2	80 E	58*	40*
2 1	1 33.92	+14 40.7	1.749	1.785	32.4	20.3	76 E	58*	36*
2 11	1 56.48	+16 26.3	1.869	1.815	31.0	20.5	71 E	57*	33*
2 21	2 19.37	+18 5.9	1.990	1.845	29.6	20.6	67 E	55*	31*
3 2	2 42.55	+19 38.0	2.112	1.877	28.0	20.7	63 E	52*	28*
3 12	3 5.95	+21 1.2	2.233	1.910	26.3	20.8	58 E	49*	26*
3 22	3 29.51	+22 14.3	2.353	1.943	24.5	20.9	54 E	45*	25*
4 1	3 53.18	+23 16.4	2.470	1.977	22.7	21.0	50 E	40*	23*
4 11	4 16.87	+24 6.8	2.584	2.011	20.8	21.1	45 E	36*	22*
4 21	4 40.52	+24 45.0	2.695	2.045	18.8	21.2	41 E	31*	20*
5 1	5 4.05	+25 10.9	2.800	2.079	16.8	21.2	37 E	26*	18*
5 11	5 27.36	+25 24.3	2.899	2.114	14.8	21.3	32 E	21*	17*
5 21	5 50.38	+25 25.6	2.991	2.148	12.7	21.3	28 E	16*	15*
5 31	6 13.04	+25 15.0	3.076	2.182	10.6	21.3	23 E	12*	12*
6 10	6 35.25	+24 53.2	3.153	2.216	8.5	21.3	19 E	7*	9*
6 20	6 56.97	+24 20.8	3.221	2.249	6.4	21.3	14 E	3*	6*
6 30	7 18.14	+23 38.6	3.278	2.282	4.2	21.2	10 E	—	2*
7 10	7 38.72	+22 47.6	3.326	2.314	2.1	21.2	5 E	—	—
7 20	7 58.69	+21 48.5	3.362	2.346	0.5	21.1	1 E	—	—
7 30	8 18.01	+20 42.4	3.386	2.377	2.2	21.3	5 W	—	—
8 9	8 36.68	+19 30.2	3.399	2.407	4.2	21.4	10 W	3*	1*

258695 2002 GT_3

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	0 9.18	+2 18.2	1.090	1.499	41.0	21.4	92 E	47	57*
1 2	0 28.67	+4 29.2	1.156	1.486	41.4	21.5	88 E	49	52*
1 12	0 49.94	+6 48.3	1.221	1.474	41.5	21.6	83 E	52	47*
1 22	1 12.78	+9 11.9	1.286	1.465	41.3	21.7	79 E	54*	43*
2 1	1 37.08	+11 36.6	1.350	1.457	40.9	21.8	75 E	55*	39*

101258 1998 SF_{97}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	0 9.33	+1 45.7	1.372	1.720	34.9	19.0	92 E	47	57*
1 2	0 28.17	+4 8.0	1.481	1.739	34.4	19.2	87 E	49	52*
1 12	0 47.84	+6 30.3	1.593	1.761	33.6	19.3	83 E	52	47*
1 22	1 8.18	+8 50.7	1.707	1.784	32.6	19.5	78 E	54*	42*
2 1	1 29.10	+11 7.3	1.824	1.809	31.5	19.6	73 E	55*	38*
2 11	1 50.52	+13 18.5	1.942	1.836	30.1	19.8	69 E	54*	34*
2 21	2 12.38	+15 22.6	2.061	1.864	28.6	19.9	65 E	52*	31*
3 2	2 34.64	+17 18.2	2.180	1.894	27.0	20.0	60 E	49*	29*
3 12	2 57.24	+19 4.2	2.297	1.924	25.3	20.1	56 E	46*	26*
3 22	3 20.13	+20 39.2	2.413	1.955	23.5	20.2	52 E	42*	24*
4 1	3 43.27	+22 2.7	2.526	1.987	21.6	20.3	47 E	38*	22*
4 11	4 6.56	+23 13.7	2.636	2.019	19.7	20.3	43 E	33*	21*
4 21	4 29.95	+24 11.8	2.741	2.052	17.8	20.4	39 E	29*	19*
5 1	4 53.35	+24 56.9	2.841	2.085	15.8	20.4	34 E	24*	17*
5 11	5 16.66	+25 28.6	2.935	2.119	13.7	20.5	30 E	19*	15*
5 21	5 39.80	+25 47.4	3.022	2.152	11.7	20.5	25 E	15*	12*
5 31	6 2.69	+25 53.4	3.101	2.185	9.6	20.5	21 E	10*	10*
6 10	6 25.22	+25 47.3	3.172	2.218	7.5	20.5	17 E	6*	7*
6 20	6 47.33	+25 29.8	3.234	2.251	5.4	20.5	12 E	3*	4*
6 30	7 8.95	+25 1.6	3.287	2.283	3.4	20.4	8 E	—	—
7 10	7 30.02	+24 23.7	3.329	2.315	1.6	20.3	4 E	—	—
7 20	7 50.50	+23 37.2	3.360	2.347	1.5	20.4	3 W	—	—
7 30	8 10.35	+22 43.0	3.380	2.378	3.3	20.5	8 W	1*	—
8 9	8 29.54	+21 42.3	3.388	2.408	5.2	20.7	12 W	6*	1*
8 19	8 48.06	+20 36.2	3.384	2.438	7.2	20.8	18 W	10*	4*
8 29	9 5.89	+19 26.0	3.368	2.468	9.1	20.9	23 W	16*	7*
9 8	9 22.99	+18 12.7	3.338	2.496	11.0	21.0	28 W	21*	11*
9 18	9 39.36	+16 57.5	3.296	2.524	12.8	21.1	34 W	26*	14*
9 28	9 54.96	+15 41.8	3.242	2.552	14.5	21.1	40 W	32*	17*
10 8	10 9.75	+14 26.7	3.175	2.578	16.1	21.1	46 W	37*	20*
10 18	10 23.68	+13 13.5	3.096	2.604	17.5	21.2	52 W	42*	24*
10 28	10 36.66	+12 3.7	3.006	2.629	18.8	21.2	59 W	47*	28*
11 7	10 48.59	+10 58.7	2.907	2.653	19.9	21.1	65 W	51*	33*
11 17	10 59.35	+10 0.0	2.799	2.676	20.7	21.1	73 W	54*	38*
11 27	11 8.76	+9 9.3	2.683	2.698	21.1	21.0	80 W	54*	43*
12 7	11 16.63	+8 28.2	2.564	2.720	21.2	21.0	88 W	53	48*
12 17	11 22.74	+7 58.6	2.442	2.740	20.9	20.9	97 W	53	53*
12 27	11 26.81	+7 42.2	2.322	2.760	20.0	20.7	106 W	53	56*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
101258 1998 SF_{97} *(continuation)*									
1 6	11 28.60	+ 7 40.4	2.207	2.779	18.6	20.6	116 W	53	56
1 16	11 27.89	+ 7 54.0	2.101	2.797	16.5	20.4	126 W	53	56
18106 Blume									
12 23	0 9.63	− 4 41.3	1.047	1.434	43.3	20.3	90 E	40	63*
12 28	0 24.72	− 2 44.0	1.101	1.462	42.2	20.4	89 E	42	60*
1 2	0 39.28	− 0 51.1	1.158	1.492	41.2	20.5	88 E	44	58*
1 7	0 53.38	+ 0 57.2	1.218	1.522	40.2	20.6	87 E	46	55*
1 12	1 7.06	+ 2 40.6	1.281	1.553	39.1	20.8	86 E	48	53*
1 17	1 20.36	+ 4 19.1	1.346	1.584	38.1	20.9	84 E	49	51*
1 22	1 33.34	+ 5 52.7	1.414	1.616	37.2	21.0	83 E	51	48*
1 27	1 46.03	+ 7 21.5	1.484	1.648	36.2	21.1	81 E	52*	46*
2 1	1 58.48	+ 8 45.5	1.555	1.680	35.2	21.2	79 E	53*	45*
2 6	2 10.70	+10 4.8	1.629	1.713	34.2	21.3	78 E	54*	43*
2 11	2 22.73	+11 19.6	1.704	1.745	33.2	21.5	76 E	55*	41*
413820 2006 QR_{89}									
12 23	0 10.99	−13 26.3	0.766	1.211	54.2	21.3	87 E	32	69*
12 28	0 25.81	−12 1.2	0.775	1.204	54.5	21.3	86 E	33	67*
1 2	0 41.08	−10 29.1	0.785	1.199	54.7	21.4	85 E	35	65*
1 7	0 56.76	− 8 50.8	0.794	1.196	54.8	21.4	84 E	36	63*
1 12	1 12.81	− 7 7.1	0.804	1.195	54.8	21.4	83 E	38	61*
1 17	1 29.21	− 5 18.9	0.815	1.196	54.7	21.4	83 E	40	59*
1 22	1 45.92	− 3 27.2	0.828	1.199	54.5	21.5	82 E	42	58*
333948 1999 XG_{135}									
12 23	0 11.01	−10 53.1	2.293	2.457	23.6	21.4	88 E	34	68*
1 2	0 18.14	− 9 11.9	2.369	2.400	23.8	21.4	80 E	36	60*
1 12	0 27.24	− 7 21.4	2.439	2.342	23.6	21.4	73 E	38*	52*
1 22	0 38.09	− 5 23.1	2.504	2.284	23.1	21.4	66 E	38*	46*
2 1	0 50.53	− 3 18.0	2.560	2.225	22.4	21.4	59 E	38*	40*
2 11	1 4.43	− 1 7.4	2.607	2.167	21.4	21.3	53 E	36*	34*
2 21	1 19.68	+ 1 7.8	2.644	2.109	20.3	21.2	48 E	33*	30*
3 2	1 36.25	+ 3 26.4	2.672	2.051	19.0	21.2	42 E	30*	26*
3 12	1 54.10	+ 5 47.2	2.690	1.993	17.6	21.1	37 E	26*	22*
3 22	2 13.25	+ 8 9.1	2.700	1.937	16.1	21.0	33 E	22*	19*
4 1	2 33.73	+10 30.4	2.701	1.881	14.6	20.8	28 E	18*	16*
4 11	2 55.58	+12 49.3	2.694	1.827	13.0	20.7	24 E	14*	13*
4 21	3 18.87	+15 3.9	2.682	1.775	11.4	20.6	20 E	10*	10*
5 1	3 43.69	+17 11.7	2.664	1.725	9.8	20.5	17 E	7*	8*
5 11	4 10.06	+19 9.9	2.642	1.678	8.2	20.3	14 E	4*	6*
5 21	4 38.03	+20 55.5	2.617	1.634	6.7	20.2	11 E	1*	3*
5 31	5 7.57	+22 25.2	2.591	1.594	5.2	20.0	8 E	—	1*
6 10	5 38.57	+23 35.4	2.565	1.559	3.8	19.9	6 E	—	—
6 20	6 10.89	+24 23.0	2.541	1.528	2.5	19.7	4 E	—	—
6 30	6 44.24	+24 45.0	2.519	1.504	1.6	19.6	2 E	—	—
7 10	7 18.27	+24 39.8	2.500	1.485	1.7	19.6	2 E	—	—
7 20	7 52.59	+24 6.4	2.485	1.473	2.5	19.6	4 W	—	—
7 30	8 26.79	+23 5.4	2.475	1.467	3.6	19.6	5 W	—	—
8 9	9 0.49	+21 39.0	2.471	1.469	4.7	19.7	7 W	1*	—
8 19	9 33.38	+19 50.1	2.470	1.477	5.9	19.8	9 W	3*	—
8 29	10 5.24	+17 42.9	2.475	1.493	7.0	19.9	10 W	4*	—
9 8	10 35.94	+15 21.9	2.483	1.514	8.1	19.9	12 W	6*	—
9 18	11 5.45	+12 51.5	2.495	1.541	9.3	20.0	14 W	8*	—
9 28	11 33.74	+10 16.3	2.508	1.574	10.5	20.1	17 W	11*	—
10 8	12 0.88	+ 7 40.3	2.522	1.612	11.7	20.3	19 W	13*	—
10 18	12 26.92	+ 5 6.9	2.536	1.653	13.0	20.4	22 W	16*	2*
10 28	12 51.92	+ 2 39.1	2.547	1.699	14.3	20.5	25 W	19*	4*
11 7	13 15.93	+ 0 19.2	2.555	1.747	15.6	20.6	28 W	22*	7*
11 17	13 39.00	− 1 50.9	2.558	1.798	17.0	20.7	32 W	25*	11*
11 27	14 1.12	− 3 49.8	2.554	1.851	18.3	20.8	36 W	27*	15*
12 7	14 22.28	− 5 36.7	2.543	1.906	19.6	20.9	41 W	30*	20*
12 17	14 42.45	− 7 11.1	2.525	1.962	20.9	21.0	45 W	31*	25*
12 27	15 1.52	− 8 32.5	2.497	2.019	22.1	21.1	50 W	32*	31*
1 6	15 19.42	− 9 41.3	2.460	2.077	23.1	21.1	56 W	33*	38*
1 16	15 36.00	−10 37.8	2.415	2.135	24.0	21.2	62 W	33*	45*
339847 2005 TK_{23}									
12 23	0 11.97	− 0 15.2	1.365	1.711	35.1	20.4	92 E	45	59*
1 2	0 27.90	+ 2 4.9	1.440	1.693	35.4	20.5	86 E	47	53*
1 12	0 45.73	+ 4 32.4	1.515	1.677	35.4	20.6	81 E	50	48*
1 22	1 5.21	+ 7 4.5	1.590	1.665	35.1	20.7	77 E	52*	43*
2 1	1 26.19	+ 9 38.4	1.664	1.655	34.5	20.7	72 E	53*	39*
2 11	1 48.53	+12 11.1	1.738	1.648	33.7	20.8	68 E	53*	35*
2 21	2 12.13	+14 39.6	1.812	1.645	32.8	20.9	64 E	51*	32*
3 2	2 36.94	+17 0.8	1.886	1.644	31.7	20.9	61 E	49*	29*
3 12	3 2.84	+19 11.7	1.959	1.647	30.4	21.0	57 E	47*	27*
3 22	3 29.74	+21 9.2	2.033	1.653	29.1	21.0	54 E	44*	26*
4 1	3 57.52	+22 50.9	2.107	1.662	27.7	21.1	51 E	41*	24*
4 11	4 26.01	+24 14.5	2.181	1.674	26.2	21.1	47 E	38*	23*
4 21	4 55.02	+25 18.0	2.255	1.689	24.6	21.1	44 E	34*	22*
5 1	5 24.33	+26 0.5	2.330	1.707	22.9	21.2	41 E	30*	21*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
339847 2005 TK_{23} *(continuation)*									
5 11	5 53.68	+26 21.4	2.404	1.727	21.2	21.2	38 E	26*	20*
5 21	6 22.83	+26 21.0	2.478	1.749	19.4	21.3	35 E	22*	19*
5 31	6 51.57	+26 0.0	2.551	1.774	17.6	21.3	32 E	18*	18*
6 10	7 19.69	+25 19.9	2.622	1.800	15.8	21.3	29 E	15*	17*
6 20	7 47.03	+24 22.4	2.692	1.828	13.9	21.4	26 E	11*	15*
6 30	8 13.52	+23 9.6	2.758	1.858	12.0	21.4	22 E	8*	13*
7 10	8 39.07	+21 43.5	2.822	1.888	10.0	21.4	19 E	6*	11*
7 20	9 3.67	+20 6.4	2.881	1.920	8.1	21.4	15 E	3*	8*
7 30	9 27.35	+18 20.4	2.936	1.953	6.1	21.4	12 E	2*	5*
8 9	9 50.13	+16 27.4	2.984	1.986	4.2	21.3	8 E	—	1*
8 19	10 12.06	+14 29.2	3.027	2.020	2.4	21.3	5 E	—	—
8 29	10 33.21	+12 27.6	3.062	2.054	1.6	21.3	3 E	—	—
9 8	10 53.63	+10 24.1	3.089	2.088	2.7	21.4	6 W	—	—
97034 1999 UK_7									
12 23	0 12.22	+35 0.6	1.593	2.078	27.2	18.5	105 E	80	27*
12 28	0 16.41	+34 36.4	1.631	2.065	27.8	18.6	101 E	80	26*
1 2	0 21.42	+34 17.5	1.671	2.051	28.4	18.6	98 E	79	25*
1 7	0 27.17	+34 3.9	1.710	2.037	28.8	18.7	94 E	79	24*
1 12	0 33.61	+33 55.2	1.750	2.022	29.1	18.7	91 E	79*	22*
1 22	0 48.37	+33 51.5	1.827	1.993	29.5	18.8	85 E	77*	20*
2 1	1 5.41	+34 3.6	1.901	1.962	29.5	18.8	79 E	72*	17*
2 11	1 24.49	+34 28.1	1.971	1.930	29.3	18.9	73 E	67*	15*
2 21	1 45.47	+35 1.2	2.035	1.898	28.9	18.9	68 E	62*	13*
3 2	2 8.26	+35 39.2	2.094	1.865	28.2	18.9	63 E	57*	12*
3 12	2 32.76	+36 18.0	2.146	1.831	27.5	18.9	58 E	52*	10*
3 22	2 58.89	+36 53.5	2.192	1.796	26.6	18.9	54 E	48*	10*
4 1	3 26.58	+37 21.5	2.232	1.762	25.7	18.8	50 E	44*	9*
4 11	3 55.66	+37 38.0	2.266	1.727	24.7	18.8	46 E	40*	9*
4 21	4 25.93	+37 39.0	2.294	1.692	23.6	18.8	42 E	36*	9*
5 1	4 57.16	+37 21.1	2.317	1.657	22.4	18.7	39 E	32*	9*
5 11	5 29.00	+36 41.1	2.336	1.622	21.2	18.6	35 E	29*	9*
5 21	6 1.12	+35 37.1	2.350	1.588	19.9	18.6	32 E	25*	10*
5 31	6 33.18	+34 7.6	2.360	1.556	18.5	18.5	29 E	21*	10*
6 10	7 4.85	+32 12.2	2.367	1.524	17.1	18.4	26 E	17*	10*
6 20	7 35.90	+29 51.5	2.372	1.494	15.7	18.3	23 E	13*	10*
6 30	8 6.17	+27 6.5	2.374	1.467	14.1	18.2	21 E	10*	9*
7 10	8 35.57	+23 59.1	2.374	1.441	12.6	18.1	18 E	7*	9*
7 20	9 4.12	+20 31.4	2.372	1.418	11.0	18.0	15 E	4*	8*
7 30	9 31.91	+16 45.9	2.369	1.399	9.4	17.9	13 E	1*	6*
8 9	9 59.04	+12 45.1	2.365	1.383	7.9	17.8	11 E	—	5*
8 19	10 25.71	+ 8 31.9	2.361	1.371	6.6	17.7	9 E	—	3*
8 29	10 52.10	+ 4 9.1	2.357	1.362	5.5	17.7	7 E	—	1*
9 8	11 18.43	− 0 20.1	2.354	1.358	5.0	17.6	7 E	—	—
9 18	11 44.96	− 4 52.4	2.351	1.358	5.0	17.6	7 E	—	—
9 28	12 11.90	− 9 24.2	2.350	1.363	5.6	17.7	8 W	—	—
10 8	12 39.51	−13 51.6	2.350	1.371	6.4	17.7	9 W	—	1*
10 18	13 8.04	−18 10.4	2.353	1.384	7.4	17.8	10 W	—	3*
10 28	13 37.67	−22 16.0	2.357	1.400	8.4	17.9	12 W	—	5*
11 7	14 8.58	−26 3.9	2.364	1.420	9.4	18.0	14 W	—	7*
11 17	14 40.87	−29 29.3	2.373	1.443	10.4	18.0	15 W	—	9*
11 27	15 14.51	−32 27.8	2.383	1.469	11.4	18.1	17 W	—	11*
12 7	15 49.34	−34 55.6	2.394	1.497	12.3	18.2	19 W	—	12*
12 12	16 7.11	−35 57.0	2.400	1.512	12.8	18.3	20 W	—	13*
12 17	16 25.05	−36 49.9	2.406	1.527	13.3	18.3	21 W	—	14*
12 22	16 43.10	−37 34.0	2.411	1.542	13.8	18.3	22 W	—	15*
12 27	17 1.18	−38 9.3	2.416	1.558	14.3	18.4	23 W	—	16*
1 1	17 19.21	−38 35.9	2.420	1.575	14.8	18.4	24 W	—	17*
1 6	17 37.14	−38 54.0	2.424	1.591	15.3	18.5	25 W	—	19*
1 11	17 54.89	−39 3.8	2.427	1.608	15.9	18.5	27 W	—	20*
1 16	18 12.38	−39 5.8	2.429	1.625	16.4	18.6	28 W	—	21*
271366 2003 YE									
12 23	0 12.52	− 5 42.6	1.405	1.716	35.0	20.9	90 E	39	64*
12 28	0 20.44	− 5 46.7	1.441	1.698	35.3	20.9	87 E	39	62*
1 2	0 28.87	− 5 44.5	1.477	1.681	35.5	20.9	84 E	39	59*
1 7	0 37.76	− 5 36.6	1.511	1.664	35.7	21.0	81 E	39	57*
1 12	0 47.08	− 5 23.6	1.544	1.648	35.7	21.0	78 E	40	55*
1 17	0 56.80	− 5 6.0	1.577	1.632	35.6	21.0	75 E	40*	53*
1 22	1 6.90	− 4 44.2	1.608	1.617	35.5	21.0	73 E	40*	51*
1 27	1 17.37	− 4 18.7	1.638	1.603	35.4	21.0	70 E	40*	49*
2 1	1 28.19	− 3 50.0	1.666	1.589	35.1	21.1	68 E	40*	48*
2 6	1 39.34	− 3 18.4	1.693	1.576	34.9	21.1	66 E	40*	46*
2 11	1 50.80	− 2 44.5	1.719	1.563	34.6	21.1	64 E	39*	45*
2 16	2 2.56	− 2 8.7	1.744	1.552	34.3	21.1	62 E	38*	44*
2 21	2 14.63	− 1 31.2	1.767	1.541	33.9	21.1	60 E	37*	43*
2 26	2 26.98	− 0 52.5	1.790	1.531	33.6	21.1	59 E	37*	42*
3 2	2 39.63	− 0 13.1	1.811	1.522	33.2	21.1	57 E	36*	41*
3 7	2 52.55	+ 0 26.8	1.832	1.513	32.8	21.1	56 E	34*	40*
3 12	3 5.73	+ 1 6.6	1.852	1.506	32.4	21.1	54 E	33*	39*
3 17	3 19.17	+ 1 46.1	1.871	1.500	32.0	21.1	53 E	32*	39*

271366 2003 *YE* *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 22	3 32.87	+ 2 24.8	1.889	1.495	31.6	21.1	52 E	31*	38*
3 27	3 46.81	+ 3 2.4	1.908	1.490	31.2	21.1	51 E	29*	38*
4 1	4 0.99	+ 3 38.5	1.926	1.487	30.8	21.1	50 E	28*	38*
4 6	4 15.38	+ 4 12.8	1.944	1.485	30.3	21.1	49 E	26*	37*
4 11	4 29.97	+ 4 44.8	1.962	1.484	29.9	21.1	48 E	25*	37*
4 16	4 44.75	+ 5 14.3	1.981	1.484	29.5	21.1	47 E	23*	36*
4 21	4 59.69	+ 5 41.0	2.000	1.486	29.0	21.1	46 E	21*	36*
4 26	5 14.78	+ 6 4.5	2.019	1.488	28.5	21.1	45 E	20*	36*
5 1	5 29.98	+ 6 24.7	2.040	1.491	28.1	21.2	44 E	18*	35*
5 6	5 45.28	+ 6 41.2	2.061	1.496	27.5	21.2	43 E	16*	35*
5 11	6 0.64	+ 6 54.0	2.083	1.501	27.0	21.2	42 E	14*	35*
5 16	6 16.03	+ 7 2.9	2.106	1.507	26.5	21.2	42 E	13*	34*
5 21	6 31.44	+ 7 7.8	2.130	1.515	25.9	21.2	41 E	11*	34*
5 26	6 46.83	+ 7 8.6	2.155	1.523	25.3	21.2	40 E	9*	33*
5 31	7 2.17	+ 7 5.4	2.181	1.533	24.6	21.3	39 E	7*	32*
6 5	7 17.43	+ 6 58.2	2.208	1.543	23.9	21.3	38 E	6*	32*
6 10	7 32.58	+ 6 47.1	2.237	1.554	23.2	21.3	37 E	4*	31*
6 15	7 47.61	+ 6 32.2	2.266	1.566	22.5	21.3	36 E	3*	30*
6 20	8 2.50	+ 6 13.7	2.297	1.578	21.8	21.4	35 E	1*	29*
6 25	8 17.23	+ 5 51.8	2.328	1.592	21.0	21.4	34 E	—	28*
6 30	8 31.77	+ 5 26.5	2.361	1.606	20.1	21.4	33 E	—	27*
7 5	8 46.13	+ 4 58.3	2.394	1.620	19.3	21.4	32 E	—	26*
7 10	9 0.28	+ 4 27.4	2.427	1.635	18.4	21.4	31 E	—	24*
7 15	9 14.22	+ 3 54.0	2.462	1.651	17.5	21.5	29 E	—	23*
7 20	9 27.96	+ 3 18.3	2.496	1.668	16.6	21.5	28 E	—	21*

