465166 2007 *EL*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 22	17 45.85	−60 45.1	0.800	1.309	49.5	21.4	93 W	—	55*
3 24	18 0.44	−62 11.6	0.791	1.302	49.9	21.4	93 W	—	54*
3 26	18 16.36	−63 33.4	0.783	1.294	50.4	21.4	92 W	—	52*
3 28	18 33.69	−64 49.5	0.776	1.286	50.9	21.4	92 W	—	51*
3 30	18 52.53	−65 58.7	0.770	1.278	51.4	21.4	92 W	—	50*
4 1	19 12.87	−66 59.9	0.764	1.271	51.8	21.3	91 W	—	48*
4 3	19 34.66	−67 51.7	0.760	1.263	52.3	21.3	91 W	—	47*
4 5	19 57.72	−68 33.1	0.756	1.255	52.8	21.3	90 W	—	46*
4 7	20 21.80	−69 3.2	0.753	1.248	53.3	21.3	90 W	—	45*
4 9	20 46.51	−69 21.3	0.750	1.241	53.8	21.3	89 W	—	44*
4 11	21 11.38	−69 27.3	0.748	1.233	54.3	21.3	88 W	—	43*
4 12	21 23.74	−69 25.7	0.747	1.230	54.6	21.3	88 W	—	43*
4 13	21 35.96	−69 21.2	0.747	1.226	54.8	21.3	88 W	—	42*
4 14	21 47.99	−69 13.9	0.746	1.222	55.0	21.3	87 W	—	42*
4 15	21 59.78	−69 3.8	0.746	1.219	55.3	21.3	87 W	—	41*
4 16	22 11.29	−68 51.2	0.746	1.215	55.5	21.3	87 W	—	41*
4 17	22 22.48	−68 36.0	0.746	1.212	55.8	21.3	86 W	—	41*
4 18	22 33.33	−68 18.6	0.746	1.208	56.0	21.3	86 W	—	40*
4 19	22 43.81	−67 59.0	0.746	1.205	56.2	21.3	86 W	—	40*
4 20	22 53.91	−67 37.4	0.746	1.202	56.4	21.3	85 W	—	40*
4 21	23 3.62	−67 14.0	0.746	1.198	56.7	21.3	85 W	—	40*
4 23	23 21.86	−66 22.3	0.747	1.192	57.1	21.3	84 W	—	39*
4 25	23 38.55	−65 25.1	0.749	1.185	57.5	21.3	84 W	—	39*
4 27	23 53.77	−64 23.4	0.750	1.179	57.9	21.3	83 W	—	39*
4 29	0 7.63	−63 18.4	0.752	1.173	58.3	21.3	82 W	—	39*
5 1	0 20.24	−62 10.6	0.754	1.167	58.7	21.3	82 W	—	38*
5 3	0 31.73	−61 0.9	0.756	1.161	59.1	21.3	81 W	—	39*
5 5	0 42.21	−59 49.7	0.758	1.155	59.4	21.3	80 W	—	39*
5 7	0 51.80	−58 37.6	0.760	1.149	59.7	21.3	80 W	—	39*
5 9	1 0.59	−57 24.8	0.763	1.144	60.0	21.4	79 W	—	39*
5 11	1 8.67	−56 11.7	0.765	1.139	60.3	21.4	78 W	—	39*
5 13	1 16.13	−54 58.6	0.767	1.134	60.6	21.4	78 W	—	40*
5 15	1 23.03	−53 45.5	0.769	1.129	60.9	21.4	77 W	—	40*
5 17	1 29.43	−52 32.7	0.771	1.124	61.2	21.4	77 W	—	41*
5 19	1 35.39	−51 20.2	0.773	1.120	61.4	21.4	76 W	—	42*
5 21	1 40.94	−50 8.1	0.774	1.116	61.7	21.4	76 W	—	42*
5 23	1 46.14	−48 56.5	0.775	1.112	61.9	21.4	76 W	—	43*
5 25	1 51.02	−47 45.3	0.777	1.108	62.1	21.4	75 W	—	44*
5 27	1 55.60	−46 34.5	0.777	1.105	62.3	21.4	75 W	—	45*
5 29	1 59.92	−45 24.2	0.778	1.102	62.5	21.4	75 W	—	46*
5 31	2 4.00	−44 14.2	0.778	1.099	62.7	21.4	74 W	—	47*
6 5	2 13.30	−41 20.7	0.777	1.093	63.1	21.4	74 W	—	50*
6 10	2 21.54	−38 28.4	0.774	1.088	63.5	21.4	73 W	—	52*
6 15	2 28.94	−35 36.7	0.769	1.085	63.8	21.4	73 W	—	55*
6 20	2 35.64	−32 44.5	0.761	1.084	64.1	21.4	74 W	—	59*
6 25	2 41.75	−29 50.9	0.751	1.084	64.3	21.3	74 W	—	62*
6 30	2 47.36	−26 54.5	0.738	1.087	64.4	21.3	75 W	—	65*
7 5	2 52.53	−23 54.0	0.723	1.091	64.5	21.3	76 W	—	68*
7 10	2 57.32	−20 48.2	0.706	1.096	64.5	21.2	77 W	5*	70*
7 15	3 1.74	−17 35.8	0.687	1.104	64.3	21.2	78 W	10*	72*
7 20	3 5.76	−14 15.2	0.666	1.112	64.0	21.1	80 W	16*	73*
7 25	3 9.37	−10 45.0	0.645	1.123	63.6	21.1	82 W	22*	72*
7 30	3 12.50	− 7 3.2	0.622	1.134	62.9	21.0	84 W	28*	70*
8 4	3 15.09	− 3 7.9	0.598	1.147	62.0	20.9	87 W	34*	67*
8 9	3 17.05	+ 1 2.7	0.575	1.161	60.8	20.8	90 W	40*	63
8 14	3 18.21	+ 5 30.2	0.552	1.176	59.3	20.7	93 W	47*	58
8 19	3 18.39	+10 16.0	0.530	1.192	57.6	20.6	96 W	53*	54
8 24	3 17.31	+15 20.4	0.510	1.209	55.4	20.5	100 W	60*	49
8 29	3 14.67	+20 42.4	0.493	1.227	53.0	20.4	104 W	66	43
9 3	3 10.07	+26 18.8	0.480	1.245	50.3	20.3	108 W	71	38
9 8	3 2.99	+32 3.4	0.470	1.264	47.5	20.2	112 W	77	32
9 10	2 59.33	+34 21.5	0.468	1.271	46.4	20.1	114 W	79	30
9 12	2 55.13	+36 38.8	0.466	1.279	45.2	20.1	116 W	82	27
9 14	2 50.34	+38 54.3	0.465	1.287	44.1	20.1	117 W	84	25
9 16	2 44.92	+41 7.2	0.465	1.294	43.0	20.1	119 W	86	23
9 18	2 38.82	+43 16.6	0.466	1.302	41.9	20.1	120 W	88	21
9 20	2 32.02	+45 21.3	0.468	1.310	40.9	20.0	121 W	90	19
9 22	2 24.48	+47 20.6	0.471	1.318	39.9	20.0	123 W	88	17
9 24	2 16.18	+49 13.3	0.474	1.326	39.1	20.0	124 W	86	15
9 26	2 7.14	+50 58.7	0.479	1.334	38.2	20.1	125 W	84	13
9 28	1 57.36	+52 35.9	0.484	1.342	37.5	20.1	125 W	82	11
9 30	1 46.89	+54 4.2	0.491	1.350	36.8	20.1	126 W	81	10
10 2	1 35.81	+55 23.1	0.498	1.358	36.3	20.1	127 W	80	9
10 4	1 24.21	+56 32.1	0.506	1.366	35.8	20.2	127 W	78	7
10 6	1 12.23	+57 31.1	0.515	1.374	35.3	20.2	127 W	77	6
10 8	1 0.01	+58 20.0	0.524	1.382	35.0	20.2	128 W	77	6
10 10	0 47.73	+58 59.0	0.534	1.390	34.7	20.3	128 E	76	5
10 12	0 35.56	+59 28.6	0.545	1.398	34.5	20.3	128 E	76	5
10 14	0 23.67	+59 49.2	0.557	1.406	34.3	20.4	127 E	75	4

465166 2007 *EL* *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 16	0 12.23	+60 1.6	0.569	1.415	34.2	20.4	127 E	75	4
10 18	0 1.37	+60 6.6	0.581	1.423	34.1	20.5	127 E	75	4
10 20	23 51.19	+60 5.1	0.595	1.431	34.1	20.6	126 E	75	4
10 22	23 41.78	+59 58.0	0.608	1.439	34.1	20.6	126 E	75	4
10 24	23 33.18	+59 46.3	0.623	1.447	34.1	20.7	125 E	75	4
10 26	23 25.41	+59 30.6	0.637	1.454	34.2	20.8	125 E	75	4
10 28	23 18.47	+59 11.9	0.652	1.462	34.2	20.8	124 E	76	5
10 30	23 12.33	+58 50.7	0.668	1.470	34.3	20.9	123 E	76	5
11 1	23 6.96	+58 27.7	0.683	1.478	34.4	20.9	123 E	77	6
11 3	23 2.33	+58 3.4	0.699	1.486	34.5	21.0	122 E	77	6
11 5	22 58.40	+57 38.2	0.716	1.494	34.6	21.1	121 E	77	6
11 7	22 55.13	+57 12.4	0.732	1.502	34.7	21.1	120 E	78	7
11 9	22 52.46	+56 46.5	0.749	1.509	34.8	21.2	120 E	78	7
11 11	22 50.35	+56 20.7	0.767	1.517	34.9	21.3	119 E	79	8
11 13	22 48.78	+55 55.2	0.784	1.525	34.9	21.3	118 E	79	8
11 15	22 47.69	+55 30.1	0.801	1.532	35.0	21.4	117 E	79	8
11 17	22 47.06	+55 5.7	0.819	1.540	35.1	21.4	116 E	80	9

277572 2005 YR_{186}

3 22	17 47.25	− 8 18.3	1.455	1.829	32.9	21.4	95 W	37*	72*
4 1	18 1.56	− 8 5.2	1.336	1.810	32.9	21.2	101 W	37*	72
4 11	18 14.04	− 7 51.6	1.219	1.791	32.4	21.0	107 W	37*	72
4 21	18 24.29	− 7 41.7	1.107	1.770	31.3	20.7	114 W	37	72
5 1	18 31.78	− 7 41.3	0.999	1.750	29.5	20.4	121 W	37	72
5 6	18 34.33	− 7 46.9	0.949	1.739	28.3	20.2	125 W	37	72
5 11	18 35.98	− 7 57.8	0.900	1.728	26.8	20.1	130 W	37	72
5 16	18 36.66	− 8 14.9	0.853	1.717	25.1	19.9	134 W	37	72
5 21	18 36.28	− 8 39.6	0.810	1.706	23.1	19.7	139 W	36	73
5 26	18 34.78	− 9 13.0	0.769	1.695	20.7	19.5	144 W	36	73
5 31	18 32.15	− 9 56.1	0.732	1.684	18.1	19.3	149 W	35	74
6 5	18 28.38	−10 49.7	0.700	1.673	15.2	19.1	154 W	34	75
6 10	18 23.51	−11 54.2	0.671	1.662	12.1	18.9	160 W	33	76
6 20	18 10.94	−14 34.5	0.628	1.639	5.9	18.4	170 W	30	79
6 30	17 56.08	−17 47.7	0.607	1.617	6.8	18.4	169 E	27	82
7 10	17 41.54	−21 15.6	0.607	1.595	14.0	18.6	158 E	24	85
7 15	17 35.23	−22 58.8	0.614	1.584	17.8	18.8	152 E	22	87
7 20	17 29.94	−24 38.9	0.626	1.573	21.4	18.9	146 E	20	89
7 25	17 25.93	−26 14.4	0.641	1.562	24.7	19.0	140 E	19	90
7 30	17 23.35	−27 44.6	0.660	1.552	27.7	19.2	135 E	17	88
8 9	17 22.72	−30 27.8	0.705	1.531	32.8	19.4	125 E	15	86
8 19	17 28.11	−32 47.4	0.758	1.512	36.8	19.7	117 E	12	83
8 29	17 39.20	−34 43.9	0.815	1.494	39.6	19.9	109 E	10*	81
9 3	17 46.69	−35 33.3	0.845	1.485	40.7	20.0	106 E	9*	80
9 8	17 55.35	−36 16.7	0.875	1.477	41.6	20.1	103 E	9*	80
9 13	18 5.10	−36 53.8	0.905	1.469	42.3	20.2	100 E	8*	79
9 18	18 15.87	−37 24.3	0.935	1.462	42.9	20.2	98 E	8*	79
9 23	18 27.57	−37 47.9	0.965	1.455	43.4	20.3	95 E	7*	78
9 28	18 40.10	−38 4.4	0.995	1.449	43.7	20.4	93 E	7*	78*
10 3	18 53.37	−38 13.4	1.025	1.443	43.9	20.4	91 E	7*	77*
10 8	19 7.26	−38 14.6	1.054	1.437	44.0	20.5	89 E	7	77*
10 13	19 21.70	−38 7.6	1.083	1.432	44.1	20.5	87 E	7	76*
10 18	19 36.59	−37 52.4	1.112	1.428	44.0	20.6	85 E	7	75*
10 23	19 51.84	−37 28.8	1.141	1.424	43.9	20.6	83 E	8	75*
10 28	20 7.35	−36 56.8	1.170	1.421	43.8	20.7	82 E	8	74*
11 2	20 23.02	−36 16.4	1.198	1.418	43.6	20.7	80 E	9	73*
11 7	20 38.77	−35 27.7	1.227	1.416	43.3	20.8	79 E	10	72*
11 12	20 54.53	−34 30.9	1.255	1.415	43.0	20.8	77 E	10	71*
11 17	21 10.26	−33 26.4	1.283	1.414	42.7	20.8	76 E	12	70*
11 22	21 25.89	−32 14.4	1.312	1.414	42.3	20.9	74 E	13	68*
11 27	21 41.37	−30 55.5	1.341	1.414	41.9	20.9	73 E	14	67*
12 2	21 56.67	−29 30.2	1.370	1.415	41.4	21.0	72 E	15	65*
12 7	22 11.76	−27 58.9	1.399	1.417	41.0	21.0	71 E	17	63*
12 12	22 26.65	−26 22.3	1.428	1.419	40.5	21.0	69 E	19	61*
12 17	22 41.31	−24 41.0	1.459	1.422	39.9	21.1	68 E	20	59*
12 22	22 55.76	−22 55.4	1.489	1.426	39.4	21.1	67 E	22*	57*
12 27	23 9.98	−21 6.4	1.520	1.430	38.8	21.1	66 E	24*	55*
1 1	23 24.00	−19 14.6	1.552	1.434	38.2	21.2	64 E	26*	53*
1 6	23 37.81	−17 20.4	1.585	1.440	37.6	21.2	63 E	27*	51*
1 11	23 51.45	−15 24.5	1.618	1.445	36.9	21.2	62 E	29*	48*
1 16	0 4.92	−13 27.5	1.652	1.451	36.2	21.3	61 E	30*	46*

248107 2004 RA_{109}

3 22	17 52.18	−30 16.5	1.677	1.999	29.9	21.3	93 W	15*	85*
4 1	18 9.89	−30 53.4	1.542	1.967	30.1	21.1	99 W	14*	85
4 11	18 26.37	−31 27.7	1.411	1.936	29.9	20.9	105 W	13*	85
4 21	18 41.25	−32 1.4	1.286	1.905	29.3	20.6	112 W	13*	84
5 1	18 54.03	−32 36.2	1.169	1.875	28.1	20.3	119 W	12*	83