226087 2002 NM_{26}

12 23	0 12.69	− 2 58.1	1.557	1.858	31.9	20.7	91 E	42	62*
1 2	0 29.83	− 1 2.0	1.686	1.887	31.3	20.8	86 E	44	56*
1 12	0 47.54	+ 0 57.1	1.816	1.916	30.4	21.0	80 E	46	51*
1 22	1 5.71	+ 2 57.3	1.949	1.945	29.3	21.2	75 E	48*	46*
2 1	1 24.28	+ 4 56.6	2.081	1.976	28.0	21.3	70 E	48*	41*
2 11	1 43.18	+ 6 53.5	2.213	2.007	26.5	21.4	65 E	47*	37*

447926 2008 AO_4

12 23	0 12.73	+10 25.4	1.119	1.571	38.5	20.6	96 E	55	50*
1 2	0 34.27	+12 1.5	1.186	1.565	38.9	20.7	92 E	57	46*
1 12	0 57.64	+13 45.3	1.257	1.564	38.9	20.8	88 E	59	42*
1 22	1 22.53	+15 32.6	1.332	1.568	38.6	20.9	84 E	61*	39*
2 1	1 48.71	+17 19.2	1.411	1.577	38.0	21.1	80 E	62*	36*
2 11	2 15.92	+19 1.2	1.494	1.590	37.2	21.2	77 E	62*	34*
2 21	2 43.93	+20 34.7	1.581	1.607	36.1	21.3	73 E	60*	32*
3 2	3 12.55	+21 56.7	1.673	1.629	34.9	21.4	70 E	59*	31*

443995 2003 XT_{12}

12 23	0 12.95	+16 39.8	1.186	1.653	36.0	20.3	99 E	62	44*
1 2	0 32.82	+18 8.6	1.267	1.656	36.3	20.5	94 E	63	41*
1 12	0 54.56	+19 42.5	1.352	1.663	36.3	20.6	89 E	65	37*
1 22	1 17.84	+21 18.1	1.441	1.673	35.9	20.8	85 E	66*	34*
2 1	1 42.43	+22 52.1	1.534	1.687	35.2	20.9	81 E	67*	31*
2 11	2 8.09	+24 21.5	1.629	1.704	34.3	21.0	77 E	66*	29*
2 21	2 34.60	+25 43.0	1.729	1.724	33.3	21.2	73 E	64*	27*
3 2	3 1.79	+26 54.3	1.831	1.748	32.0	21.3	69 E	61*	26*
3 12	3 29.44	+27 53.2	1.936	1.774	30.7	21.4	66 E	57*	25*

26663 2000 XK_{47}

12 23	0 13.79	+22 1.0	1.181	1.675	35.2	21.0	101 E	67	39*
1 2	0 23.33	+21 2.6	1.230	1.614	37.5	21.1	93 E	66	37*
1 12	0 36.24	+20 31.2	1.274	1.551	39.2	21.1	86 E	66	34*
1 22	0 52.10	+20 22.5	1.311	1.484	40.6	21.1	79 E	64*	31*
2 1	1 10.69	+20 32.0	1.339	1.415	41.8	21.1	73 E	62*	28*
2 11	1 31.86	+20 54.6	1.355	1.344	42.9	21.1	68 E	58*	26*
2 21	1 55.56	+21 24.7	1.360	1.271	44.0	21.0	63 E	55*	24*
3 2	2 21.85	+21 56.3	1.353	1.197	45.2	20.9	59 E	51*	23*
3 12	2 50.79	+22 22.6	1.332	1.124	46.8	20.7	56 E	47*	23*
3 22	3 22.43	+22 35.5	1.298	1.052	48.8	20.6	53 E	44*	23*
4 1	3 56.80	+22 26.1	1.251	0.983	51.4	20.5	50 E	41*	24*
4 6	4 14.96	+22 10.0	1.223	0.952	53.0	20.4	49 E	39*	25*
4 11	4 33.73	+21 44.6	1.193	0.922	54.8	20.3	49 E	37*	26*
4 16	4 53.07	+21 8.7	1.159	0.895	56.8	20.2	48 E	36*	27*
4 21	5 12.92	+20 21.3	1.124	0.871	58.9	20.2	48 E	34*	28*
4 26	5 33.24	+19 21.5	1.086	0.851	61.2	20.1	48 E	32*	30*
5 1	5 53.96	+18 8.5	1.046	0.836	63.6	20.1	48 E	30*	32*
5 6	6 15.03	+16 41.8	1.005	0.824	66.1	20.0	48 E	28*	33*
5 11	6 36.41	+15 1.5	0.964	0.818	68.5	20.0	49 E	26*	35*
5 21	7 20.19	+11 0.7	0.883	0.821	72.8	19.9	51 E	22*	40*
5 31	8 5.78	+ 6 10.1	0.807	0.844	75.7	19.9	54 E	18*	45*
6 10	8 54.09	+ 0 38.3	0.745	0.885	76.5	19.9	58 E	14*	51*

26663 2000 XK_{47} *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
6 15	9 19.58	− 2 18.4	0.720	0.911	76.1	19.8	60 E	12*	54*
6 20	9 46.09	− 5 18.7	0.701	0.939	75.0	19.8	63 E	11*	57*
6 25	10 13.63	− 8 18.7	0.688	0.970	73.4	19.8	66 E	10*	60*
6 30	10 42.06	−11 13.9	0.682	1.003	71.3	19.8	69 E	9*	63*
7 5	11 11.19	−13 59.3	0.683	1.037	69.0	19.8	72 E	9*	66*
7 10	11 40.69	−16 30.3	0.691	1.073	66.4	19.8	75 E	9*	69*
7 15	12 10.19	−18 43.3	0.707	1.109	63.7	19.8	78 E	9*	72*
7 20	12 39.29	−20 36.1	0.730	1.145	61.0	19.9	80 E	9*	74*
7 25	13 7.62	−22 8.4	0.760	1.182	58.3	20.0	82 E	10*	76*
7 30	13 34.85	−23 21.1	0.796	1.219	55.9	20.1	84 E	10*	78*
8 4	14 0.78	−24 15.8	0.837	1.256	53.6	20.2	85 E	11*	79*
8 9	14 25.30	−24 55.1	0.884	1.293	51.4	20.3	86 E	12*	79*
8 14	14 48.37	−25 21.5	0.935	1.329	49.5	20.4	86 E	12*	80*
8 19	15 10.06	−25 37.3	0.991	1.365	47.7	20.6	86 E	13*	80*
8 24	15 30.44	−25 44.7	1.050	1.401	46.0	20.7	86 E	14*	79*
8 29	15 49.62	−25 45.4	1.112	1.436	44.5	20.8	85 E	15*	79*
9 3	16 7.69	−25 40.7	1.177	1.470	43.0	21.0	84 E	15*	78*
9 8	16 24.79	−25 31.6	1.245	1.504	41.7	21.1	83 E	16*	77*
9 13	16 41.02	−25 19.0	1.314	1.537	40.4	21.2	82 E	17*	76*
9 18	16 56.49	−25 3.5	1.385	1.570	39.1	21.3	80 E	17*	74*
9 23	17 11.30	−24 45.6	1.458	1.601	37.9	21.5	79 E	18*	73*

319477 2006 PC_{27}

12 23	0 13.86	− 9 44.6	1.858	2.083	28.2	21.2	89 E	35	67*
1 2	0 27.34	− 7 37.8	2.002	2.113	27.5	21.4	83 E	37	60*
1 12	0 41.60	− 5 29.8	2.145	2.143	26.5	21.5	77 E	40	54*
1 22	0 56.50	− 3 22.0	2.288	2.172	25.3	21.6	71 E	41*	48*
2 1	1 11.94	− 1 15.6	2.427	2.202	23.9	21.8	65 E	41*	43*

304936 2007 SG_2

12 23	0 14.80	−22 28.4	1.447	1.661	36.1	20.6	84 E	23	74*
12 28	0 23.14	−22 12.1	1.476	1.642	36.3	20.6	81 E	23	71*
1 2	0 32.03	−21 49.6	1.504	1.624	36.4	20.6	78 E	23	68*
1 7	0 41.43	−21 21.6	1.530	1.607	36.4	20.6	76 E	24	66*
1 12	0 51.32	−20 48.4	1.555	1.590	36.4	20.6	74 E	24	63*
1 17	1 1.65	−20 10.3	1.578	1.575	36.4	20.7	72 E	25	61*
1 22	1 12.41	−19 27.6	1.599	1.560	36.3	20.7	70 E	25*	59*
1 27	1 23.59	−18 40.6	1.619	1.547	36.2	20.7	68 E	26*	57*
2 1	1 35.15	−17 49.6	1.637	1.535	36.0	20.7	66 E	26*	56*
2 6	1 47.09	−16 55.0	1.654	1.523	35.9	20.7	65 E	27*	54*
2 11	1 59.38	−15 57.1	1.670	1.513	35.7	20.7	63 E	27*	53*
2 16	2 12.01	−14 56.1	1.685	1.505	35.5	20.7	62 E	27*	52*
2 21	2 24.96	−13 52.3	1.699	1.497	35.3	20.7	61 E	27*	51*
2 26	2 38.24	−12 46.1	1.712	1.491	35.1	20.7	60 E	27*	50*
3 2	2 51.83	−11 37.8	1.726	1.486	34.9	20.7	59 E	27*	49*
3 7	3 5.70	−10 28.1	1.739	1.483	34.7	20.7	58 E	26*	49*
3 12	3 19.85	− 9 17.1	1.753	1.481	34.5	20.7	58 E	26*	48*
3 17	3 34.25	− 8 5.5	1.767	1.480	34.3	20.7	57 E	26*	47*
3 22	3 48.90	− 6 53.7	1.782	1.481	34.0	20.7	56 E	25*	47*
3 27	4 3.77	− 5 42.1	1.799	1.483	33.7	20.7	56 E	25*	46*
4 1	4 18.84	− 4 31.5	1.816	1.486	33.4	20.8	55 E	24*	46*
4 6	4 34.08	− 3 22.4	1.836	1.491	33.0	20.8	54 E	23*	45*
4 11	4 49.46	− 2 15.3	1.857	1.497	32.6	20.8	54 E	22*	45*
4 16	5 4.94	− 1 10.8	1.880	1.505	32.1	20.8	53 E	22*	44*
4 21	5 20.52	− 0 9.2	1.905	1.514	31.6	20.8	52 E	21*	44*
4 26	5 36.14	+ 0 48.8	1.932	1.524	31.1	20.9	51 E	20*	43*
5 1	5 51.77	+ 1 42.8	1.961	1.535	30.5	20.9	51 E	18*	43*
5 6	6 7.38	+ 2 32.6	1.993	1.547	29.9	20.9	50 E	17*	42*
5 11	6 22.92	+ 3 17.7	2.027	1.561	29.2	21.0	49 E	16*	41*
5 16	6 38.38	+ 3 58.1	2.063	1.575	28.5	21.0	48 E	14*	40*
5 21	6 53.71	+ 4 33.6	2.101	1.591	27.7	21.1	47 E	13*	40*
5 26	7 8.90	+ 5 4.0	2.141	1.607	26.8	21.1	46 E	12*	39*
5 31	7 23.91	+ 5 29.5	2.183	1.625	26.0	21.1	45 E	10*	38*
6 5	7 38.72	+ 5 50.1	2.226	1.643	25.1	21.2	43 E	9*	37*
6 10	7 53.31	+ 6 5.9	2.271	1.661	24.1	21.2	42 E	7*	36*
6 15	8 7.66	+ 6 17.1	2.317	1.681	23.2	21.3	41 E	6*	34*
6 20	8 21.77	+ 6 23.9	2.364	1.701	22.2	21.3	39 E	5*	33*
6 25	8 35.63	+ 6 26.5	2.411	1.722	21.1	21.3	38 E	4*	31*
6 30	8 49.23	+ 6 25.1	2.460	1.743	20.1	21.4	36 E	2*	30*
7 5	9 2.56	+ 6 20.2	2.508	1.765	19.0	21.4	34 E	2*	28*
7 10	9 15.62	+ 6 11.9	2.557	1.787	17.9	21.4	33 E	1*	27*
7 15	9 28.43	+ 6 0.5	2.605	1.810	16.8	21.5	31 E	—	25*
7 20	9 40.99	+ 5 46.4	2.654	1.833	15.6	21.5	29 E	—	23*