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
248107 2004 RA_{109} *(continuation)*									
5 6	18 59.47	−32 54.7	1.113	1.861	27.2	20.2	122 W	12	83
5 11	19 4.19	−33 14.0	1.060	1.846	26.2	20.0	126 W	12	83
5 16	19 8.10	−33 34.3	1.010	1.832	25.0	19.9	130 W	11	82
5 21	19 11.11	−33 55.6	0.962	1.818	23.6	19.7	134 W	11	82
5 26	19 13.15	−34 17.7	0.918	1.804	22.0	19.6	138 W	11	82
5 31	19 14.16	−34 40.1	0.877	1.791	20.2	19.4	142 W	10	81
6 5	19 14.10	−35 2.3	0.839	1.777	18.2	19.2	147 W	10	81
6 10	19 12.96	−35 23.5	0.805	1.765	16.0	19.0	151 W	10	81
6 15	19 10.74	−35 42.7	0.776	1.752	13.8	18.9	156 W	9	80
6 20	19 7.51	−35 58.6	0.750	1.740	11.6	18.7	160 W	9	80
6 25	19 3.41	−36 9.9	0.729	1.729	9.6	18.5	164 W	9	80
6 30	18 58.66	−36 15.3	0.713	1.717	8.2	18.4	166 W	9	80
7 5	18 53.52	−36 14.0	0.702	1.707	8.0	18.4	167 E	9	80
7 10	18 48.30	−36 5.4	0.695	1.697	9.1	18.4	165 E	9	80
7 15	18 43.29	−35 49.3	0.692	1.687	11.1	18.4	161 E	9	80
7 20	18 38.81	−35 26.1	0.694	1.678	13.6	18.5	157 E	10	81
7 25	18 35.14	−34 56.5	0.701	1.669	16.2	18.6	153 E	10	81
7 30	18 32.50	−34 21.6	0.711	1.662	18.9	18.7	148 E	11	82
8 4	18 31.03	−33 42.7	0.725	1.654	21.4	18.8	143 E	11	82
8 9	18 30.80	−33 0.8	0.742	1.648	23.8	19.0	139 E	12	83
8 14	18 31.81	−32 16.9	0.763	1.642	26.0	19.1	135 E	13	84
8 19	18 34.06	−31 31.7	0.786	1.636	28.0	19.2	131 E	13	84
8 24	18 37.49	−30 45.7	0.812	1.632	29.8	19.3	127 E	14	85
8 29	18 42.05	−29 59.2	0.840	1.628	31.3	19.4	123 E	15	86
9 3	18 47.61	−29 12.3	0.869	1.625	32.7	19.5	120 E	16	87
9 8	18 54.08	−28 25.1	0.901	1.622	33.8	19.6	116 E	17	88
9 13	19 1.36	−27 37.2	0.935	1.620	34.8	19.7	113 E	17	88
9 18	19 9.37	−26 48.7	0.970	1.619	35.6	19.8	110 E	18	89
9 23	19 18.02	−25 59.2	1.006	1.619	36.3	19.9	107 E	19	90
9 28	19 27.23	−25 8.6	1.044	1.619	36.8	20.0	105 E	20	89
10 3	19 36.91	−24 16.6	1.083	1.621	37.1	20.1	102 E	21	88
10 8	19 46.98	−23 23.1	1.124	1.623	37.4	20.2	100 E	22	87
10 18	20 8.06	−21 30.7	1.208	1.629	37.6	20.4	95 E	23	85*
10 28	20 30.07	−19 30.7	1.297	1.637	37.4	20.5	90 E	25	80*
11 7	20 52.62	−17 22.8	1.389	1.649	36.8	20.7	86 E	28	74*
11 17	21 15.45	−15 7.5	1.485	1.663	36.0	20.8	82 E	30	68*
11 27	21 38.38	−12 45.2	1.585	1.680	35.0	21.0	78 E	32	62*
12 7	22 1.26	−10 17.3	1.687	1.699	33.8	21.1	74 E	35	55*
12 17	22 24.02	− 7 44.9	1.792	1.720	32.5	21.2	70 E	37*	49*
12 27	22 46.62	− 5 9.3	1.899	1.743	31.0	21.3	66 E	39*	43*
1 6	23 9.03	− 2 32.1	2.007	1.768	29.3	21.4	62 E	41*	38*
176102 2001 BB_{61}									
3 22	17 54.67	+ 0 39.5	2.729	2.950	19.7	21.4	93 W	45*	63*
4 1	18 0.11	+ 1 51.6	2.594	2.942	19.5	21.3	100 W	47*	62
4 11	18 3.56	+ 3 8.0	2.462	2.932	19.0	21.2	108 W	48	61
4 21	18 4.80	+ 4 26.1	2.338	2.922	18.0	21.0	116 W	49	60
5 1	18 3.65	+ 5 42.1	2.225	2.911	16.7	20.8	124 W	51	58
5 11	18 0.07	+ 6 51.4	2.126	2.899	15.1	20.7	132 W	52	57
5 21	17 54.16	+ 7 48.4	2.045	2.886	13.3	20.5	139 W	53	56
5 31	17 46.26	+ 8 27.6	1.984	2.871	11.8	20.4	145 W	53	56
6 10	17 36.99	+ 8 43.8	1.946	2.856	10.9	20.3	148 W	54	55
6 20	17 27.14	+ 8 34.0	1.932	2.841	11.1	20.3	147 E	54	55
6 30	17 17.65	+ 7 57.7	1.942	2.824	12.4	20.3	143 E	53	56
7 10	17 9.40	+ 6 57.3	1.974	2.806	14.3	20.4	137 E	52	57
7 20	17 3.05	+ 5 37.4	2.027	2.787	16.3	20.5	130 E	51	58
7 30	16 59.03	+ 4 3.2	2.097	2.768	18.2	20.7	122 E	49	60
8 9	16 57.53	+ 2 20.4	2.180	2.747	19.8	20.8	114 E	47*	62
8 19	16 58.53	+ 0 33.6	2.273	2.726	20.9	20.9	106 E	45*	63
8 29	17 1.93	− 1 13.5	2.372	2.704	21.7	21.0	98 E	43*	65
9 8	17 7.54	− 2 57.8	2.475	2.680	22.1	21.1	91 E	40*	67*
9 18	17 15.16	− 4 37.3	2.579	2.656	22.1	21.1	83 E	38*	65*
9 28	17 24.59	− 6 10.2	2.681	2.632	21.7	21.2	76 E	36*	62*
10 8	17 35.63	− 7 35.4	2.779	2.606	21.1	21.2	70 E	34*	57*
10 18	17 48.12	− 8 51.9	2.872	2.580	20.2	21.3	63 E	32*	51*
10 28	18 1.89	− 9 58.9	2.957	2.552	19.0	21.3	57 E	30*	44*
11 7	18 16.78	−10 55.8	3.034	2.525	17.7	21.2	51 E	28*	38*
11 17	18 32.68	−11 42.2	3.102	2.496	16.1	21.2	45 E	26*	31*
11 27	18 49.46	−12 17.6	3.159	2.466	14.5	21.2	39 E	23*	24*
12 7	19 6.98	−12 41.9	3.205	2.436	12.7	21.1	33 E	21*	18*
12 17	19 25.17	−12 55.0	3.239	2.406	10.8	21.0	27 E	18*	12*
12 27	19 43.89	−12 57.0	3.260	2.374	8.8	20.9	22 E	14*	6*
1 6	20 3.08	−12 48.2	3.270	2.343	6.8	20.8	16 E	10*	1*
1 16	20 22.64	−12 28.9	3.267	2.310	4.8	20.7	11 E	5*	—
137802 1999 YT									
3 22	18 17.69	+ 4 43.7	2.038	2.221	26.6	21.4	87 W	48*	58*
4 1	18 27.69	+ 5 40.3	1.900	2.194	27.0	21.2	93 W	50*	58*
4 11	18 35.81	+ 6 40.8	1.761	2.166	27.1	21.0	100 W	51*	57
4 21	18 41.69	+ 7 41.9	1.624	2.136	26.8	20.8	106 W	53*	56
5 1	18 44.88	+ 8 39.2	1.490	2.104	26.1	20.6	113 W	54	55
5 11	18 44.91	+ 9 26.1	1.363	2.071	24.8	20.3	121 W	54	55

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
137802 1999 YT *(continuation)*									
5 16	18 43.60	+ 9 43.3	1.302	2.053	23.9	20.2	125 W	55	54
5 21	18 41.31	+ 9 54.5	1.244	2.036	22.9	20.0	129 W	55	54
5 26	18 38.02	+ 9 58.2	1.189	2.017	21.7	19.9	133 W	55	54
5 31	18 33.71	+ 9 52.9	1.138	1.999	20.5	19.7	136 W	55	54
6 5	18 28.39	+ 9 36.8	1.090	1.980	19.1	19.5	140 W	55	54
6 10	18 22.12	+ 9 8.5	1.047	1.960	17.8	19.4	144 W	54	55
6 15	18 14.97	+ 8 26.3	1.009	1.940	16.7	19.3	147 W	53	56
6 20	18 7.09	+ 7 29.3	0.976	1.920	15.8	19.1	149 W	52	57
6 30	17 50.00	+ 4 48.6	0.929	1.878	15.8	19.0	150 E	50	59
7 10	17 32.88	+ 1 11.0	0.906	1.835	18.4	19.0	145 E	46	63
7 20	17 17.81	− 3 7.7	0.907	1.791	22.7	19.0	137 E	42	67
7 25	17 11.60	− 5 26.0	0.915	1.768	25.0	19.1	133 E	40	69
7 30	17 6.50	− 7 46.7	0.929	1.745	27.4	19.2	128 E	37	72
8 4	17 2.58	−10 7.4	0.946	1.722	29.7	19.3	123 E	35	74
8 9	16 59.89	−12 26.6	0.968	1.699	31.8	19.3	118 E	33*	76
8 14	16 58.43	−14 42.8	0.991	1.675	33.7	19.4	113 E	30*	79
8 19	16 58.22	−16 55.2	1.018	1.651	35.5	19.5	109 E	28*	81
8 29	17 1.42	−21 6.5	1.074	1.603	38.3	19.6	101 E	23*	85
9 8	17 9.17	−24 58.3	1.133	1.554	40.3	19.7	93 E	19*	87*
9 18	17 21.20	−28 30.1	1.190	1.506	41.7	19.8	86 E	15*	80*
9 28	17 37.33	−31 42.0	1.244	1.458	42.6	19.8	80 E	12*	73*
10 8	17 57.40	−34 32.8	1.291	1.411	43.1	19.9	75 E	9*	68*
10 18	18 21.36	−37 0.8	1.330	1.366	43.4	19.9	70 E	7*	63*
10 28	18 49.20	−39 2.5	1.361	1.322	43.4	19.9	66 E	5*	59*
11 7	19 20.77	−40 33.2	1.383	1.282	43.5	19.8	63 E	4*	56*
11 17	19 55.88	−41 26.8	1.395	1.246	43.5	19.8	60 E	3*	53*
11 22	20 14.62	−41 37.6	1.398	1.229	43.6	19.8	59 E	3*	53*
11 27	20 34.04	−41 36.5	1.399	1.214	43.7	19.7	58 E	3*	52*
12 2	20 54.03	−41 22.7	1.398	1.200	43.8	19.7	57 E	3*	51*
12 7	21 14.48	−40 55.3	1.396	1.188	43.9	19.7	57 E	4*	51*
12 12	21 35.27	−40 13.6	1.392	1.177	44.1	19.7	56 E	4*	50*
12 17	21 56.26	−39 17.2	1.387	1.169	44.3	19.6	56 E	5*	50*
12 22	22 17.31	−38 5.8	1.382	1.161	44.5	19.6	56 E	6*	50*
12 27	22 38.30	−36 39.1	1.376	1.156	44.7	19.6	56 E	8*	50*
1 1	22 59.12	−34 57.5	1.370	1.153	44.9	19.6	56 E	9*	50*
1 6	23 19.66	−33 1.2	1.365	1.152	45.0	19.6	56 E	11*	50*
1 11	23 39.87	−30 51.0	1.361	1.152	45.1	19.6	56 E	13*	49*
1 16	23 59.70	−28 27.9	1.359	1.155	45.2	19.6	56 E	15*	49*
279120 2009 ON_{10}									
3 22	18 25.75	−33 30.1	2.079	2.245	26.3	21.3	86 W	10*	78*
4 1	18 42.99	−34 6.4	1.922	2.202	27.0	21.1	92 W	10*	81*
4 11	18 59.34	−34 43.2	1.768	2.160	27.3	20.9	99 W	9*	81
4 21	19 14.53	−35 22.6	1.618	2.117	27.3	20.7	105 W	9*	81
5 1	19 28.19	−36 6.6	1.475	2.074	26.8	20.4	112 W	9*	80
5 6	19 34.32	−36 31.0	1.407	2.052	26.4	20.3	115 W	8*	79
5 11	19 39.92	−36 57.3	1.340	2.031	25.8	20.2	119 W	8*	79
5 16	19 44.90	−37 25.8	1.276	2.009	25.1	20.0	122 W	8*	79
5 21	19 49.20	−37 56.5	1.215	1.988	24.3	19.8	126 W	7*	78
5 26	19 52.72	−38 29.4	1.157	1.966	23.3	19.7	130 W	7	78
5 31	19 55.39	−39 4.5	1.101	1.945	22.1	19.5	134 W	6	77
6 5	19 57.12	−39 41.3	1.049	1.924	20.9	19.4	138 W	5	76
6 10	19 57.86	−40 19.3	1.001	1.903	19.4	19.2	141 W	5	76
6 15	19 57.51	−40 57.8	0.956	1.882	17.9	19.0	145 W	4	75
6 20	19 56.02	−41 35.5	0.916	1.862	16.4	18.8	149 W	3	74
6 25	19 53.39	−42 11.0	0.879	1.841	14.8	18.7	152 W	3	74
6 30	19 49.67	−42 42.5	0.847	1.821	13.5	18.5	155 W	2	73
7 5	19 44.98	−43 8.2	0.820	1.801	12.5	18.4	157 W	2	73
7 10	19 39.50	−43 26.2	0.797	1.782	12.2	18.3	158 W	2	73
7 15	19 33.47	−43 34.9	0.779	1.763	12.5	18.2	158 E	1	72
7 20	19 27.20	−43 32.9	0.766	1.744	13.6	18.2	156 E	1	72
7 25	19 21.08	−43 19.5	0.757	1.726	15.2	18.2	153 E	2	73
7 30	19 15.48	−42 54.8	0.752	1.709	17.3	18.3	150 E	2	73
8 4	19 10.72	−42 19.4	0.751	1.691	19.5	18.3	146 E	3	74
8 9	19 7.04	−41 34.4	0.754	1.675	21.8	18.4	142 E	3	74
8 14	19 4.63	−40 41.2	0.761	1.659	24.1	18.4	138 E	4	75
8 19	19 3.60	−39 41.3	0.771	1.644	26.3	18.5	134 E	5	76
8 24	19 4.01	−38 36.0	0.783	1.629	28.4	18.6	130 E	6	77
8 29	19 5.83	−37 26.6	0.798	1.615	30.3	18.7	126 E	8	79
9 3	19 8.99	−36 14.1	0.816	1.602	32.1	18.7	123 E	9	80
9 8	19 13.39	−34 59.2	0.835	1.590	33.6	18.8	119 E	10	81
9 13	19 18.92	−33 42.2	0.856	1.579	35.0	18.9	116 E	11	82
9 18	19 25.50	−32 23.6	0.879	1.568	36.3	19.0	113 E	13	84
9 23	19 33.00	−31 3.3	0.903	1.559	37.3	19.0	110 E	14	85
9 28	19 41.31	−29 41.5	0.928	1.551	38.2	19.1	107 E	15	86
10 3	19 50.33	−28 18.2	0.955	1.543	38.9	19.2	104 E	17	88
10 8	19 59.94	−26 53.3	0.983	1.537	39.5	19.3	102 E	18	89
10 13	20 10.07	−25 26.6	1.012	1.532	40.0	19.3	99 E	20	89
10 18	20 20.64	−23 58.3	1.042	1.528	40.3	19.4	97 E	21	88