270044 2001 ML_3

12 23	0 15.07	− 1 41.6	1.560	1.876	31.6	20.4	92 E	43	61*
1 2	0 32.20	+ 0 7.9	1.694	1.909	30.9	20.6	87 E	45	56*
1 12	0 49.83	+ 2 0.5	1.831	1.943	30.0	20.8	81 E	47	50*
1 22	1 7.86	+ 3 54.2	1.969	1.978	28.9	20.9	76 E	49*	46*
2 1	1 26.23	+ 5 47.1	2.108	2.013	27.5	21.1	71 E	49*	41*
2 11	1 44.88	+ 7 37.7	2.247	2.048	26.0	21.2	66 E	48*	37*
2 21	2 3.78	+ 9 24.5	2.383	2.084	24.4	21.3	61 E	46*	34*
3 2	2 22.89	+11 6.3	2.517	2.120	22.7	21.4	56 E	43*	31*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
379317 2009 WM_{25}									
12 23	0 15.22	−24 1.7	1.383	1.602	37.6	19.7	83 E	21	75*
12 28	0 25.12	−21 30.2	1.420	1.607	37.3	19.8	82 E	23	72*
1 2	0 35.09	−18 59.3	1.459	1.613	36.9	19.9	80 E	26	68*
1 7	0 45.12	−16 29.7	1.499	1.620	36.5	19.9	78 E	29	65*
1 12	0 55.21	−14 1.9	1.542	1.628	36.0	20.0	77 E	31	62*
1 17	1 5.34	−11 36.4	1.586	1.637	35.5	20.0	75 E	33	58*
1 22	1 15.54	− 9 13.7	1.631	1.646	34.9	20.1	73 E	36*	55*
2 1	1 36.13	− 4 37.9	1.727	1.667	33.7	20.2	70 E	39*	50*
2 11	1 57.00	− 0 17.3	1.827	1.690	32.3	20.3	66 E	42*	45*
2 21	2 18.17	+ 3 46.4	1.932	1.715	30.7	20.4	62 E	43*	40*
3 2	2 39.68	+ 7 31.9	2.039	1.743	29.1	20.5	59 E	42*	36*
3 12	3 1.56	+10 58.5	2.149	1.772	27.3	20.6	55 E	41*	33*
3 22	3 23.80	+14 5.7	2.259	1.803	25.4	20.7	51 E	38*	29*
4 1	3 46.42	+16 53.5	2.368	1.835	23.4	20.8	47 E	35*	26*
4 11	4 9.38	+19 21.9	2.476	1.868	21.4	20.9	43 E	31*	24*
4 21	4 32.65	+21 31.0	2.580	1.902	19.3	20.9	39 E	28*	21*
5 1	4 56.19	+23 21.3	2.681	1.937	17.2	21.0	35 E	24*	18*
5 11	5 19.90	+24 53.3	2.776	1.973	15.0	21.0	30 E	20*	16*
5 21	5 43.72	+26 7.5	2.865	2.008	12.9	21.1	26 E	16*	13*
5 31	6 7.55	+27 4.9	2.947	2.044	10.8	21.1	22 E	12*	10*
6 10	6 31.29	+27 46.1	3.021	2.080	8.8	21.1	18 E	9*	7*
6 20	6 54.84	+28 12.4	3.086	2.116	6.8	21.1	14 E	6*	4*
6 30	7 18.12	+28 25.0	3.143	2.152	5.0	21.1	11 E	4*	—
7 10	7 41.03	+28 25.1	3.190	2.188	3.8	21.1	8 E	2*	—
7 20	8 3.51	+28 14.1	3.226	2.223	3.5	21.1	8 E	1*	—
7 30	8 25.50	+27 53.6	3.252	2.258	4.4	21.2	10 W	3*	—
8 9	8 46.94	+27 25.1	3.266	2.292	5.9	21.3	13 W	7*	—
8 19	9 7.81	+26 50.3	3.270	2.326	7.6	21.5	18 W	12*	—
482533 2012 UA_{34}									
12 23	0 16.26	+48 39.5	0.532	1.266	47.1	20.6	110 E	86	14*
12 25	0 11.39	+47 0.8	0.541	1.253	48.7	20.7	107 E	88	15*
12 27	0 7.30	+45 25.7	0.550	1.239	50.3	20.7	104 E	90	16*
12 29	0 3.88	+43 54.4	0.559	1.225	51.8	20.8	102 E	89	16*
12 31	0 1.03	+42 27.3	0.569	1.211	53.3	20.8	99 E	87	17*
1 2	23 58.67	+41 4.1	0.579	1.196	54.8	20.9	96 E	86	17*
1 4	23 56.73	+39 44.9	0.588	1.180	56.3	20.9	94 E	85	17*
1 6	23 55.14	+38 29.5	0.598	1.163	57.7	21.0	91 E	83*	17*
1 8	23 53.86	+37 17.7	0.608	1.146	59.1	21.0	89 E	81*	17*
1 10	23 52.83	+36 9.3	0.617	1.128	60.5	21.1	86 E	79*	17*
1 12	23 52.01	+35 3.9	0.626	1.110	61.8	21.1	84 E	77*	16*
1 17	23 50.68	+32 32.4	0.646	1.060	65.2	21.2	78 E	72*	15*
1 22	23 49.99	+30 13.7	0.664	1.006	68.8	21.2	72 E	66*	14*
1 27	23 49.50	+28 2.8	0.677	0.946	72.6	21.3	66 E	60*	12*
2 1	23 48.79	+25 53.4	0.686	0.880	76.8	21.3	60 E	54*	10*
2 6	23 47.37	+23 37.5	0.691	0.808	81.9	21.3	54 E	48*	8*
2 11	23 44.68	+21 4.6	0.690	0.729	88.1	21.3	48 E	42*	6*
2 16	23 40.00	+18 0.0	0.686	0.641	96.2	21.4	40 E	34*	3*
141808 2002 NV_{38}									
12 23	0 17.27	+ 7 15.4	1.351	1.756	33.8	19.3	96 E	52	53*
1 2	0 36.59	+ 8 44.8	1.474	1.788	33.4	19.5	91 E	54	49*
1 12	0 56.42	+10 18.1	1.602	1.821	32.6	19.7	86 E	55	45*
1 22	1 16.63	+11 52.9	1.734	1.856	31.6	19.9	81 E	57*	41*
2 1	1 37.18	+13 27.5	1.868	1.891	30.4	20.1	76 E	57*	38*
2 11	1 57.98	+14 59.8	2.003	1.927	29.0	20.2	71 E	56*	34*
2 21	2 19.00	+16 28.1	2.138	1.964	27.5	20.3	66 E	54*	32*
3 2	2 40.21	+17 51.1	2.272	2.001	25.8	20.5	62 E	51*	29*
3 12	3 1.56	+19 7.5	2.405	2.038	24.1	20.6	57 E	47*	27*
3 22	3 23.03	+20 16.2	2.534	2.076	22.2	20.7	52 E	42*	25*
4 1	3 44.57	+21 16.3	2.659	2.113	20.3	20.8	47 E	38*	23*
4 11	4 6.13	+22 7.2	2.779	2.150	18.4	20.8	43 E	33*	21*
4 21	4 27.67	+22 48.3	2.893	2.187	16.3	20.9	38 E	28*	19*
5 1	4 49.13	+23 19.3	3.000	2.223	14.3	20.9	33 E	22*	17*
5 11	5 10.44	+23 40.0	3.099	2.259	12.2	21.0	28 E	17*	15*
5 21	5 31.54	+23 50.5	3.189	2.295	10.1	21.0	23 E	12*	12*
5 31	5 52.38	+23 50.8	3.269	2.330	7.9	21.0	19 E	7*	9*
6 10	6 12.88	+23 41.4	3.338	2.364	5.8	20.9	14 E	3*	6*
6 20	6 33.00	+23 22.5	3.397	2.397	3.7	20.9	9 E	—	2*
6 30	6 52.68	+22 54.7	3.444	2.430	1.6	20.8	4 E	—	—
7 10	7 11.86	+22 18.8	3.478	2.462	0.6	20.8	1 W	—	—
7 20	7 30.51	+21 35.2	3.500	2.493	2.6	21.0	7 W	—	—
7 30	7 48.59	+20 44.9	3.509	2.524	4.7	21.1	12 W	3*	3*
8 9	8 6.06	+19 48.7	3.505	2.553	6.7	21.3	17 W	8*	7*
8 19	8 22.89	+18 47.3	3.486	2.582	8.7	21.4	23 W	13*	10*
8 29	8 39.04	+17 41.7	3.454	2.610	10.6	21.4	28 W	19*	14*
313760 2003 WG_{98}									
12 23	0 17.95	+34 34.5	1.906	2.374	23.5	20.5	106 E	80	28*
12 28	0 22.45	+33 45.3	1.937	2.351	24.1	20.5	102 E	79	27*
1 2	0 27.62	+33 1.1	1.969	2.327	24.7	20.5	99 E	78	27*
1 7	0 33.44	+32 22.0	2.002	2.304	25.2	20.6	95 E	77	26*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
313760 2003 WG_{98} *(continuation)*									
1 12	0 39.83	+31 47.9	2.035	2.280	25.5	20.6	91 E	77	25*
1 17	0 46.77	+31 18.5	2.069	2.256	25.8	20.6	88 E	76*	24*
1 22	0 54.21	+30 53.6	2.103	2.233	26.0	20.6	84 E	75*	23*
1 27	1 2.14	+30 32.9	2.137	2.209	26.1	20.7	81 E	73*	22*
2 1	1 10.52	+30 16.2	2.171	2.185	26.1	20.7	78 E	70*	21*
2 6	1 19.31	+30 2.9	2.203	2.161	26.1	20.7	75 E	67*	20*
2 11	1 28.50	+29 52.8	2.235	2.137	26.0	20.7	71 E	65*	19*
2 16	1 38.07	+29 45.3	2.266	2.113	25.8	20.7	68 E	62*	18*
2 21	1 47.99	+29 40.1	2.295	2.089	25.5	20.7	66 E	59*	17*
2 26	1 58.27	+29 36.8	2.323	2.065	25.2	20.7	63 E	56*	17*
3 2	2 8.88	+29 34.8	2.350	2.042	24.8	20.7	60 E	54*	16*
3 7	2 19.80	+29 33.8	2.376	2.018	24.4	20.6	57 E	51*	15*
3 12	2 31.03	+29 33.4	2.399	1.994	23.9	20.6	55 E	48*	15*
3 17	2 42.55	+29 33.0	2.422	1.971	23.4	20.6	52 E	46*	14*
3 22	2 54.35	+29 32.2	2.442	1.948	22.9	20.6	49 E	43*	14*
3 27	3 6.42	+29 30.8	2.461	1.925	22.3	20.5	47 E	41*	14*
4 1	3 18.75	+29 28.2	2.479	1.902	21.7	20.5	45 E	38*	13*
4 6	3 31.32	+29 24.0	2.495	1.879	21.0	20.5	42 E	36*	13*
4 11	3 44.12	+29 17.9	2.509	1.857	20.3	20.5	40 E	33*	13*
4 21	4 10.34	+28 58.3	2.532	1.813	18.9	20.4	36 E	28*	12*
5 1	4 37.28	+28 26.6	2.550	1.772	17.3	20.3	32 E	24*	12*
5 11	5 4.77	+27 40.3	2.562	1.732	15.7	20.2	28 E	19*	11*
5 21	5 32.66	+26 37.5	2.569	1.694	14.0	20.1	24 E	14*	11*
5 31	6 0.79	+25 16.5	2.571	1.660	12.4	20.0	21 E	10*	10*
6 10	6 28.96	+23 36.5	2.569	1.628	10.7	19.9	17 E	5*	9*
6 20	6 57.07	+21 36.8	2.564	1.600	9.1	19.8	14 E	1*	7*
6 30	7 24.98	+19 17.8	2.557	1.576	7.7	19.7	12 E	—	6*
7 10	7 52.61	+16 39.9	2.548	1.557	6.5	19.6	10 E	—	4*
7 20	8 19.92	+13 44.6	2.539	1.542	5.7	19.5	9 E	—	2*
7 30	8 46.90	+10 33.3	2.529	1.532	5.5	19.5	8 E	—	—
8 9	9 13.56	+ 7 8.4	2.521	1.526	5.8	19.5	9 W	—	—
8 19	9 39.96	+ 3 32.4	2.514	1.527	6.5	19.5	10 W	—	1*
8 29	10 6.17	− 0 12.0	2.509	1.532	7.4	19.6	11 W	—	4*
9 8	10 32.26	− 4 1.5	2.507	1.542	8.4	19.6	13 W	—	6*
9 18	10 58.33	− 7 52.9	2.508	1.557	9.4	19.7	15 W	—	8*
9 28	11 24.45	−11 42.7	2.512	1.577	10.4	19.8	17 W	—	10*
10 8	11 50.71	−15 27.5	2.518	1.601	11.4	19.8	18 W	—	12*
10 18	12 17.17	−19 4.3	2.526	1.630	12.3	19.9	20 W	—	14*
10 28	12 43.88	−22 30.0	2.535	1.661	13.2	20.0	22 W	1*	16*
11 7	13 10.85	−25 41.8	2.544	1.696	14.2	20.1	25 W	2*	19*
11 17	13 38.07	−28 37.9	2.552	1.734	15.1	20.2	27 W	3*	21*
11 27	14 5.47	−31 16.3	2.558	1.773	16.1	20.3	30 W	3*	24*
12 7	14 32.93	−33 35.9	2.560	1.815	17.2	20.3	33 W	4*	27*
12 17	15 0.31	−35 36.2	2.557	1.859	18.3	20.4	36 W	4*	30*
12 27	15 27.38	−37 17.1	2.548	1.904	19.4	20.5	40 W	3*	34*
1 6	15 53.89	−38 39.3	2.531	1.950	20.6	20.6	44 W	3*	38*
1 16	16 19.58	−39 43.9	2.507	1.996	21.7	20.6	49 W	3*	42*
154278 2002 TB_9									
12 23	0 18.14	−12 25.5	1.376	1.672	36.0	19.7	89 E	33	70*
12 28	0 21.78	−12 35.1	1.401	1.631	36.9	19.7	84 E	32	67*
1 2	0 26.21	−12 38.6	1.423	1.589	37.6	19.7	80 E	32	63*
1 7	0 31.39	−12 36.7	1.442	1.547	38.2	19.7	77 E	32	60*
1 12	0 37.27	−12 29.9	1.457	1.504	38.8	19.7	73 E	33	57*
1 22	0 51.04	−12 3.2	1.477	1.415	39.7	19.6	67 E	32*	52*
2 1	1 7.37	−11 21.4	1.479	1.324	40.7	19.5	61 E	31*	47*
2 11	1 26.17	−10 26.6	1.463	1.231	41.9	19.3	56 E	30*	44*
2 21	1 47.48	− 9 19.6	1.427	1.137	43.6	19.1	52 E	28*	41*
3 2	2 11.46	− 7 59.9	1.370	1.044	46.1	18.9	49 E	25*	39*
3 12	2 38.33	− 6 25.4	1.291	0.955	49.8	18.7	47 E	23*	38*
3 17	2 52.94	− 5 30.8	1.245	0.913	52.2	18.6	46 E	22*	37*
3 22	3 8.40	− 4 30.0	1.193	0.873	55.1	18.5	46 E	21*	37*
3 27	3 24.77	− 3 21.3	1.137	0.837	58.4	18.4	46 E	21*	37*
4 1	3 42.09	− 2 2.6	1.076	0.805	62.2	18.3	45 E	20*	37*
4 6	4 0.41	− 0 31.0	1.012	0.778	66.5	18.2	45 E	20*	37*
4 11	4 19.82	+ 1 16.9	0.946	0.757	71.1	18.2	46 E	20*	37*
4 16	4 40.44	+ 3 25.5	0.879	0.744	75.9	18.1	46 E	21*	37*
4 21	5 2.44	+ 5 59.4	0.812	0.738	80.7	18.1	46 E	22*	36*
4 26	5 26.12	+ 9 3.2	0.749	0.740	85.1	18.1	47 E	24*	36*
5 1	5 51.86	+12 40.1	0.690	0.750	88.7	18.1	48 E	26*	35*
5 6	6 20.18	+16 50.3	0.638	0.768	91.3	18.1	50 E	29*	34*
5 11	6 51.74	+21 28.3	0.595	0.792	92.4	18.0	52 E	33*	33*
5 13	7 5.41	+23 24.6	0.581	0.803	92.4	18.0	53 E	35*	32*
5 15	7 19.73	+25 22.1	0.569	0.815	92.1	18.0	54 E	37*	31*
5 17	7 34.74	+27 19.2	0.558	0.828	91.6	18.0	55 E	39*	30*
5 19	7 50.43	+29 14.4	0.550	0.842	90.8	17.9	56 E	41*	30*
5 21	8 6.80	+31 5.7	0.544	0.856	89.8	17.9	58 E	43*	29*
5 23	8 23.82	+32 51.4	0.540	0.871	88.5	17.9	59 E	46*	28*
5 25	8 41.41	+34 29.8	0.538	0.886	87.1	17.9	61 E	48*	27*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
154278 2002 TB_9 *(continuation)*									
5 27	8 59.51	+35 59.2	0.537	0.902	85.5	17.8	63 E	50*	26*
5 29	9 17.97	+37 18.3	0.539	0.919	83.8	17.8	64 E	52*	26*
5 31	9 36.67	+38 26.2	0.543	0.935	82.0	17.8	66 E	54*	25*
6 2	9 55.44	+39 22.2	0.548	0.952	80.1	17.8	68 E	56*	24*
6 4	10 14.12	+40 6.0	0.555	0.970	78.2	17.8	69 E	58*	24*
6 6	10 32.54	+40 38.0	0.564	0.988	76.3	17.8	71 E	60*	23*
6 8	10 50.54	+40 58.5	0.574	1.005	74.4	17.8	73 E	61*	23
6 10	11 8.01	+41 8.3	0.585	1.024	72.5	17.8	74 E	63*	23
6 12	11 24.84	+41 8.3	0.597	1.042	70.7	17.8	76 E	64*	23
6 14	11 40.95	+40 59.5	0.611	1.060	68.9	17.9	77 E	65*	23
6 16	11 56.30	+40 43.0	0.625	1.079	67.2	17.9	78 E	66*	23
6 18	12 10.86	+40 19.9	0.641	1.097	65.5	18.0	79 E	67*	24
6 20	12 24.64	+39 51.0	0.657	1.116	63.9	18.0	81 E	68*	24
6 22	12 37.65	+39 17.5	0.674	1.135	62.4	18.0	82 E	69*	25
6 24	12 49.92	+38 40.0	0.692	1.154	60.9	18.1	83 E	69*	25
6 26	13 1.49	+37 59.2	0.711	1.172	59.5	18.1	83 E	69*	26
6 28	13 12.41	+37 15.9	0.730	1.191	58.1	18.2	84 E	70*	27
6 30	13 22.70	+36 30.6	0.750	1.210	56.8	18.2	85 E	70*	27
7 2	13 32.42	+35 43.7	0.770	1.229	55.6	18.3	86 E	70*	28
7 4	13 41.62	+34 55.6	0.790	1.247	54.4	18.4	86 E	69*	29
7 6	13 50.33	+34 6.7	0.811	1.266	53.3	18.4	87 E	69*	30
7 8	13 58.61	+33 17.1	0.833	1.285	52.2	18.5	87 E	69*	31
7 10	14 6.47	+32 27.2	0.855	1.303	51.2	18.5	88 E	69*	32
7 15	14 24.60	+30 21.9	0.911	1.349	48.9	18.7	89 E	67*	34
7 20	14 40.91	+28 17.5	0.970	1.395	46.8	18.8	89 E	66*	36
7 25	14 55.79	+26 15.4	1.031	1.440	44.9	19.0	89 E	65*	38
7 30	15 9.55	+24 16.8	1.093	1.484	43.2	19.1	89 E	63*	40
8 4	15 22.40	+22 22.1	1.157	1.527	41.6	19.3	89 E	61*	42
8 9	15 34.54	+20 31.8	1.223	1.570	40.2	19.4	89 E	60*	43
8 14	15 46.11	+18 46.1	1.291	1.612	38.9	19.5	88 E	58*	45
8 19	15 57.23	+17 5.1	1.360	1.654	37.7	19.7	87 E	57*	47
8 29	16 18.48	+13 57.8	1.503	1.734	35.5	19.9	85 E	54*	50*
9 8	16 38.79	+11 10.6	1.650	1.811	33.4	20.2	82 E	52*	51*
9 18	16 58.47	+ 8 43.0	1.801	1.885	31.5	20.4	79 E	49*	52*
9 28	17 17.76	+ 6 35.0	1.955	1.955	29.7	20.6	75 E	47*	51*
10 8	17 36.75	+ 4 45.9	2.111	2.023	27.9	20.8	71 E	45*	48*
10 18	17 55.52	+ 3 15.1	2.266	2.088	26.0	21.0	67 E	44*	45*
10 28	18 14.12	+ 2 1.8	2.421	2.149	24.2	21.1	62 E	42*	40*
11 7	18 32.52	+ 1 5.3	2.571	2.208	22.3	21.2	58 E	40*	35*
11 17	18 50.74	+ 0 24.6	2.718	2.264	20.4	21.4	53 E	39*	29*
11 27	19 8.75	− 0 1.2	2.858	2.317	18.5	21.5	48 E	37*	23*
16695 Terryhandley									
12 23	0 18.18	− 4 32.5	1.057	1.466	42.1	19.4	92 E	40	64*
12 28	0 30.87	− 2 47.6	1.101	1.481	41.6	19.5	90 E	42	61*
1 2	0 43.52	− 1 4.0	1.147	1.496	41.1	19.6	89 E	44	58*
1 7	0 56.13	+ 0 37.8	1.195	1.512	40.5	19.7	87 E	46	56*
1 12	1 8.69	+ 2 17.3	1.245	1.529	39.9	19.8	86 E	47	53*
1 22	1 33.70	+ 5 28.1	1.350	1.565	38.6	20.0	83 E	50	49*
2 1	1 58.61	+ 8 26.3	1.461	1.603	37.1	20.2	79 E	53*	45*
2 11	2 23.44	+11 10.1	1.578	1.643	35.6	20.3	76 E	55*	41*
2 21	2 48.20	+13 38.2	1.699	1.685	34.0	20.5	72 E	55*	39*
3 2	3 12.93	+15 50.1	1.824	1.728	32.3	20.7	69 E	54*	36*
3 12	3 37.61	+17 45.1	1.952	1.772	30.5	20.8	65 E	51*	34*
3 22	4 2.21	+19 23.1	2.081	1.817	28.6	20.9	61 E	48*	32*
4 1	4 26.71	+20 44.3	2.210	1.862	26.7	21.1	57 E	45*	30*
4 11	4 51.04	+21 48.8	2.339	1.907	24.7	21.2	53 E	40*	29*
4 21	5 15.15	+22 37.2	2.465	1.952	22.7	21.3	49 E	36*	27*
5 1	5 38.98	+23 10.0	2.588	1.996	20.7	21.4	44 E	31*	26*
5 11	6 2.44	+23 28.0	2.707	2.040	18.6	21.5	40 E	26*	24*
347635 2001 SQ_{277}									
12 23	0 18.19	+11 24.8	1.286	1.726	34.4	20.8	98 E	56	50*
1 2	0 37.54	+12 50.2	1.394	1.746	34.2	21.0	93 E	58	46*
1 12	0 57.90	+14 20.3	1.506	1.768	33.8	21.1	88 E	59	42*
1 22	1 19.06	+15 52.4	1.621	1.793	33.0	21.3	83 E	61*	38*
2 1	1 40.88	+17 24.2	1.740	1.820	32.0	21.5	78 E	61*	35*
137173 1999 JY_4									
12 23	0 18.44	+ 2 10.8	1.980	2.280	25.5	21.0	95 E	47	58*
1 2	0 28.54	+ 3 44.8	2.134	2.307	25.2	21.2	87 E	49	52*
1 12	0 39.92	+ 5 22.5	2.287	2.333	24.6	21.4	80 E	50	46*
1 22	0 52.35	+ 7 2.6	2.438	2.358	23.6	21.5	74 E	51*	41*
2 1	1 5.67	+ 8 44.1	2.586	2.383	22.4	21.6	67 E	50*	35*
137206 1999 LJ_{25}									
12 23	0 19.24	− 6 21.1	1.738	2.017	29.2	20.6	91 E	39	65*
1 2	0 33.12	− 4 9.2	1.883	2.051	28.5	20.8	85 E	41	59*
1 12	0 47.77	− 1 57.6	2.029	2.084	27.6	21.0	79 E	43	53*
1 22	1 3.05	+ 0 12.6	2.175	2.118	26.5	21.1	74 E	45*	47*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
137206 1999 LJ_{25} *(continuation)*									
2 1	1 18.86	+ 2 20.4	2.319	2.151	25.1	21.2	68 E	45*	42*
2 11	1 35.11	+ 4 24.7	2.460	2.184	23.6	21.4	62 E	44*	37*
2 21	1 51.74	+ 6 24.8	2.598	2.217	21.9	21.5	57 E	42*	33*
484096 2006 RE_{36}									
12 23	0 19.64	+ 8 1.2	1.085	1.552	39.0	20.8	97 E	53	53*
1 2	0 39.56	+10 51.0	1.169	1.561	39.0	21.0	93 E	56	48*
1 12	1 1.05	+13 37.3	1.257	1.574	38.7	21.1	88 E	59	43*
1 22	1 23.87	+16 17.3	1.348	1.589	38.0	21.3	84 E	61*	39*
2 1	1 47.87	+18 48.8	1.444	1.608	37.2	21.4	81 E	63*	35*
7092 Cadmus									
12 23	0 20.03	− 8 38.9	1.868	2.120	27.6	19.3	91 E	36	67*
1 2	0 23.51	− 6 43.1	1.918	2.031	28.7	19.3	82 E	38	59*
1 12	0 29.70	− 4 34.7	1.961	1.939	29.2	19.3	74 E	40*	51*
1 22	0 38.35	− 2 14.9	1.994	1.845	29.4	19.2	67 E	42*	44*
2 1	0 49.28	+ 0 15.9	2.014	1.749	29.3	19.1	60 E	41*	37*
2 11	1 2.37	+ 2 57.4	2.021	1.650	29.0	19.0	54 E	39*	32*
2 21	1 17.62	+ 5 49.5	2.013	1.548	28.6	18.8	49 E	37*	27*
3 2	1 35.11	+ 8 52.7	1.989	1.445	28.3	18.6	44 E	34*	22*
3 12	1 55.06	+12 6.6	1.951	1.340	28.1	18.4	39 E	31*	19*
3 22	2 17.84	+15 30.9	1.897	1.235	28.2	18.2	36 E	28*	16*
4 1	2 44.00	+19 4.0	1.829	1.131	28.8	17.9	33 E	25*	13*
4 6	2 58.58	+20 52.9	1.789	1.081	29.4	17.8	32 E	25*	12*
4 11	3 14.32	+22 42.2	1.747	1.031	30.3	17.7	31 E	24*	11*
4 16	3 31.36	+24 31.0	1.702	0.983	31.4	17.6	31 E	23*	11*
4 21	3 49.85	+26 17.7	1.654	0.938	32.9	17.4	30 E	23*	10*
4 26	4 9.95	+28 0.3	1.604	0.896	34.8	17.3	31 E	23*	10*
5 1	4 31.81	+29 36.1	1.551	0.858	37.0	17.2	31 E	23*	10*
5 6	4 55.56	+31 1.6	1.497	0.826	39.6	17.1	31 E	24*	11*
5 11	5 21.25	+32 12.6	1.442	0.800	42.6	17.1	32 E	25*	11*
5 16	5 48.89	+33 4.4	1.387	0.781	45.8	17.0	34 E	25*	12*
5 21	6 18.33	+33 31.8	1.333	0.770	49.1	17.0	35 E	26*	14*
5 26	6 49.28	+33 29.7	1.280	0.767	52.3	17.0	37 E	27*	16*
5 31	7 21.31	+32 53.7	1.232	0.774	55.2	17.0	39 E	28*	18*
6 5	7 53.88	+31 41.1	1.188	0.788	57.6	17.0	41 E	29*	21*
6 10	8 26.40	+29 50.8	1.150	0.811	59.4	17.1	43 E	29*	24*
6 15	8 58.34	+27 24.4	1.121	0.840	60.4	17.1	46 E	29*	27*
6 20	9 29.24	+24 25.8	1.101	0.875	60.6	17.2	49 E	29*	31*
6 25	9 58.79	+21 1.0	1.090	0.915	60.2	17.2	51 E	28*	35*
6 30	10 26.80	+17 17.5	1.090	0.959	59.1	17.3	54 E	27*	39*
7 5	10 53.18	+13 23.4	1.100	1.005	57.5	17.4	57 E	26*	43*
7 10	11 17.96	+ 9 26.5	1.121	1.054	55.6	17.5	59 E	25*	47*
7 15	11 41.21	+ 5 33.6	1.151	1.104	53.5	17.6	61 E	23*	50*
7 20	12 3.06	+ 1 49.7	1.191	1.155	51.3	17.7	63 E	21*	53*
7 25	12 23.64	− 1 41.5	1.239	1.207	49.1	17.8	64 E	20*	55*
7 30	12 43.07	− 4 58.0	1.293	1.259	46.8	17.9	65 E	18*	57*
8 9	13 18.98	−10 43.6	1.422	1.365	42.6	18.2	66 E	15*	59*
8 19	13 51.74	−15 28.9	1.569	1.469	38.7	18.5	65 E	13*	59*
8 29	14 22.07	−19 21.7	1.729	1.572	35.2	18.7	64 E	11*	58*
9 3	14 36.50	−21 1.1	1.813	1.623	33.6	18.8	63 E	10*	57*
9 8	14 50.51	−22 30.5	1.899	1.673	32.0	19.0	62 E	9*	55*
9 13	15 4.16	−23 50.8	1.986	1.722	30.4	19.1	60 E	9*	54*
9 18	15 17.49	−25 3.1	2.074	1.771	28.9	19.2	59 E	8*	52*
9 23	15 30.53	−26 7.9	2.163	1.819	27.5	19.3	57 E	7*	50*
9 28	15 43.31	−27 6.0	2.252	1.867	26.1	19.4	55 E	7*	49*
10 3	15 55.85	−27 57.9	2.340	1.914	24.7	19.5	53 E	6*	47*
10 8	16 8.17	−28 44.1	2.429	1.961	23.3	19.6	51 E	6*	45*
10 13	16 20.30	−29 25.1	2.516	2.006	22.0	19.7	49 E	6*	43*
10 18	16 32.23	−30 1.4	2.603	2.051	20.7	19.8	47 E	5*	40*
10 28	16 55.58	−31 0.8	2.772	2.140	18.1	19.9	42 E	4*	36*
11 7	17 18.25	−31 44.9	2.933	2.226	15.6	20.0	37 E	3*	31*
11 17	17 40.30	−32 15.6	3.086	2.309	13.2	20.1	32 E	2*	26*
11 27	18 1.72	−32 34.7	3.227	2.390	10.8	20.2	27 E	—	21*
12 7	18 22.49	−32 43.6	3.356	2.468	8.5	20.3	22 E	—	16*
12 17	18 42.61	−32 43.9	3.470	2.544	6.4	20.3	17 E	—	11*
12 27	19 2.06	−32 36.8	3.569	2.618	4.7	20.4	13 E	—	6*
1 6	19 20.79	−32 23.8	3.652	2.690	3.7	20.4	10 E	—	2*
1 16	19 38.79	−32 6.0	3.717	2.760	4.1	20.5	11 W	—	2*
383438 2006 VS_{136}									
12 23	0 20.85	− 1 54.6	1.600	1.928	30.6	21.5	93 E	43	62*
1 2	0 35.23	+ 0 28.7	1.736	1.958	30.1	21.7	88 E	45	56*
1 12	0 50.52	+ 2 50.0	1.875	1.989	29.3	21.8	82 E	48	50*
1 22	1 6.56	+ 5 8.5	2.014	2.019	28.2	22.0	76 E	50*	45*
2 1	1 23.23	+ 7 23.2	2.153	2.050	27.0	22.1	71 E	51*	40*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3200 Phaethon									
12 23	0 21.55	+24 8.6	1.773	2.218	25.5	18.7	103 E	69	38*
12 28	0 24.48	+23 21.2	1.864	2.239	25.7	18.9	99 E	68	37*
1 2	0 27.93	+22 42.5	1.955	2.258	25.7	19.0	95 E	68	36*
1 7	0 31.83	+22 11.6	2.046	2.276	25.6	19.1	90 E	67	35*
1 12	0 36.11	+21 47.6	2.137	2.293	25.3	19.2	86 E	67	33*
1 22	0 45.63	+21 17.2	2.314	2.323	24.5	19.4	78 E	65*	29*
2 1	0 56.22	+21 6.4	2.485	2.348	23.3	19.5	71 E	61*	25*
2 11	1 7.64	+21 10.8	2.646	2.368	21.8	19.6	63 E	55*	22*
2 21	1 19.74	+21 27.1	2.794	2.384	20.1	19.7	56 E	49*	18*
3 2	1 32.42	+21 52.6	2.927	2.395	18.2	19.8	49 E	42*	15*
3 12	1 45.59	+22 24.9	3.044	2.401	16.1	19.8	42 E	36*	11*
3 22	1 59.19	+23 2.2	3.143	2.403	13.9	19.8	36 E	29*	8*
4 1	2 13.18	+23 42.9	3.223	2.400	11.7	19.8	29 E	23*	5*
4 11	2 27.53	+24 25.7	3.282	2.392	9.4	19.7	23 E	17*	1*
4 21	2 42.23	+25 9.4	3.321	2.380	7.2	19.6	17 E	11*	—
5 1	2 57.25	+25 53.1	3.339	2.364	5.1	19.5	12 E	6*	—
5 11	3 12.60	+26 35.7	3.336	2.342	3.8	19.4	9 E	1*	—
5 21	3 28.28	+27 16.6	3.311	2.316	3.9	19.4	9 W	3*	—
5 31	3 44.28	+27 55.0	3.265	2.285	5.5	19.4	12 W	5*	1*
6 10	4 0.62	+28 30.2	3.198	2.249	7.7	19.4	17 W	9*	6*
6 20	4 17.33	+29 1.6	3.112	2.208	10.2	19.4	23 W	12*	10*
6 30	4 34.41	+29 28.6	3.006	2.162	12.8	19.4	28 W	17*	14*
7 10	4 51.91	+29 50.4	2.882	2.109	15.4	19.4	33 W	22*	17*
7 20	5 9.88	+30 6.4	2.740	2.052	18.1	19.3	39 W	27*	20*
7 30	5 28.39	+30 15.7	2.583	1.987	20.9	19.2	44 W	33*	22*
8 9	5 47.57	+30 17.2	2.411	1.917	23.8	19.0	50 W	39*	24*
8 19	6 7.59	+30 9.5	2.226	1.839	26.7	18.9	55 W	44*	25*
8 24	6 17.99	+30 1.5	2.129	1.798	28.3	18.8	57 W	47*	26*
8 29	6 28.71	+29 50.4	2.030	1.754	29.8	18.7	60 W	50*	26*
9 3	6 39.80	+29 35.7	1.928	1.709	31.5	18.5	62 W	52*	27*
9 8	6 51.35	+29 16.7	1.825	1.661	33.2	18.4	64 W	55*	28*
9 13	7 3.44	+28 52.7	1.720	1.611	35.0	18.3	67 W	57*	28*
9 18	7 16.19	+28 22.8	1.614	1.559	36.9	18.1	69 W	59*	29*
9 23	7 29.74	+27 45.5	1.506	1.504	38.9	17.9	70 W	60*	29*
9 28	7 44.30	+26 59.1	1.399	1.447	41.2	17.7	72 W	61*	30*
10 3	8 0.11	+26 0.9	1.292	1.386	43.7	17.5	73 W	62*	31*
10 8	8 17.53	+24 47.3	1.185	1.323	46.6	17.3	74 W	62*	31*
10 13	8 36.99	+23 13.5	1.081	1.256	49.9	17.1	74 W	62*	32*
10 18	8 59.05	+21 12.1	0.980	1.185	53.8	16.9	74 W	61*	33*
10 20	9 8.75	+20 13.8	0.941	1.156	55.6	16.8	73 W	60*	33*
10 22	9 19.04	+19 8.9	0.903	1.126	57.5	16.7	73 W	59*	33*
10 24	9 29.97	+17 56.4	0.867	1.095	59.6	16.6	72 W	58*	33*
10 26	9 41.59	+16 35.5	0.831	1.063	61.9	16.5	71 W	57*	34*
10 28	9 53.98	+15 5.2	0.798	1.031	64.3	16.5	69 W	55*	34*
10 30	10 7.18	+13 24.7	0.766	0.998	67.0	16.4	68 W	53*	34*
11 1	10 21.26	+11 33.0	0.737	0.964	69.9	16.3	66 W	51*	34*
11 3	10 36.26	+ 9 29.6	0.711	0.929	73.1	16.3	64 W	49*	33*
11 5	10 52.22	+ 7 14.3	0.688	0.893	76.5	16.2	61 W	46*	33*
11 7	11 9.15	+ 4 47.4	0.669	0.856	80.1	16.2	58 W	43*	32*
11 9	11 27.02	+ 2 9.8	0.653	0.818	83.8	16.2	55 W	40*	32*
11 11	11 45.80	− 0 36.4	0.643	0.779	87.7	16.2	52 W	37*	30*
11 13	12 5.40	− 3 28.5	0.638	0.738	91.7	16.2	48 W	33*	29*
11 15	12 25.69	− 6 22.7	0.638	0.696	95.6	16.3	44 W	29*	27*
11 17	12 46.52	− 9 14.8	0.645	0.653	99.3	16.3	41 W	26*	25*
11 19	13 7.71	−12 0.4	0.658	0.608	102.6	16.4	37 W	22*	23*
11 21	13 29.09	−14 35.6	0.678	0.561	105.4	16.4	33 W	18*	21*
11 23	13 50.51	−16 57.2	0.704	0.512	107.6	16.4	30 W	15*	19*
11 25	14 11.85	−19 2.6	0.738	0.461	108.7	16.3	26 W	12*	17*
11 27	14 33.12	−20 50.5	0.778	0.407	108.6	16.2	23 W	9*	14*
11 29	14 54.41	−22 19.8	0.827	0.351	106.6	15.9	20 W	6*	12*
12 1	15 16.05	−23 29.3	0.883	0.293	101.8	15.4	17 W	4*	10*
12 3	15 38.76	−24 16.9	0.948	0.234	92.2	14.6	14 W	1*	7*
12 5	16 3.93	−24 36.6	1.021	0.178	73.4	13.5	10 W	—	4*
12 7	16 33.55	−24 14.9	1.092	0.143	38.7	12.1	5 W	—	—
12 8	16 49.94	−23 44.7	1.119	0.141	17.0	11.5	2 W	—	—
12 9	17 6.41	−23 3.7	1.137	0.152	4.2	11.2	1 E	—	—
12 10	17 22.18	−22 16.4	1.147	0.173	19.1	12.1	3 E	—	—
12 11	17 36.94	−21 26.2	1.151	0.199	30.3	12.7	6 E	—	—
12 12	17 50.70	−20 34.8	1.154	0.227	38.1	13.2	8 E	1*	—
12 13	18 3.58	−19 43.1	1.154	0.257	43.7	13.6	10 E	3*	1*
12 14	18 15.71	−18 51.4	1.155	0.287	47.6	14.0	12 E	5*	2*
12 15	18 27.21	−18 0.0	1.156	0.316	50.3	14.3	14 E	7*	3*
12 16	18 38.16	−17 8.9	1.157	0.345	52.2	14.5	16 E	8*	4*
12 17	18 48.62	−16 18.3	1.159	0.374	53.5	14.7	18 E	10*	5*
12 19	19 8.30	−14 38.4	1.166	0.429	54.9	15.1	21 E	13*	7*
12 21	19 26.53	−13 0.9	1.176	0.481	55.1	15.4	24 E	15*	8*
12 23	19 43.53	−11 26.3	1.190	0.531	54.7	15.6	26 E	18*	9*
12 25	19 59.44	− 9 54.8	1.207	0.579	53.9	15.8	28 E	20*	10*
12 27	20 14.36	− 8 26.8	1.227	0.626	52.7	16.0	30 E	22*	11*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3200 Phaethon *(continuation)*									
1 1	20 47.90	− 5 3.2	1.287	0.734	49.4	16.3	35 E	26*	12*
1 6	21 16.95	− 2 3.2	1.361	0.833	45.9	16.6	37 E	29*	13*
1 11	21 42.37	+ 0 34.9	1.443	0.925	42.4	16.9	39 E	32*	13*
1 16	22 4.86	+ 2 53.7	1.531	1.011	39.2	17.1	41 E	33*	12*
307064 2002 AR_5									
12 23	0 21.78	−27 13.7	1.409	1.624	37.0	20.6	83 E	18	77*
12 28	0 31.26	−25 13.9	1.455	1.634	36.5	20.7	82 E	20	74*
1 2	0 40.79	−23 14.3	1.502	1.644	36.1	20.7	80 E	22	71*
1 7	0 50.35	−21 15.2	1.549	1.653	35.6	20.8	78 E	24	68*
1 12	0 59.95	−19 17.0	1.596	1.662	35.1	20.9	76 E	26	65*
1 17	1 9.59	−17 19.8	1.644	1.672	34.5	20.9	74 E	28	62*
1 22	1 19.28	−15 24.1	1.693	1.681	33.9	21.0	72 E	30*	59*
1 27	1 29.02	−13 29.9	1.741	1.690	33.3	21.0	70 E	31*	57*
2 1	1 38.82	−11 37.6	1.790	1.699	32.7	21.1	69 E	33*	54*
2 6	1 48.68	− 9 47.4	1.838	1.707	32.0	21.1	67 E	34*	52*
2 11	1 58.59	− 7 59.5	1.887	1.716	31.3	21.2	65 E	35*	49*
2 16	2 8.57	− 6 14.2	1.936	1.724	30.6	21.2	63 E	35*	47*
2 21	2 18.62	− 4 31.4	1.984	1.732	29.9	21.3	61 E	35*	45*
2 26	2 28.75	− 2 51.4	2.032	1.740	29.1	21.3	59 E	35*	43*
3 2	2 38.97	− 1 14.3	2.080	1.747	28.3	21.4	57 E	35*	41*
3 7	2 49.26	+ 0 19.7	2.127	1.755	27.5	21.4	55 E	34*	40*
3 12	2 59.63	+ 1 50.5	2.174	1.762	26.7	21.4	53 E	33*	38*
3 17	3 10.09	+ 3 18.0	2.220	1.769	25.9	21.4	51 E	32*	36*
3 22	3 20.64	+ 4 42.1	2.265	1.775	25.0	21.5	49 E	30*	35*
3 27	3 31.29	+ 6 2.9	2.309	1.782	24.1	21.5	47 E	29*	33*
347593 2001 PX_{21}									
12 23	0 22.36	−24 9.1	1.373	1.616	37.3	19.8	85 E	21	76*
12 28	0 32.39	−22 51.4	1.406	1.612	37.3	19.9	83 E	22	74*
1 2	0 42.72	−21 29.5	1.438	1.608	37.1	19.9	81 E	24	71*
1 7	0 53.30	−20 3.8	1.470	1.606	36.9	20.0	79 E	25	68*
1 12	1 4.12	−18 35.0	1.503	1.605	36.7	20.0	77 E	26	65*
1 17	1 15.15	−17 3.4	1.535	1.604	36.4	20.0	76 E	28	63*
1 22	1 26.36	−15 29.6	1.568	1.605	36.1	20.1	74 E	30	61*
1 27	1 37.76	−13 53.9	1.601	1.606	35.8	20.1	72 E	31*	59*
2 1	1 49.32	−12 17.1	1.634	1.608	35.4	20.2	71 E	32*	57*
2 6	2 1.03	−10 39.4	1.668	1.612	34.9	20.2	69 E	33*	55*
2 11	2 12.87	− 9 1.6	1.702	1.616	34.5	20.2	68 E	34*	53*
2 16	2 24.84	− 7 24.1	1.738	1.621	34.0	20.3	67 E	35*	51*
2 21	2 36.94	− 5 47.4	1.773	1.626	33.5	20.3	65 E	36*	50*
3 2	3 1.48	− 2 38.2	1.848	1.640	32.3	20.4	62 E	36*	47*
3 12	3 26.42	+ 0 22.1	1.925	1.657	31.1	20.5	59 E	35*	44*
3 22	3 51.70	+ 3 10.4	2.007	1.677	29.7	20.5	57 E	34*	42*
4 1	4 17.26	+ 5 43.8	2.092	1.700	28.2	20.6	54 E	32*	39*
4 11	4 43.00	+ 8 0.2	2.180	1.725	26.6	20.7	51 E	29*	37*
4 21	5 8.83	+ 9 58.2	2.270	1.753	25.0	20.8	47 E	26*	35*
5 1	5 34.66	+11 36.7	2.362	1.782	23.2	20.8	44 E	22*	33*
5 11	6 0.35	+12 55.7	2.455	1.813	21.3	20.9	41 E	19*	31*
5 21	6 25.81	+13 55.4	2.547	1.846	19.4	20.9	37 E	15*	28*
5 31	6 50.94	+14 36.6	2.638	1.880	17.4	21.0	34 E	11*	26*
6 10	7 15.64	+15 0.3	2.727	1.915	15.3	21.0	30 E	7*	23*
6 20	7 39.83	+15 8.0	2.812	1.950	13.2	21.1	26 E	4*	19*
6 30	8 3.46	+15 1.2	2.892	1.987	11.1	21.1	22 E	1*	16*
7 10	8 26.48	+14 41.5	2.966	2.024	8.9	21.1	18 E	—	12*
7 20	8 48.88	+14 10.6	3.034	2.061	6.7	21.1	14 E	—	8*
7 30	9 10.64	+13 30.2	3.093	2.098	4.5	21.1	9 E	—	3*
8 9	9 31.76	+12 42.1	3.143	2.135	2.3	21.0	5 E	—	—
8 19	9 52.27	+11 47.8	3.184	2.172	0.5	20.9	1 W	—	—
8 29	10 12.17	+10 49.0	3.214	2.209	2.2	21.1	5 W	—	—
9 8	10 31.49	+ 9 47.2	3.233	2.246	4.3	21.3	10 W	3*	—
9 18	10 50.25	+ 8 43.8	3.240	2.283	6.4	21.4	15 W	8*	3*
480897 2002 QA_7									
12 23	0 22.66	+ 7 59.8	1.146	1.608	37.3	20.8	98 E	53	53*
1 2	0 44.54	+ 9 22.9	1.239	1.624	37.2	21.0	93 E	54	50*
1 12	1 7.25	+10 52.8	1.338	1.642	36.8	21.2	89 E	56	46*
1 22	1 30.58	+12 25.9	1.441	1.664	36.1	21.4	84 E	57	43*
2 1	1 54.40	+13 59.2	1.548	1.688	35.1	21.5	80 E	59*	40*
253106 2002 UR_3									
12 23	0 23.19	−33 48.2	2.361	2.415	23.7	21.5	81 E	11	75*
12 28	0 24.69	−32 7.9	2.433	2.425	23.4	21.6	78 E	13	72*
1 2	0 26.77	−30 30.0	2.505	2.434	22.9	21.6	74 E	15	68*
1 7	0 29.32	−28 54.6	2.576	2.442	22.4	21.7	71 E	16	64*
1 12	0 32.31	−27 21.7	2.646	2.449	21.8	21.7	68 E	18*	60*
346479 2008 UG									
12 23	0 24.01	+18 36.8	1.231	1.729	33.8	19.9	102 E	64	43*
1 2	0 42.37	+20 22.3	1.359	1.770	33.5	20.2	97 E	65	40*
1 12	1 1.75	+22 4.3	1.491	1.812	32.9	20.4	92 E	67	36*
1 22	1 21.94	+23 42.2	1.627	1.855	32.0	20.7	87 E	69*	32*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	346479 2008 *UG*							*(continuation)*	
	h m	° ′			°	m	°	°	°
2 1	1 42.81	+25 15.4	1.767	1.899	30.9	20.9	82 E	69*	29*
2 11	2 4.25	+26 43.1	1.909	1.944	29.7	21.0	77 E	67*	26*
2 21	2 26.14	+28 4.2	2.052	1.988	28.3	21.2	72 E	64*	24*
3 2	2 48.43	+29 18.0	2.196	2.034	26.8	21.4	67 E	60*	22*
3 12	3 11.01	+30 23.7	2.338	2.079	25.1	21.5	63 E	56*	20*
	93040 2000 *SG*								
12 23	0 25.32	+44 1.1	0.879	1.527	37.2	16.1	110 E	89	19*
12 28	0 36.77	+43 51.8	0.899	1.524	37.8	16.2	108 E	89	18*
1 2	0 49.43	+43 43.5	0.921	1.522	38.3	16.3	106 E	89	18*
1 7	1 3.16	+43 35.7	0.943	1.522	38.8	16.3	104 E	89	18*
1 12	1 17.86	+43 27.7	0.967	1.522	39.1	16.4	103 E	88	18*
1 17	1 33.40	+43 18.6	0.993	1.524	39.3	16.5	101 E	88	18*
1 22	1 49.66	+43 7.7	1.020	1.527	39.5	16.5	99 E	88	18*
1 27	2 6.54	+42 54.4	1.048	1.531	39.6	16.6	98 E	88	18*
2 1	2 23.89	+42 38.1	1.079	1.537	39.6	16.7	96 E	88	18*
2 6	2 41.60	+42 18.5	1.111	1.543	39.5	16.7	95 E	87*	18*
2 11	2 59.53	+41 54.9	1.145	1.551	39.4	16.8	93 E	86*	19*
2 16	3 17.55	+41 27.2	1.181	1.560	39.3	16.9	92 E	85*	19*
2 21	3 35.58	+40 55.2	1.219	1.569	39.1	17.0	90 E	83*	20*
2 26	3 53.52	+40 18.9	1.259	1.580	38.8	17.0	88 E	82*	21*
3 2	4 11.27	+39 38.4	1.302	1.592	38.4	17.1	87 E	80*	22*
3 7	4 28.77	+38 54.0	1.346	1.604	38.1	17.2	85 E	78*	23*
3 12	4 45.94	+38 5.8	1.392	1.618	37.6	17.3	84 E	76*	23*
3 17	5 2.75	+37 14.1	1.441	1.632	37.1	17.4	82 E	74*	24*
3 22	5 19.16	+36 19.2	1.491	1.647	36.6	17.4	80 E	72*	25*
3 27	5 35.15	+35 21.4	1.543	1.663	36.0	17.5	79 E	70*	26*
4 1	5 50.73	+34 21.2	1.597	1.680	35.4	17.6	77 E	67*	27*
4 6	6 5.86	+33 18.7	1.652	1.697	34.7	17.7	75 E	65*	28*
4 11	6 20.56	+32 14.2	1.709	1.715	34.0	17.7	73 E	62*	30*
4 16	6 34.83	+31 8.1	1.767	1.733	33.3	17.8	72 E	60*	31*
4 21	6 48.69	+30 0.5	1.826	1.752	32.5	17.9	70 E	57*	31*
4 26	7 2.15	+28 51.6	1.886	1.771	31.7	18.0	68 E	54*	32*
5 1	7 15.24	+27 41.7	1.947	1.791	30.9	18.0	66 E	51*	33*
5 6	7 27.95	+26 31.0	2.009	1.811	30.1	18.1	64 E	48*	34*
5 11	7 40.31	+25 19.5	2.071	1.832	29.2	18.2	62 E	44*	35*
5 21	8 4.07	+22 54.7	2.197	1.874	27.3	18.3	58 E	38*	36*
5 31	8 26.65	+20 28.3	2.323	1.917	25.4	18.4	54 E	31*	36*
6 10	8 48.19	+18 0.8	2.447	1.960	23.5	18.5	50 E	25*	36*
6 20	9 8.81	+15 32.7	2.570	2.005	21.4	18.6	46 E	19*	35*
6 30	9 28.62	+13 4.3	2.689	2.049	19.4	18.7	42 E	14*	33*
7 10	9 47.73	+10 36.0	2.804	2.094	17.3	18.8	38 E	9*	31*
7 20	10 6.22	+ 8 8.0	2.913	2.139	15.1	18.8	33 E	6*	27*
7 30	10 24.17	+ 5 40.5	3.016	2.183	13.0	18.9	29 E	2*	23*
8 9	10 41.64	+ 3 13.8	3.110	2.228	10.9	18.9	25 E	—	18*
8 19	10 58.71	+ 0 48.1	3.196	2.272	8.8	18.9	20 E	—	14*
8 29	11 15.42	− 1 36.5	3.272	2.315	6.8	18.9	16 E	—	9*
9 8	11 31.81	− 3 59.6	3.337	2.358	4.9	18.9	12 E	—	4*
9 18	11 47.92	− 6 21.1	3.391	2.401	3.5	18.9	8 E	—	—
9 28	12 3.76	− 8 40.7	3.432	2.443	3.1	18.9	8 W	—	—
10 8	12 19.34	−10 58.3	3.461	2.484	4.1	19.0	10 W	—	4*
10 18	12 34.69	−13 13.5	3.476	2.524	5.7	19.2	14 W	1*	8*
10 28	12 49.77	−15 26.3	3.478	2.564	7.4	19.3	20 W	6*	12*
11 7	13 4.57	−17 36.4	3.466	2.602	9.3	19.4	25 W	9*	17*
11 17	13 19.04	−19 43.8	3.440	2.640	11.1	19.5	31 W	13*	22*
11 27	13 33.12	−21 48.2	3.401	2.677	12.8	19.5	37 W	15*	28*
12 7	13 46.72	−23 49.6	3.348	2.713	14.4	19.6	43 W	17*	34*
12 17	13 59.73	−25 48.2	3.282	2.748	15.8	19.6	50 W	17*	41*
12 27	14 12.01	−27 43.8	3.205	2.783	17.1	19.7	56 W	17*	48*
1 6	14 23.38	−29 36.6	3.118	2.816	18.2	19.7	63 W	15*	56*
1 16	14 33.63	−31 26.7	3.022	2.848	19.0	19.6	70 W	14	64*
	452384 2002 EV_8								
12 23	0 25.36	+26 26.2	1.055	1.618	35.9	21.1	105 E	71	36*
1 2	0 43.56	+27 4.6	1.159	1.640	36.3	21.4	100 E	72	33*
1 12	1 3.46	+27 50.9	1.265	1.661	36.2	21.6	94 E	73	31*
1 22	1 24.73	+28 42.2	1.373	1.681	35.8	21.8	89 E	74*	28*
2 1	1 47.20	+29 36.0	1.483	1.701	35.2	22.0	85 E	73*	26*
	310535 2001 BJ_{43}								
12 23	0 26.12	+15 52.9	1.008	1.543	38.7	20.0	102 E	61	46*
1 2	0 46.47	+16 9.4	1.072	1.530	39.7	20.1	96 E	61	44*
1 12	1 8.96	+16 42.0	1.137	1.520	40.3	20.3	91 E	62	41*
1 22	1 33.18	+17 25.7	1.205	1.513	40.5	20.4	87 E	62	39*
2 1	1 58.89	+18 16.0	1.274	1.509	40.4	20.5	83 E	63*	37*
2 11	2 25.82	+19 8.3	1.345	1.508	40.0	20.6	79 E	62*	35*
2 21	2 53.74	+19 58.0	1.418	1.510	39.3	20.7	75 E	61*	34*
3 2	3 22.45	+20 41.6	1.493	1.515	38.5	20.8	72 E	59*	34*
3 12	3 51.74	+21 15.6	1.569	1.523	37.5	20.9	69 E	56*	33*
3 22	4 21.39	+21 37.2	1.647	1.533	36.3	21.0	66 E	53*	33*
4 1	4 51.22	+21 44.5	1.726	1.547	35.0	21.1	63 E	49*	33*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	310535 2001 BJ_{43}							*(continuation)*	
	h m	° ′			°	m	°	°	°
4 11	5 20.99	+21 36.0	1.807	1.562	33.6	21.2	60 E	45*	33*
4 21	5 50.50	+21 11.2	1.890	1.580	32.1	21.2	57 E	41*	33*
5 1	6 19.61	+20 30.1	1.973	1.601	30.5	21.3	54 E	36*	34*
5 11	6 48.14	+19 33.2	2.057	1.623	28.9	21.4	51 E	32*	34*
5 21	7 15.99	+18 21.4	2.141	1.646	27.2	21.5	48 E	26*	34*
	385342 2002 *LL*								
12 23	0 26.50	−21 20.0	2.550	2.682	21.5	21.4	87 E	24	77*
1 2	0 35.34	−19 54.4	2.715	2.720	20.8	21.6	80 E	25	69*
1 12	0 45.27	−18 24.6	2.878	2.758	20.0	21.7	73 E	27	61*
1 22	0 56.09	−16 52.6	3.035	2.795	18.9	21.8	67 E	28*	55*
2 1	1 7.65	−15 19.9	3.186	2.831	17.6	21.9	60 E	28*	49*
	332027 2005 PE_3								
12 23	0 26.69	− 6 13.5	1.562	1.889	31.3	20.9	93 E	39	66*
1 2	0 42.68	− 4 6.2	1.695	1.921	30.8	21.1	87 E	41	61*
1 12	0 59.31	− 1 57.0	1.830	1.953	29.9	21.3	82 E	43	55*
1 22	1 16.44	+ 0 11.8	1.967	1.986	28.8	21.4	77 E	45*	50*
2 1	1 34.02	+ 2 18.8	2.104	2.020	27.5	21.6	71 E	46*	45*
	55757 1991 *XN*								
12 23	0 27.25	− 2 12.0	1.376	1.757	33.9	18.7	95 E	43	63*
1 2	0 40.54	+ 0 24.0	1.451	1.735	34.5	18.8	89 E	45	57*
1 12	0 55.99	+ 3 6.5	1.526	1.714	34.7	18.9	83 E	48	51*
1 22	1 13.32	+ 5 52.9	1.601	1.696	34.6	19.0	78 E	51*	45*
2 1	1 32.38	+ 8 40.8	1.675	1.681	34.1	19.1	73 E	52*	40*
2 11	1 53.00	+11 27.4	1.748	1.669	33.5	19.1	69 E	52*	36*
2 21	2 15.10	+14 10.1	1.819	1.659	32.6	19.2	65 E	51*	33*
3 2	2 38.60	+16 45.9	1.889	1.652	31.6	19.2	61 E	50*	30*
3 12	3 3.44	+19 11.9	1.959	1.649	30.5	19.3	57 E	47*	27*
3 22	3 29.52	+21 25.0	2.027	1.649	29.2	19.3	54 E	44*	25*
4 1	3 56.77	+23 22.6	2.096	1.651	27.8	19.3	51 E	41*	24*
4 11	4 25.02	+25 1.9	2.163	1.657	26.4	19.4	47 E	38*	22*
4 21	4 54.11	+26 20.7	2.231	1.666	24.9	19.4	44 E	34*	21*
5 1	5 23.80	+27 17.3	2.298	1.678	23.3	19.4	41 E	31*	20*
5 11	5 53.81	+27 50.8	2.365	1.693	21.7	19.5	38 E	27*	19*
5 21	6 23.87	+28 0.8	2.431	1.710	20.1	19.5	35 E	24*	18*
5 31	6 53.71	+27 48.0	2.497	1.730	18.4	19.5	32 E	20*	17*
6 10	7 23.05	+27 13.5	2.562	1.752	16.6	19.5	30 E	17*	16*
6 20	7 51.70	+26 19.1	2.626	1.776	14.8	19.6	27 E	13*	15*
6 30	8 19.50	+25 7.0	2.688	1.802	13.0	19.6	24 E	11*	13*
7 10	8 46.34	+23 39.6	2.747	1.830	11.2	19.6	20 E	8*	11*
7 20	9 12.19	+21 59.4	2.804	1.859	9.4	19.6	17 E	6*	8*
7 30	9 37.05	+20 8.9	2.857	1.889	7.5	19.6	14 E	4*	6*
8 9	10 0.95	+18 10.4	2.906	1.920	5.8	19.6	11 E	3*	3*
8 19	10 23.94	+16 6.2	2.949	1.952	4.2	19.6	8 E	1*	—
8 29	10 46.09	+13 58.1	2.987	1.985	3.0	19.6	6 E	—	—
9 8	11 7.46	+11 48.0	3.017	2.018	3.0	19.6	6 E	—	—
9 18	11 28.14	+ 9 37.5	3.040	2.052	4.2	19.8	9 W	2*	—
9 28	11 48.17	+ 7 28.2	3.055	2.086	5.8	19.9	12 W	6*	—
10 8	12 7.61	+ 5 21.2	3.061	2.120	7.6	20.0	16 W	10*	—
10 18	12 26.50	+ 3 17.8	3.057	2.154	9.4	20.1	21 W	15*	3*
10 28	12 44.87	+ 1 19.0	3.042	2.188	11.3	20.2	26 W	19*	6*
11 7	13 2.71	− 0 34.1	3.018	2.222	13.1	20.3	31 W	23*	10*
11 17	13 20.03	− 2 20.8	2.982	2.256	14.9	20.4	36 W	27*	15*
11 27	13 36.77	− 4 0.3	2.935	2.289	16.5	20.4	41 W	30*	20*
12 7	13 52.88	− 5 31.8	2.877	2.322	18.1	20.5	47 W	33*	26*
12 17	14 8.27	− 6 54.8	2.809	2.354	19.5	20.5	53 W	35*	33*
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*
	385247 2000 YD_{67}								
12 23	0 27.63	+29 58.8	1.022	1.608	35.9	19.2	107 E	75	33*
12 28	0 40.15	+28 44.9	1.052	1.606	36.4	19.3	104 E	74	33*
1 2	0 52.97	+27 37.0	1.085	1.606	36.8	19.4	102 E	73	34*
1 7	1 6.01	+26 35.0	1.121	1.605	37.2	19.5	99 E	72	34*
1 12	1 19.21	+25 38.6	1.158	1.606	37.4	19.6	97 E	71	34*
1 22	1 45.90	+24 1.1	1.239	1.610	37.7	19.7	92 E	69	35*
2 1	2 12.77	+22 41.6	1.328	1.616	37.5	19.9	87 E	68*	35*
2 11	2 39.63	+21 36.1	1.422	1.626	37.0	20.0	83 E	66*	35*
2 21	3 6.31	+20 40.6	1.520	1.638	36.2	20.2	78 E	63*	35*
3 2	3 32.78	+19 51.6	1.622	1.653	35.2	20.3	74 E	59*	36*
3 12	3 58.95	+19 5.8	1.726	1.670	34.0	20.4	70 E	55*	36*
3 22	4 24.79	+18 20.2	1.831	1.690	32.6	20.5	66 E	51*	36*
4 1	4 50.28	+17 32.7	1.936	1.712	31.0	20.6	62 E	46*	36*
4 11	5 15.40	+16 41.3	2.041	1.736	29.4	20.7	58 E	41*	36*
4 21	5 40.11	+15 44.4	2.144	1.761	27.7	20.8	54 E	36*	36*
5 1	6 4.40	+14 41.2	2.245	1.788	25.9	20.9	51 E	30*	36*
5 11	6 28.25	+13 30.8	2.343	1.816	24.1	21.0	47 E	24*	35*
5 21	6 51.64	+12 12.9	2.438	1.845	22.3	21.0	44 E	18*	34*

385247 2000 YD_{67} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 31	7 14.57	+10 47.3	2.529	1.875	20.5	21.1	40 E	12*	33*
6 10	7 37.02	+ 9 14.1	2.616	1.905	18.7	21.1	37 E	7*	30*
6 20	7 58.99	+ 7 33.6	2.698	1.936	16.9	21.2	34 E	1*	28*
6 30	8 20.50	+ 5 46.1	2.775	1.968	15.2	21.2	30 E	—	24*
7 10	8 41.54	+ 3 52.2	2.847	2.000	13.5	21.3	27 E	—	21*
7 20	9 2.15	+ 1 52.5	2.913	2.032	11.9	21.3	24 E	—	17*
7 30	9 22.34	− 0 12.4	2.973	2.064	10.5	21.3	22 E	—	12*
8 9	9 42.14	− 2 21.8	3.025	2.096	9.2	21.3	19 E	—	8*
8 19	10 1.58	− 4 35.0	3.071	2.127	8.2	21.3	17 E	—	3*
8 29	10 20.68	− 6 51.2	3.108	2.158	7.6	21.4	16 W	—	3*
9 8	10 39.46	− 9 9.6	3.138	2.189	7.4	21.4	16 W	—	7*
9 18	10 57.97	−11 29.6	3.158	2.220	7.8	21.5	17 W	—	10*