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
279120 2009 ON_{10} *(continuation)*									
10 23	20 31.58	−22 28.1	1.074	1.525	40.6	19.5	95 E	23	86*
10 28	20 42.83	−20 56.2	1.106	1.523	40.7	19.5	93 E	24	83*
11 2	20 54.31	−19 22.7	1.140	1.522	40.7	19.6	91 E	26	80*
11 7	21 5.98	−17 47.5	1.174	1.523	40.6	19.7	89 E	27	77*
11 17	21 29.76	−14 33.0	1.247	1.527	40.2	19.8	85 E	30	70*
11 27	21 53.91	−11 14.0	1.325	1.536	39.5	19.9	82 E	34	64*
12 7	22 18.21	− 7 52.3	1.407	1.549	38.6	20.0	79 E	37	57*
12 17	22 42.59	− 4 29.8	1.495	1.566	37.4	20.2	75 E	41	51*
12 27	23 6.97	− 1 8.5	1.587	1.588	36.1	20.3	72 E	44*	45*
1 6	23 31.32	+ 2 9.6	1.683	1.612	34.6	20.4	69 E	46*	40*
1 16	23 55.66	+ 5 22.5	1.783	1.640	33.1	20.5	65 E	48*	35*
7341 1991 *VK*									
3 22	18 40.39	−26 47.5	2.271	2.358	24.8	21.5	83 W	16*	77*
4 1	18 48.79	−26 43.0	2.171	2.399	24.6	21.4	91 W	17*	84*
4 11	18 54.62	−26 40.5	2.070	2.437	24.0	21.3	99 W	18*	89
4 21	18 57.54	−26 41.0	1.968	2.474	22.7	21.2	108 W	18*	89
5 1	18 57.22	−26 45.1	1.872	2.508	20.8	21.1	118 W	18*	89
5 11	18 53.42	−26 52.3	1.785	2.540	18.1	20.9	128 W	18	89
5 21	18 46.08	−27 0.8	1.713	2.570	14.8	20.7	140 W	18	89
5 31	18 35.44	−27 7.6	1.660	2.597	10.7	20.5	152 W	18	89
6 10	18 22.24	−27 9.1	1.632	2.623	6.2	20.3	164 W	18	89
6 15	18 15.04	−27 6.8	1.629	2.635	3.8	20.2	170 W	18	89
6 20	18 7.67	−27 2.3	1.632	2.647	1.8	20.1	175 W	18	89
6 25	18 0.32	−26 55.5	1.644	2.658	1.9	20.1	175 E	18	89
6 30	17 53.19	−26 46.7	1.662	2.668	4.0	20.3	170 E	18	89
7 5	17 46.44	−26 36.0	1.688	2.678	6.2	20.5	163 E	18	89
7 10	17 40.23	−26 24.0	1.720	2.688	8.3	20.6	157 E	19	90
7 15	17 34.66	−26 11.2	1.760	2.697	10.4	20.7	151 E	19	90
7 20	17 29.83	−25 57.9	1.805	2.705	12.2	20.9	146 E	19	90
7 25	17 25.79	−25 44.7	1.856	2.713	13.9	21.0	140 E	19	90
7 30	17 22.58	−25 32.0	1.911	2.721	15.4	21.1	134 E	19	90
8 4	17 20.18	−25 20.0	1.971	2.728	16.8	21.2	129 E	20	89
8 9	17 18.60	−25 9.0	2.035	2.734	17.9	21.4	124 E	20	89
8 14	17 17.79	−24 59.0	2.102	2.741	18.9	21.5	119 E	20	89
396593 2001 *HC*									
3 22	18 50.94	−33 8.6	1.004	1.298	49.3	21.4	81 W	10*	73*
3 27	19 3.63	−34 35.5	0.964	1.304	49.5	21.3	83 W	8*	74*
4 1	19 16.69	−36 6.9	0.923	1.309	49.6	21.3	86 W	7*	75*
4 6	19 30.23	−37 43.4	0.881	1.311	49.7	21.2	88 W	5*	75*
4 11	19 44.39	−39 26.1	0.839	1.311	49.8	21.1	90 W	3*	75*
4 16	19 59.33	−41 15.5	0.797	1.309	50.0	21.0	93 W	1*	74*
4 21	20 15.26	−43 12.6	0.756	1.305	50.1	20.8	95 W	—	72*
4 26	20 32.46	−45 17.6	0.715	1.299	50.4	20.7	96 W	—	70*
5 1	20 51.31	−47 30.6	0.676	1.290	50.6	20.6	98 W	—	68*
5 6	21 12.32	−49 50.8	0.638	1.279	51.1	20.4	99 W	—	66*
5 11	21 36.17	−52 16.0	0.602	1.267	51.6	20.3	100 W	—	64*
5 13	21 46.69	−53 14.9	0.589	1.261	51.9	20.3	101 W	—	63*
5 15	21 57.86	−54 13.6	0.575	1.255	52.3	20.2	101 W	—	62*
5 17	22 9.75	−55 11.9	0.562	1.248	52.7	20.2	101 W	—	61*
5 19	22 22.43	−56 9.2	0.550	1.241	53.1	20.1	101 W	—	59*
5 21	22 35.95	−57 4.8	0.538	1.234	53.6	20.1	101 W	—	58*
5 23	22 50.39	−57 58.2	0.526	1.226	54.2	20.0	101 W	—	57*
5 25	23 5.81	−58 48.4	0.515	1.219	54.8	20.0	101 W	—	56*
5 27	23 22.23	−59 34.6	0.505	1.210	55.5	19.9	100 W	—	55*
5 29	23 39.69	−60 15.6	0.495	1.202	56.2	19.9	100 W	—	54*
5 31	23 58.16	−60 50.4	0.486	1.192	57.1	19.9	99 W	—	53*
6 2	0 17.58	−61 17.8	0.477	1.183	58.0	19.8	99 W	—	52*
6 4	0 37.83	−61 36.7	0.469	1.173	59.0	19.8	98 W	—	51*
6 6	0 58.76	−61 46.0	0.461	1.163	60.0	19.8	97 W	—	50*
6 8	1 20.14	−61 45.0	0.454	1.153	61.2	19.8	96 W	—	49*
6 10	1 41.72	−61 32.9	0.448	1.142	62.4	19.8	95 W	—	48*
6 11	1 52.50	−61 22.5	0.445	1.136	63.1	19.8	94 W	—	48*
6 12	2 3.22	−61 9.2	0.442	1.130	63.8	19.8	93 W	—	47*
6 13	2 13.86	−60 53.1	0.439	1.124	64.5	19.7	93 W	—	47*
6 14	2 24.37	−60 34.1	0.436	1.119	65.2	19.7	92 W	—	47*
6 15	2 34.74	−60 12.2	0.434	1.113	65.9	19.7	91 W	—	46*
6 16	2 44.92	−59 47.4	0.432	1.106	66.7	19.7	90 W	—	46*
6 17	2 54.91	−59 20.0	0.429	1.100	67.4	19.7	90 W	—	45*
6 18	3 4.67	−58 49.8	0.427	1.094	68.2	19.7	89 W	—	45*
6 19	3 14.20	−58 17.1	0.426	1.088	69.0	19.8	88 W	—	45*
6 20	3 23.47	−57 41.8	0.424	1.081	69.9	19.8	87 W	—	44*
6 22	3 41.21	−56 24.1	0.421	1.068	71.6	19.8	85 W	—	43*
6 24	3 57.86	−54 57.5	0.418	1.054	73.3	19.8	83 W	—	43*
6 26	4 13.42	−53 22.8	0.416	1.040	75.2	19.8	81 W	—	42*
6 28	4 27.90	−51 40.8	0.415	1.025	77.1	19.8	79 W	—	41*
6 30	4 41.36	−49 52.2	0.414	1.011	79.1	19.9	77 W	—	41*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
396593 2001 *HC* *(continuation)*									
7 2	4 53.86	−47 57.6	0.414	0.995	81.1	19.9	75 W	—	40*
7 4	5 5.49	−45 57.5	0.414	0.979	83.1	19.9	73 W	—	40*
7 6	5 16.31	−43 52.6	0.414	0.963	85.3	20.0	71 W	—	39*
7 8	5 26.42	−41 43.2	0.415	0.947	87.4	20.0	68 W	—	39*
7 10	5 35.87	−39 29.7	0.417	0.930	89.6	20.1	66 W	—	38*
7 12	5 44.74	−37 12.3	0.420	0.913	91.9	20.2	64 W	—	38*
7 14	5 53.10	−34 51.5	0.422	0.895	94.1	20.2	61 W	—	38*
7 16	6 1.01	−32 27.5	0.426	0.877	96.4	20.3	59 W	—	37*
7 18	6 8.53	−30 0.4	0.430	0.858	98.7	20.4	57 W	—	37*
7 20	6 15.71	−27 30.7	0.435	0.839	101.0	20.5	54 W	—	36*
7 25	6 32.54	−21 5.9	0.451	0.790	106.6	20.7	48 W	—	35*
7 30	6 48.38	−14 30.9	0.474	0.740	111.7	21.0	43 W	—	33*
8 4	7 4.02	− 7 53.6	0.505	0.687	115.8	21.2	38 W	—	30*
8 9	7 20.24	− 1 25.3	0.546	0.634	118.3	21.4	33 W	1*	27*
8 14	7 37.86	+ 4 39.4	0.599	0.582	118.1	21.4	30 W	7*	24*
8 19	7 57.67	+10 4.2	0.666	0.533	114.7	21.2	29 W	12*	20*
8 24	8 20.36	+14 32.0	0.748	0.490	107.7	20.9	27 W	16*	16*
8 29	8 46.24	+17 46.9	0.844	0.457	97.3	20.4	27 W	18*	12*
9 3	9 14.96	+19 37.5	0.951	0.440	84.5	20.1	26 W	19*	9*
9 8	9 45.28	+20 2.6	1.062	0.441	70.9	19.8	24 W	18*	5*
9 10	9 57.47	+19 50.8	1.106	0.447	65.6	19.8	24 W	18*	4*
9 12	10 9.54	+19 28.3	1.149	0.455	60.5	19.8	23 W	17*	3*
9 14	10 21.38	+18 56.4	1.192	0.466	55.7	19.7	23 W	17*	2*
9 16	10 32.95	+18 16.6	1.233	0.480	51.3	19.8	22 W	16*	1*
9 18	10 44.17	+17 30.1	1.272	0.495	47.3	19.8	21 W	15*	—
9 20	10 55.03	+16 38.3	1.311	0.512	43.6	19.8	21 W	14*	—
9 22	11 5.51	+15 42.3	1.348	0.530	40.2	19.9	20 W	14*	—
9 24	11 15.61	+14 43.1	1.383	0.549	37.3	19.9	19 W	13*	—
9 26	11 25.33	+13 41.6	1.417	0.568	34.6	20.0	19 W	13*	—
9 28	11 34.70	+12 38.4	1.450	0.589	32.2	20.0	18 W	12*	—
10 3	11 56.66	+ 9 56.5	1.526	0.641	27.3	20.2	17 W	11*	—
10 8	12 16.82	+ 7 14.0	1.596	0.694	23.6	20.3	16 W	10*	—
10 13	12 35.50	+ 4 34.5	1.658	0.746	20.9	20.5	16 W	9*	—
10 18	12 52.98	+ 2 0.0	1.715	0.797	19.0	20.6	15 W	9*	—
10 23	13 9.49	− 0 28.5	1.767	0.845	17.7	20.8	15 W	9*	—
10 28	13 25.22	− 2 50.6	1.813	0.892	16.8	20.9	15 W	9*	—
11 2	13 40.34	− 5 6.3	1.854	0.935	16.4	21.1	15 W	9*	—
11 7	13 54.98	− 7 15.6	1.890	0.977	16.2	21.2	16 W	10*	2*
11 12	14 9.25	− 9 18.8	1.922	1.015	16.4	21.3	17 W	10*	3*
11 17	14 23.23	−11 16.1	1.949	1.052	16.7	21.4	18 W	10*	5*
434632 2005 *WE*									
3 22	18 59.87	−42 29.3	0.676	1.108	62.5	21.4	80 W	—	67*
3 27	19 31.02	−41 25.3	0.656	1.087	64.4	21.3	79 W	—	66*
4 1	20 1.93	−39 47.3	0.638	1.066	66.4	21.3	78 W	—	65*
4 6	20 32.09	−37 35.5	0.624	1.045	68.4	21.3	76 W	1*	65*
4 11	21 1.10	−34 51.5	0.613	1.025	70.4	21.3	74 W	1*	64*
4 16	21 28.72	−31 38.8	0.606	1.005	72.3	21.3	73 W	2*	63*
4 21	21 54.83	−28 1.5	0.603	0.985	74.2	21.3	71 W	4*	63*
4 26	22 19.43	−24 4.8	0.603	0.966	75.9	21.3	69 W	5*	62*
5 1	22 42.63	−19 53.9	0.608	0.948	77.3	21.3	67 W	7*	60*
5 6	23 4.62	−15 34.3	0.616	0.931	78.5	21.3	65 W	9*	59*
5 11	23 25.60	−11 11.0	0.628	0.916	79.3	21.4	63 W	11*	57*
5 16	23 45.79	− 6 48.6	0.644	0.902	79.8	21.4	61 W	13*	55*
5 21	0 5.38	− 2 31.1	0.663	0.890	79.9	21.4	60 W	15*	53*
5 26	0 24.55	+ 1 38.2	0.685	0.880	79.6	21.5	59 W	18*	50*
421450 2014 MF_{55}									
3 22	19 6.36	−20 34.5	1.944	1.959	29.6	21.5	76 W	21*	70*
4 1	19 27.06	−19 32.3	1.806	1.922	30.9	21.3	81 W	22*	74*
4 11	19 47.24	−18 17.8	1.669	1.885	32.0	21.1	86 W	23*	78*
4 21	20 6.78	−16 51.7	1.536	1.848	32.9	20.9	91 W	24*	80*
5 1	20 25.53	−15 14.7	1.406	1.811	33.6	20.7	96 W	26*	79
5 11	20 43.37	−13 28.1	1.282	1.775	34.0	20.5	101 W	28*	77
5 21	21 0.12	−11 33.1	1.164	1.740	34.0	20.2	106 W	31*	76
5 31	21 15.55	− 9 31.7	1.052	1.705	33.6	20.0	111 W	34*	74
6 10	21 29.43	− 7 26.1	0.948	1.673	32.8	19.7	117 W	37*	71
6 20	21 41.43	− 5 19.6	0.852	1.641	31.4	19.4	123 W	40*	69
6 30	21 51.15	− 3 16.3	0.766	1.612	29.4	19.0	129 W	42	67
7 5	21 55.05	− 2 17.6	0.726	1.598	28.1	18.9	132 W	43	66
7 10	21 58.24	− 1 21.7	0.689	1.585	26.6	18.7	136 W	44	65
7 15	22 0.67	− 0 29.8	0.655	1.572	24.9	18.5	139 W	45	64
7 20	22 2.30	+ 0 17.2	0.624	1.560	23.0	18.3	143 W	45	64
7 25	22 3.13	+ 0 58.1	0.595	1.549	20.9	18.2	147 W	46	63
7 30	22 3.18	+ 1 31.9	0.570	1.539	18.7	18.0	151 W	47	62
8 4	22 2.51	+ 1 57.8	0.549	1.529	16.3	17.8	155 W	47	62
8 9	22 1.20	+ 2 14.8	0.530	1.520	14.0	17.6	159 W	47	62

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
421450 2014 MF_{55} *(continuation)*									
8 19	21 57.20	+ 2 20.6	0.505	1.505	10.1	17.4	165 W	47	62
8 29	21 52.79	+ 1 50.2	0.495	1.494	9.8	17.3	165 E	47	62
9 8	21 49.84	+ 0 53.0	0.500	1.487	13.6	17.4	160 E	46	63
9 13	21 49.42	+ 0 18.8	0.508	1.484	16.1	17.6	156 E	45	64
9 18	21 49.89	− 0 16.7	0.520	1.483	18.7	17.7	152 E	45	64
9 23	21 51.37	− 0 51.3	0.535	1.483	21.2	17.8	148 E	44	65
9 28	21 53.90	− 1 23.4	0.553	1.484	23.6	18.0	144 E	44	65
10 3	21 57.47	− 1 51.5	0.574	1.486	25.8	18.1	140 E	43	66
10 8	22 2.01	− 2 14.7	0.597	1.488	27.7	18.3	136 E	43	66
10 18	22 13.78	− 2 43.9	0.653	1.497	31.1	18.6	129 E	42	67
10 28	22 28.63	− 2 47.8	0.719	1.509	33.6	18.9	123 E	42	67
11 7	22 45.81	− 2 26.7	0.793	1.525	35.3	19.2	117 E	43	66
11 17	23 4.67	− 1 43.1	0.876	1.545	36.5	19.4	112 E	43	66
11 27	23 24.73	− 0 39.8	0.967	1.567	37.1	19.7	107 E	44	65*
12 7	23 45.57	+ 0 39.2	1.064	1.592	37.3	20.0	102 E	46	63*
12 17	0 6.91	+ 2 10.2	1.169	1.620	37.1	20.2	97 E	47	59*
12 27	0 28.59	+ 3 49.9	1.280	1.650	36.5	20.4	93 E	49	55*
1 6	0 50.46	+ 5 34.7	1.396	1.682	35.8	20.6	88 E	51	51*
1 16	1 12.46	+ 7 21.8	1.516	1.715	34.8	20.8	84 E	52	47*
349694 2008 XF_3									
3 22	19 8.48	− 7 52.7	2.515	2.446	23.1	21.4	75 W	33*	62*
4 1	19 21.90	− 7 46.8	2.347	2.400	24.3	21.3	81 W	33*	67*
4 11	19 34.53	− 7 42.8	2.178	2.354	25.2	21.1	87 W	34*	71*
4 21	19 46.20	− 7 43.8	2.009	2.307	25.8	20.9	94 W	35*	72
5 1	19 56.70	− 7 53.7	1.842	2.260	26.0	20.7	101 W	35*	72
5 11	20 5.82	− 8 17.4	1.678	2.213	25.7	20.4	108 W	36*	72
5 16	20 9.77	− 8 36.3	1.598	2.189	25.3	20.3	112 W	36*	73
5 21	20 13.25	− 9 1.0	1.520	2.166	24.8	20.1	116 W	36*	73
5 26	20 16.22	− 9 32.6	1.444	2.142	24.1	20.0	120 W	35*	74
5 31	20 18.63	−10 12.1	1.371	2.119	23.2	19.8	125 W	35*	74
6 5	20 20.43	−11 0.5	1.300	2.095	22.0	19.6	129 W	34	75
6 10	20 21.58	−11 59.1	1.233	2.072	20.6	19.5	134 W	33	76
6 15	20 22.00	−13 8.9	1.170	2.048	19.0	19.3	139 W	32	77
6 20	20 21.65	−14 30.8	1.111	2.025	17.0	19.1	144 W	30	79
6 30	20 18.45	−17 53.4	1.008	1.979	12.2	18.6	156 W	27	82
7 10	20 11.88	−22 6.2	0.929	1.934	6.6	18.2	167 W	23	86
7 20	20 2.23	−26 56.6	0.877	1.890	3.4	17.8	174 W	18	89
7 25	19 56.56	−29 28.4	0.861	1.868	5.9	17.9	169 E	16	87
7 30	19 50.61	−31 59.4	0.852	1.847	9.3	18.0	163 E	13	84
8 4	19 44.64	−34 25.8	0.851	1.826	12.9	18.1	156 E	11	82
8 9	19 38.93	−36 44.3	0.855	1.806	16.3	18.2	150 E	8	79
8 14	19 33.77	−38 52.4	0.865	1.786	19.6	18.3	144 E	6	77
8 19	19 29.44	−40 48.5	0.880	1.766	22.6	18.4	138 E	4	75
8 24	19 26.21	−42 31.8	0.899	1.747	25.4	18.5	132 E	2	73
8 29	19 24.30	−44 2.5	0.922	1.729	27.8	18.6	127 E	1	72
9 3	19 23.82	−45 21.1	0.947	1.711	30.0	18.7	122 E	—	71
9 8	19 24.86	−46 28.4	0.975	1.694	31.9	18.8	117 E	—	70
9 13	19 27.46	−47 24.9	1.004	1.678	33.5	18.9	113 E	—	69
9 18	19 31.63	−48 11.6	1.034	1.663	34.8	19.0	109 E	—	68
9 23	19 37.34	−48 48.8	1.065	1.648	35.9	19.1	106 E	—	67
9 28	19 44.52	−49 17.2	1.096	1.634	36.8	19.2	102 E	—	67
10 3	19 53.06	−49 36.9	1.127	1.621	37.5	19.2	99 E	—	66
10 8	20 2.86	−49 48.0	1.157	1.610	38.1	19.3	96 E	—	66
10 13	20 13.81	−49 50.3	1.187	1.599	38.5	19.3	94 E	—	66
10 18	20 25.77	−49 43.8	1.217	1.589	38.8	19.4	91 E	—	66
10 23	20 38.62	−49 28.4	1.246	1.580	39.0	19.4	89 E	—	67*
10 28	20 52.20	−49 3.9	1.274	1.573	39.1	19.5	87 E	—	67*
11 2	21 6.37	−48 30.1	1.302	1.567	39.1	19.5	85 E	—	67*
11 7	21 20.99	−47 47.0	1.329	1.561	39.1	19.5	83 E	—	67*
11 12	21 35.91	−46 54.6	1.356	1.557	39.0	19.6	82 E	—	68*
11 17	21 51.04	−45 52.8	1.382	1.555	38.8	19.6	80 E	—	68*
11 22	22 6.25	−44 42.0	1.408	1.553	38.6	19.6	79 E	—	68*
11 27	22 21.45	−43 22.5	1.434	1.553	38.3	19.7	77 E	2	68*
12 2	22 36.56	−41 54.6	1.460	1.554	38.0	19.7	76 E	3	68*
12 7	22 51.51	−40 18.8	1.487	1.556	37.7	19.7	75 E	5	68*
12 12	23 6.26	−38 35.7	1.514	1.559	37.3	19.8	74 E	6	67*
12 17	23 20.78	−36 46.0	1.541	1.564	36.9	19.8	73 E	8	67*
12 22	23 35.06	−34 50.3	1.570	1.570	36.5	19.8	72 E	10	66*
12 27	23 49.06	−32 49.6	1.599	1.577	36.1	19.9	71 E	12	65*
1 1	0 2.80	−30 44.5	1.630	1.585	35.6	19.9	70 E	14	63*
1 6	0 16.28	−28 36.0	1.662	1.594	35.1	20.0	69 E	16	62*
1 11	0 29.50	−26 24.8	1.696	1.604	34.5	20.0	68 E	19*	60*
1 16	0 42.49	−24 11.8	1.731	1.616	34.0	20.0	67 E	21*	58*
306722 2000 WF_{107}									
3 22	19 14.68	−12 4.4	2.794	2.683	20.8	21.4	73 W	28*	64*
4 1	19 26.41	−12 3.1	2.623	2.642	21.9	21.3	80 W	29*	70*
4 11	19 37.17	−12 4.6	2.448	2.601	22.6	21.1	87 W	30*	74*
4 21	19 46.79	−12 11.2	2.273	2.559	23.0	20.9	95 W	30*	76

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
306722 2000 WF_{107} *(continuation)*									
5 1	19 55.00	−12 26.5	2.100	2.516	23.0	20.7	102 W	31*	76
5 11	20 1.55	−12 54.3	1.930	2.472	22.5	20.5	110 W	31*	77
5 21	20 6.11	−13 39.1	1.768	2.428	21.3	20.2	119 W	31*	78
5 31	20 8.29	−14 45.8	1.616	2.383	19.5	19.9	128 W	30	79
6 10	20 7.73	−16 19.2	1.478	2.338	16.7	19.6	139 W	29	80
6 20	20 4.08	−18 22.8	1.357	2.292	13.0	19.2	150 W	27	82
6 30	19 57.17	−20 56.8	1.259	2.246	8.4	18.8	161 W	24	85
7 5	19 52.56	−22 23.7	1.220	2.223	5.8	18.6	167 W	23	86
7 10	19 47.25	−23 55.6	1.187	2.199	3.2	18.4	173 W	21	88
7 15	19 41.37	−25 30.9	1.161	2.176	1.9	18.2	176 W	19	90
7 20	19 35.07	−27 7.6	1.142	2.153	3.9	18.3	172 E	18	89
7 25	19 28.55	−28 43.7	1.131	2.130	6.8	18.4	166 E	16	87
7 30	19 22.05	−30 17.0	1.126	2.106	9.9	18.5	159 E	15	86
8 4	19 15.79	−31 46.0	1.128	2.083	12.8	18.6	153 E	13	84
8 9	19 10.02	−33 9.3	1.136	2.060	15.7	18.7	147 E	12	83
8 14	19 4.94	−34 26.0	1.149	2.037	18.4	18.8	141 E	11	82
8 19	19 0.75	−35 35.7	1.167	2.014	20.8	18.9	135 E	9	80
8 24	18 57.61	−36 38.3	1.189	1.991	23.1	19.0	129 E	8	79
8 29	18 55.62	−37 34.2	1.215	1.968	25.1	19.0	124 E	7	78
9 8	18 55.30	−39 7.2	1.273	1.923	28.5	19.2	115 E	6	77
9 18	18 59.94	−40 18.0	1.337	1.879	31.0	19.3	106 E	5	76
9 28	19 9.37	−41 8.9	1.403	1.836	32.7	19.4	98 E	4	75
10 3	19 15.75	−41 27.4	1.436	1.816	33.3	19.5	95 E	4	75
10 8	19 23.15	−41 41.2	1.468	1.795	33.8	19.5	91 E	3	74*
10 13	19 31.51	−41 50.1	1.499	1.775	34.2	19.5	88 E	3	73*
10 18	19 40.78	−41 54.1	1.530	1.756	34.4	19.6	85 E	3	72*
10 23	19 50.89	−41 52.9	1.560	1.737	34.6	19.6	82 E	3	71*
10 28	20 1.77	−41 46.3	1.588	1.718	34.7	19.6	80 E	3	70*
11 2	20 13.32	−41 34.0	1.615	1.700	34.7	19.6	77 E	3	68*
11 7	20 25.49	−41 15.8	1.641	1.683	34.7	19.6	75 E	4	67*
11 12	20 38.21	−40 51.4	1.666	1.667	34.6	19.6	73 E	4	65*
11 17	20 51.40	−40 20.5	1.689	1.651	34.4	19.7	71 E	5	64*
11 22	21 4.99	−39 42.9	1.711	1.636	34.2	19.7	69 E	5	62*
11 27	21 18.92	−38 58.6	1.732	1.622	34.0	19.7	67 E	6*	61*
12 2	21 33.10	−38 7.5	1.752	1.609	33.8	19.7	65 E	7*	59*
12 7	21 47.48	−37 9.3	1.771	1.597	33.5	19.7	64 E	8*	58*
12 12	22 1.99	−36 4.3	1.790	1.586	33.2	19.7	62 E	9*	56*
12 17	22 16.60	−34 52.4	1.807	1.576	32.9	19.7	61 E	10*	54*
12 22	22 31.26	−33 33.8	1.825	1.567	32.6	19.7	59 E	11*	53*
12 27	22 45.91	−32 8.8	1.842	1.559	32.3	19.7	58 E	12*	51*
1 1	23 0.51	−30 37.8	1.858	1.553	31.9	19.7	57 E	14*	50*
1 6	23 15.06	−29 1.0	1.876	1.547	31.6	19.7	55 E	15*	48*
1 11	23 29.52	−27 18.8	1.893	1.543	31.2	19.7	54 E	16*	47*
1 16	23 43.88	−25 31.9	1.911	1.540	30.8	19.7	53 E	17*	45*
459561 2013 GM_{92}									
3 22	19 20.00	−21 24.5	1.545	1.575	37.2	21.4	73 W	19*	67*
4 1	19 48.28	−20 1.8	1.469	1.566	38.3	21.3	76 W	20*	70*
4 11	20 15.37	−18 22.4	1.396	1.561	39.1	21.2	79 W	21*	73*
4 21	20 41.05	−16 29.9	1.326	1.559	39.7	21.2	83 W	22*	75*
5 1	21 5.07	−14 28.1	1.258	1.562	40.1	21.1	86 W	23*	77*
5 11	21 27.24	−12 21.5	1.194	1.567	40.1	20.9	90 W	26*	76*
5 21	21 47.36	−10 14.2	1.132	1.577	39.8	20.8	95 W	28*	74
5 31	22 5.15	− 8 11.0	1.072	1.590	39.0	20.7	99 W	31*	72
6 10	22 20.36	− 6 16.2	1.014	1.606	37.7	20.6	105 W	35*	70
6 20	22 32.64	− 4 34.5	0.959	1.625	35.8	20.4	111 W	38*	69
6 30	22 41.57	− 3 10.8	0.908	1.647	33.2	20.3	118 W	41*	67
7 10	22 46.82	− 2 9.4	0.863	1.672	29.7	20.1	125 W	43	66
7 20	22 48.09	− 1 34.7	0.825	1.699	25.3	19.9	134 W	43	66
7 30	22 45.36	− 1 29.7	0.798	1.728	20.0	19.7	144 W	44	65
8 9	22 39.18	− 1 53.8	0.786	1.759	14.0	19.5	155 W	43	66
8 14	22 35.12	− 2 15.5	0.786	1.775	10.8	19.4	161 W	43	66
8 19	22 30.64	− 2 42.5	0.791	1.791	7.6	19.3	166 W	42	67
8 24	22 25.98	− 3 13.4	0.802	1.808	4.8	19.2	171 W	42	67
8 29	22 21.37	− 3 46.7	0.817	1.824	3.3	19.2	174 E	41	68
9 3	22 17.02	− 4 20.8	0.838	1.842	4.6	19.3	172 E	41	68
9 8	22 13.13	− 4 54.3	0.864	1.859	7.2	19.6	167 E	40	69
9 13	22 9.83	− 5 26.0	0.896	1.876	9.9	19.8	161 E	40	69
9 18	22 7.26	− 5 54.8	0.932	1.894	12.5	20.0	156 E	39	70
9 23	22 5.48	− 6 20.0	0.973	1.912	14.9	20.2	151 E	39	70
9 28	22 4.55	− 6 40.9	1.019	1.930	17.1	20.4	145 E	38	71
10 8	22 5.18	− 7 8.8	1.123	1.967	20.8	20.7	136 E	38	71
10 18	22 8.88	− 7 18.0	1.242	2.003	23.5	21.1	127 E	38	71
10 28	22 15.28	− 7 9.3	1.371	2.040	25.4	21.4	118 E	38	71
11 7	22 23.90	− 6 44.4	1.511	2.077	26.6	21.7	110 E	38	71

315020 2007 BG_{49}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	19 58.20	−28 34.0	1.270	1.253	46.5	21.5	66 W	9*	59*
3 27	20 17.78	−27 37.8	1.256	1.252	46.9	21.5	66 W	9*	60*
4 1	20 36.74	−26 32.8	1.243	1.252	47.2	21.4	67 W	9*	60*
4 6	20 55.06	−25 20.3	1.230	1.254	47.5	21.4	67 W	9*	61*
4 11	21 12.69	−24 1.2	1.219	1.257	47.7	21.4	68 W	9*	62*
4 16	21 29.62	−22 36.6	1.208	1.262	47.9	21.4	69 W	10*	63*
4 21	21 45.84	−21 7.7	1.198	1.268	48.0	21.4	70 W	10*	64*
4 26	22 1.35	−19 35.5	1.188	1.276	48.1	21.4	71 W	11*	64*
5 1	22 16.16	−18 0.9	1.178	1.285	48.1	21.4	72 W	12*	66*
5 6	22 30.28	−16 24.8	1.168	1.295	48.0	21.4	73 W	13*	67*
5 11	22 43.74	−14 47.9	1.157	1.306	47.9	21.4	74 W	14*	68*
5 16	22 56.55	−13 10.8	1.146	1.319	47.8	21.4	75 W	16*	68*
5 21	23 8.73	−11 34.3	1.134	1.332	47.6	21.4	76 W	17*	69*
5 26	23 20.27	− 9 58.9	1.122	1.347	47.4	21.4	78 W	19*	70*
5 31	23 31.19	− 8 25.1	1.109	1.362	47.1	21.4	80 W	21*	70*
6 5	23 41.48	− 6 53.3	1.095	1.379	46.7	21.4	82 W	23*	69*
6 10	23 51.16	− 5 23.7	1.080	1.396	46.3	21.3	83 W	25*	69*
6 15	0 0.21	− 3 56.7	1.064	1.414	45.7	21.3	86 W	28*	68*
6 20	0 8.61	− 2 32.6	1.048	1.433	45.1	21.3	88 W	31*	67
6 25	0 16.32	− 1 11.7	1.030	1.452	44.4	21.3	90 W	34*	65
6 30	0 23.31	+ 0 5.8	1.011	1.471	43.6	21.2	93 W	37*	64
7 5	0 29.56	+ 1 19.7	0.992	1.491	42.7	21.2	96 W	40*	63
7 10	0 35.02	+ 2 29.9	0.972	1.512	41.6	21.2	99 W	43*	62
7 15	0 39.64	+ 3 36.0	0.952	1.532	40.4	21.1	102 W	45*	60
7 20	0 43.33	+ 4 37.9	0.931	1.553	39.0	21.1	106 W	48*	59
7 25	0 46.04	+ 5 35.1	0.911	1.574	37.5	21.0	109 W	50*	58
7 30	0 47.71	+ 6 27.3	0.891	1.596	35.7	20.9	114 W	51*	58
8 4	0 48.28	+ 7 14.4	0.871	1.617	33.7	20.8	118 W	52	57
8 9	0 47.69	+ 7 55.7	0.853	1.638	31.5	20.8	122 W	53	56
8 14	0 45.91	+ 8 30.9	0.836	1.660	29.0	20.7	127 W	54	55
8 19	0 42.93	+ 8 59.3	0.822	1.681	26.3	20.6	133 W	54	55
8 24	0 38.77	+ 9 20.6	0.810	1.703	23.3	20.5	138 W	54	55
8 29	0 33.53	+ 9 34.3	0.802	1.724	20.1	20.4	144 W	55	54
9 8	0 20.47	+ 9 39.1	0.798	1.766	13.4	20.2	156 W	55	54
9 18	0 5.47	+ 9 16.0	0.814	1.808	6.9	20.1	167 W	54	55
9 28	23 50.84	+ 8 33.3	0.853	1.849	5.1	20.1	170 E	54	55
10 3	23 44.35	+ 8 8.5	0.882	1.869	7.3	20.3	166 E	53	56
10 8	23 38.67	+ 7 43.5	0.916	1.889	9.9	20.5	161 E	53	56
10 13	23 33.92	+ 7 19.6	0.956	1.909	12.6	20.8	155 E	52	57
10 18	23 30.19	+ 6 57.9	1.001	1.928	15.1	21.0	150 E	52	57
10 23	23 27.52	+ 6 39.4	1.050	1.947	17.3	21.2	144 E	52	57
10 28	23 25.88	+ 6 24.8	1.104	1.966	19.3	21.4	139 E	51	58

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3 22	20 4.94	−32 9.6	1.129	1.155	51.7	21.4	65 W	5*	58*
3 27	20 34.71	−30 30.0	1.058	1.087	55.4	21.2	64 W	5*	56*
4 1	21 6.75	−28 9.8	0.996	1.016	59.6	21.1	61 W	4*	54*
4 6	21 40.79	−25 1.8	0.945	0.942	64.1	20.9	58 W	4*	51*
4 11	22 16.37	−21 1.7	0.908	0.864	68.8	20.8	54 W	3*	47*
4 16	22 52.87	−16 10.8	0.889	0.783	73.5	20.7	48 W	3*	42*
4 21	23 29.67	−10 38.0	0.889	0.698	77.5	20.6	43 W	3*	36*
4 26	0 6.38	− 4 38.9	0.912	0.609	80.1	20.4	37 W	3*	31*
5 1	0 43.02	+ 1 28.3	0.960	0.519	79.9	20.2	30 W	3*	24*
5 3	0 57.79	+ 3 53.7	0.985	0.483	78.6	20.0	28 W	3*	22*
5 5	1 12.73	+ 6 16.9	1.015	0.448	76.4	19.9	26 W	3*	19*
5 7	1 27.95	+ 8 37.2	1.048	0.414	73.1	19.6	23 W	3*	17*
5 9	1 43.60	+10 53.8	1.084	0.382	68.5	19.4	21 W	2*	14*
5 11	1 59.82	+13 5.9	1.124	0.353	62.4	19.1	18 W	2*	12*
5 13	2 16.75	+15 12.2	1.164	0.330	54.7	18.8	15 W	2*	9*
5 15	2 34.48	+17 11.0	1.205	0.314	45.6	18.5	13 W	1*	6*
5 17	2 52.99	+18 59.9	1.245	0.306	35.5	18.3	10 W	—	3*
5 19	3 12.09	+20 36.6	1.282	0.308	25.3	18.0	7 W	—	—
5 21	3 31.50	+21 59.2	1.315	0.320	16.2	17.9	5 W	—	—
5 23	3 50.88	+23 6.8	1.345	0.339	9.8	17.8	3 W	—	—
5 25	4 9.94	+23 59.9	1.372	0.365	8.6	18.0	3 E	—	—
5 27	4 28.48	+24 39.5	1.397	0.395	11.4	18.3	4 E	—	—
5 29	4 46.39	+25 7.0	1.421	0.428	14.8	18.6	6 E	—	—
5 31	5 3.58	+25 24.1	1.445	0.463	17.7	19.0	8 E	1*	—
6 2	5 20.05	+25 32.0	1.468	0.498	19.9	19.2	10 E	2*	—
6 4	5 35.78	+25 32.1	1.492	0.534	21.6	19.5	11 E	3*	2*
6 6	5 50.79	+25 25.6	1.516	0.571	22.8	19.7	13 E	4*	4*
6 8	6 5.10	+25 13.5	1.541	0.607	23.7	19.9	14 E	4*	5*
6 10	6 18.73	+24 56.7	1.567	0.642	24.2	20.0	15 E	5*	6*
6 15	6 50.04	+23 58.8	1.633	0.730	24.6	20.4	17 E	5*	9*
6 20	7 17.83	+22 45.4	1.703	0.813	24.1	20.7	19 E	6*	11*
6 25	7 42.58	+21 23.0	1.776	0.893	23.1	21.0	20 E	5*	12*
6 30	8 4.75	+19 55.7	1.851	0.970	21.8	21.2	21 E	5*	13*
7 5	8 24.76	+18 26.5	1.927	1.043	20.4	21.4	21 E	4*	14*

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20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	20 11.74	−23 31.2	2.043	1.798	29.2	21.4	62 W	12*	56*
4 1	20 36.79	−21 28.9	1.933	1.769	30.9	21.3	65 W	13*	59*
4 11	21 1.19	−19 8.8	1.825	1.740	32.5	21.2	69 W	15*	63*
4 21	21 24.88	−16 32.0	1.719	1.714	34.0	21.1	73 W	17*	66*
5 1	21 47.77	−13 39.6	1.617	1.690	35.4	20.9	76 W	19*	69*
5 11	22 9.82	−10 33.2	1.518	1.668	36.6	20.8	80 W	22*	71*
5 21	22 30.99	− 7 14.4	1.423	1.649	37.6	20.7	83 W	26*	70*
5 31	22 51.18	− 3 45.0	1.333	1.633	38.3	20.5	87 W	30*	68*
6 10	23 10.31	− 0 7.1	1.248	1.619	38.8	20.4	91 W	35*	64
6 20	23 28.26	+ 3 37.0	1.168	1.609	39.0	20.2	95 W	41*	60
6 30	23 44.78	+ 7 24.4	1.092	1.603	38.8	20.1	99 W	47*	57
7 10	23 59.62	+11 12.1	1.023	1.599	38.2	19.9	103 W	54*	53
7 15	0 6.31	+13 4.9	0.990	1.599	37.7	19.8	106 W	57*	51
7 20	0 12.41	+14 56.3	0.958	1.599	37.1	19.7	108 W	60*	49
7 25	0 17.88	+16 45.6	0.928	1.600	36.4	19.6	111 W	62*	47
7 30	0 22.64	+18 32.2	0.900	1.603	35.5	19.6	113 W	64	45
8 4	0 26.64	+20 15.2	0.873	1.606	34.5	19.5	116 W	65	44
8 9	0 29.80	+21 53.8	0.848	1.610	33.3	19.4	119 W	67	42
8 14	0 32.04	+23 27.0	0.825	1.614	31.9	19.3	123 W	68	41
8 19	0 33.29	+24 53.5	0.804	1.620	30.4	19.2	126 W	70	39
8 24	0 33.52	+26 11.9	0.785	1.626	28.8	19.1	129 W	71	38
8 29	0 32.73	+27 20.9	0.769	1.633	27.0	19.0	133 W	72	37
9 3	0 30.94	+28 19.2	0.756	1.641	25.1	18.9	136 W	73	36
9 8	0 28.23	+29 5.4	0.745	1.650	23.1	18.8	140 W	74	35
9 13	0 24.72	+29 38.3	0.738	1.659	21.1	18.8	144 W	75	34
9 18	0 20.58	+29 57.0	0.734	1.669	19.2	18.7	147 W	75	34
9 23	0 16.07	+30 1.1	0.734	1.679	17.5	18.7	150 W	75	34
9 28	0 11.47	+29 51.3	0.739	1.691	16.1	18.7	152 E	75	34
10 3	0 7.03	+29 28.7	0.747	1.702	15.2	18.7	154 E	74	35
10 8	0 3.02	+28 55.0	0.760	1.715	14.9	18.7	154 E	74	35
10 13	23 59.65	+28 12.1	0.778	1.728	15.1	18.8	153 E	73	36
10 18	23 57.08	+27 22.7	0.800	1.741	15.9	18.9	151 E	72	37
10 23	23 55.46	+26 29.2	0.826	1.755	17.0	19.0	149 E	71	38
10 28	23 54.83	+25 34.3	0.857	1.769	18.3	19.1	146 E	71	38
11 2	23 55.20	+24 40.1	0.891	1.784	19.8	19.3	143 E	70	39
11 7	23 56.54	+23 48.2	0.930	1.799	21.2	19.5	139 E	69	40
11 12	23 58.79	+22 59.9	0.973	1.815	22.6	19.6	135 E	68	41
11 17	0 1.91	+22 16.1	1.019	1.830	23.9	19.8	131 E	67	42
11 22	0 5.83	+21 37.7	1.069	1.847	25.0	19.9	128 E	67	42
11 27	0 10.46	+21 5.0	1.121	1.863	26.0	20.1	124 E	66	43
12 7	0 21.55	+20 16.6	1.235	1.896	27.6	20.4	117 E	65	44
12 17	0 34.65	+19 49.6	1.358	1.930	28.6	20.7	110 E	65	44*
12 27	0 49.34	+19 41.9	1.490	1.965	29.1	20.9	103 E	65	43*
1 6	1 5.23	+19 49.9	1.627	2.001	29.2	21.1	97 E	65	40*
1 16	1 22.09	+20 10.4	1.770	2.036	28.9	21.4	91 E	65	38*