377173 2003 UE_7

12 23	0 27.83	− 5 3.2	1.296	1.678	35.8	20.8	94 E	40	65*
1 2	0 46.72	− 1 56.1	1.416	1.713	35.0	21.0	89 E	43	59*
1 12	1 5.93	+ 1 3.4	1.542	1.750	34.0	21.2	85 E	46	54*
1 22	1 25.42	+ 3 54.4	1.671	1.788	32.8	21.4	80 E	49*	49*
2 1	1 45.18	+ 6 36.1	1.804	1.826	31.5	21.5	76 E	51*	44*

136149 2003 SR_{313}

12 23	0 27.84	− 2 34.0	1.460	1.827	32.4	20.2	95 E	42	63*
1 2	0 43.43	+ 0 6.1	1.593	1.861	31.9	20.4	89 E	45	57*
1 12	0 59.78	+ 2 41.6	1.729	1.895	31.1	20.6	84 E	48	52*
1 22	1 16.75	+ 5 11.6	1.867	1.930	30.0	20.8	79 E	50*	46*
2 1	1 34.28	+ 7 35.6	2.007	1.965	28.7	20.9	73 E	51*	41*
2 11	1 52.28	+ 9 52.8	2.146	2.001	27.2	21.1	68 E	51*	37*
2 21	2 10.70	+12 2.6	2.283	2.036	25.7	21.2	63 E	49*	33*
3 2	2 29.52	+14 4.5	2.418	2.071	23.9	21.3	58 E	46*	30*
3 12	2 48.67	+15 57.8	2.549	2.106	22.1	21.4	53 E	42*	27*
3 22	3 8.14	+17 42.1	2.675	2.140	20.2	21.5	48 E	38*	24*

107225 2001 BF_{51}

12 23	0 28.50	+29 36.7	2.464	2.903	18.9	21.2	107 E	75	33*
1 2	0 34.75	+28 47.9	2.593	2.904	19.6	21.4	98 E	74	31*
1 12	0 42.92	+28 16.0	2.726	2.904	19.8	21.5	90 E	73	28*
1 22	0 52.68	+27 59.6	2.859	2.903	19.6	21.6	83 E	72*	25*
2 1	1 3.80	+27 57.1	2.989	2.901	19.2	21.7	75 E	67*	22*

153309 2001 KB_{68}

12 23	0 28.60	−24 37.3	2.693	2.801	20.5	20.6	86 E	20	78*
1 2	0 35.54	−22 26.9	2.835	2.818	20.0	20.7	79 E	23	69*
1 12	0 43.84	−20 16.1	2.975	2.834	19.3	20.8	72 E	25	62*
1 22	0 53.25	−18 6.0	3.110	2.849	18.3	20.9	66 E	26*	54*
2 1	1 3.59	−15 57.7	3.239	2.864	17.2	20.9	59 E	27*	48*
2 11	1 14.69	−13 52.2	3.360	2.877	15.9	21.0	53 E	25*	42*
2 21	1 26.42	−11 50.0	3.471	2.889	14.5	21.0	47 E	23*	37*
3 2	1 38.68	− 9 51.8	3.571	2.901	13.0	21.0	41 E	19*	32*
3 12	1 51.37	− 7 58.2	3.660	2.911	11.5	21.0	36 E	15*	28*
3 22	2 4.41	− 6 9.5	3.737	2.921	9.9	21.0	30 E	10*	24*
4 1	2 17.75	− 4 26.4	3.800	2.930	8.4	21.0	26 E	4*	19*
4 11	2 31.33	− 2 49.1	3.849	2.937	7.1	21.0	21 E	—	15*
4 21	2 45.09	− 1 18.1	3.884	2.944	6.0	21.0	18 E	—	11*
5 1	2 58.99	+ 0 6.3	3.904	2.950	5.5	21.0	16 E	—	6*
5 11	3 12.96	+ 1 23.7	3.910	2.955	5.6	21.0	16 E	—	1*
5 21	3 26.98	+ 2 34.0	3.900	2.959	6.3	21.0	19 W	—	7*
5 31	3 40.97	+ 3 36.9	3.876	2.962	7.4	21.0	22 W	—	13*
6 10	3 54.87	+ 4 32.2	3.838	2.964	8.8	21.1	26 W	—	19*
6 20	4 8.63	+ 5 19.9	3.785	2.965	10.3	21.1	31 W	—	25*
6 30	4 22.17	+ 5 59.8	3.719	2.965	11.8	21.1	37 W	2*	31*
7 10	4 35.39	+ 6 32.0	3.639	2.965	13.3	21.1	42 W	9*	35*
7 20	4 48.21	+ 6 56.6	3.546	2.963	14.7	21.1	48 W	16*	40*
7 30	5 0.50	+ 7 13.8	3.442	2.960	16.1	21.1	54 W	23*	44*
8 9	5 12.15	+ 7 24.0	3.327	2.957	17.3	21.1	60 W	30*	47*
8 19	5 23.01	+ 7 27.6	3.202	2.952	18.4	21.0	67 W	36*	50*
8 29	5 32.89	+ 7 25.3	3.070	2.947	19.2	21.0	73 W	42*	52*
9 8	5 41.60	+ 7 17.9	2.930	2.940	19.8	20.9	81 W	47*	55*
9 18	5 48.92	+ 7 6.3	2.787	2.933	20.0	20.8	88 W	51*	56*
9 28	5 54.58	+ 6 52.1	2.642	2.924	19.9	20.6	96 W	52*	57*
10 8	5 58.30	+ 6 37.0	2.497	2.915	19.4	20.5	105 W	52	57
10 18	5 59.78	+ 6 22.9	2.358	2.905	18.3	20.3	114 W	51	58
10 28	5 58.76	+ 6 12.6	2.227	2.894	16.7	20.1	123 W	51	58
11 7	5 55.06	+ 6 8.9	2.109	2.882	14.5	19.9	133 W	51	58
11 17	5 48.65	+ 6 14.8	2.010	2.869	11.7	19.7	144 W	51	58
11 27	5 39.79	+ 6 33.1	1.934	2.855	8.6	19.5	154 W	52	57
12 7	5 29.10	+ 7 5.6	1.885	2.840	6.0	19.3	162 W	52	57
12 17	5 17.48	+ 7 52.7	1.866	2.824	5.6	19.3	164 E	53	56
12 27	5 6.08	+ 8 53.1	1.878	2.807	8.0	19.4	157 E	54	55
1 6	4 56.02	+10 4.1	1.919	2.790	11.3	19.5	146 E	55	54
1 16	4 48.14	+11 22.6	1.985	2.771	14.5	19.7	135 E	56	53

50867 2000 GM_4

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	0 28.65	− 9 13.3	1.654	1.957	30.1	18.9	92 E	36	69*
1 2	0 40.81	− 8 40.6	1.739	1.926	30.6	18.9	85 E	36	64*
1 12	0 54.91	− 7 50.1	1.820	1.895	30.6	19.0	79 E	37	58*
1 22	1 10.70	− 6 45.4	1.897	1.864	30.3	19.1	73 E	38*	53*
2 1	1 28.00	− 5 29.4	1.969	1.836	29.8	19.1	68 E	38*	49*
2 11	1 46.64	− 4 5.2	2.034	1.808	29.0	19.1	63 E	37*	45*
2 21	2 6.51	− 2 35.4	2.093	1.782	28.1	19.1	58 E	36*	42*
3 2	2 27.54	− 1 2.3	2.145	1.757	27.2	19.1	54 E	33*	39*
3 12	2 49.66	+ 0 31.5	2.193	1.735	26.1	19.1	50 E	30*	37*
3 22	3 12.81	+ 2 3.7	2.235	1.714	25.1	19.1	47 E	27*	35*
4 1	3 36.96	+ 3 31.8	2.273	1.696	24.0	19.1	44 E	24*	33*
4 11	4 2.03	+ 4 53.5	2.308	1.680	22.9	19.0	41 E	20*	31*
4 21	4 27.95	+ 6 6.6	2.340	1.667	21.8	19.0	38 E	16*	30*
5 1	4 54.64	+ 7 8.9	2.371	1.657	20.7	19.0	35 E	12*	28*
5 11	5 21.97	+ 7 58.7	2.401	1.649	19.5	19.0	33 E	8*	26*
5 21	5 49.81	+ 8 34.5	2.431	1.645	18.3	19.0	31 E	5*	24*
5 31	6 18.00	+ 8 55.2	2.462	1.644	17.1	18.9	29 E	1*	22*
6 10	6 46.36	+ 9 0.1	2.493	1.646	15.9	18.9	26 E	—	20*
6 20	7 14.72	+ 8 49.4	2.526	1.650	14.5	18.9	24 E	—	18*
6 30	7 42.94	+ 8 23.4	2.559	1.658	13.1	18.9	22 E	—	15*
7 10	8 10.84	+ 7 43.1	2.594	1.669	11.6	18.9	19 E	—	12*
7 20	8 38.34	+ 6 50.1	2.628	1.682	10.1	18.9	17 E	—	9*
7 30	9 5.33	+ 5 45.7	2.663	1.698	8.6	18.9	14 E	—	6*
8 9	9 31.74	+ 4 32.1	2.696	1.717	7.0	18.8	12 E	—	2*
8 19	9 57.57	+ 3 11.1	2.727	1.738	5.6	18.8	10 E	—	—
8 29	10 22.80	+ 1 44.6	2.756	1.761	4.5	18.8	8 W	—	—
9 8	10 47.44	+ 0 14.8	2.780	1.785	4.1	18.9	7 W	—	1*
9 18	11 11.53	− 1 16.6	2.800	1.812	4.6	18.9	8 W	—	2*
9 28	11 35.08	− 2 47.7	2.814	1.840	5.9	19.0	11 W	1*	4*
10 8	11 58.13	− 4 16.7	2.821	1.869	7.5	19.2	14 W	5*	6*
10 18	12 20.71	− 5 42.1	2.821	1.899	9.4	19.3	18 W	9*	8*
10 28	12 42.84	− 7 2.3	2.813	1.930	11.2	19.4	22 W	13*	11*
11 7	13 4.52	− 8 15.6	2.796	1.962	13.1	19.5	27 W	17*	13*
11 17	13 25.74	− 9 21.0	2.769	1.994	15.0	19.5	32 W	21*	17*
11 27	13 46.45	−10 16.7	2.733	2.027	16.8	19.6	37 W	24*	21*
12 7	14 6.62	−11 1.8	2.688	2.060	18.6	19.7	42 W	27*	25*
12 17	14 26.17	−11 34.9	2.632	2.094	20.2	19.7	47 W	29*	31*
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*

302992 2003 WH_{26}

12 23	0 29.05	−20 39.7	1.525	1.780	33.5	19.5	88 E	24	77*
1 2	0 44.69	−15 30.3	1.651	1.824	32.4	19.7	84 E	29	69*
1 12	1 0.51	−10 43.9	1.786	1.869	31.1	19.8	79 E	34	61*
1 22	1 16.50	− 6 19.9	1.928	1.916	29.7	20.0	74 E	39*	54*
2 1	1 32.71	− 2 17.2	2.074	1.963	28.1	20.2	70 E	42*	48*
2 11	1 49.13	+ 1 25.5	2.223	2.012	26.3	20.3	65 E	43*	42*
2 21	2 5.76	+ 4 49.8	2.373	2.060	24.5	20.5	60 E	42*	37*
3 2	2 22.62	+ 7 57.0	2.522	2.109	22.5	20.6	55 E	40*	33*
3 12	2 39.71	+10 48.4	2.667	2.158	20.5	20.7	49 E	37*	28*
3 22	2 57.00	+13 25.0	2.807	2.206	18.4	20.8	44 E	33*	25*
4 1	3 14.50	+15 47.8	2.941	2.255	16.2	20.9	39 E	29*	21*
4 11	3 32.18	+17 57.6	3.067	2.303	14.0	20.9	34 E	24*	18*
4 21	3 50.02	+19 55.1	3.183	2.351	11.8	21.0	29 E	19*	14*
5 1	4 8.00	+21 40.9	3.290	2.398	9.6	21.0	23 E	14*	10*
5 11	4 26.07	+23 15.7	3.384	2.445	7.4	21.0	18 E	10*	7*
5 21	4 44.20	+24 40.1	3.467	2.491	5.2	21.0	13 E	5*	3*
5 31	5 2.33	+25 54.7	3.536	2.536	3.2	21.0	8 E	1*	—
6 10	5 20.41	+27 0.0	3.592	2.581	1.7	20.9	4 E	—	—
6 20	5 38.39	+27 56.9	3.633	2.624	2.3	21.1	6 W	—	—
6 30	5 56.19	+28 46.2	3.660	2.667	4.0	21.2	11 W	4*	—
7 10	6 13.75	+29 28.6	3.672	2.710	6.0	21.4	16 W	9*	3*
7 20	6 31.01	+30 5.2	3.669	2.751	7.9	21.5	22 W	14*	6*

182260 2001 GA_3

12 23	0 29.90	−20 29.7	2.313	2.480	23.4	21.3	88 E	25	77*
1 2	0 39.34	−18 39.6	2.463	2.508	22.8	21.4	81 E	26	69*
1 12	0 49.95	−16 46.6	2.611	2.535	22.0	21.6	75 E	28	62*
1 22	1 1.50	−14 52.4	2.755	2.562	20.9	21.7	68 E	30*	55*
2 1	1 13.83	−12 58.4	2.894	2.588	19.7	21.8	62 E	30*	49*

137084 1998 XS_{16}

12 23	0 30.30	+32 28.6	0.919	1.539	37.5	18.7	108 E	77	30*
12 28	0 43.12	+30 52.0	0.981	1.564	37.3	18.8	105 E	76	31*
1 2	0 55.36	+29 28.7	1.047	1.587	37.2	19.0	103 E	74	32*
1 7	1 7.13	+28 17.4	1.114	1.610	37.0	19.2	100 E	73	33*
1 12	1 18.51	+27 16.7	1.183	1.631	36.7	19.3	97 E	72	33*
1 17	1 29.58	+26 25.3	1.253	1.651	36.4	19.5	94 E	71	33*
1 22	1 40.41	+25 42.1	1.324	1.670	36.1	19.6	91 E	71	33*

137084 1998 XS_{16} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 1	2 1.55	+24 35.9	1.468	1.704	35.2	19.8	86 E	69*	32*
2 11	2 22.21	+23 50.8	1.611	1.734	34.1	20.0	80 E	67*	31*
2 21	2 42.58	+23 20.6	1.752	1.759	32.7	20.2	74 E	63*	30*
3 2	3 2.82	+23 0.4	1.889	1.779	31.2	20.4	68 E	58*	29*
3 12	3 23.02	+22 46.4	2.018	1.794	29.5	20.5	63 E	53*	28*
3 22	3 43.24	+22 35.1	2.139	1.806	27.6	20.6	57 E	47*	27*
4 1	4 3.55	+22 24.1	2.251	1.812	25.7	20.6	52 E	42*	25*
4 11	4 23.97	+22 11.1	2.351	1.814	23.7	20.7	47 E	36*	24*
4 21	4 44.51	+21 54.0	2.439	1.812	21.5	20.7	41 E	30*	23*
5 1	5 5.22	+21 31.5	2.513	1.805	19.4	20.7	36 E	24*	21*
5 11	5 26.07	+21 1.9	2.574	1.794	17.2	20.6	32 E	18*	19*
5 21	5 47.10	+20 24.0	2.620	1.778	15.0	20.6	27 E	12*	17*
5 31	6 8.31	+19 36.8	2.651	1.758	12.8	20.5	23 E	7*	15*
6 10	6 29.70	+18 39.1	2.667	1.733	10.6	20.4	18 E	2*	12*
6 20	6 51.32	+17 29.9	2.669	1.703	8.6	20.3	14 E	—	8*
6 30	7 13.20	+16 8.2	2.655	1.669	6.7	20.1	11 E	—	5*
7 10	7 35.37	+14 33.1	2.628	1.630	5.4	20.0	9 E	—	1*
7 20	7 57.94	+12 43.6	2.586	1.586	5.1	19.9	8 W	—	—
7 30	8 21.00	+10 38.5	2.532	1.537	5.8	19.8	9 W	—	1*
8 9	8 44.69	+ 8 16.8	2.467	1.483	7.4	19.8	11 W	—	4*
8 19	9 9.24	+ 5 37.4	2.391	1.424	9.3	19.7	13 W	—	7*
8 29	9 34.90	+ 2 39.4	2.306	1.359	11.4	19.6	15 W	—	9*
9 8	10 2.03	− 0 38.0	2.216	1.289	13.5	19.5	17 W	1*	11*
9 18	10 31.15	− 4 14.8	2.121	1.215	15.5	19.3	19 W	2*	13*
9 28	11 2.88	− 8 9.5	2.025	1.135	17.4	19.1	20 W	3*	14*
10 3	11 19.99	−10 12.3	1.978	1.093	18.2	19.0	20 W	3*	14*
10 8	11 38.09	−12 17.8	1.932	1.050	19.0	18.9	20 W	3*	14*
10 13	11 57.33	−14 24.6	1.888	1.007	19.6	18.8	20 W	2*	14*
10 18	12 17.86	−16 31.1	1.845	0.963	20.0	18.6	19 W	2*	13*
10 23	12 39.83	−18 35.0	1.805	0.918	20.2	18.5	19 W	1*	13*
10 28	13 3.40	−20 33.4	1.768	0.873	20.1	18.3	18 W	—	12*
11 2	13 28.69	−22 22.7	1.734	0.829	19.6	18.2	16 W	—	10*
11 7	13 55.80	−23 58.7	1.703	0.786	18.6	18.0	15 W	—	9*
11 12	14 24.72	−25 16.7	1.677	0.745	17.2	17.8	13 W	—	7*
11 17	14 55.34	−26 11.7	1.654	0.707	15.1	17.6	11 W	—	4*
11 22	15 27.42	−26 38.9	1.634	0.673	12.4	17.3	8 W	—	2*
11 27	16 0.55	−26 34.7	1.618	0.645	9.3	17.1	6 W	—	—
12 2	16 34.23	−25 56.9	1.604	0.625	6.3	16.9	4 E	—	—
12 7	17 7.91	−24 45.8	1.593	0.613	5.9	16.8	4 E	—	—
12 12	17 41.07	−23 3.8	1.583	0.611	8.9	16.9	6 E	—	—
12 17	18 13.30	−20 55.5	1.576	0.618	13.2	17.1	8 E	1*	—
12 22	18 44.32	−18 26.5	1.570	0.635	17.5	17.3	11 E	4*	—
12 27	19 14.02	−15 42.7	1.568	0.660	21.3	17.5	14 E	8*	1*
1 1	19 42.38	−12 49.9	1.570	0.691	24.4	17.7	17 E	11*	1*
1 6	20 9.49	− 9 52.7	1.576	0.727	26.8	17.9	19 E	13*	1*
1 11	20 35.41	− 6 55.2	1.587	0.767	28.5	18.1	22 E	16*	1*
1 16	21 0.26	− 4 0.4	1.604	0.809	29.5	18.3	24 E	18*	1*