467460 2006 JF_{42}

3 22	20 12.33	−22 22.1	1.071	1.055	55.9	21.5	61 W	13*	55*
3 27	20 31.03	−21 41.4	1.036	1.046	57.3	21.4	62 W	13*	56*
4 1	20 50.64	−20 50.1	1.001	1.032	58.9	21.4	62 W	12*	56*
4 6	21 11.28	−19 46.5	0.965	1.015	60.7	21.3	62 W	12*	56*
4 11	21 33.11	−18 28.6	0.930	0.993	62.7	21.3	62 W	12*	56*
4 16	21 56.27	−16 54.2	0.897	0.968	65.0	21.2	61 W	11*	55*
4 21	22 20.87	−15 1.0	0.867	0.938	67.6	21.1	60 W	11*	54*
4 26	22 47.02	−12 46.8	0.840	0.903	70.4	21.1	58 W	10*	52*
5 1	23 14.76	−10 10.3	0.820	0.865	73.4	21.0	55 W	10*	49*
5 6	23 44.07	− 7 11.0	0.806	0.821	76.6	21.0	52 W	9*	46*
5 11	0 14.90	− 3 50.7	0.802	0.772	79.8	20.9	49 W	8*	43*
5 16	0 47.09	− 0 13.2	0.809	0.718	82.7	20.9	45 W	8*	39*
5 21	1 20.49	+ 3 35.4	0.829	0.659	84.9	20.9	40 W	7*	34*
5 26	1 54.99	+ 7 27.4	0.864	0.594	85.9	20.8	36 W	6*	29*
5 31	2 30.67	+11 15.5	0.915	0.524	85.0	20.6	31 W	5*	24*
6 5	3 7.97	+14 53.2	0.984	0.450	80.8	20.3	26 W	4*	19*
6 10	3 47.97	+18 15.2	1.070	0.376	71.5	19.7	21 W	3*	14*
6 12	4 5.10	+19 29.9	1.108	0.348	65.7	19.5	18 W	2*	11*
6 14	4 23.08	+20 40.1	1.147	0.323	58.4	19.1	16 W	2*	9*
6 16	4 42.01	+21 44.4	1.186	0.303	49.5	18.8	13 W	1*	6*
6 18	5 1.91	+22 40.8	1.223	0.288	39.1	18.5	10 W	—	3*
6 20	5 22.63	+23 27.3	1.257	0.281	27.8	18.2	7 W	—	1*
6 22	5 43.88	+24 1.7	1.285	0.283	16.3	17.9	4 W	—	—
6 24	6 5.22	+24 22.7	1.308	0.293	6.1	17.6	2 W	—	—
6 26	6 26.24	+24 30.2	1.325	0.310	6.0	17.7	2 E	—	—
6 28	6 46.63	+24 25.2	1.337	0.333	13.4	18.2	4 E	—	—
6 30	7 6.20	+24 8.9	1.347	0.359	19.8	18.6	7 E	—	—
7 2	7 24.88	+23 43.0	1.355	0.387	24.9	18.9	9 E	—	2*
7 4	7 42.65	+23 9.2	1.361	0.417	28.9	19.2	11 E	1*	4*
7 6	7 59.54	+22 28.7	1.368	0.447	32.0	19.5	13 E	2*	6*
7 8	8 15.58	+21 42.8	1.374	0.476	34.3	19.7	15 E	3*	8*
7 10	8 30.83	+20 52.6	1.381	0.506	36.1	19.9	17 E	4*	10*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
467460 2006 JF_{42} *(continuation)*									
7 15	9 5.82	+18 33.3	2.236	2.004	38.7	20.3	21 E	5*	13*
7 20	9 36.92	+16 2.7	1.425	0.644	39.7	20.6	24 E	6*	17*
7 25	10 4.80	+13 27.7	1.453	0.704	39.7	20.8	26 E	7*	19*
7 30	10 30.03	+10 53.1	1.484	0.760	39.1	21.0	28 E	7*	21*
8 4	10 53.07	+ 8 21.7	1.518	0.810	38.2	21.2	30 E	7*	23*
8 9	11 14.31	+ 5 55.3	1.554	0.855	37.2	21.3	31 E	7*	24*
8 14	11 34.08	+ 3 34.6	1.590	0.895	36.0	21.4	31 E	7*	25*
381823 2009 VZ_{80}									
3 22	20 14.06	−32 7.7	2.236	2.004	26.5	21.5	64 W	4*	56*
4 1	20 40.33	−32 20.4	2.108	1.967	28.1	21.3	68 W	3*	60*
4 11	21 7.01	−32 27.5	1.982	1.932	29.6	21.2	72 W	3*	63*
4 21	21 34.05	−32 29.6	1.860	1.897	31.0	21.1	77 W	2*	67*
5 1	22 1.35	−32 28.0	1.742	1.863	32.2	20.9	81 W	2*	70*
5 11	22 28.79	−32 23.6	1.631	1.831	33.3	20.8	84 W	1*	74*
5 21	22 56.24	−32 17.9	1.525	1.800	34.2	20.6	88 W	1*	77*
5 31	23 23.47	−32 12.5	1.427	1.771	34.9	20.5	91 W	2*	80*
6 5	23 36.92	−32 10.3	1.380	1.757	35.2	20.4	93 W	2*	82*
6 10	23 50.22	−32 8.6	1.336	1.744	35.5	20.3	95 W	3*	83*
6 15	0 3.33	−32 7.8	1.293	1.731	35.7	20.2	96 W	3*	83*
6 20	0 16.19	−32 8.1	1.251	1.719	35.8	20.1	98 W	4*	84*
6 25	0 28.74	−32 9.7	1.212	1.707	35.9	20.0	100 W	5*	84
6 30	0 40.92	−32 12.8	1.174	1.696	36.0	20.0	101 W	6*	84
7 5	0 52.69	−32 17.4	1.138	1.686	36.0	19.9	103 W	7*	84
7 10	1 3.98	−32 23.7	1.104	1.677	36.0	19.8	104 W	8*	84
7 15	1 14.72	−32 31.9	1.070	1.668	35.8	19.7	106 W	8*	83
7 20	1 24.81	−32 42.1	1.039	1.660	35.7	19.6	108 W	9*	83
7 25	1 34.18	−32 54.3	1.008	1.653	35.4	19.6	109 W	10*	83
7 30	1 42.74	−33 8.3	0.979	1.646	35.1	19.5	111 W	11*	83
8 4	1 50.41	−33 23.7	0.951	1.640	34.7	19.4	113 W	11*	83
8 9	1 57.09	−33 40.5	0.925	1.636	34.2	19.3	115 W	11*	82
8 14	2 2.69	−33 58.1	0.900	1.632	33.6	19.2	117 W	11*	82
8 19	2 7.09	−34 15.8	0.875	1.629	32.9	19.2	119 W	11	82
8 24	2 10.19	−34 32.6	0.853	1.626	32.1	19.1	121 W	10	81
8 29	2 11.91	−34 47.2	0.832	1.625	31.2	19.0	124 W	10	81
9 3	2 12.21	−34 58.1	0.812	1.625	30.1	18.9	126 W	10	81
9 8	2 11.03	−35 3.5	0.794	1.625	29.0	18.8	128 W	10	81
9 13	2 8.36	−35 1.4	0.779	1.627	27.8	18.8	131 W	10	81
9 18	2 4.26	−34 49.4	0.765	1.629	26.6	18.7	133 W	10	81
9 23	1 58.87	−34 25.1	0.755	1.632	25.4	18.6	136 W	11	82
9 28	1 52.39	−33 46.2	0.748	1.636	24.2	18.6	138 W	11	82
10 3	1 45.13	−32 51.3	0.744	1.641	23.2	18.5	140 W	12	83
10 8	1 37.40	−31 39.3	0.745	1.647	22.4	18.5	141 W	13	84
10 13	1 29.56	−30 10.3	0.749	1.653	21.9	18.5	142 W	15	86
10 18	1 21.95	−28 25.0	0.758	1.660	21.7	18.6	142 E	17	88
10 23	1 14.91	−26 25.4	0.772	1.669	21.9	18.6	141 E	19	90
10 28	1 8.70	−24 14.0	0.791	1.677	22.5	18.7	140 E	21	88
11 2	1 3.49	−21 53.9	0.815	1.687	23.3	18.8	138 E	23	86
11 7	0 59.37	−19 28.2	0.844	1.697	24.3	18.9	135 E	26	83
11 12	0 56.37	−16 59.7	0.877	1.708	25.4	19.0	132 E	28	81
11 17	0 54.50	−14 30.6	0.915	1.720	26.5	19.2	129 E	30	79
11 22	0 53.72	−12 2.9	0.957	1.732	27.5	19.3	126 E	33	76
11 27	0 53.96	− 9 38.2	1.003	1.745	28.5	19.5	123 E	35	74
12 2	0 55.15	− 7 17.4	1.053	1.758	29.3	19.6	119 E	38	71
12 7	0 57.19	− 5 1.2	1.107	1.772	30.1	19.8	116 E	40	69
12 17	1 3.55	− 0 43.6	1.222	1.801	31.1	20.0	109 E	44	65
12 27	1 12.49	+ 3 14.1	1.347	1.832	31.6	20.3	103 E	48	60*
1 6	1 23.53	+ 6 52.9	1.480	1.865	31.6	20.6	96 E	52	54*
1 16	1 36.31	+10 14.5	1.619	1.898	31.2	20.8	90 E	55	48*
457768 2009 KN_4									
3 22	20 27.59	−24 53.2	1.542	1.330	39.7	21.4	59 W	9*	52*
3 27	20 47.87	−23 20.9	1.491	1.292	41.2	21.3	59 W	9*	52*
4 1	21 8.44	−21 34.8	1.444	1.255	42.7	21.2	58 W	9*	52*
4 6	21 29.25	−19 34.7	1.402	1.218	44.2	21.2	58 W	10*	52*
4 11	21 50.26	−17 20.7	1.364	1.182	45.7	21.1	58 W	10*	51*
4 16	22 11.43	−14 53.5	1.332	1.147	47.0	21.0	57 W	11*	51*
4 21	22 32.72	−12 14.2	1.304	1.113	48.3	20.9	56 W	11*	50*
4 26	22 54.09	− 9 24.2	1.283	1.081	49.5	20.9	55 W	12*	49*
5 1	23 15.52	− 6 25.8	1.268	1.051	50.5	20.8	54 W	12*	47*
5 6	23 37.01	− 3 21.2	1.258	1.023	51.2	20.7	52 W	13*	46*
5 11	23 58.55	− 0 13.2	1.254	0.998	51.8	20.7	51 W	14*	44*
5 16	0 20.15	+ 2 55.5	1.256	0.976	52.0	20.7	50 W	15*	42*
5 21	0 41.81	+ 6 1.9	1.264	0.957	52.0	20.6	48 W	15*	40*
5 26	1 3.54	+ 9 3.1	1.276	0.942	51.7	20.6	47 W	16*	38*
5 31	1 25.33	+11 56.7	1.293	0.931	51.1	20.6	46 W	17*	36*
6 5	1 47.19	+14 40.2	1.314	0.924	50.3	20.6	45 W	18*	34*
6 10	2 9.10	+17 11.9	1.338	0.922	49.3	20.6	44 W	19*	32*
6 15	2 31.02	+19 30.3	1.365	0.925	48.1	20.6	43 W	20*	31*
6 20	2 52.91	+21 34.4	1.394	0.932	46.8	20.6	42 W	21*	29*
6 25	3 14.70	+23 23.6	1.425	0.943	45.4	20.7	41 W	22*	27*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
457768 2009 KN_4 *(continuation)*									
6 30	3 36.30	+24 57.6	1.456	0.959	44.1	20.7	41 W	23*	26*
7 5	3 57.62	+26 16.5	1.487	0.978	42.8	20.8	41 W	25*	25*
7 10	4 18.60	+27 21.0	1.519	1.000	41.6	20.8	41 W	26*	24*
7 15	4 39.12	+28 11.7	1.549	1.026	40.4	20.9	41 W	27*	23*
7 20	4 59.13	+28 49.5	1.579	1.054	39.4	21.0	41 W	28*	22*
7 25	5 18.52	+29 15.4	1.607	1.085	38.5	21.0	42 W	30*	22*
7 30	5 37.26	+29 30.5	1.633	1.117	37.8	21.1	42 W	31*	21*
8 4	5 55.29	+29 36.0	1.657	1.151	37.1	21.2	43 W	32*	21*
8 9	6 12.60	+29 33.1	1.679	1.186	36.6	21.3	44 W	34*	21*
8 14	6 29.16	+29 22.8	1.699	1.222	36.1	21.4	45 W	36*	21*
8 19	6 44.96	+29 6.1	1.716	1.258	35.8	21.4	47 W	37*	21*
380321 2002 HF_8									
3 22	20 40.09	−20 55.2	1.580	1.291	39.0	21.4	55 W	11*	49*
4 1	21 20.52	−18 33.4	1.526	1.252	40.7	21.3	55 W	10*	49*
4 11	22 0.41	−15 39.1	1.486	1.220	42.1	21.2	55 W	10*	49*
4 21	22 39.29	−12 19.6	1.459	1.197	43.1	21.2	54 W	10*	48*
5 1	23 16.82	− 8 43.8	1.444	1.183	43.7	21.1	54 W	10*	48*
5 11	23 52.78	− 5 1.1	1.440	1.180	44.0	21.1	54 W	11*	48*
5 21	0 27.14	− 1 20.4	1.442	1.188	44.0	21.2	55 W	13*	48*
5 31	0 59.86	+ 2 11.2	1.450	1.205	43.7	21.2	55 W	15*	48*
6 10	1 30.96	+ 5 28.1	1.459	1.232	43.3	21.2	56 W	18*	47*
6 20	2 0.47	+ 8 26.9	1.468	1.267	42.8	21.3	58 W	22*	47*
6 30	2 28.36	+11 5.6	1.475	1.309	42.3	21.4	60 W	26*	47*
7 10	2 54.58	+13 23.7	1.477	1.357	41.8	21.4	63 W	31*	46*
68347 2001 KB_{67}									
3 22	20 45.90	−27 40.6	0.648	0.827	84.1	21.5	56 W	5*	49*
3 27	20 51.31	−25 10.0	0.666	0.863	80.4	21.5	58 W	7*	52*
4 1	20 57.43	−22 39.6	0.681	0.898	77.2	21.5	61 W	10*	55*
4 6	21 3.93	−20 9.8	0.691	0.933	74.4	21.5	64 W	13*	58*
4 11	21 10.58	−17 40.4	0.698	0.967	72.0	21.6	67 W	15*	60*
464742 2003 PB									
3 22	20 49.25	−13 2.5	2.075	1.634	28.1	21.5	51 W	16*	44*
4 1	21 15.81	−10 52.9	2.010	1.629	29.6	21.5	54 W	17*	47*
4 11	21 41.57	− 8 34.0	1.947	1.628	31.0	21.4	57 W	18*	50*
4 21	22 6.50	− 6 8.9	1.884	1.629	32.2	21.4	60 W	20*	52*
5 1	22 30.56	− 3 40.4	1.822	1.633	33.3	21.4	63 W	22*	55*
5 11	22 53.72	− 1 11.7	1.760	1.640	34.3	21.3	66 W	24*	57*
5 21	23 15.96	+ 1 14.5	1.698	1.651	35.2	21.3	70 W	26*	58*
5 31	23 37.19	+ 3 35.4	1.635	1.663	35.8	21.2	74 W	30*	58*
6 10	23 57.34	+ 5 48.4	1.572	1.679	36.2	21.2	78 W	34*	58*
6 20	0 16.27	+ 7 51.3	1.507	1.697	36.4	21.1	82 W	38*	56*
6 30	0 33.77	+ 9 41.7	1.441	1.717	36.2	21.0	87 W	43*	54
7 10	0 49.63	+11 17.4	1.375	1.740	35.7	21.0	92 W	49*	53
7 20	1 3.50	+12 36.5	1.308	1.764	34.8	20.9	98 W	54*	51
7 30	1 15.00	+13 36.3	1.242	1.790	33.3	20.7	105 W	58*	50
8 9	1 23.69	+14 14.7	1.177	1.817	31.2	20.6	112 W	59	50
8 19	1 29.12	+14 29.1	1.117	1.846	28.3	20.4	120 W	59	50
8 29	1 30.91	+14 16.7	1.065	1.876	24.6	20.2	129 W	59	50
9 8	1 28.94	+13 36.2	1.023	1.906	20.0	20.0	140 W	59	50
9 18	1 23.46	+12 28.1	0.996	1.938	14.5	19.8	151 W	57	52
9 23	1 19.64	+11 44.9	0.990	1.954	11.5	19.7	157 W	57	52
9 28	1 15.32	+10 57.0	0.989	1.970	8.4	19.6	163 W	56	53
10 3	1 10.67	+10 5.8	0.993	1.986	5.2	19.5	170 W	55	54
10 8	1 5.90	+ 9 12.8	1.004	2.002	2.2	19.4	176 W	54	55
10 13	1 1.21	+ 8 19.7	1.021	2.018	1.5	19.4	177 E	53	56
10 18	0 56.78	+ 7 28.2	1.044	2.034	4.4	19.6	171 E	52	57
10 23	0 52.80	+ 6 39.9	1.074	2.051	7.2	19.8	165 E	52	57
10 28	0 49.41	+ 5 56.1	1.109	2.067	10.0	20.0	159 E	51	58
11 2	0 46.71	+ 5 17.8	1.150	2.083	12.5	20.2	153 E	50	59
11 7	0 44.74	+ 4 45.6	1.196	2.100	14.7	20.4	147 E	50	59
11 17	0 43.10	+ 4 0.3	1.302	2.132	18.6	20.8	137 E	49	60
11 27	0 44.50	+ 3 40.4	1.425	2.165	21.4	21.1	127 E	49	60
12 7	0 48.63	+ 3 43.3	1.560	2.197	23.4	21.4	118 E	49	60
12 17	0 55.10	+ 4 5.3	1.704	2.229	24.7	21.6	109 E	49	60*
367676 2010 JV_{81}									
3 22	21 3.47	−11 39.2	2.181	1.667	25.9	21.5	47 W	16*	40*
4 1	21 30.01	− 9 44.6	2.110	1.655	27.5	21.4	50 W	16*	43*
4 11	21 56.10	− 7 41.7	2.041	1.645	29.1	21.4	53 W	17*	46*
4 21	22 21.72	− 5 33.2	1.972	1.637	30.6	21.4	56 W	18*	49*
5 1	22 46.84	− 3 21.7	1.904	1.633	31.9	21.3	59 W	19*	51*
5 11	23 11.44	− 1 10.3	1.837	1.632	33.2	21.3	62 W	21*	54*
5 21	23 35.50	+ 0 58.3	1.770	1.633	34.3	21.2	65 W	23*	55*
5 31	23 58.95	+ 3 1.4	1.704	1.637	35.3	21.2	69 W	26*	56*
6 10	0 21.75	+ 4 56.2	1.637	1.645	36.0	21.1	72 W	29*	57*
6 20	0 43.78	+ 6 40.3	1.570	1.654	36.6	21.1	76 W	33*	57*
6 30	1 4.89	+ 8 11.3	1.503	1.667	37.0	21.0	80 W	38*	56*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
367676 2010 JV_{81} *(continuation)*									
7 10	1 24.88	+ 9 27.0	1.435	1.682	37.0	20.9	85 W	43*	55
7 20	1 43.49	+10 25.5	1.367	1.699	36.7	20.8	90 W	48*	54
7 30	2 0.37	+11 4.9	1.299	1.719	36.0	20.7	95 W	52*	53
8 9	2 15.14	+11 23.7	1.231	1.740	34.9	20.6	101 W	55*	53
8 19	2 27.33	+11 20.7	1.165	1.763	33.1	20.5	108 W	56*	53
8 29	2 36.42	+10 54.7	1.103	1.788	30.6	20.3	116 W	56	53
9 8	2 41.93	+10 5.6	1.046	1.814	27.4	20.1	124 W	55	54
9 18	2 43.49	+ 8 54.6	0.998	1.842	23.2	19.9	134 W	54	55
9 28	2 40.99	+ 7 25.0	0.964	1.870	18.3	19.7	144 W	52	57
10 3	2 38.33	+ 6 35.4	0.952	1.885	15.6	19.6	150 W	52	57
10 8	2 34.87	+ 5 44.1	0.946	1.899	12.8	19.5	155 W	51	58
10 13	2 30.73	+ 4 52.5	0.944	1.914	10.0	19.4	161 W	50	59
10 18	2 26.10	+ 4 2.1	0.949	1.929	7.5	19.4	165 W	49	60
10 23	2 21.19	+ 3 14.7	0.959	1.945	5.7	19.3	169 W	48	61
10 28	2 16.23	+ 2 31.8	0.975	1.960	5.4	19.3	169 W	48	61
11 2	2 11.43	+ 1 54.6	0.997	1.975	6.8	19.5	166 E	47	62
11 7	2 6.98	+ 1 24.0	1.025	1.991	8.9	19.7	162 E	46	63
11 17	1 59.72	+ 0 44.7	1.098	2.022	13.6	20.0	151 E	46	63
11 27	1 55.34	+ 0 35.2	1.191	2.053	17.7	20.4	141 E	46	63
12 7	1 54.14	+ 0 52.2	1.301	2.084	20.9	20.7	131 E	46	63
12 17	1 55.99	+ 1 30.9	1.425	2.115	23.3	21.0	122 E	47	62
12 27	2 0.60	+ 2 26.3	1.559	2.146	24.9	21.3	113 E	47	62
324524 2006 VZ_{108}									
3 22	21 11.59	−14 52.4	2.257	1.717	24.6	21.5	46 W	12*	40*
4 1	21 37.48	−12 31.1	2.177	1.697	26.4	21.4	49 W	13*	43*
4 11	22 2.91	− 9 58.5	2.099	1.680	28.0	21.4	52 W	14*	46*
4 21	22 27.88	− 7 16.8	2.023	1.666	29.7	21.3	55 W	16*	48*
5 1	22 52.37	− 4 28.7	1.948	1.655	31.1	21.3	58 W	17*	51*
5 11	23 16.39	− 1 36.8	1.875	1.647	32.5	21.2	61 W	20*	53*
5 21	23 39.96	+ 1 16.4	1.804	1.641	33.7	21.2	64 W	23*	54*
5 31	0 3.03	+ 4 8.1	1.735	1.639	34.8	21.1	67 W	26*	55*
6 10	0 25.58	+ 6 55.8	1.666	1.641	35.7	21.0	71 W	30*	55*
6 20	0 47.55	+ 9 37.1	1.599	1.645	36.5	21.0	74 W	35*	53*
6 30	1 8.81	+12 9.6	1.532	1.653	37.0	20.9	78 W	40*	52*
7 10	1 29.20	+14 31.5	1.466	1.663	37.2	20.8	82 W	46*	49
7 20	1 48.51	+16 41.1	1.400	1.677	37.2	20.8	86 W	52*	47
7 30	2 6.39	+18 36.9	1.334	1.693	36.8	20.7	91 W	58*	45
8 9	2 22.50	+20 17.9	1.268	1.712	36.0	20.6	97 W	63*	44
8 19	2 36.34	+21 43.1	1.203	1.733	34.7	20.4	103 W	67*	42
8 29	2 47.36	+22 51.3	1.140	1.757	32.8	20.3	109 W	68	41
9 8	2 55.00	+23 41.3	1.081	1.782	30.2	20.1	117 W	69	40
9 18	2 58.69	+24 11.4	1.028	1.809	26.8	20.0	126 W	69	40
9 28	2 58.08	+24 18.9	0.984	1.838	22.5	19.8	135 W	69	40
10 8	2 53.30	+24 1.7	0.953	1.868	17.3	19.6	146 W	69	40
10 13	2 49.53	+23 43.3	0.944	1.884	14.4	19.5	152 W	69	40
10 18	2 45.04	+23 18.7	0.939	1.899	11.4	19.4	158 W	68	41
10 23	2 40.05	+22 48.3	0.940	1.915	8.4	19.3	164 W	68	41
10 28	2 34.78	+22 13.2	0.947	1.931	5.6	19.2	169 W	67	42
11 2	2 29.50	+21 34.6	0.959	1.948	3.5	19.1	173 W	67	42
11 7	2 24.43	+20 53.9	0.977	1.964	3.8	19.2	173 E	66	43
11 12	2 19.77	+20 12.6	1.002	1.981	6.0	19.4	168 E	65	44
11 17	2 15.72	+19 32.2	1.033	1.998	8.6	19.6	163 E	65	44
11 22	2 12.41	+18 54.3	1.069	2.015	11.1	19.8	157 E	64	45
11 27	2 9.93	+18 20.0	1.111	2.032	13.5	19.9	151 E	63	46
12 7	2 7.57	+17 24.8	1.209	2.066	17.7	20.3	140 E	62	47
12 17	2 8.61	+16 49.6	1.324	2.100	20.9	20.6	130 E	62	47
12 27	2 12.77	+16 34.4	1.454	2.135	23.2	21.0	121 E	62	47
1 6	2 19.59	+16 36.6	1.594	2.169	24.8	21.2	113 E	62	47*
1 16	2 28.63	+16 53.0	1.741	2.204	25.6	21.5	104 E	62	46*
200754 2001 WA_{25}									
3 22	21 31.78	−13 17.8	1.706	1.150	34.3	21.5	41 W	10*	34*
4 1	22 11.33	− 8 11.9	1.634	1.075	36.4	21.3	40 W	11*	33*
4 11	22 52.33	− 2 29.3	1.583	1.006	37.9	21.1	38 W	12*	31*
4 21	23 35.06	+ 3 35.8	1.555	0.945	38.5	21.0	36 W	12*	28*
5 1	0 19.75	+ 9 42.3	1.551	0.895	37.9	20.8	33 W	13*	25*
5 11	1 6.55	+15 25.4	1.570	0.862	36.0	20.7	30 W	13*	21*
5 21	1 55.28	+20 21.4	1.610	0.849	33.1	20.7	27 W	13*	17*
5 31	2 45.23	+24 11.7	1.665	0.856	29.7	20.7	25 W	12*	14*
6 10	3 35.20	+26 46.9	1.731	0.884	26.2	20.7	23 W	11*	11*
6 20	4 23.78	+28 8.1	1.802	0.928	23.1	20.8	21 W	11*	9*
6 30	5 9.69	+28 23.8	1.876	0.986	20.9	21.0	20 W	10*	8*
7 10	5 52.11	+27 46.6	1.948	1.054	19.4	21.1	20 W	11*	8*
7 20	6 30.74	+26 29.6	2.017	1.127	18.7	21.3	21 W	12*	9*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
357333 2003 NJ_7									
3 22	21 35.43	−21 31.4	2.162	1.583	25.3	21.4	43 W	3*	36*
4 1	22 5.33	−19 10.5	2.081	1.550	27.3	21.4	45 W	3*	39*
4 11	22 34.99	−16 32.0	2.004	1.519	29.1	21.3	47 W	4*	41*
4 21	23 4.41	−13 38.0	1.931	1.490	30.9	21.2	50 W	5*	43*
5 1	23 33.57	−10 31.3	1.862	1.464	32.5	21.2	51 W	6*	45*
5 11	0 2.51	− 7 14.9	1.799	1.441	34.1	21.1	53 W	8*	47*
5 21	0 31.27	− 3 52.1	1.740	1.421	35.6	21.0	55 W	10*	48*
5 31	0 59.90	− 0 26.5	1.686	1.406	36.9	21.0	56 W	13*	49*
6 10	1 28.43	+ 2 58.3	1.637	1.395	38.1	20.9	58 W	16*	50*
6 20	1 56.90	+ 6 18.7	1.591	1.388	39.1	20.9	60 W	21*	49*
6 30	2 25.31	+ 9 31.3	1.548	1.386	40.1	20.8	61 W	26*	48*
7 10	2 53.63	+12 33.1	1.508	1.389	40.8	20.8	63 W	31*	47*
7 20	3 21.80	+15 21.9	1.468	1.396	41.5	20.8	65 W	37*	45*
7 30	3 49.67	+17 55.7	1.429	1.408	41.9	20.8	68 W	42*	44*
8 9	4 17.09	+20 13.7	1.390	1.423	42.2	20.7	71 W	48*	42*
8 19	4 43.83	+22 16.0	1.349	1.443	42.3	20.7	74 W	54*	40*
8 29	5 9.57	+24 3.5	1.307	1.466	42.2	20.7	77 W	59*	39*
9 8	5 34.01	+25 38.3	1.262	1.493	41.9	20.6	81 W	64*	37*
9 18	5 56.74	+27 3.2	1.215	1.522	41.2	20.6	86 W	69*	36*
9 28	6 17.30	+28 22.1	1.166	1.553	40.2	20.5	91 W	73*	35*
10 8	6 35.19	+29 39.2	1.114	1.587	38.7	20.4	97 W	75	34*
10 13	6 42.95	+30 18.6	1.089	1.604	37.7	20.3	100 W	75	34*
10 18	6 49.79	+30 59.3	1.063	1.622	36.6	20.3	104 W	76	33*
10 23	6 55.64	+31 41.7	1.037	1.640	35.3	20.2	108 W	77	32
10 28	7 0.39	+32 26.2	1.012	1.658	33.9	20.1	112 W	77	32
11 2	7 3.96	+33 13.2	0.988	1.677	32.2	20.1	116 W	78	31
11 7	7 6.24	+34 2.5	0.966	1.696	30.4	20.0	120 W	79	30
11 12	7 7.13	+34 54.1	0.945	1.715	28.3	19.9	125 W	80	29
11 17	7 6.54	+35 47.1	0.926	1.734	26.0	19.8	130 W	81	28
11 22	7 4.43	+36 40.7	0.910	1.753	23.6	19.7	135 W	82	27
11 27	7 0.80	+37 33.4	0.898	1.772	20.9	19.6	140 W	83	26
12 2	6 55.71	+38 23.3	0.890	1.791	18.2	19.6	145 W	83	26
12 7	6 49.31	+39 8.6	0.886	1.811	15.5	19.5	151 W	84	25
12 12	6 41.81	+39 47.2	0.888	1.830	12.9	19.4	155 W	85	24
12 17	6 33.52	+40 17.2	0.895	1.849	10.7	19.4	160 W	85	24
12 22	6 24.86	+40 37.5	0.908	1.868	9.3	19.4	162 W	86	23
12 27	6 16.23	+40 47.6	0.926	1.887	9.0	19.4	162 E	86	23
1 1	6 8.04	+40 48.0	0.951	1.907	9.9	19.5	161 E	86	23
1 6	6 0.63	+40 39.6	0.982	1.925	11.5	19.7	157 E	86	23
1 11	5 54.26	+40 23.8	1.018	1.944	13.5	19.9	153 E	85	24
1 16	5 49.11	+40 2.4	1.059	1.963	15.5	20.0	148 E	85	24
331699 2002 RT_{45}									
3 22	21 45.38	−14 59.8	2.501	1.823	19.7	21.5	38 W	7*	32*
4 1	22 10.20	−12 51.4	2.415	1.794	21.7	21.4	42 W	8*	36*
4 11	22 34.87	−10 33.6	2.328	1.767	23.6	21.4	45 W	9*	39*
4 21	22 59.45	− 8 7.9	2.242	1.741	25.5	21.3	48 W	10*	42*
5 1	23 23.93	− 5 36.3	2.157	1.718	27.2	21.3	51 W	12*	45*
5 11	23 48.34	− 3 0.9	2.073	1.697	28.9	21.2	54 W	13*	48*
5 21	0 12.72	− 0 23.7	1.991	1.678	30.5	21.1	57 W	16*	50*
5 31	0 37.06	+ 2 12.9	1.911	1.663	32.0	21.1	60 W	19*	51*
6 10	1 1.38	+ 4 46.7	1.834	1.650	33.4	21.0	63 W	22*	52*
6 20	1 25.65	+ 7 15.4	1.758	1.640	34.6	20.9	66 W	27*	53*
6 30	1 49.79	+ 9 36.7	1.684	1.634	35.6	20.9	69 W	32*	52*
7 10	2 13.72	+11 48.5	1.612	1.631	36.5	20.8	73 W	37*	51*
7 20	2 37.30	+13 49.2	1.541	1.631	37.2	20.7	76 W	43*	50*
7 30	3 0.30	+15 37.3	1.472	1.635	37.7	20.6	80 W	48*	48*
8 9	3 22.47	+17 12.0	1.403	1.641	37.9	20.5	84 W	54*	47*
8 19	3 43.49	+18 33.0	1.334	1.651	37.8	20.4	88 W	59*	45
8 29	4 2.92	+19 40.6	1.267	1.664	37.3	20.3	93 W	63*	44
9 8	4 20.31	+20 36.0	1.200	1.680	36.3	20.2	99 W	65*	43
9 18	4 35.12	+21 20.4	1.135	1.699	34.8	20.1	105 W	66	43
9 28	4 46.70	+21 55.8	1.072	1.720	32.7	19.9	112 W	67	42
10 8	4 54.47	+22 24.0	1.014	1.744	29.7	19.7	120 W	67	42
10 18	4 57.84	+22 46.3	0.963	1.770	25.9	19.5	129 W	68	41
10 28	4 56.47	+23 2.9	0.923	1.797	21.1	19.3	139 W	68	41
11 7	4 50.55	+23 13.2	0.897	1.826	15.4	19.1	151 W	68	41
11 12	4 46.12	+23 15.4	0.890	1.841	12.3	19.0	157 W	68	41
11 17	4 40.94	+23 15.5	0.889	1.857	9.0	18.9	163 W	68	41
11 22	4 35.26	+23 13.5	0.893	1.873	5.7	18.8	169 W	68	41
11 27	4 29.36	+23 9.6	0.903	1.889	2.4	18.6	175 W	68	41
12 2	4 23.52	+23 4.2	0.920	1.905	1.3	18.6	177 E	68	41
12 7	4 17.99	+22 57.8	0.942	1.922	4.4	18.9	171 E	68	41
12 12	4 13.00	+22 51.0	0.970	1.938	7.4	19.1	165 E	68	41
12 17	4 8.73	+22 44.5	1.004	1.955	10.3	19.3	159 E	68	41
12 22	4 5.34	+22 39.0	1.043	1.972	12.9	19.5	153 E	68	41
12 27	4 2.90	+22 35.0	1.088	1.990	15.3	19.7	148 E	68	41
1 1	4 1.44	+22 32.8	1.137	2.007	17.4	19.9	142 E	68	41
1 6	4 0.95	+22 32.6	1.190	2.024	19.3	20.1	137 E	68	41
1 11	4 1.40	+22 34.5	1.248	2.042	20.9	20.3	132 E	68	41
1 16	4 2.75	+22 38.3	1.309	2.059	22.3	20.4	127 E	68	41

277570 2005 YP_{180}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 22	21 51.02	−13 11.9	1.500	0.910	40.2	21.5	36 W	7*	30*
4 1	22 43.66	− 7 41.6	1.441	0.795	41.7	21.1	32 W	6*	26*
4 11	23 40.22	− 1 12.6	1.418	0.684	40.5	20.7	26 W	4*	20*
4 21	0 41.02	+ 5 46.9	1.433	0.589	34.6	20.3	19 W	2*	13*
4 26	1 13.13	+ 9 14.5	1.452	0.554	29.3	20.0	16 W	1*	9*
5 1	1 46.32	+12 31.5	1.478	0.532	22.6	19.8	12 W	—	5*
5 6	2 20.38	+15 30.5	1.507	0.526	15.2	19.5	8 W	—	1*
5 11	2 54.92	+18 5.0	1.538	0.535	7.8	19.3	4 W	—	—
5 16	3 29.41	+20 10.5	1.571	0.560	2.2	19.2	1 W	—	—
5 21	4 3.31	+21 45.3	1.605	0.597	5.3	19.5	3 E	—	—
5 26	4 36.15	+22 49.8	1.642	0.643	9.3	19.9	6 E	—	—
5 31	5 7.58	+23 26.6	1.682	0.694	12.1	20.3	8 E	—	1*
6 5	5 37.36	+23 39.1	1.725	0.749	14.0	20.6	10 E	1*	3*
6 10	6 5.38	+23 31.1	1.772	0.806	15.1	20.8	12 E	2*	4*
6 15	6 31.61	+23 6.4	1.821	0.864	15.6	21.0	13 E	2*	6*
6 20	6 56.11	+22 28.4	1.873	0.921	15.6	21.2	14 E	2*	7*
6 25	7 18.95	+21 40.0	1.927	0.978	15.3	21.4	15 E	2*	8*

322763 2001 FA_7

3 22	21 58.80	−26 33.2	2.496	1.861	20.5	21.5	41 W	—	33*
4 1	22 22.87	−23 56.7	2.364	1.790	22.9	21.3	44 W	—	36*
4 11	22 47.14	−21 1.8	2.230	1.718	25.4	21.2	47 W	—	40*
4 21	23 11.78	−17 46.6	2.096	1.644	28.0	21.0	50 W	1*	43*
5 1	23 36.99	−14 8.8	1.963	1.569	30.6	20.9	53 W	3*	46*
5 11	0 3.03	−10 5.9	1.833	1.492	33.4	20.7	54 W	6*	48*
5 21	0 30.29	− 5 35.1	1.710	1.415	36.3	20.5	56 W	9*	50*
5 31	0 59.21	− 0 34.5	1.596	1.339	39.2	20.3	57 W	13*	50*
6 10	1 30.44	+ 4 56.1	1.494	1.263	42.2	20.1	57 W	18*	48*
6 15	1 47.16	+ 7 51.7	1.448	1.226	43.7	20.0	56 W	20*	46*
6 20	2 4.79	+10 53.1	1.407	1.190	45.1	19.9	56 W	23*	44*
6 25	2 23.43	+13 58.6	1.371	1.155	46.5	19.9	55 W	25*	42*
6 30	2 43.23	+17 6.0	1.340	1.121	47.8	19.8	55 W	28*	40*
7 5	3 4.32	+20 12.5	1.314	1.089	49.0	19.7	54 W	30*	37*
7 10	3 26.83	+23 14.5	1.295	1.059	50.0	19.6	53 W	32*	34*
7 15	3 50.84	+26 7.9	1.281	1.031	50.7	19.6	52 W	34*	31*
7 20	4 16.38	+28 48.0	1.274	1.006	51.3	19.5	51 W	36*	28*
7 25	4 43.38	+31 10.0	1.273	0.984	51.6	19.5	49 W	37*	25*
7 30	5 11.66	+33 9.4	1.279	0.965	51.5	19.5	48 W	38*	22*
8 4	5 40.92	+34 42.4	1.289	0.951	51.2	19.4	47 W	38*	19*
8 9	6 10.74	+35 46.6	1.306	0.940	50.5	19.4	46 W	38*	16*
8 14	6 40.62	+36 20.9	1.326	0.934	49.6	19.4	45 W	38*	14*
8 19	7 10.02	+36 25.9	1.351	0.932	48.5	19.4	44 W	37*	12*
8 24	7 38.46	+36 3.8	1.378	0.935	47.2	19.4	43 W	36*	10*
8 29	8 5.57	+35 17.6	1.408	0.942	45.8	19.5	42 W	36*	9*
9 3	8 31.11	+34 11.2	1.440	0.954	44.3	19.5	41 W	35*	8*
9 8	8 54.97	+32 48.4	1.472	0.970	42.9	19.5	41 W	35*	7*
9 13	9 17.14	+31 13.0	1.505	0.989	41.5	19.6	41 W	35*	7*
9 18	9 37.67	+29 28.4	1.537	1.012	40.2	19.6	41 W	35*	7*
9 23	9 56.66	+27 37.4	1.568	1.038	39.0	19.7	41 W	35*	7*
9 28	10 14.24	+25 42.5	1.598	1.066	38.0	19.8	41 W	35*	8*
10 3	10 30.56	+23 45.5	1.626	1.097	37.1	19.9	41 W	35*	8*
10 8	10 45.73	+21 48.0	1.652	1.129	36.3	19.9	42 W	36*	9*
10 13	10 59.89	+19 51.1	1.676	1.163	35.7	20.0	43 W	37*	10*
10 18	11 13.13	+17 55.6	1.697	1.199	35.2	20.1	44 W	38*	12*
10 28	11 37.20	+14 11.4	1.730	1.272	34.6	20.2	47 W	40*	15*
11 7	11 58.54	+10 38.6	1.750	1.348	34.3	20.4	50 W	42*	19*
11 17	12 17.54	+ 7 18.5	1.757	1.425	34.2	20.5	54 W	44*	24*
11 27	12 34.38	+ 4 11.7	1.750	1.502	34.3	20.6	59 W	45*	30*
12 7	12 49.18	+ 1 17.9	1.730	1.578	34.3	20.7	64 W	45*	36*
12 17	13 1.89	− 1 23.4	1.697	1.653	34.1	20.8	70 W	43*	44*
12 27	13 12.34	− 3 52.4	1.653	1.727	33.7	20.8	77 W	41	52*
1 6	13 20.27	− 6 9.7	1.600	1.799	33.0	20.8	85 W	39	61*
1 16	13 25.32	− 8 15.5	1.539	1.869	31.7	20.7	93 W	37	69*