447976 2008 CT_{116}

12 23	0 30.98	−30 29.0	1.287	1.536	39.6	19.8	84 E	15	78*
12 28	0 41.70	−29 14.1	1.309	1.528	39.6	19.9	82 E	16	76*
1 2	0 52.80	−27 52.9	1.331	1.522	39.6	19.9	81 E	17	74*
1 7	1 4.25	−26 25.8	1.352	1.516	39.6	19.9	79 E	19	72*
1 12	1 16.00	−24 53.5	1.374	1.512	39.5	20.0	78 E	20	70*
1 17	1 28.02	−23 16.1	1.395	1.509	39.3	20.0	77 E	22	68*
1 22	1 40.29	−21 34.4	1.416	1.508	39.2	20.0	75 E	23	66*
1 27	1 52.78	−19 48.8	1.438	1.508	39.0	20.0	74 E	25	64*
2 1	2 5.46	−18 0.0	1.461	1.509	38.7	20.1	73 E	27*	63*
2 6	2 18.33	−16 8.6	1.484	1.512	38.4	20.1	72 E	29*	61*
2 11	2 31.36	−14 15.5	1.509	1.516	38.1	20.1	71 E	30*	59*
2 16	2 44.52	−12 21.4	1.535	1.522	37.7	20.2	70 E	31*	58*
2 21	2 57.82	−10 26.8	1.562	1.528	37.3	20.2	69 E	33*	57*
2 26	3 11.24	− 8 32.8	1.591	1.536	36.9	20.2	69 E	34*	55*
3 2	3 24.77	− 6 40.0	1.622	1.545	36.4	20.3	68 E	34*	54*
3 7	3 38.39	− 4 49.3	1.655	1.556	35.8	20.3	67 E	35*	52*
3 12	3 52.07	− 3 1.4	1.690	1.567	35.3	20.4	66 E	35*	51*
3 17	4 5.82	− 1 17.0	1.727	1.580	34.7	20.4	65 E	35*	50*
3 22	4 19.61	+ 0 23.4	1.766	1.594	34.0	20.5	63 E	35*	49*
4 1	4 47.28	+ 3 29.8	1.851	1.624	32.6	20.6	61 E	35*	46*
4 11	5 14.93	+ 6 14.3	1.943	1.658	31.0	20.7	59 E	33*	44*
4 21	5 42.42	+ 8 34.8	2.043	1.695	29.4	20.8	56 E	31*	42*
5 1	6 9.63	+10 30.5	2.148	1.735	27.5	20.9	53 E	28*	40*
5 11	6 36.40	+12 1.6	2.258	1.777	25.6	21.0	50 E	24*	38*
5 21	7 2.64	+13 9.2	2.371	1.821	23.6	21.1	46 E	21*	35*
5 31	7 28.24	+13 55.1	2.485	1.867	21.5	21.2	42 E	17*	33*
6 10	7 53.14	+14 21.1	2.598	1.914	19.4	21.3	39 E	13*	30*
6 20	8 17.28	+14 29.7	2.710	1.962	17.2	21.3	35 E	10*	27*
6 30	8 40.65	+14 23.1	2.818	2.010	14.9	21.4	31 E	7*	24*
7 10	9 3.24	+14 3.5	2.921	2.059	12.6	21.4	26 E	4*	20*
7 20	9 25.08	+13 33.2	3.017	2.109	10.4	21.5	22 E	2*	16*
7 30	9 46.18	+12 54.0	3.105	2.158	8.1	21.5	17 E	1*	11*

447976 2008 CT_{116} *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
8 9	10 6.58	+12 8.0	3.185	2.208	5.8	21.5	13 E	—	7*
8 19	10 26.32	+11 16.9	3.254	2.257	3.6	21.5	8 E	—	2*
8 29	10 45.44	+10 22.3	3.312	2.306	1.7	21.4	4 E	—	—
9 8	11 3.97	+ 9 25.9	3.359	2.354	1.6	21.5	4 W	—	—

448818 2011 UU_{20}

12 23	0 31.09	+78 50.7	0.552	1.311	43.1	19.0	114 E	56	—
12 25	0 23.54	+78 50.8	0.546	1.302	43.9	18.9	114 E	56	—
12 27	0 17.24	+78 50.3	0.540	1.292	44.6	18.9	113 E	56	—
12 29	0 12.22	+78 49.8	0.534	1.283	45.3	18.9	112 E	56	—
12 31	0 8.47	+78 49.7	0.528	1.274	46.0	18.9	111 E	56	—
1 2	0 6.01	+78 50.3	0.522	1.265	46.7	18.9	111 E	56	—
1 4	0 4.84	+78 52.0	0.516	1.257	47.3	18.8	110 E	56	—
1 6	0 4.97	+78 54.9	0.510	1.249	48.0	18.8	109 E	56*	—
1 8	0 6.42	+78 59.3	0.503	1.241	48.6	18.8	109 E	56*	—
1 10	0 9.25	+79 5.0	0.497	1.233	49.2	18.8	108 E	56*	—
1 12	0 13.52	+79 12.3	0.490	1.226	49.7	18.7	108 E	56*	—
1 13	0 16.22	+79 16.5	0.487	1.223	50.0	18.7	108 E	56*	—
1 14	0 19.33	+79 21.0	0.484	1.220	50.3	18.7	108 E	56*	—
1 15	0 22.86	+79 25.8	0.480	1.217	50.5	18.7	107 E	55*	—
1 16	0 26.82	+79 31.0	0.477	1.213	50.8	18.7	107 E	55*	—
1 17	0 31.25	+79 36.3	0.474	1.210	51.0	18.7	107 E	55*	—
1 18	0 36.16	+79 41.9	0.470	1.207	51.2	18.7	107 E	55*	—
1 19	0 41.57	+79 47.6	0.467	1.205	51.4	18.6	107 E	55*	—
1 20	0 47.52	+79 53.5	0.463	1.202	51.6	18.6	107 E	55*	—
1 21	0 54.04	+79 59.3	0.459	1.199	51.8	18.6	107 E	55*	—
1 22	1 1.14	+80 5.1	0.456	1.197	52.0	18.6	107 E	55*	—
1 23	1 8.85	+80 10.7	0.452	1.194	52.2	18.6	107 E	55*	—
1 24	1 17.21	+80 16.0	0.449	1.192	52.4	18.6	106 E	55*	—
1 25	1 26.23	+80 20.9	0.445	1.190	52.5	18.6	106 E	55*	—
1 26	1 35.92	+80 25.2	0.441	1.188	52.7	18.5	106 E	55*	—
1 27	1 46.30	+80 28.9	0.438	1.186	52.8	18.5	106 E	55*	—
1 28	1 57.37	+80 31.5	0.434	1.184	52.9	18.5	107 E	54*	—
1 29	2 9.10	+80 33.1	0.430	1.182	53.0	18.5	107 E	54	—
1 30	2 21.48	+80 33.4	0.427	1.180	53.1	18.5	107 E	54	—
1 31	2 34.45	+80 32.1	0.423	1.179	53.2	18.4	107 E	54	—
2 1	2 47.96	+80 29.0	0.419	1.177	53.2	18.4	107 E	55	—
2 2	3 1.91	+80 24.0	0.415	1.176	53.3	18.4	107 E	55	—
2 3	3 16.22	+80 16.7	0.412	1.174	53.3	18.4	107 E	55	—
2 4	3 30.76	+80 7.0	0.408	1.173	53.3	18.4	107 E	55	—
2 5	3 45.42	+79 54.8	0.404	1.172	53.3	18.3	107 E	55	—
2 6	4 0.07	+79 39.7	0.401	1.171	53.3	18.3	108 E	55	—
2 7	4 14.59	+79 21.8	0.397	1.171	53.3	18.3	108 E	56	—
2 8	4 28.86	+79 0.8	0.393	1.170	53.2	18.3	108 E	56	—
2 9	4 42.79	+78 36.8	0.390	1.169	53.2	18.2	108 E	56	—
2 10	4 56.27	+78 9.7	0.386	1.169	53.1	18.2	109 E	57	—
2 11	5 9.26	+77 39.5	0.383	1.169	53.0	18.2	109 E	57	—
2 12	5 21.70	+77 6.1	0.379	1.168	52.9	18.2	109 E	58	—
2 13	5 33.55	+76 29.5	0.376	1.168	52.8	18.2	110 E	59	—
2 14	5 44.82	+75 49.9	0.373	1.168	52.6	18.1	110 E	59	—
2 15	5 55.49	+75 7.2	0.369	1.168	52.4	18.1	110 E	60	—
2 16	6 5.58	+74 21.6	0.366	1.169	52.3	18.1	111 E	61	—
2 17	6 15.09	+73 33.0	0.363	1.169	52.0	18.1	111 E	61	—
2 18	6 24.07	+72 41.5	0.360	1.169	51.8	18.0	112 E	62	—
2 19	6 32.53	+71 47.2	0.357	1.170	51.6	18.0	112 E	63	—
2 20	6 40.50	+70 50.1	0.355	1.171	51.3	18.0	112 E	64	—
2 21	6 48.02	+69 50.3	0.352	1.171	51.1	18.0	113 E	65	—
2 22	6 55.11	+68 48.0	0.350	1.172	50.8	17.9	113 E	66	—
2 23	7 1.81	+67 43.0	0.347	1.173	50.5	17.9	114 E	67	—
2 24	7 8.14	+66 35.7	0.345	1.174	50.2	17.9	114 E	68	—
2 25	7 14.12	+65 26.0	0.343	1.176	49.8	17.9	115 E	70	—
2 26	7 19.80	+64 14.0	0.341	1.177	49.5	17.9	115 E	71	—
2 27	7 25.19	+62 59.8	0.340	1.178	49.1	17.8	116 E	72	1
2 28	7 30.31	+61 43.6	0.338	1.180	48.8	17.8	116 E	73	2
2 29	7 35.18	+60 25.4	0.337	1.182	48.4	17.8	117 E	75	4
3 1	7 39.83	+59 5.4	0.336	1.184	48.0	17.8	117 E	76	5
3 2	7 44.26	+57 43.7	0.335	1.185	47.6	17.8	118 E	77	6
3 4	7 52.57	+54 55.8	0.334	1.190	46.9	17.8	119 E	80	9
3 6	8 0.21	+52 3.0	0.334	1.194	46.1	17.8	120 E	83	12
3 8	8 7.29	+49 6.5	0.335	1.199	45.4	17.8	121 E	86	15
3 10	8 13.88	+46 7.7	0.337	1.204	44.6	17.8	122 E	89	18
3 12	8 20.05	+43 8.0	0.340	1.210	44.0	17.8	122 E	88	21
3 14	8 25.86	+40 8.8	0.345	1.216	43.3	17.8	123 E	85	24
3 16	8 31.36	+37 11.4	0.350	1.223	42.8	17.8	123 E	82	27
3 18	8 36.59	+34 17.0	0.357	1.230	42.3	17.9	124 E	79	30
3 20	8 41.60	+31 26.7	0.364	1.237	41.9	17.9	124 E	76	33
3 22	8 46.41	+28 41.3	0.373	1.244	41.5	18.0	124 E	74	35
3 24	8 51.05	+26 1.7	0.383	1.252	41.2	18.0	124 E	71	38
3 26	8 55.55	+23 28.3	0.393	1.261	41.0	18.1	124 E	68	41
3 28	8 59.93	+21 1.6	0.405	1.269	40.8	18.2	124 E	66	43
3 30	9 4.21	+18 41.7	0.418	1.278	40.6	18.2	124 E	64	45
4 1	9 8.39	+16 28.7	0.432	1.287	40.5	18.3	123 E	61	48

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
448818 2011 UU_{20} *(continuation)*									
4 6	9 18.51	+11 25.9	0.469	1.311	40.3	18.5	122 E	56	53
4 11	9 28.28	+ 7 3.1	0.511	1.337	40.2	18.8	121 E	52	57
4 16	9 37.80	+ 3 15.9	0.557	1.364	40.1	19.0	119 E	48	61
4 21	9 47.17	− 0 0.6	0.607	1.392	40.0	19.2	117 E	45	64
4 26	9 56.45	− 2 51.3	0.660	1.421	39.8	19.4	115 E	42	67
5 1	10 5.70	− 5 20.8	0.716	1.451	39.5	19.7	114 E	40*	69
5 6	10 14.94	− 7 32.6	0.774	1.482	39.2	19.9	112 E	37*	72
5 11	10 24.16	− 9 29.8	0.835	1.514	38.8	20.1	110 E	35*	74
5 16	10 33.40	−11 14.9	0.898	1.546	38.4	20.3	108 E	32*	75
5 21	10 42.67	−12 50.1	0.963	1.579	38.0	20.4	106 E	30*	77
5 26	10 51.97	−14 17.2	1.029	1.612	37.5	20.6	104 E	27*	78
5 31	11 1.32	−15 37.6	1.098	1.645	37.0	20.8	102 E	25*	80
6 5	11 10.70	−16 52.4	1.168	1.679	36.5	20.9	100 E	22*	81
6 10	11 20.11	−18 2.5	1.239	1.713	35.9	21.1	98 E	20*	82
6 15	11 29.56	−19 8.7	1.312	1.747	35.3	21.3	96 E	17*	83
6 20	11 39.06	−20 11.5	1.386	1.781	34.7	21.4	94 E	15*	84
428223 2006 WW									
12 23	0 31.85	−30 52.0	0.821	1.215	53.7	18.1	84 E	14	78*
12 25	0 41.35	−28 31.7	0.852	1.246	51.9	18.1	85 E	16	79*
12 27	0 49.97	−26 18.3	0.885	1.276	50.2	18.2	86 E	19	79*
12 29	0 57.84	−24 11.8	0.919	1.307	48.7	18.3	87 E	21	79*
12 31	1 5.06	−22 12.2	0.954	1.337	47.3	18.4	87 E	23	78*
1 2	1 11.75	−20 19.3	0.991	1.367	46.0	18.5	88 E	25	77*
1 7	1 26.55	−16 4.0	1.088	1.439	43.0	18.7	88 E	29	73*
1 12	1 39.31	−12 23.0	1.192	1.510	40.6	19.0	87 E	33	69*
1 17	1 50.62	− 9 10.6	1.299	1.579	38.4	19.2	86 E	36	66*
1 22	2 0.90	− 6 22.1	1.411	1.647	36.5	19.4	85 E	39	62*
1 27	2 10.41	− 3 53.2	1.525	1.712	34.8	19.6	83 E	41	59*
2 1	2 19.37	− 1 40.9	1.641	1.777	33.2	19.8	81 E	43	56*
2 6	2 27.89	+ 0 17.7	1.758	1.839	31.7	20.0	79 E	45*	53*
2 11	2 36.08	+ 2 4.5	1.876	1.901	30.3	20.2	76 E	46*	50*
2 16	2 44.02	+ 3 41.4	1.995	1.960	28.9	20.3	74 E	47*	48*
2 21	2 51.76	+ 5 9.8	2.114	2.019	27.6	20.5	71 E	47*	45*
2 26	2 59.34	+ 6 30.7	2.232	2.077	26.2	20.6	68 E	47*	43*
3 2	3 6.80	+ 7 45.2	2.349	2.133	25.0	20.8	65 E	46*	41*
3 7	3 14.16	+ 8 53.8	2.465	2.188	23.7	20.9	62 E	44*	39*
3 12	3 21.43	+ 9 57.3	2.579	2.242	22.4	21.0	59 E	43*	37*
3 17	3 28.64	+10 56.2	2.692	2.295	21.1	21.1	56 E	41*	35*
3 22	3 35.78	+11 50.9	2.803	2.347	19.9	21.2	53 E	38*	33*
3 27	3 42.87	+12 41.8	2.911	2.398	18.7	21.3	50 E	36*	31*
4 1	3 49.92	+13 29.1	3.016	2.448	17.4	21.4	47 E	33*	29*
4 6	3 56.92	+14 13.3	3.118	2.498	16.2	21.4	44 E	30*	27*
4 11	4 3.87	+14 54.4	3.217	2.546	14.9	21.5	41 E	27*	25*
331848 2003 UB_{262}									
12 23	0 32.31	+ 5 47.4	1.154	1.631	36.5	20.4	99 E	51	56*
1 2	0 52.74	+ 7 9.2	1.252	1.647	36.5	20.6	94 E	52	53*
1 12	1 14.08	+ 8 39.1	1.354	1.665	36.2	20.7	89 E	54	49*
1 22	1 36.09	+10 13.4	1.460	1.686	35.6	20.9	85 E	55	45*
2 1	1 58.68	+11 49.0	1.569	1.708	34.7	21.1	80 E	57*	42*
2 11	2 21.72	+13 22.7	1.681	1.733	33.6	21.2	76 E	57*	39*
2 21	2 45.12	+14 51.8	1.795	1.759	32.3	21.4	72 E	56*	37*
3 2	3 8.81	+16 14.3	1.910	1.787	30.9	21.5	68 E	53*	35*
237610 2001 QB_{142}									
12 23	0 33.92	+ 6 58.5	1.132	1.623	36.7	19.7	100 E	52	55*
1 2	0 51.61	+ 9 23.8	1.215	1.625	37.1	19.9	95 E	54	50*
1 12	1 11.16	+11 50.7	1.302	1.631	37.1	20.0	90 E	57	46*
1 22	1 32.28	+14 16.1	1.392	1.640	36.7	20.2	85 E	59	42*
2 1	1 54.76	+16 37.2	1.485	1.652	36.1	20.3	81 E	61*	38*
2 11	2 18.43	+18 51.1	1.581	1.668	35.2	20.5	77 E	62*	35*
2 21	2 43.10	+20 54.9	1.679	1.686	34.2	20.6	73 E	61*	32*
3 2	3 8.66	+22 46.5	1.780	1.707	32.9	20.7	69 E	59*	30*
3 12	3 34.93	+24 23.7	1.883	1.731	31.6	20.8	66 E	56*	28*
3 22	4 1.74	+25 44.8	1.987	1.757	30.1	20.9	62 E	53*	27*
4 1	4 28.93	+26 48.6	2.092	1.785	28.5	21.0	58 E	49*	26*
4 11	4 56.29	+27 34.3	2.198	1.814	26.8	21.1	55 E	45*	25*
4 21	5 23.63	+28 1.6	2.304	1.846	25.1	21.2	51 E	41*	24*
5 1	5 50.78	+28 11.0	2.409	1.878	23.2	21.3	47 E	36*	24*
5 11	6 17.54	+28 2.8	2.512	1.912	21.4	21.4	44 E	32*	23*
5 21	6 43.76	+27 38.2	2.613	1.947	19.4	21.4	40 E	27*	22*
5 31	7 9.34	+26 58.5	2.711	1.982	17.5	21.5	36 E	22*	21*
397236 2006 KS_{105}									
12 23	0 34.17	+20 42.1	2.078	2.519	22.2	21.3	105 E	66	42*
1 2	0 41.58	+19 43.4	2.173	2.484	23.2	21.4	96 E	65	40*
1 12	0 51.11	+19 4.4	2.270	2.448	23.7	21.4	88 E	64	37*
1 22	1 2.47	+18 43.1	2.366	2.411	23.8	21.5	81 E	63*	34*
2 1	1 15.44	+18 37.1	2.458	2.373	23.4	21.5	73 E	61*	30*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
461747 2005 UV_{155}									
12 23	0 36.25	− 3 20.3	1.697	2.054	28.4	21.1	96 E	42	65*
1 2	0 46.47	− 2 24.1	1.771	2.010	29.3	21.1	89 E	43	60*
1 12	0 58.95	− 1 12.5	1.843	1.968	29.7	21.2	82 E	44	54*
1 22	1 13.44	+ 0 11.8	1.911	1.926	29.7	21.2	76 E	45*	49*
2 1	1 29.77	+ 1 46.2	1.975	1.887	29.4	21.2	70 E	45*	45*
2 11	1 47.74	+ 3 27.8	2.035	1.849	28.9	21.2	65 E	45*	41*
2 21	2 7.24	+ 5 14.1	2.089	1.814	28.2	21.2	60 E	43*	37*
3 2	2 28.20	+ 7 2.4	2.139	1.781	27.4	21.2	56 E	40*	34*
3 12	2 50.52	+ 8 50.1	2.184	1.751	26.4	21.2	52 E	37*	32*
3 22	3 14.14	+10 34.2	2.226	1.724	25.4	21.2	48 E	34*	30*
4 1	3 39.00	+12 12.0	2.265	1.701	24.3	21.2	44 E	30*	28*
4 11	4 5.01	+13 40.6	2.302	1.681	23.1	21.1	41 E	27*	26*
4 21	4 32.07	+14 57.2	2.337	1.666	21.9	21.1	38 E	23*	25*
5 1	5 0.04	+15 59.3	2.372	1.655	20.6	21.1	35 E	19*	24*
5 11	5 28.73	+16 44.7	2.407	1.648	19.3	21.1	33 E	16*	22*
5 21	5 57.93	+17 11.8	2.443	1.645	17.9	21.1	30 E	12*	21*
5 31	6 27.43	+17 19.6	2.480	1.648	16.5	21.0	27 E	8*	20*
6 10	6 56.95	+17 7.8	2.519	1.654	15.0	21.0	25 E	5*	18*
6 20	7 26.29	+16 36.8	2.559	1.666	13.5	21.0	22 E	2*	16*
6 30	7 55.23	+15 47.7	2.601	1.681	11.9	21.0	20 E	—	14*
7 10	8 23.59	+14 42.2	2.644	1.701	10.3	21.0	17 E	—	11*
7 20	8 51.25	+13 22.5	2.688	1.724	8.6	21.0	15 E	—	9*
7 30	9 18.12	+11 50.7	2.732	1.751	6.8	21.0	12 E	—	6*
8 9	9 44.16	+10 9.4	2.775	1.781	5.0	21.0	9 E	—	3*
8 19	10 9.36	+ 8 20.9	2.817	1.813	3.3	21.0	6 E	—	—
8 29	10 33.74	+ 6 27.6	2.857	1.849	1.6	20.9	3 E	—	—
9 8	10 57.33	+ 4 31.7	2.892	1.886	1.4	21.0	3 W	—	—
9 18	11 20.18	+ 2 35.1	2.924	1.926	2.9	21.2	6 W	—	—
9 28	11 42.33	+ 0 39.5	2.949	1.967	4.8	21.3	9 W	2*	1*
10 8	12 3.81	− 1 13.2	2.968	2.010	6.7	21.5	14 W	6*	3*
434640 2005 WE_{144}									
12 23	0 36.54	− 1 55.0	1.314	1.735	34.2	20.9	97 E	43	64*
1 2	0 54.54	+ 0 1.8	1.424	1.756	34.0	21.1	92 E	45	59*
1 12	1 13.37	+ 2 3.6	1.539	1.779	33.5	21.3	87 E	47	54*
1 22	1 32.85	+ 4 7.1	1.656	1.803	32.7	21.5	82 E	49	50*
2 1	1 52.90	+ 6 9.8	1.776	1.830	31.7	21.6	77 E	51*	46*
373428 1999 TC_5									
12 23	0 37.05	−55 27.0	0.540	0.997	72.8	19.6	76 E	—	59*
12 28	0 43.72	−57 32.0	0.539	0.973	75.1	19.6	73 E	—	57*
1 2	0 51.14	−59 37.5	0.533	0.952	77.2	19.6	71 E	—	54*
1 7	0 59.14	−61 45.9	0.525	0.936	79.2	19.6	69 E	—	51*
1 12	1 7.55	−63 58.9	0.513	0.923	81.0	19.6	68 E	—	49*
1 17	1 16.29	−66 18.2	0.497	0.915	82.6	19.6	67 E	—	46*
1 22	1 25.37	−68 45.2	0.479	0.912	83.9	19.5	67 E	—	44*
1 24	1 29.14	−69 46.5	0.471	0.912	84.3	19.5	67 E	—	43*
1 26	1 33.03	−70 49.6	0.462	0.913	84.7	19.5	67 E	—	42*
1 28	1 37.07	−71 54.6	0.453	0.915	85.0	19.5	68 E	—	41*
1 30	1 41.33	−73 1.7	0.443	0.917	85.2	19.4	68 E	—	40*
2 1	1 45.89	−74 11.1	0.434	0.920	85.4	19.4	69 E	—	39*
2 2	1 48.31	−74 46.7	0.428	0.922	85.4	19.4	69 E	—	38*
2 3	1 50.87	−75 23.0	0.423	0.924	85.4	19.4	69 E	—	38*
2 4	1 53.57	−75 59.9	0.418	0.926	85.4	19.3	70 E	—	37*
2 5	1 56.46	−76 37.6	0.413	0.929	85.4	19.3	70 E	—	37*
2 6	1 59.57	−77 16.0	0.407	0.932	85.3	19.3	70 E	—	36*
2 7	2 2.96	−77 55.2	0.402	0.934	85.3	19.3	71 E	—	36*
2 8	2 6.69	−78 35.2	0.396	0.937	85.1	19.2	71 E	—	35*
2 9	2 10.86	−79 16.1	0.391	0.940	85.0	19.2	72 E	—	35*
2 10	2 15.57	−79 57.7	0.385	0.944	84.8	19.2	72 E	—	34*
2 11	2 21.00	−80 40.3	0.379	0.947	84.6	19.1	73 E	—	34*
2 12	2 27.36	−81 23.6	0.374	0.951	84.4	19.1	73 E	—	33*
2 13	2 34.97	−82 7.8	0.368	0.954	84.1	19.1	74 E	—	33*
2 14	2 44.30	−82 52.7	0.362	0.958	83.8	19.0	75 E	—	32*
2 15	2 56.04	−83 38.0	0.356	0.962	83.5	19.0	76 E	—	32*
2 16	3 11.30	−84 23.6	0.350	0.967	83.1	19.0	76 E	—	31*
2 17	3 31.84	−85 8.6	0.344	0.971	82.7	18.9	77 E	—	31*
2 18	4 0.55	−85 51.8	0.338	0.976	82.2	18.9	78 E	—	30*
2 19	4 41.98	−86 30.9	0.332	0.980	81.7	18.8	79 E	—	29*
2 20	5 41.84	−87 1.2	0.326	0.985	81.1	18.8	80 E	—	29
2 21	7 1.41	−87 15.5	0.320	0.990	80.5	18.7	81 E	—	29
2 22	8 27.24	−87 7.2	0.314	0.995	79.8	18.7	82 E	—	29
2 23	9 39.05	−86 36.9	0.308	1.000	79.1	18.6	83 E	—	29
2 24	10 30.34	−85 50.3	0.302	1.006	78.3	18.5	84 W	—	30
2 25	11 5.49	−84 52.9	0.296	1.011	77.4	18.5	86 W	—	31
2 26	11 29.98	−83 47.6	0.290	1.016	76.5	18.4	87 W	—	32
2 27	11 47.61	−82 36.3	0.284	1.022	75.5	18.4	88 W	—	33
2 28	12 0.73	−81 19.7	0.278	1.028	74.5	18.3	90 W	—	35
2 29	12 10.79	−79 58.1	0.273	1.034	73.3	18.2	91 W	—	36
3 1	12 18.67	−78 31.8	0.267	1.040	72.1	18.1	93 W	—	37
3 2	12 24.99	−77 0.7	0.262	1.046	70.8	18.1	95 W	—	39