162361 2000 AF_6

3 22	22 18.11	−10 7.2	1.145	0.552	60.5	21.3	29 W	5*	23*
3 27	22 49.46	− 7 23.5	1.209	0.530	54.3	21.1	26 W	3*	20*
4 1	23 20.21	− 4 30.9	1.277	0.519	47.2	21.0	22 W	2*	16*
4 6	23 50.33	− 1 33.7	1.344	0.518	39.5	20.9	19 W	1*	13*
4 11	0 19.74	+ 1 23.6	1.410	0.528	32.0	20.8	16 W	—	10*
4 16	0 48.34	+ 4 16.3	1.473	0.548	25.1	20.8	13 W	—	7*
4 21	1 16.06	+ 7 0.4	1.531	0.577	19.3	20.8	11 W	—	5*
4 26	1 42.86	+ 9 33.0	1.587	0.611	14.4	20.8	9 W	—	3*
5 1	2 8.75	+11 52.2	1.639	0.649	10.6	20.9	7 W	—	1*
5 6	2 33.76	+13 57.1	1.688	0.690	7.7	21.0	5 W	—	—
5 11	2 57.97	+15 47.5	1.735	0.731	5.5	21.1	4 W	—	—
5 16	3 21.41	+17 23.5	1.780	0.772	3.9	21.2	3 W	—	—
5 21	3 44.14	+18 45.8	1.823	0.813	2.9	21.3	2 W	—	—
5 26	4 6.20	+19 54.9	1.865	0.853	2.1	21.4	2 W	—	—
5 31	4 27.63	+20 51.6	1.904	0.891	1.7	21.5	2 W	—	—

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°

516803 2010 JG_{88}

3 22	22 30.72	+ 6 45.6	1.646	0.847	29.2	21.5	24 W	15*	12*
3 27	22 54.59	+ 8 29.5	1.669	0.846	27.4	21.5	23 W	14*	11*
4 1	23 18.24	+10 4.2	1.695	0.848	25.6	21.5	22 W	13*	10*
4 6	23 41.58	+11 29.1	1.722	0.855	23.7	21.5	20 W	11*	9*
4 11	0 4.57	+12 43.7	1.752	0.865	21.8	21.5	19 W	10*	8*
4 16	0 27.16	+13 48.2	1.782	0.879	20.1	21.5	18 W	9*	8*

141432 2002 CQ_{11}

3 22	22 32.72	− 9 51.0	1.395	0.654	40.8	21.4	25 W	3*	19*
3 27	23 2.51	− 6 58.2	1.412	0.621	37.9	21.2	22 W	2*	16*
4 1	23 32.40	− 3 54.6	1.435	0.593	33.9	21.1	19 W	—	13*
4 6	0 2.36	− 0 44.0	1.462	0.573	29.1	20.9	16 W	—	10*
4 11	0 32.34	+ 2 29.2	1.492	0.562	23.5	20.7	13 W	—	7*
4 16	1 2.29	+ 5 40.0	1.523	0.560	17.6	20.6	10 W	—	4*
4 21	1 32.12	+ 8 43.5	1.555	0.568	11.7	20.4	7 W	—	1*
4 26	2 1.69	+11 35.1	1.587	0.586	6.3	20.3	4 W	—	—
5 1	2 30.90	+14 11.3	1.619	0.611	1.8	20.2	1 W	—	—
5 6	2 59.64	+16 29.5	1.651	0.643	2.6	20.4	2 E	—	—
5 11	3 27.80	+18 28.3	1.683	0.679	5.6	20.7	4 E	—	—
5 16	3 55.30	+20 7.3	1.717	0.717	7.9	21.0	6 E	—	—
5 21	4 22.07	+21 26.9	1.751	0.758	9.6	21.2	7 E	—	—
5 26	4 48.04	+22 27.7	1.787	0.799	10.8	21.5	8 E	—	1*

139622 2001 QQ_{142}

3 22	22 57.77	−11 59.7	2.203	1.323	15.7	21.5	21 W	—	15*
4 1	23 29.65	− 8 54.8	2.140	1.276	17.5	21.4	23 W	—	16*
4 11	0 2.30	− 5 34.0	2.080	1.229	19.0	21.3	24 W	—	17*
4 21	0 35.92	− 1 59.9	2.025	1.183	20.4	21.2	24 W	—	18*
5 1	1 10.71	+ 1 43.4	1.977	1.138	21.5	21.1	24 W	—	18*
5 11	1 46.87	+ 5 30.5	1.937	1.097	22.2	21.0	24 W	—	18*
5 21	2 24.61	+ 9 15.1	1.905	1.060	22.6	20.9	24 W	—	18*
5 31	3 4.07	+12 48.8	1.884	1.028	22.6	20.8	23 W	1*	17*
6 10	3 45.26	+16 2.8	1.872	1.004	22.1	20.7	22 W	2*	15*
6 20	4 28.08	+18 47.7	1.870	0.988	21.4	20.7	21 W	3*	14*
6 30	5 12.15	+20 55.1	1.876	0.980	20.4	20.6	20 W	5*	12*
7 10	5 56.90	+22 18.7	1.890	0.983	19.3	20.6	19 W	6*	10*
7 20	6 41.59	+22 55.3	1.911	0.994	18.3	20.6	18 W	7*	8*
7 30	7 25.41	+22 45.6	1.937	1.015	17.4	20.7	17 W	8*	7*
8 9	8 7.66	+21 53.6	1.966	1.043	16.8	20.8	17 W	9*	6*
8 19	8 47.88	+20 25.6	1.998	1.077	16.4	20.8	18 W	10*	5*
8 29	9 25.79	+18 29.4	2.031	1.116	16.4	21.0	18 W	11*	4*
9 8	10 1.38	+16 12.4	2.063	1.159	16.6	21.1	19 W	13*	4*
9 18	10 34.76	+13 41.8	2.093	1.204	17.0	21.2	21 W	14*	4*
9 28	11 6.14	+11 3.5	2.120	1.251	17.6	21.3	22 W	16*	4*
10 8	11 35.77	+ 8 22.5	2.142	1.298	18.5	21.5	24 W	18*	5*

162004 1991 VE

3 22	23 4.38	− 5 21.1	0.825	0.311	114.8	19.7	16 W	1*	10*
3 24	23 9.91	− 5 31.1	0.894	0.301	101.2	19.0	17 W	—	11*
3 26	23 17.35	− 5 22.0	0.964	0.299	87.5	18.6	17 W	—	11*
3 28	23 26.33	− 4 55.7	1.035	0.306	74.6	18.3	17 W	—	11*
3 30	23 36.35	− 4 15.6	1.102	0.321	63.0	18.2	17 W	—	11*
4 1	23 46.92	− 3 25.8	1.166	0.343	53.1	18.2	16 W	—	10*
4 3	23 57.66	− 2 29.7	1.226	0.368	45.0	18.2	15 W	—	9*
4 5	0 8.34	− 1 30.2	1.281	0.397	38.3	18.3	14 W	—	8*
4 7	0 18.78	− 0 29.2	1.333	0.428	32.9	18.4	13 W	—	7*
4 9	0 28.93	+ 0 31.8	1.381	0.460	28.6	18.5	13 W	—	7*
4 11	0 38.74	+ 1 32.1	1.426	0.492	25.1	18.6	12 W	—	6*
4 16	1 1.82	+ 3 56.5	1.527	0.573	19.0	18.9	11 W	—	5*
4 21	1 23.02	+ 6 9.5	1.617	0.650	15.4	19.2	10 W	—	4*
4 26	1 42.63	+ 8 10.6	1.697	0.724	13.2	19.4	9 W	—	3*
5 1	2 0.95	+10 0.4	1.770	0.793	12.0	19.7	9 W	—	3*
5 6	2 18.20	+11 39.8	1.836	0.858	11.4	19.9	10 W	—	4*
5 11	2 34.58	+13 9.9	1.895	0.919	11.2	20.1	10 W	—	4*
5 16	2 50.23	+14 31.5	1.949	0.976	11.4	20.3	11 W	—	5*
5 21	3 5.28	+15 45.4	1.997	1.028	11.7	20.5	12 W	—	6*
5 26	3 19.82	+16 52.3	2.040	1.078	12.2	20.6	13 W	—	7*
5 31	3 33.93	+17 52.8	2.078	1.124	12.9	20.8	14 W	—	8*
6 5	3 47.65	+18 47.4	2.110	1.166	13.6	20.9	16 W	1*	9*
6 10	4 1.06	+19 36.6	2.137	1.206	14.4	21.1	17 W	2*	10*
6 15	4 14.20	+20 20.7	2.160	1.242	15.3	21.2	19 W	3*	12*
6 20	4 27.11	+21 0.1	2.177	1.276	16.2	21.3	20 W	5*	13*
6 25	4 39.81	+21 35.0	2.189	1.306	17.1	21.4	22 W	7*	14*
6 30	4 52.32	+22 5.6	2.197	1.334	18.1	21.5	24 W	9*	15*

458368 2010 WJ

3 22	23 13.23	+11 45.9	2.226	1.307	13.0	21.5	17 W	11*	1*
3 27	23 29.69	+13 34.3	2.218	1.300	13.2	21.5	17 W	11*	1*
4 1	23 46.38	+15 20.4	2.213	1.295	13.4	21.5	17 W	11*	2*
4 6	0 3.32	+17 3.3	2.209	1.291	13.5	21.5	18 W	11*	2*
4 11	0 20.50	+18 42.1	2.207	1.288	13.6	21.5	18 W	11*	2*

458368 2010 *WJ* *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 16	0 37.93	+20 16.2	2.207	1.286	13.6	21.4	18 W	11*	2*
4 21	0 55.59	+21 44.6	2.208	1.286	13.6	21.4	17 W	11*	2*
4 26	1 13.45	+23 6.8	2.211	1.286	13.5	21.5	17 W	11*	3*
5 1	1 31.50	+24 22.0	2.215	1.289	13.4	21.5	17 W	11*	3*
5 6	1 49.70	+25 29.7	2.221	1.292	13.4	21.5	17 W	10*	3*
5 11	2 8.01	+26 29.4	2.227	1.297	13.3	21.5	17 W	10*	3*
5 16	2 26.39	+27 20.7	2.234	1.302	13.2	21.5	17 W	10*	3*

388189 2006 DS_{14}

3 22	23 21.43	− 1 50.8	1.525	0.582	19.7	21.2	11 W	—	5*
4 1	0 22.83	+ 0 3.9	1.555	0.574	11.5	21.0	7 W	—	—
4 11	1 23.57	+ 2 15.0	1.582	0.595	10.4	21.0	6 E	—	—
4 21	2 22.29	+ 4 37.5	1.607	0.640	15.4	21.4	10 E	—	3*
5 1	3 18.17	+ 7 0.4	1.637	0.699	19.8	21.8	14 E	—	7*

454100 2013 BO_{73}

3 22	23 26.81	− 5 15.6	1.732	0.780	14.6	21.5	11 W	—	5*
3 27	23 49.98	− 2 32.2	1.754	0.790	12.5	21.5	10 W	—	4*
4 1	0 12.58	+ 0 9.6	1.779	0.805	10.7	21.5	9 W	—	3*
4 6	0 34.65	+ 2 47.6	1.806	0.824	9.0	21.5	7 W	—	1*
4 11	0 56.21	+ 5 20.1	1.835	0.846	7.5	21.5	6 W	—	—

152671 1998 HL_3

3 22	23 29.45	− 3 10.6	1.683	0.721	13.6	21.3	10 W	—	4*
3 27	23 54.97	− 0 37.7	1.691	0.716	11.1	21.2	8 W	—	2*
4 1	0 20.38	+ 1 55.2	1.703	0.717	8.4	21.1	6 W	—	—
4 6	0 45.64	+ 4 25.7	1.716	0.722	5.8	21.0	4 W	—	—
4 11	1 10.74	+ 6 51.2	1.733	0.733	3.3	20.9	2 W	—	—
4 16	1 35.64	+ 9 9.7	1.751	0.748	1.4	20.9	1 W	—	—
4 21	2 0.32	+11 19.2	1.771	0.767	1.6	21.0	1 E	—	—
4 26	2 24.74	+13 18.4	1.794	0.789	3.2	21.2	2 E	—	—
5 1	2 48.86	+15 6.1	1.818	0.815	4.6	21.4	4 E	—	—

494690 2004 JQ_1

4 1	0 6.60	−13 50.5	1.507	0.668	31.4	21.4	20 W	—	10*
4 6	0 35.61	−10 48.6	1.528	0.658	28.5	21.3	18 W	—	7*
4 11	1 3.42	− 7 30.9	1.556	0.657	25.3	21.2	16 W	—	4*
4 16	1 29.95	− 4 3.4	1.587	0.663	21.9	21.2	14 W	—	2*
4 21	1 55.26	− 0 31.9	1.622	0.676	18.6	21.2	12 W	—	—
4 26	2 19.44	+ 2 58.1	1.660	0.696	15.4	21.2	11 E	—	—
5 1	2 42.63	+ 6 22.2	1.699	0.722	12.6	21.2	9 E	—	—
5 6	3 4.96	+ 9 37.0	1.740	0.752	10.1	21.2	8 E	—	—
5 11	3 26.60	+12 40.2	1.781	0.785	8.0	21.3	6 E	—	—
5 16	3 47.67	+15 30.3	1.823	0.821	6.4	21.4	5 E	—	—
5 21	4 8.29	+18 6.5	1.865	0.859	5.2	21.5	4 E	—	—

516734 2009 FG_1

4 1	0 41.31	−27 26.5	1.721	1.021	31.2	21.5	32 W	—	8*
4 6	0 51.32	−23 36.1	1.731	1.001	30.1	21.4	30 W	—	9*
4 11	1 0.67	−19 45.7	1.738	0.980	29.1	21.3	28 W	—	10*
4 16	1 9.53	−15 54.6	1.742	0.961	28.2	21.3	27 W	—	11*
4 21	1 18.05	−12 2.0	1.743	0.943	27.5	21.2	26 W	—	13*
4 26	1 26.37	− 8 7.0	1.740	0.927	27.0	21.2	25 W	—	14*
5 1	1 34.62	− 4 8.6	1.733	0.912	26.8	21.1	24 W	—	16*
5 6	1 42.96	− 0 5.8	1.723	0.899	27.1	21.1	24 W	—	17*
5 11	1 51.53	+ 4 2.3	1.708	0.888	27.7	21.0	24 W	—	18*
5 16	2 0.51	+ 8 16.4	1.691	0.880	28.7	21.0	25 W	1*	19*
5 21	2 10.09	+12 37.0	1.670	0.873	29.9	21.0	26 W	5*	19*
5 26	2 20.51	+17 4.2	1.648	0.870	31.4	21.0	27 W	8*	19*
5 31	2 32.03	+21 37.7	1.624	0.869	33.1	21.0	28 W	12*	18*
6 5	2 44.98	+26 16.3	1.601	0.871	34.7	21.1	29 W	16*	16*
6 10	2 59.78	+30 58.0	1.578	0.875	36.3	21.1	31 W	20*	14*
6 15	3 16.95	+35 39.6	1.558	0.882	37.8	21.1	32 W	23*	12*
6 20	3 37.10	+40 16.1	1.541	0.891	39.0	21.1	33 W	26*	9*
6 25	4 0.96	+44 40.9	1.528	0.903	39.9	21.2	35 W	28*	5*
6 30	4 29.28	+48 44.9	1.522	0.916	40.5	21.2	36 W	30*	1*
7 5	5 2.71	+52 17.2	1.521	0.932	40.7	21.3	37 W	31*	—
7 10	5 41.38	+55 5.6	1.527	0.949	40.6	21.3	37 W	30*	—
7 15	6 24.49	+56 58.8	1.540	0.967	40.2	21.4	38 W	29*	—
7 20	7 9.99	+57 49.7	1.559	0.987	39.6	21.4	38 W	28*	—
7 25	7 55.02	+57 38.2	1.585	1.007	38.6	21.5	38 W	26*	—

477326 2009 TQ_7

4 1	0 50.61	+ 7 54.0	2.757	1.762	2.3	21.5	4 E	—	—
4 11	1 15.39	+ 9 51.6	2.791	1.790	1.0	21.4	2 W	—	—
4 21	1 39.86	+11 40.7	2.821	1.820	2.1	21.6	4 W	—	—
5 1	2 4.03	+13 20.0	2.846	1.851	4.0	21.8	7 W	—	1*
5 11	2 27.88	+14 48.5	2.865	1.883	5.9	21.9	11 W	—	5*

369984 1998 QR_{52}

4 1	1 27.21	+19 28.7	2.006	1.106	16.7	21.4	19 E	12*	—
4 6	1 44.53	+20 58.9	1.989	1.083	16.6	21.4	18 E	12*	—
4 11	2 2.55	+22 24.5	1.970	1.059	16.6	21.3	18 E	11*	—
4 16	2 21.32	+23 44.4	1.950	1.035	16.7	21.2	17 E	11*	—
4 21	2 40.90	+24 57.3	1.929	1.011	16.8	21.1	17 E	11*	—
4 26	3 1.31	+26 1.9	1.907	0.986	17.0	21.1	17 E	11*	—
5 1	3 22.55	+26 56.5	1.883	0.960	17.3	21.0	16 E	10*	—
5 6	3 44.62	+27 39.5	1.859	0.935	17.7	20.9	16 E	10*	—
5 11	4 7.48	+28 9.3	1.834	0.910	18.2	20.9	16 E	10*	1*
5 16	4 31.06	+28 24.1	1.808	0.885	18.8	20.8	16 E	10*	2*
5 21	4 55.26	+28 22.6	1.782	0.862	19.6	20.7	17 E	10*	3*
5 26	5 19.95	+28 3.3	1.755	0.839	20.6	20.7	17 E	9*	4*
5 31	5 44.97	+27 25.3	1.727	0.818	21.7	20.6	17 E	9*	6*
6 5	6 10.15	+26 27.9	1.699	0.798	23.1	20.6	18 E	8*	7*
6 10	6 35.32	+25 11.0	1.671	0.781	24.7	20.5	19 E	8*	9*
6 15	7 0.35	+23 35.1	1.642	0.767	26.6	20.5	20 E	7*	11*
6 20	7 25.10	+21 41.0	1.613	0.756	28.6	20.5	21 E	6*	13*
6 25	7 49.49	+19 30.3	1.584	0.748	30.8	20.5	22 E	5*	15*
6 30	8 13.47	+17 4.6	1.556	0.744	33.0	20.5	24 E	4*	17*
7 5	8 37.01	+14 26.3	1.528	0.744	35.4	20.5	25 E	3*	19*
7 10	9 0.15	+11 37.6	1.501	0.747	37.6	20.6	27 E	2*	20*
7 15	9 22.96	+ 8 41.1	1.475	0.755	39.7	20.6	28 E	1*	22*
7 20	9 45.50	+ 5 39.2	1.451	0.765	41.7	20.7	30 E	—	24*
7 25	10 7.87	+ 2 34.4	1.430	0.779	43.4	20.7	32 E	—	26*
7 30	10 30.15	− 0 30.9	1.411	0.796	44.8	20.8	34 E	—	27*
8 4	10 52.44	− 3 34.4	1.395	0.815	46.0	20.8	35 E	—	29*
8 9	11 14.81	− 6 33.7	1.383	0.836	46.8	20.9	37 E	—	30*
8 14	11 37.35	− 9 26.8	1.374	0.859	47.3	20.9	39 E	—	32*
8 19	12 0.08	−12 11.7	1.370	0.882	47.6	21.0	40 E	—	33*
8 24	12 23.05	−14 46.6	1.369	0.907	47.6	21.1	41 E	—	34*
8 29	12 46.23	−17 9.9	1.373	0.932	47.4	21.1	43 E	—	36*
9 3	13 9.60	−19 20.0	1.380	0.957	47.0	21.2	44 E	—	37*
9 8	13 33.11	−21 16.1	1.391	0.982	46.4	21.2	45 E	—	38*
9 13	13 56.69	−22 57.2	1.407	1.007	45.7	21.3	46 E	—	39*
9 18	14 20.26	−24 23.1	1.425	1.032	44.8	21.4	46 E	1*	39*
9 23	14 43.71	−25 33.7	1.447	1.056	43.9	21.4	47 E	2*	40*
9 28	15 6.93	−26 29.2	1.472	1.080	42.9	21.5	47 E	3*	41*