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
373428 1999 TC_5 *(continuation)*									
3 3	12 30.13	−75 24.6	0.256	1.052	69.4	18.0	97 W	—	41
3 4	12 34.36	−73 43.6	0.251	1.058	68.0	17.9	98 W	—	42
3 5	12 37.88	−71 57.5	0.246	1.064	66.4	17.8	100 W	—	44
3 6	12 40.85	−70 6.2	0.241	1.071	64.7	17.8	103 W	—	46
3 7	12 43.35	−68 9.5	0.237	1.077	62.9	17.7	105 W	—	48
3 8	12 45.47	−66 7.4	0.233	1.084	61.1	17.6	107 W	—	50
3 9	12 47.28	−63 59.8	0.228	1.091	59.1	17.5	109 W	—	52
3 10	12 48.83	−61 46.8	0.225	1.097	57.0	17.4	112 W	—	54
3 11	12 50.15	−59 28.5	0.221	1.104	54.9	17.3	115 W	—	57
3 12	12 51.27	−57 5.0	0.218	1.111	52.6	17.3	117 W	—	59
3 14	12 53.04	−52 3.5	0.213	1.125	47.8	17.1	123 W	—	64
3 16	12 54.30	−46 45.8	0.210	1.139	42.7	17.0	129 W	—	69
3 18	12 55.16	−41 16.8	0.209	1.153	37.3	16.8	135 W	4	75
3 20	12 55.73	−35 42.7	0.210	1.168	31.9	16.7	142 W	9	80
3 22	12 56.07	−30 10.7	0.213	1.183	26.4	16.6	148 W	15	86
3 23	12 56.17	−27 27.6	0.215	1.190	23.7	16.6	151 W	18	89
3 24	12 56.23	−24 47.7	0.218	1.198	21.1	16.5	154 W	20	89
3 25	12 56.26	−22 11.5	0.222	1.205	18.5	16.5	157 W	23	86
3 26	12 56.27	−19 39.9	0.226	1.213	16.0	16.5	160 W	25	84
3 27	12 56.26	−17 13.2	0.230	1.220	13.6	16.4	163 W	28	81
3 28	12 56.22	−14 52.0	0.235	1.228	11.2	16.4	166 W	30	79
3 29	12 56.18	−12 36.5	0.241	1.236	9.0	16.4	169 W	32	77
3 30	12 56.12	−10 26.9	0.247	1.243	6.8	16.3	171 W	35	74
3 31	12 56.05	− 8 23.5	0.253	1.251	4.9	16.3	174 W	37	72
4 1	12 55.98	− 6 26.1	0.260	1.259	3.1	16.3	176 W	39	70
4 6	12 55.64	+ 1 51.8	0.299	1.298	6.5	16.8	172 E	47	62
4 11	12 55.45	+ 7 58.9	0.346	1.337	12.9	17.5	163 E	53	56
4 16	12 55.54	+12 23.7	0.399	1.376	17.8	18.0	155 E	57	52
4 21	12 56.02	+15 31.6	0.457	1.416	21.5	18.5	149 E	61	48
4 23	12 56.33	+16 29.8	0.481	1.432	22.7	18.7	147 E	61	48
4 25	12 56.72	+17 19.9	0.506	1.448	23.8	18.8	144 E	62	47
4 27	12 57.18	+18 2.8	0.531	1.463	24.8	19.0	142 E	63	46
4 29	12 57.73	+18 39.2	0.557	1.479	25.7	19.2	140 E	64	45
5 1	12 58.35	+19 9.9	0.583	1.495	26.5	19.3	139 E	64	45
5 6	13 0.24	+20 5.5	0.650	1.534	28.2	19.6	134 E	65	44
5 11	13 2.58	+20 36.6	0.720	1.573	29.4	20.0	130 E	66	43
5 16	13 5.34	+20 48.9	0.792	1.612	30.3	20.2	126 E	66	43
5 21	13 8.50	+20 46.5	0.866	1.651	31.0	20.5	123 E	66	43
5 26	13 12.04	+20 32.5	0.942	1.689	31.5	20.8	119 E	66	43
5 31	13 15.94	+20 9.5	1.019	1.726	31.8	21.0	116 E	65	44
6 5	13 20.16	+19 39.4	1.098	1.763	32.0	21.2	113 E	65	44
6 10	13 24.67	+19 3.8	1.178	1.800	32.0	21.4	110 E	64*	45
393364 1999 RK_1									
12 23	0 37.45	+64 8.5	0.943	1.623	33.4	19.2	115 E	71	—
12 28	0 47.28	+63 40.0	0.972	1.633	33.6	19.3	113 E	71	—
1 2	0 59.02	+63 12.1	1.002	1.644	33.7	19.4	112 E	72	—
1 7	1 12.41	+62 44.6	1.033	1.655	33.9	19.5	110 E	72	—
1 12	1 27.19	+62 16.7	1.065	1.667	34.0	19.6	109 E	73	—
1 17	1 43.12	+61 47.8	1.099	1.679	34.0	19.6	107 E	73	1*
1 22	2 0.01	+61 17.2	1.134	1.692	34.0	19.7	106 E	74	1*
1 27	2 17.65	+60 44.2	1.171	1.705	34.0	19.8	104 E	74	2*
2 1	2 35.85	+60 8.4	1.209	1.719	34.0	19.9	103 E	75	2*
2 6	2 54.40	+59 29.3	1.249	1.734	33.9	20.0	101 E	76	3*
2 11	3 13.12	+58 46.7	1.291	1.748	33.8	20.1	99 E	76	4*
2 16	3 31.85	+58 0.2	1.334	1.764	33.7	20.2	98 E	77*	5*
2 21	3 50.46	+57 9.8	1.380	1.779	33.6	20.3	96 E	78*	5*
2 26	4 8.85	+56 15.7	1.427	1.795	33.4	20.3	94 E	78*	6*
3 2	4 26.91	+55 17.9	1.476	1.811	33.1	20.4	92 E	79*	7*
3 7	4 44.57	+54 16.8	1.526	1.828	32.9	20.5	90 E	79*	9*
3 12	5 1.77	+53 12.6	1.579	1.845	32.6	20.6	89 E	79*	10*
3 17	5 18.47	+52 5.6	1.633	1.861	32.2	20.7	87 E	78*	11*
3 22	5 34.66	+50 56.0	1.688	1.879	31.9	20.8	85 E	77*	12*
3 27	5 50.34	+49 44.3	1.746	1.896	31.5	20.8	83 E	76*	13*
4 1	6 5.51	+48 30.7	1.804	1.913	31.0	20.9	81 E	74*	14*
4 6	6 20.17	+47 15.7	1.864	1.931	30.5	21.0	78 E	72*	16*
4 11	6 34.33	+45 59.4	1.925	1.949	30.0	21.1	76 E	70*	17*
4 16	6 48.02	+44 42.0	1.986	1.966	29.4	21.1	74 E	68*	18*
4 21	7 1.26	+43 23.8	2.049	1.984	28.8	21.2	72 E	65*	19*
4 26	7 14.07	+42 5.0	2.112	2.002	28.2	21.3	70 E	62*	20*
5 1	7 26.48	+40 45.7	2.176	2.020	27.5	21.3	68 E	59*	22*
5 6	7 38.50	+39 26.2	2.240	2.038	26.7	21.4	65 E	56*	23*
5 11	7 50.16	+38 6.5	2.304	2.056	26.0	21.5	63 E	53*	24*
258325 2001 VB_2									
12 23	0 39.36	+10 14.0	0.496	1.193	53.6	19.6	102 E	55	52*
1 2	1 18.63	+16 11.4	0.566	1.243	50.3	19.9	103 E	61	46*
1 12	1 55.54	+20 50.2	0.650	1.295	47.7	20.2	103 E	66	42*
1 22	2 30.41	+24 21.8	0.745	1.350	45.5	20.5	102 E	69	38*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
258325 2001 VB_2 *(continuation)*									
2 1	3 3.62	+26 59.5	0.852	1.406	43.7	20.9	100 E	72	35*
2 11	3 35.40	+28 54.3	0.967	1.463	42.0	21.2	97 E	74	33*
2 21	4 5.93	+30 14.3	1.091	1.519	40.5	21.5	94 E	75	32*
10295 Hippolyta									
12 23	0 39.64	+10 43.2	2.083	2.491	22.7	21.3	103 E	56	52*
1 2	0 45.09	+11 41.6	2.240	2.510	23.0	21.4	94 E	57	48*
1 12	0 52.44	+12 47.6	2.397	2.528	22.8	21.6	86 E	58	42*
1 22	1 1.38	+14 0.0	2.552	2.545	22.3	21.7	78 E	59*	37*
2 1	1 11.67	+15 17.5	2.702	2.560	21.4	21.8	71 E	57*	32*
168315 1982 RA_1									
12 23	0 39.86	+ 2 0.6	1.653	2.057	28.2	20.3	99 E	47	60*
1 2	0 52.44	+ 3 8.5	1.809	2.097	27.9	20.5	93 E	48	56*
1 12	1 5.99	+ 4 23.6	1.967	2.136	27.3	20.7	86 E	49	51*
1 22	1 20.31	+ 5 43.5	2.126	2.175	26.4	20.9	80 E	51*	46*
2 1	1 35.29	+ 7 6.1	2.283	2.212	25.3	21.1	73 E	51*	42*
2 11	1 50.79	+ 8 29.5	2.437	2.249	23.9	21.2	67 E	50*	38*
2 21	2 6.74	+ 9 52.2	2.586	2.285	22.3	21.3	61 E	47*	34*
3 2	2 23.09	+11 13.0	2.730	2.320	20.6	21.4	56 E	43*	31*
46773 1998 HZ_{12}									
12 23	0 39.91	− 2 43.2	2.134	2.463	23.3	19.8	97 E	42	65*
1 2	0 47.97	− 1 22.3	2.292	2.490	23.3	20.0	90 E	44	59*
1 12	0 57.44	+ 0 4.0	2.451	2.516	22.8	20.1	82 E	45	53*
1 22	1 8.08	+ 1 33.8	2.608	2.542	22.0	20.3	75 E	46*	47*
2 1	1 19.71	+ 3 5.8	2.760	2.566	20.9	20.4	68 E	46*	42*
2 11	1 32.14	+ 4 38.7	2.907	2.590	19.6	20.5	62 E	44*	37*
2 21	1 45.26	+ 6 11.3	3.047	2.612	18.1	20.5	55 E	41*	32*
3 2	1 58.97	+ 7 42.6	3.177	2.634	16.5	20.6	49 E	36*	28*
3 12	2 13.17	+ 9 11.7	3.298	2.655	14.7	20.6	43 E	31*	24*
3 22	2 27.78	+10 37.9	3.407	2.675	12.9	20.7	37 E	26*	20*
4 1	2 42.77	+12 0.3	3.504	2.694	10.9	20.7	31 E	20*	17*
4 11	2 58.06	+13 18.3	3.588	2.712	8.9	20.6	25 E	15*	13*
4 21	3 13.61	+14 31.3	3.659	2.730	6.9	20.6	19 E	9*	10*
5 1	3 29.36	+15 38.8	3.716	2.746	4.9	20.6	13 E	3*	6*
5 11	3 45.27	+16 40.4	3.758	2.761	2.9	20.5	8 E	—	2*
5 21	4 1.29	+17 35.8	3.785	2.776	1.2	20.4	3 E	—	—
5 31	4 17.37	+18 24.6	3.798	2.789	1.8	20.4	5 W	—	—
6 10	4 33.43	+19 6.7	3.795	2.802	3.6	20.6	10 W	—	4*
6 20	4 49.43	+19 42.0	3.778	2.813	5.6	20.7	16 W	1*	9*
6 30	5 5.28	+20 10.5	3.746	2.824	7.5	20.8	21 W	5*	14*
7 10	5 20.91	+20 32.4	3.699	2.833	9.4	20.8	27 W	11*	18*
7 20	5 36.25	+20 47.9	3.638	2.842	11.3	20.9	33 W	17*	22*
7 30	5 51.19	+20 57.3	3.564	2.850	13.0	20.9	39 W	23*	25*
8 9	6 5.62	+21 1.1	3.476	2.856	14.6	20.9	45 W	30*	28*
8 19	6 19.45	+21 0.1	3.377	2.862	16.1	20.9	52 W	37*	31*
8 29	6 32.53	+20 54.9	3.266	2.866	17.4	20.9	58 W	43*	33*
9 8	6 44.71	+20 46.5	3.145	2.870	18.6	20.8	65 W	50*	36*
9 18	6 55.84	+20 36.0	3.016	2.873	19.5	20.8	72 W	56*	38*
9 28	7 5.70	+20 24.7	2.880	2.875	20.1	20.7	80 W	61*	40*
10 8	7 14.07	+20 14.0	2.739	2.875	20.3	20.6	88 W	64*	42*
10 18	7 20.70	+20 5.6	2.597	2.875	20.2	20.5	96 W	65	43*
10 28	7 25.29	+20 1.0	2.455	2.874	19.5	20.3	105 W	65	44*
11 7	7 27.55	+20 2.0	2.319	2.872	18.3	20.2	114 W	65	44
11 17	7 27.20	+20 9.6	2.191	2.868	16.5	20.0	124 W	65	44
11 27	7 24.03	+20 24.7	2.078	2.864	14.0	19.8	135 W	65	44
12 7	7 18.03	+20 47.0	1.983	2.859	10.9	19.5	147 W	66	43
12 17	7 9.45	+21 14.8	1.912	2.853	7.1	19.3	159 W	66	43
12 22	7 4.37	+21 30.0	1.887	2.849	5.0	19.2	165 W	67	42
12 27	6 58.91	+21 45.6	1.869	2.846	2.9	19.0	172 W	67	42
1 1	6 53.22	+22 1.1	1.859	2.842	0.7	18.8	178 W	67	42
1 6	6 47.44	+22 16.2	1.856	2.837	1.6	18.9	175 E	67	42
1 11	6 41.72	+22 30.6	1.861	2.833	3.8	19.1	169 E	68	41
1 16	6 36.23	+22 44.1	1.874	2.828	6.0	19.2	163 E	68	41
228810 2003 BZ_2									
12 23	0 40.17	−26 17.4	1.304	1.600	37.9	19.6	88 E	19	81*
12 28	0 49.10	−23 56.7	1.333	1.599	37.8	19.7	86 E	21	78*
1 2	0 58.31	−21 34.2	1.363	1.599	37.7	19.7	84 E	23	74*
1 7	1 7.76	−19 10.7	1.395	1.599	37.6	19.8	83 E	26	71*
1 12	1 17.43	−16 46.9	1.428	1.601	37.3	19.8	81 E	28	68*
1 17	1 27.30	−14 23.3	1.463	1.603	37.1	19.9	79 E	31	64*
1 22	1 37.36	−12 0.5	1.498	1.606	36.8	19.9	78 E	33	61*
1 27	1 47.60	− 9 39.2	1.536	1.610	36.4	19.9	76 E	35*	59*
2 1	1 58.03	− 7 20.0	1.574	1.615	36.0	20.0	74 E	37*	56*
2 11	2 19.35	− 2 49.7	1.656	1.627	35.0	20.1	71 E	41*	51*
2 21	2 41.30	+ 1 26.6	1.743	1.642	33.8	20.2	68 E	43*	46*
3 2	3 3.86	+ 5 26.0	1.835	1.661	32.5	20.3	64 E	43*	42*
3 12	3 27.00	+ 9 6.1	1.931	1.682	31.0	20.4	61 E	43*	38*

228810 2003 BZ_2 *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 22	3 50.68	+12 25.2	2.030	1.705	29.3	20.5	57 E	41*	35*
4 1	4 14.87	+15 22.3	2.131	1.731	27.6	20.6	53 E	39*	32*
4 11	4 39.50	+17 56.8	2.233	1.759	25.7	20.6	50 E	36*	30*
4 21	5 4.50	+20 8.5	2.335	1.789	23.8	20.7	46 E	32*	27*
5 1	5 29.76	+21 57.7	2.436	1.820	21.8	20.8	42 E	29*	25*
5 11	5 55.17	+23 24.9	2.534	1.852	19.8	20.9	38 E	25*	23*
5 21	6 20.61	+24 31.0	2.630	1.886	17.7	20.9	35 E	21*	20*
5 31	6 45.95	+25 17.0	2.721	1.920	15.6	20.9	31 E	17*	18*
6 10	7 11.06	+25 44.4	2.807	1.955	13.6	21.0	27 E	14*	15*
6 20	7 35.85	+25 54.6	2.887	1.991	11.5	21.0	23 E	11*	12*
6 30	8 0.20	+25 49.3	2.960	2.027	9.5	21.0	19 E	8*	9*
7 10	8 24.04	+25 30.3	3.025	2.063	7.6	21.0	16 E	6*	6*
7 20	8 47.32	+24 59.3	3.082	2.100	5.8	21.0	12 E	5*	2*
7 30	9 10.01	+24 18.2	3.131	2.136	4.5	21.0	9 E	3*	—
8 9	9 32.07	+23 28.8	3.170	2.172	3.9	21.1	8 E	2*	—
8 19	9 53.51	+22 33.0	3.199	2.208	4.5	21.1	10 W	1*	—
8 29	10 14.34	+21 32.4	3.217	2.244	5.7	21.2	13 W	6*	—
9 8	10 34.56	+20 28.8	3.225	2.279	7.3	21.4	17 W	10*	—
9 18	10 54.19	+19 23.9	3.222	2.313	9.0	21.5	21 W	15*	—

417871 2007 MB_{24}

12 23	0 40.44	+52 45.2	0.469	1.250	45.9	18.8	114 E	82	11*
12 25	0 37.76	+49 25.2	0.455	1.227	48.1	18.7	112 E	86	14*
12 27	0 35.71	+45 54.1	0.443	1.204	50.5	18.7	109 E	89	17*
12 29	0 34.17	+42 13.0	0.433	1.180	53.1	18.7	106 E	87	20*
12 31	0 33.08	+38 23.0	0.424	1.156	55.9	18.7	103 E	83	23*
1 2	0 32.36	+34 25.6	0.417	1.132	58.8	18.7	100 E	79	26*
1 4	0 31.93	+30 22.4	0.412	1.108	61.8	18.7	97 E	75	29*
1 6	0 31.74	+26 15.2	0.408	1.084	64.9	18.7	93 E	71	31*
1 8	0 31.73	+22 6.1	0.406	1.060	68.1	18.8	89 E	67	34*
1 10	0 31.85	+17 56.7	0.407	1.035	71.3	18.8	86 E	63	37*
1 12	0 32.05	+13 49.1	0.408	1.011	74.4	18.9	82 E	59*	39*
1 14	0 32.29	+ 9 44.8	0.412	0.986	77.5	19.0	78 E	55*	41*
1 16	0 32.53	+ 5 45.4	0.416	0.962	80.6	19.0	75 E	50*	42*
1 18	0 32.71	+ 1 52.1	0.423	0.937	83.5	19.1	71 E	46*	43*
1 20	0 32.79	− 1 54.1	0.431	0.913	86.3	19.2	68 E	42*	44*
1 22	0 32.74	− 5 32.6	0.439	0.888	89.0	19.3	64 E	38*	44*
1 27	0 31.67	−14 1.9	0.467	0.828	95.0	19.5	57 E	28*	44*
2 1	0 28.56	−21 35.9	0.500	0.769	99.7	19.7	50 E	19*	42*
2 6	0 22.46	−28 12.3	0.538	0.713	103.1	19.9	45 E	10*	39*
2 11	0 12.41	−33 45.8	0.581	0.662	104.9	20.0	40 E	1*	34*
2 16	23 57.81	−38 6.1	0.628	0.619	104.8	20.0	37 E	—	29*
2 21	23 38.91	−40 59.5	0.678	0.587	102.6	20.0	35 E	—	23*
2 23	23 30.49	−41 41.7	0.699	0.577	101.2	19.9	35 E	—	21*
2 25	23 21.81	−42 7.6	0.720	0.570	99.5	19.9	35 E	—	18*
2 27	23 13.08	−42 17.2	0.742	0.565	97.5	19.8	34 E	—	16*
2 29	23 4.50	−42 11.1	0.763	0.563	95.4	19.8	34 E	—	13*
3 2	22 56.27	−41 50.0	0.785	0.564	93.1	19.7	35 E	—	11*
3 4	22 48.55	−41 15.1	0.806	0.567	90.7	19.7	35 W	—	12*
3 6	22 41.46	−40 27.9	0.827	0.573	88.3	19.7	35 W	—	14*
3 8	22 35.09	−39 30.0	0.847	0.581	85.9	19.7	36 W	—	17*
3 10	22 29.46	−38 23.0	0.867	0.591	83.5	19.7	36 W	—	19*
3 12	22 24.58	−37 8.7	0.886	0.604	81.2	19.7	37 W	—	21*
3 14	22 20.41	−35 48.4	0.905	0.618	79.0	19.7	38 W	—	23*
3 16	22 16.92	−34 23.5	0.922	0.634	77.0	19.7	38 W	—	25*
3 18	22 14.04	−32 55.1	0.939	0.652	75.0	19.8	39 W	—	27*
3 20	22 11.70	−31 24.2	0.955	0.671	73.2	19.8	40 W	—	29*
3 22	22 9.84	−29 51.6	0.969	0.691	71.5	19.8	41 W	—	31*
3 24	22 8.39	−28 17.9	0.983	0.712	70.0	19.9	42 W	—	33*
3 26	22 7.30	−26 43.6	0.996	0.734	68.5	19.9	43 W	—	35*
3 28	22 6.51	−25 9.1	1.008	0.756	67.1	20.0	44 W	—	36*
3 30	22 5.97	−23 34.7	1.019	0.779	65.9	20.0	45 W	—	38*
4 1	22 5.65	−22 0.6	1.030	0.803	64.7	20.1	47 W	1*	40*
4 6	22 5.54	−18 7.5	1.052	0.863	62.1	20.2	50 W	6*	43*
4 11	22 6.08	−14 18.5	1.069	0.924	59.8	20.3	53 W	10*	47*
4 16	22 6.91	−10 33.9	1.082	0.985	57.8	20.4	56 W	15*	50*
4 21	22 7.79	− 6 53.6	1.092	1.046	56.0	20.5	60 W	19*	52*
4 26	22 8.49	− 3 17.2	1.099	1.107	54.3	20.6	63 W	23*	54*
5 1	22 8.85	+ 0 15.6	1.103	1.167	52.6	20.7	67 W	28*	55*
5 6	22 8.74	+ 3 45.2	1.105	1.226	51.0	20.7	71 W	33*	56*
5 11	22 8.02	+ 7 11.5	1.106	1.284	49.3	20.8	75 W	37*	55*
5 16	22 6.58	+10 34.6	1.105	1.341	47.6	20.8	78 W	42*	53*
5 21	22 4.28	+13 54.1	1.105	1.396	45.9	20.9	82 W	47*	50
5 26	22 0.99	+17 9.2	1.104	1.451	44.2	20.9	86 W	52*	47
5 31	21 56.61	+20 18.6	1.105	1.504	42.4	21.0	90 W	58*	44
6 5	21 51.02	+23 20.9	1.107	1.556	40.6	21.0	94 W	63*	41
6 10	21 44.16	+26 14.2	1.110	1.606	38.7	21.0	98 W	68*	38
6 15	21 35.95	+28 56.3	1.116	1.656	36.9	21.0	102 W	73*	35
6 20	21 26.38	+31 24.6	1.125	1.705	35.1	21.1	105 W	76	33
6 25	21 15.51	+33 36.3	1.137	1.752	33.3	21.1	109 W	79	30

417871 2007 MB_{24} *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
6 30	21 3.47	+35 29.0	1.153	1.798	31.7	21.1	112 W	80	29
7 5	20 50.52	+37 0.6	1.173	1.844	30.1	21.2	115 W	82	27
7 10	20 36.97	+38 9.8	1.197	1.888	28.7	21.2	117 W	83	26
7 15	20 23.20	+38 56.2	1.226	1.931	27.5	21.3	119 W	84	25
7 20	20 9.61	+39 20.1	1.258	1.973	26.5	21.4	120 W	84	25
7 25	19 56.62	+39 22.9	1.296	2.014	25.7	21.5	121 E	84	25
7 30	19 44.56	+39 6.8	1.338	2.055	25.0	21.6	121 E	84	25
8 4	19 33.69	+38 34.8	1.384	2.094	24.6	21.7	121 E	84	25
8 9	19 24.17	+37 49.8	1.434	2.132	24.3	21.8	120 E	83	26
8 14	19 16.06	+36 54.5	1.487	2.170	24.1	21.9	119 E	82	27
8 19	19 9.37	+35 51.8	1.545	2.206	23.9	22.0	118 E	81	28

397287 2006 SG_{54}

12 23	0 40.64	+ 8 5.3	1.784	2.208	25.8	20.9	102 E	53	54*
1 2	0 53.16	+ 8 24.3	1.946	2.252	25.8	21.1	95 E	53	51*
1 12	1 6.59	+ 8 56.4	2.112	2.295	25.3	21.3	88 E	54	48*
1 22	1 20.74	+ 9 38.1	2.279	2.339	24.6	21.5	81 E	55*	44*
2 1	1 35.50	+10 26.8	2.445	2.382	23.5	21.6	75 E	54*	40*

267046 1998 RU_{17}

12 23	0 40.78	+13 25.3	1.651	2.116	26.8	20.8	104 E	58	49*
1 2	0 52.69	+14 7.5	1.801	2.152	27.0	21.1	97 E	59	46*
1 12	1 5.91	+14 59.0	1.955	2.188	26.7	21.3	90 E	60	42*
1 22	1 20.18	+15 57.3	2.110	2.223	26.1	21.4	83 E	61*	38*
2 1	1 35.33	+17 0.6	2.265	2.259	25.2	21.6	77 E	61*	35*

475484 2006 SE_{215}

12 23	0 42.07	− 2 38.8	1.480	1.888	31.1	21.4	98 E	42	65*
1 2	0 57.00	− 1 0.2	1.612	1.916	30.9	21.6	92 E	44	60*
1 12	1 12.84	+ 0 44.1	1.746	1.945	30.3	21.8	86 E	46	55*
1 22	1 29.41	+ 2 31.2	1.881	1.975	29.4	21.9	81 E	48	50*
2 1	1 46.61	+ 4 18.9	2.018	2.004	28.4	22.1	75 E	49*	46*

474203 2000 QR_{199}

12 23	0 42.31	− 0 25.1	1.321	1.766	33.4	21.4	99 E	45	63*
1 2	0 58.78	+ 1 34.9	1.440	1.791	33.2	21.6	93 E	47	58*
1 12	1 16.17	+ 3 37.7	1.563	1.817	32.7	21.8	88 E	49	53*
1 22	1 34.32	+ 5 40.8	1.689	1.845	32.0	22.0	83 E	51	49*
2 1	1 53.11	+ 7 42.0	1.816	1.873	30.9	22.2	78 E	52*	45*

295427 2008 KU_{29}

12 23	0 42.84	− 5 13.2	1.648	2.021	28.9	21.0	97 E	40	67*
1 2	0 55.36	− 2 58.8	1.792	2.056	28.6	21.2	91 E	42	62*
1 12	1 8.93	− 0 45.0	1.938	2.091	27.9	21.4	85 E	44	56*
1 22	1 23.33	+ 1 26.6	2.086	2.126	27.0	21.5	79 E	46*	50*
2 1	1 38.46	+ 3 35.1	2.234	2.161	25.8	21.7	73 E	48*	45*

143243 2002 YA_{26}

12 23	0 42.97	−18 43.6	1.789	2.063	28.5	17.9	91 E	26	79*
1 2	0 56.70	−15 30.5	1.922	2.100	27.8	18.1	86 E	29	71*
1 12	1 11.14	−12 22.0	2.060	2.139	27.0	18.2	81 E	33	64*
1 22	1 26.13	− 9 19.8	2.202	2.180	26.0	18.4	76 E	36*	58*
2 1	1 41.58	− 6 25.1	2.346	2.222	24.7	18.5	71 E	38*	52*
2 11	1 57.41	− 3 38.9	2.490	2.265	23.3	18.7	65 E	39*	47*
2 21	2 13.54	− 1 2.0	2.635	2.309	21.8	18.8	60 E	38*	42*
3 2	2 29.94	+ 1 25.3	2.778	2.354	20.2	18.9	55 E	36*	38*
3 12	2 46.54	+ 3 42.5	2.917	2.399	18.4	19.0	50 E	33*	34*
3 22	3 3.31	+ 5 49.3	3.053	2.446	16.6	19.1	45 E	29*	30*
4 1	3 20.21	+ 7 45.6	3.182	2.492	14.7	19.1	39 E	24*	27*
4 11	3 37.19	+ 9 31.4	3.304	2.539	12.8	19.2	34 E	19*	23*
4 21	3 54.22	+11 6.7	3.418	2.586	10.9	19.2	29 E	14*	20*
5 1	4 11.24	+12 31.6	3.523	2.633	8.9	19.2	24 E	8*	16*
5 11	4 28.21	+13 46.3	3.617	2.680	6.9	19.2	19 E	3*	12*
5 21	4 45.08	+14 51.1	3.699	2.727	5.1	19.2	14 E	—	8*
5 31	5 1.78	+15 46.3	3.769	2.774	3.4	19.2	9 E	—	3*
6 10	5 18.26	+16 32.3	3.827	2.820	2.4	19.2	7 E	—	—
6 20	5 34.47	+17 9.8	3.870	2.867	2.8	19.3	8 W	—	1*
6 30	5 50.33	+17 39.1	3.899	2.913	4.2	19.5	12 W	—	6*
7 10	6 5.78	+18 1.1	3.913	2.959	5.9	19.6	17 W	1*	11*
7 20	6 20.74	+18 16.5	3.913	3.004	7.6	19.7	23 W	7*	15*
7 30	6 35.15	+18 26.0	3.897	3.050	9.3	19.8	29 W	14*	19*
8 9	6 48.90	+18 30.8	3.867	3.094	10.9	19.9	35 W	21*	23*
8 19	7 1.94	+18 31.6	3.822	3.139	12.4	19.9	42 W	28*	26*
8 29	7 14.13	+18 29.7	3.762	3.182	13.7	20.0	48 W	35*	29*
9 8	7 25.39	+18 26.4	3.690	3.226	14.9	20.0	55 W	42*	32*
9 18	7 35.58	+18 22.8	3.606	3.268	15.8	20.0	63 W	48*	35*
9 28	7 44.57	+18 20.5	3.511	3.311	16.6	20.0	70 W	55*	37*
10 8	7 52.19	+18 20.9	3.408	3.352	17.0	20.0	78 W	60*	40*
10 18	7 58.27	+18 25.6	3.299	3.394	17.0	19.9	87 W	63*	42*
10 28	8 2.63	+18 36.1	3.188	3.434	16.7	19.9	96 W	64	44*
11 7	8 5.08	+18 53.8	3.078	3.474	16.0	19.8	105 W	64	45*

143243 2002 YA_{26} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
11 17	8 5.46	+19 19.7	2.974	3.514	14.7	19.7	115 W	64	45
11 27	8 3.65	+19 54.1	2.881	3.552	13.0	19.6	126 W	65	44
12 7	7 59.69	+20 36.6	2.805	3.591	10.7	19.5	137 W	66	43
12 17	7 53.71	+21 25.6	2.750	3.628	8.1	19.4	149 W	66	43
12 27	7 46.10	+22 18.5	2.722	3.665	5.0	19.2	161 W	67	42
1 6	7 37.43	+23 11.8	2.724	3.702	1.8	19.0	173 W	68	41
1 16	7 28.43	+24 2.2	2.758	3.737	1.6	19.1	174 E	69	40

120708 1997 MA_2

12 23	0 43.19	− 0 29.8	1.354	1.795	32.7	19.8	99 E	45	63*
1 2	0 59.63	+ 1 35.0	1.477	1.825	32.5	20.0	94 E	47	58*
1 12	1 16.92	+ 3 41.3	1.604	1.855	32.0	20.2	88 E	49	53*
1 22	1 34.89	+ 5 46.7	1.735	1.887	31.2	20.4	83 E	51	49*
2 1	1 53.45	+ 7 49.5	1.869	1.921	30.1	20.6	78 E	52*	44*
2 11	2 12.49	+ 9 47.9	2.003	1.955	28.8	20.7	73 E	53*	41*
2 21	2 31.94	+11 40.3	2.138	1.989	27.4	20.9	68 E	51*	37*
3 2	2 51.76	+13 25.6	2.272	2.025	25.9	21.0	63 E	49*	34*
3 12	3 11.88	+15 2.7	2.405	2.060	24.2	21.1	58 E	45*	32*
3 22	3 32.25	+16 30.7	2.534	2.096	22.4	21.2	53 E	41*	29*
4 1	3 52.82	+17 48.9	2.659	2.132	20.5	21.3	48 E	37*	27*
4 11	4 13.54	+18 56.6	2.780	2.168	18.6	21.4	44 E	32*	25*
4 21	4 34.34	+19 53.5	2.894	2.204	16.6	21.4	39 E	27*	22*
5 1	4 55.17	+20 39.5	3.001	2.239	14.6	21.5	34 E	22*	20*
5 11	5 15.94	+21 14.3	3.101	2.275	12.5	21.5	29 E	16*	17*

213050 1998 TS_3

12 23	0 43.97	−12 2.0	1.551	1.901	31.1	21.4	95 E	33	73*
12 28	0 49.24	−12 3.9	1.607	1.896	31.2	21.5	91 E	33	71*
1 2	0 55.00	−11 59.6	1.663	1.890	31.3	21.5	87 E	33	68*
1 7	1 1.22	−11 50.1	1.717	1.884	31.3	21.6	84 E	33	66*
1 12	1 7.85	−11 35.9	1.770	1.878	31.1	21.6	81 E	33	63*

306381 1993 RR_2

12 23	0 44.07	− 9 2.6	1.529	1.900	31.0	19.2	96 E	36	71*
1 2	1 0.19	− 6 48.0	1.687	1.959	30.1	19.5	90 E	38	65*
1 12	1 16.46	− 4 35.2	1.849	2.017	29.1	19.7	85 E	40	60*
1 22	1 32.84	− 2 25.9	2.013	2.076	27.8	19.9	80 E	43	55*
2 1	1 49.35	− 0 21.2	2.180	2.134	26.4	20.1	74 E	44*	50*
2 11	2 5.97	+ 1 37.9	2.346	2.193	24.8	20.3	69 E	44*	45*
2 21	2 22.68	+ 3 30.4	2.511	2.250	23.1	20.5	63 E	43*	41*
3 2	2 39.47	+ 5 16.0	2.673	2.308	21.4	20.6	58 E	40*	38*
3 12	2 56.32	+ 6 53.8	2.830	2.364	19.5	20.7	53 E	37*	34*
3 22	3 13.21	+ 8 23.7	2.982	2.420	17.6	20.8	47 E	32*	31*
4 1	3 30.13	+ 9 45.2	3.126	2.475	15.7	20.9	42 E	27*	28*
4 11	3 47.03	+10 58.1	3.262	2.529	13.7	21.0	37 E	22*	25*
4 21	4 3.88	+12 2.2	3.388	2.582	11.7	21.0	31 E	16*	21*
5 1	4 20.65	+12 57.6	3.503	2.635	9.7	21.1	26 E	10*	18*
5 11	4 37.29	+13 44.2	3.606	2.686	7.7	21.1	21 E	5*	14*
5 21	4 53.77	+14 22.0	3.696	2.736	5.8	21.1	16 E	—	10*
5 31	5 10.03	+14 51.4	3.772	2.786	4.1	21.1	11 E	—	5*
6 10	5 26.01	+15 12.4	3.835	2.834	3.0	21.1	8 E	—	—
6 20	5 41.67	+15 25.5	3.882	2.881	3.0	21.2	9 W	—	—
6 30	5 56.95	+15 31.0	3.914	2.927	4.2	21.3	12 W	—	6*
7 10	6 11.78	+15 29.4	3.930	2.973	5.7	21.4	17 W	—	11*

510996 2013 KA_3

12 23	0 44.38	+33 34.9	0.862	1.523	37.1	20.9	111 E	79	30*
12 28	0 57.64	+32 13.0	0.902	1.534	37.4	21.0	109 E	77	31*
1 2	1 10.86	+30 58.8	0.945	1.545	37.6	21.1	106 E	76	32*
1 7	1 24.00	+29 52.1	0.990	1.556	37.8	21.3	104 E	75	32*
1 12	1 37.05	+28 52.3	1.037	1.567	37.9	21.4	102 E	74	33*
1 17	1 50.00	+27 59.1	1.086	1.578	38.0	21.5	99 E	73	33*

310728 2002 PD_{48}

12 23	0 44.50	−26 15.0	1.306	1.614	37.5	18.9	89 E	19	82*
12 28	0 53.58	−25 26.5	1.336	1.606	37.7	19.0	86 E	20	79*
1 2	1 3.13	−24 31.9	1.365	1.598	37.7	19.0	84 E	20	76*
1 7	1 13.12	−23 31.7	1.393	1.592	37.7	19.0	82 E	21	73*
1 12	1 23.49	−22 26.5	1.421	1.586	37.7	19.1	80 E	23	71*
1 17	1 34.22	−21 16.7	1.449	1.582	37.5	19.1	79 E	24	69*
1 22	1 45.28	−20 2.7	1.476	1.579	37.4	19.1	77 E	25	67*
1 27	1 56.65	−18 45.0	1.503	1.577	37.2	19.2	76 E	26	65*
2 1	2 8.29	−17 24.2	1.530	1.577	36.9	19.2	74 E	28*	63*
2 6	2 20.20	−16 0.8	1.557	1.577	36.7	19.2	73 E	29*	61*
2 11	2 32.33	−14 35.2	1.584	1.579	36.4	19.3	72 E	30*	60*
2 16	2 44.67	−13 8.2	1.612	1.582	36.0	19.3	70 E	31*	58*
2 21	2 57.22	−11 40.0	1.640	1.586	35.6	19.3	69 E	31*	57*
2 26	3 9.95	−10 11.5	1.669	1.591	35.2	19.4	68 E	32*	56*
3 2	3 22.85	− 8 43.1	1.699	1.597	34.8	19.4	67 E	32*	55*
3 7	3 35.90	− 7 15.4	1.730	1.605	34.4	19.4	66 E	32*	53*
3 12	3 49.07	− 5 49.1	1.763	1.613	33.9	19.5	65 E	32*	52*

310728 2002 PD_{48} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 22	4 15.75	− 3 2.7	1.832	1.633	32.8	19.6	63 E	32*	50*
4 1	4 42.76	− 0 27.8	1.907	1.657	31.6	19.6	60 E	31*	48*
4 11	5 9.92	+ 1 51.9	1.988	1.685	30.3	19.7	58 E	29*	46*
4 21	5 37.08	+ 3 53.9	2.076	1.715	28.8	19.8	55 E	26*	44*
5 1	6 4.10	+ 5 36.4	2.169	1.749	27.2	19.9	53 E	23*	42*
5 11	6 30.81	+ 6 58.7	2.266	1.785	25.5	20.0	50 E	20*	40*
5 21	6 57.07	+ 8 0.9	2.368	1.823	23.7	20.1	46 E	16*	38*
5 31	7 22.78	+ 8 43.8	2.472	1.863	21.8	20.2	43 E	12*	35*
6 10	7 47.84	+ 9 8.6	2.576	1.905	19.8	20.2	39 E	8*	33*
6 20	8 12.19	+ 9 17.0	2.681	1.948	17.7	20.3	36 E	5*	29*
6 30	8 35.80	+ 9 10.8	2.783	1.991	15.6	20.4	32 E	2*	26*
7 10	8 58.65	+ 8 52.0	2.881	2.036	13.4	20.4	28 E	—	22*
7 20	9 20.74	+ 8 22.4	2.974	2.081	11.2	20.5	23 E	—	17*
7 30	9 42.12	+ 7 44.0	3.061	2.127	8.9	20.5	19 E	—	13*
8 9	10 2.78	+ 6 58.5	3.140	2.173	6.7	20.5	14 E	—	8*
8 19	10 22.78	+ 6 7.6	3.210	2.219	4.4	20.5	10 E	—	3*
8 29	10 42.15	+ 5 12.8	3.269	2.265	2.3	20.4	5 E	—	—
9 8	11 0.93	+ 4 15.8	3.317	2.311	0.9	20.4	2 W	—	—
9 18	11 19.15	+ 3 17.9	3.353	2.356	2.6	20.6	6 W	—	—
9 28	11 36.82	+ 2 20.4	3.376	2.402	4.7	20.7	11 W	4*	1*
10 8	11 53.96	+ 1 24.8	3.385	2.446	6.8	20.9	17 W	10*	4*
10 18	12 10.59	+ 0 32.2	3.381	2.491	8.9	21.0	23 W	15*	8*
10 28	12 26.67	− 0 15.8	3.362	2.534	10.8	21.1	29 W	21*	11*
11 7	12 42.19	− 0 58.0	3.328	2.578	12.7	21.2	35 W	26*	15*
11 17	12 57.09	− 1 33.2	3.281	2.620	14.4	21.3	41 W	31*	20*
11 27	13 11.30	− 1 59.8	3.220	2.662	16.0	21.3	48 W	35*	25*
12 7	13 24.74	− 2 16.5	3.147	2.703	17.3	21.4	55 W	39*	31*
12 17	13 37.29	− 2 22.0	3.063	2.743	18.5	21.4	62 W	41*	37*
12 27	13 48.79	− 2 14.5	2.969	2.783	19.3	21.4	70 W	42*	44*
1 6	13 59.07	− 1 53.0	2.868	2.822	19.9	21.3	77 W	43	51*
1 16	14 7.94	− 1 15.9	2.761	2.859	20.1	21.3	86 W	44	57*

75303 1999 XQ_{35}

12 23	0 44.77	−23 40.2	3.144	3.289	17.4	21.1	90 E	21	81*
1 2	0 47.75	−21 41.0	3.256	3.266	17.3	21.1	82 E	23	72*
1 12	0 52.45	−19 38.3	3.365	3.242	17.0	21.2	74 E	25	63*
1 22	0 58.61	−17 33.9	3.470	3.217	16.4	21.2	67 E	27*	55*
2 1	1 6.06	−15 28.9	3.568	3.191	15.5	21.2	60 E	27*	48*
2 11	1 14.60	−13 24.5	3.657	3.164	14.4	21.2	53 E	26*	42*
2 21	1 24.08	−11 21.5	3.734	3.137	13.2	21.2	47 E	23*	36*
3 2	1 34.37	− 9 20.4	3.799	3.109	11.9	21.2	40 E	19*	31*
3 12	1 45.36	− 7 21.7	3.851	3.079	10.4	21.1	34 E	14*	26*
3 22	1 56.95	− 5 26.0	3.889	3.050	8.9	21.1	28 E	9*	22*
4 1	2 9.09	− 3 33.5	3.912	3.019	7.5	21.0	23 E	4*	17*
4 11	2 21.69	− 1 44.8	3.920	2.987	6.2	20.9	19 E	—	13*
4 21	2 34.72	− 0 0.0	3.912	2.955	5.1	20.8	15 E	—	8*
5 1	2 48.12	+ 1 40.4	3.890	2.922	4.7	20.8	14 E	—	3*
5 11	3 1.85	+ 3 16.3	3.853	2.888	5.1	20.8	15 W	—	3*
5 21	3 15.87	+ 4 47.4	3.801	2.853	6.2	20.8	18 W	—	9*
5 31	3 30.16	+ 6 13.5	3.735	2.818	7.6	20.8	22 W	—	15*
6 10	3 44.65	+ 7 34.5	3.655	2.782	9.3	20.8	26 W	—	20*
6 20	3 59.33	+ 8 50.4	3.562	2.745	11.1	20.7	31 W	1*	25*
6 30	4 14.14	+10 1.1	3.457	2.707	12.9	20.7	36 W	7*	30*
7 10	4 29.03	+11 6.7	3.340	2.669	14.7	20.7	42 W	13*	34*
7 20	4 43.94	+12 7.6	3.213	2.630	16.5	20.6	47 W	20*	37*
7 30	4 58.81	+13 4.1	3.076	2.591	18.2	20.5	53 W	27*	39*
8 9	5 13.54	+13 57.0	2.931	2.551	19.8	20.5	58 W	34*	41*
8 19	5 28.06	+14 47.0	2.778	2.511	21.3	20.4	64 W	41*	43*
8 29	5 42.23	+15 35.3	2.619	2.470	22.7	20.2	70 W	48*	44*
9 8	5 55.93	+16 23.7	2.455	2.428	23.8	20.1	77 W	54*	45*
9 18	6 9.00	+17 14.2	2.288	2.387	24.7	19.9	83 W	59*	45*
9 28	6 21.20	+18 9.6	2.120	2.345	25.3	19.7	90 W	63*	45*
10 8	6 32.30	+19 13.3	1.953	2.303	25.5	19.5	97 W	64	45*
10 18	6 41.97	+20 29.8	1.789	2.261	25.2	19.3	105 W	65	44
10 28	6 49.79	+22 4.3	1.630	2.219	24.3	19.0	113 W	67	42
11 2	6 52.86	+23 0.1	1.555	2.198	23.6	18.9	118 W	68	41
11 7	6 55.28	+24 2.5	1.481	2.177	22.7	18.7	122 W	69	40
11 12	6 56.95	+25 12.3	1.411	2.156	21.6	18.6	127 W	70	39
11 17	6 57.78	+26 30.1	1.345	2.135	20.2	18.4	132 W	72	37
11 22	6 57.69	+27 56.2	1.283	2.114	18.6	18.2	137 W	73	36
11 27	6 56.59	+29 30.8	1.226	2.094	16.9	18.0	142 W	75	34
12 2	6 54.41	+31 13.3	1.174	2.073	14.9	17.9	147 W	76	33
12 7	6 51.07	+33 2.9	1.129	2.053	12.8	17.7	152 W	78	31
12 12	6 46.52	+34 58.1	1.089	2.033	10.8	17.5	157 W	80	29
12 17	6 40.78	+36 56.6	1.057	2.013	9.2	17.4	161 W	82	27
12 22	6 33.93	+38 55.6	1.032	1.994	8.3	17.2	163 W	84	25
12 27	6 26.13	+40 51.8	1.014	1.974	8.6	17.2	162 W	86	23
1 1	6 17.63	+42 42.3	1.004	1.955	10.2	17.2	159 E	88	21
1 6	6 8.73	+44 24.2	1.000	1.936	12.4	17.3	155 E	89	20
1 11	5 59.83	+45 55.6	1.003	1.918	15.0	17.4	150 E	89	18
1 16	5 51.35	+47 15.4	1.012	1.900	17.6	17.4	144 E	88	17