477327 2009 TB_8

4 1	1 50.52	+16 19.0	2.134	1.248	16.3	21.3	21 E	14*	4*
4 6	2 5.60	+17 16.5	2.089	1.191	16.1	21.2	19 E	13*	3*
4 11	2 21.62	+18 12.8	2.041	1.134	16.0	21.0	18 E	12*	3*
4 16	2 38.68	+19 7.0	1.992	1.076	16.2	20.8	17 E	11*	3*
4 21	2 56.88	+19 58.0	1.939	1.019	16.5	20.7	17 E	10*	3*
4 26	3 16.32	+20 44.3	1.885	0.963	17.2	20.5	16 E	9*	4*
5 1	3 37.08	+21 24.2	1.830	0.908	18.2	20.3	16 E	9*	4*
5 6	3 59.25	+21 55.6	1.772	0.855	19.7	20.2	17 E	9*	5*
5 11	4 22.86	+22 16.0	1.714	0.806	21.7	20.1	17 E	8*	7*
5 16	4 47.93	+22 23.0	1.655	0.761	24.3	19.9	18 E	8*	8*
5 21	5 14.40	+22 13.8	1.595	0.722	27.7	19.8	19 E	8*	10*
5 26	5 42.15	+21 46.2	1.535	0.692	31.6	19.8	21 E	8*	12*
5 31	6 10.96	+20 58.0	1.475	0.671	36.1	19.8	23 E	8*	14*
6 5	6 40.59	+19 48.5	1.417	0.661	40.9	19.8	25 E	8*	17*
6 10	7 10.75	+18 17.7	1.362	0.663	45.6	19.8	28 E	8*	20*
6 15	7 41.21	+16 26.7	1.312	0.677	49.8	19.9	31 E	8*	23*
6 20	8 11.75	+14 17.5	1.268	0.701	53.2	20.0	34 E	8*	26*
6 25	8 42.21	+11 52.9	1.232	0.735	55.6	20.1	37 E	9*	29*
6 30	9 12.42	+ 9 16.3	1.206	0.776	56.9	20.2	40 E	9*	33*
7 5	9 42.24	+ 6 31.6	1.190	0.823	57.3	20.3	43 E	9*	36*
7 10	10 11.48	+ 3 43.2	1.185	0.873	56.8	20.4	46 E	9*	39*
7 15	10 39.97	+ 0 55.6	1.192	0.927	55.7	20.5	49 E	9*	42*
7 20	11 7.57	− 1 47.2	1.209	0.982	54.0	20.6	52 E	9*	45*
7 25	11 34.11	− 4 21.7	1.238	1.039	52.1	20.8	54 E	9*	48*
7 30	11 59.50	− 6 45.5	1.276	1.096	50.0	20.9	56 E	10*	50*
8 4	12 23.67	− 8 57.0	1.322	1.154	47.8	21.0	57 E	10*	51*
8 9	12 46.60	−10 55.6	1.377	1.211	45.6	21.1	59 E	10*	53*
8 14	13 8.32	−12 41.6	1.438	1.268	43.4	21.3	59 E	10*	53*
8 19	13 28.89	−14 15.5	1.505	1.324	41.3	21.4	60 E	11*	54*

474424 2002 YZ_1

4 1	1 51.87	+15 28.5	2.802	1.897	10.6	21.5	20 E	14*	4*
4 11	2 13.00	+18 15.9	2.804	1.865	8.8	21.4	17 E	10*	1*
4 21	2 35.35	+20 59.3	2.799	1.835	7.2	21.3	13 E	7*	—
5 1	2 59.03	+23 36.7	2.787	1.806	5.8	21.2	10 E	4*	—
5 11	3 24.14	+26 5.8	2.770	1.778	4.9	21.1	9 E	2*	—
5 21	3 50.79	+28 23.7	2.748	1.752	4.7	21.0	8 W	1*	—
5 31	4 19.05	+30 27.5	2.722	1.728	5.3	21.0	9 W	3*	—
6 10	4 48.90	+32 13.7	2.694	1.707	6.3	21.0	11 W	5*	—
6 20	5 20.28	+33 38.9	2.664	1.687	7.6	21.0	13 W	7*	—
6 30	5 52.98	+34 39.7	2.632	1.671	9.0	21.0	15 W	9*	—
7 10	6 26.69	+35 13.4	2.601	1.657	10.4	21.0	17 W	11*	—
7 20	7 0.99	+35 17.9	2.571	1.646	11.8	21.0	19 W	13*	—

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
474424 2002 YZ_1 *(continuation)*									
7 30	7 35.40	+34 52.6	2.541	1.638	13.1	21.1	21 W	15*	—
8 9	8 9.43	+33 58.1	2.512	1.634	14.3	21.1	24 W	17*	—
8 19	8 42.66	+32 36.4	2.485	1.632	15.6	21.1	26 W	20*	—
8 29	9 14.73	+30 50.6	2.458	1.634	16.7	21.1	28 W	22*	—
9 8	9 45.42	+28 44.3	2.433	1.640	17.9	21.1	30 W	24*	1*
9 18	10 14.65	+26 21.8	2.407	1.648	19.0	21.2	32 W	26*	2*
9 28	10 42.36	+23 47.4	2.380	1.659	20.2	21.2	35 W	29*	3*
10 8	11 8.61	+21 5.1	2.352	1.674	21.3	21.2	37 W	31*	5*
10 18	11 33.47	+18 18.4	2.322	1.691	22.4	21.2	40 W	34*	7*
10 28	11 57.01	+15 30.6	2.287	1.711	23.6	21.3	44 W	37*	10*
11 7	12 19.32	+12 44.5	2.249	1.733	24.7	21.3	47 W	40*	14*
11 17	12 40.46	+10 2.1	2.206	1.757	25.9	21.3	51 W	43*	18*
11 27	13 0.43	+ 7 25.5	2.156	1.783	26.9	21.3	55 W	45*	23*
12 7	13 19.25	+ 4 55.9	2.101	1.811	27.9	21.3	59 W	46*	28*
12 17	13 36.87	+ 2 34.1	2.039	1.841	28.8	21.3	64 W	46*	35*
12 27	13 53.17	+ 0 21.0	1.970	1.871	29.5	21.3	70 W	45*	42*
1 6	14 8.01	− 1 43.6	1.896	1.903	30.0	21.3	75 W	43*	49*
1 16	14 21.18	− 3 39.6	1.816	1.936	30.2	21.2	82 W	41	57*
153792 2001 VH_{75}									
4 1	1 53.96	+16 46.6	2.206	1.328	16.0	21.4	21 E	15*	4*
4 11	2 21.75	+18 25.2	2.113	1.204	15.2	21.1	18 E	12*	3*
4 21	2 53.30	+19 58.9	2.006	1.077	14.9	20.7	16 E	9*	3*
5 1	3 29.51	+21 19.8	1.886	0.946	15.7	20.3	15 E	8*	3*
5 6	3 49.66	+21 51.7	1.821	0.881	16.6	20.1	14 E	7*	3*
5 11	4 11.35	+22 15.0	1.753	0.816	18.1	19.9	15 E	6*	4*
5 16	4 34.70	+22 27.4	1.682	0.753	20.4	19.7	15 E	6*	5*
5 21	4 59.78	+22 25.8	1.608	0.693	23.7	19.5	16 E	6*	7*
5 26	5 26.60	+22 6.9	1.530	0.639	28.2	19.4	17 E	6*	9*
5 31	5 55.05	+21 27.8	1.449	0.594	34.2	19.3	19 E	6*	11*
6 5	6 24.90	+20 26.0	1.365	0.561	41.5	19.2	22 E	6*	14*
6 10	6 55.81	+19 0.8	1.278	0.544	49.8	19.3	24 E	6*	17*
6 15	7 27.46	+17 13.2	1.191	0.546	58.3	19.4	27 E	7*	20*
6 20	7 59.64	+15 5.2	1.107	0.565	65.9	19.5	31 E	7*	23*
6 25	8 32.40	+12 38.9	1.029	0.600	71.8	19.7	34 E	7*	27*
6 30	9 5.91	+ 9 55.8	0.962	0.646	75.6	19.8	38 E	8*	31*
7 10	10 15.66	+ 3 47.5	0.868	0.762	76.9	20.0	47 E	10*	40*
7 20	11 27.72	− 2 44.8	0.837	0.890	72.0	20.1	56 E	12*	50*
7 30	12 37.41	− 8 39.2	0.870	1.021	64.4	20.2	65 E	14*	58*
8 4	13 9.71	−11 6.1	0.907	1.086	60.4	20.3	69 E	15*	62*
8 9	13 39.77	−13 9.9	0.957	1.150	56.6	20.5	71 E	16*	65*
8 14	14 7.46	−14 51.6	1.017	1.213	53.2	20.6	73 E	17*	67*
8 19	14 32.82	−16 13.8	1.085	1.275	50.0	20.8	75 E	18*	68*
8 24	14 56.01	−17 19.5	1.160	1.336	47.1	20.9	76 E	18*	69*
8 29	15 17.25	−18 11.6	1.240	1.396	44.6	21.1	76 E	19*	70*
9 3	15 36.75	−18 52.6	1.326	1.454	42.2	21.3	76 E	19*	69*
9 8	15 54.76	−19 24.5	1.415	1.511	40.1	21.4	75 E	19*	69*
369986 1998 SO									
4 1	1 55.69	+ 1 35.8	1.159	0.383	56.3	20.9	19 E	5*	12*
4 3	2 1.02	+ 2 43.4	1.100	0.344	64.3	20.8	18 E	5*	11*
4 5	2 5.08	+ 4 3.4	1.036	0.305	74.8	20.7	17 E	5*	10*
4 7	2 6.88	+ 5 39.5	0.969	0.270	89.0	20.8	16 E	4*	9*
4 9	2 4.92	+ 7 35.1	0.901	0.241	107.8	21.3	13 E	3*	6*
152948 2000 FP_{32}									
4 1	2 25.51	+14 27.6	2.862	2.027	13.1	21.5	27 E	19*	12*
4 11	2 46.54	+16 13.4	2.880	1.994	11.3	21.4	23 E	15*	9*
4 21	3 8.54	+17 53.7	2.889	1.962	9.4	21.3	19 E	11*	7*
5 1	3 31.52	+19 26.7	2.890	1.931	7.5	21.2	15 E	7*	4*
5 11	3 55.47	+20 50.6	2.884	1.900	5.6	21.0	11 E	3*	2*
5 21	4 20.38	+22 3.3	2.871	1.870	3.7	20.9	7 E	—	—
5 31	4 46.22	+23 2.9	2.853	1.842	1.9	20.7	3 E	—	—
6 10	5 12.88	+23 47.7	2.829	1.814	0.4	20.5	1 W	—	—
6 20	5 40.29	+24 15.8	2.802	1.788	2.0	20.6	3 W	—	—
6 30	6 8.31	+24 25.9	2.770	1.764	3.8	20.7	7 W	—	—
7 10	6 36.76	+24 16.9	2.736	1.742	5.6	20.7	10 W	1*	1*
7 20	7 5.47	+23 48.2	2.699	1.721	7.4	20.8	13 W	4*	3*
7 30	7 34.26	+22 59.7	2.660	1.703	9.1	20.8	15 W	7*	5*
8 9	8 2.94	+21 52.0	2.620	1.688	10.9	20.8	18 W	10*	6*
8 19	8 31.36	+20 26.0	2.578	1.675	12.6	20.8	21 W	13*	8*
8 29	8 59.39	+18 43.2	2.536	1.665	14.3	20.8	24 W	16*	9*
9 8	9 26.93	+16 45.6	2.493	1.657	15.9	20.8	27 W	19*	11*
9 18	9 53.92	+14 35.3	2.449	1.653	17.5	20.9	30 W	22*	12*
9 28	10 20.33	+12 14.9	2.404	1.651	19.1	20.9	33 W	25*	14*
10 8	10 46.13	+ 9 47.0	2.359	1.653	20.6	20.9	36 W	28*	15*
10 18	11 11.36	+ 7 14.2	2.312	1.658	22.1	20.9	39 W	30*	18*
10 28	11 36.00	+ 4 39.2	2.263	1.665	23.6	20.9	42 W	33*	20*
11 7	12 0.08	+ 2 4.6	2.212	1.676	25.0	20.9	46 W	35*	23*
11 17	12 23.60	− 0 27.2	2.159	1.689	26.3	20.9	49 W	36*	27*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
152948 2000 FP_{32} *(continuation)*									
11 27	12 46.53	− 2 54.0	2.103	1.705	27.6	20.9	53 W	37*	31*
12 7	13 8.84	− 5 13.7	2.045	1.723	28.7	20.9	57 W	37*	36*
12 17	13 30.48	− 7 24.6	1.982	1.743	29.8	20.9	62 W	36*	41*
12 27	13 51.30	− 9 25.1	1.916	1.766	30.6	20.9	66 W	35*	47*
1 6	14 11.17	−11 14.3	1.847	1.790	31.3	20.8	71 W	34*	54*
1 16	14 29.90	−12 51.4	1.774	1.817	31.8	20.8	77 W	32	61*
489337 2006 UM									
4 1	2 27.06	+15 40.8	1.947	1.165	23.8	21.4	28 E	20*	12*
4 6	2 43.36	+17 43.5	1.927	1.138	24.0	21.3	28 E	20*	11*
4 11	3 0.50	+19 44.0	1.907	1.113	24.3	21.3	27 E	20*	10*
4 16	3 18.57	+21 41.2	1.887	1.091	24.6	21.2	27 E	19*	10*
4 21	3 37.61	+23 33.6	1.868	1.072	25.1	21.2	27 E	19*	10*
4 26	3 57.65	+25 19.4	1.849	1.056	25.6	21.1	27 E	19*	9*
5 1	4 18.73	+26 56.7	1.832	1.043	26.2	21.1	27 E	20*	9*
5 6	4 40.82	+28 23.6	1.817	1.033	26.8	21.1	28 E	20*	10*
5 11	5 3.86	+29 38.0	1.803	1.028	27.5	21.1	28 E	20*	10*
5 16	5 27.78	+30 37.9	1.792	1.026	28.2	21.1	29 E	20*	10*
5 21	5 52.41	+31 21.5	1.784	1.027	28.8	21.1	29 E	21*	11*
5 26	6 17.56	+31 47.4	1.779	1.033	29.3	21.1	30 E	21*	12*
5 31	6 42.99	+31 54.8	1.777	1.042	29.7	21.1	31 E	21*	13*
6 5	7 8.43	+31 43.2	1.779	1.055	30.1	21.2	31 E	21*	14*
6 10	7 33.63	+31 13.1	1.785	1.071	30.3	21.2	32 E	21*	15*
6 15	7 58.35	+30 25.3	1.795	1.090	30.3	21.3	33 E	21*	17*
6 20	8 22.39	+29 21.4	1.810	1.112	30.2	21.3	33 E	21*	18*
6 25	8 45.58	+28 3.2	1.828	1.136	29.9	21.4	34 E	20*	19*
6 30	9 7.84	+26 32.9	1.851	1.163	29.6	21.5	34 E	20*	20*
474190 1999 XX_{14}									
4 1	2 39.30	+ 4 29.1	2.813	2.001	14.1	21.5	29 E	15*	20*
4 11	2 58.27	+ 7 8.0	2.826	1.961	12.3	21.4	25 E	10*	16*
4 21	3 18.21	+ 9 42.0	2.831	1.921	10.5	21.2	20 E	6*	13*
5 1	3 39.17	+12 9.8	2.827	1.881	8.6	21.1	16 E	3*	9*
5 11	4 1.17	+14 30.4	2.816	1.842	6.7	21.0	12 E	—	6*
5 21	4 24.28	+16 42.5	2.799	1.804	4.7	20.8	8 E	—	2*
5 31	4 48.55	+18 44.4	2.774	1.766	2.8	20.6	5 E	—	—
6 10	5 14.00	+20 34.8	2.744	1.731	1.4	20.5	2 E	—	—
6 20	5 40.67	+22 11.7	2.709	1.696	2.1	20.5	4 W	—	—
6 30	6 8.55	+23 33.5	2.670	1.664	3.9	20.5	6 W	—	—
7 10	6 37.59	+24 38.2	2.628	1.634	5.9	20.5	10 W	2*	1*
7 20	7 7.71	+25 24.0	2.584	1.607	7.9	20.5	13 W	5*	2*
7 30	7 38.79	+25 49.4	2.537	1.582	9.8	20.6	15 W	8*	3*
8 9	8 10.62	+25 53.2	2.491	1.561	11.8	20.6	18 W	12*	3*
8 19	8 43.02	+25 34.8	2.445	1.543	13.6	20.6	21 W	15*	3*
8 29	9 15.72	+24 54.1	2.400	1.529	15.3	20.6	24 W	18*	3*
9 8	9 48.46	+23 52.1	2.358	1.519	17.0	20.6	26 W	20*	3*
9 18	10 21.02	+22 30.4	2.318	1.514	18.5	20.6	29 W	23*	2*
9 28	10 53.17	+20 51.5	2.281	1.512	19.9	20.6	31 W	25*	2*
10 8	11 24.74	+18 58.8	2.247	1.515	21.2	20.6	33 W	27*	3*
10 18	11 55.59	+16 55.9	2.217	1.522	22.4	20.6	36 W	30*	3*
10 28	12 25.62	+14 46.8	2.189	1.534	23.5	20.6	38 W	32*	4*
11 7	12 54.75	+12 35.6	2.164	1.549	24.5	20.7	40 W	34*	6*
11 17	13 22.95	+10 26.0	2.140	1.568	25.4	20.7	43 W	37*	8*
11 27	13 50.15	+ 8 21.6	2.116	1.590	26.3	20.7	46 W	39*	11*
12 7	14 16.32	+ 6 25.1	2.091	1.616	27.2	20.8	48 W	41*	15*
12 17	14 41.42	+ 4 38.9	2.063	1.644	28.0	20.8	52 W	42*	20*
12 27	15 5.36	+ 3 4.7	2.033	1.675	28.7	20.8	55 W	43*	25*
1 6	15 28.06	+ 1 43.2	1.998	1.708	29.5	20.8	59 W	43*	31*
1 16	15 49.42	+ 0 34.9	1.957	1.743	30.1	20.9	63 W	43*	37*
239849 1999 VO_{11}									
4 1	2 42.23	+16 34.9	1.782	1.072	29.4	21.3	32 E	23*	14*
4 6	2 58.21	+18 35.5	1.746	1.029	30.2	21.2	31 E	23*	13*
4 11	3 15.32	+20 36.1	1.707	0.989	31.2	21.1	31 E	23*	13*
4 16	3 33.70	+22 35.4	1.667	0.951	32.4	21.0	31 E	23*	12*
4 21	3 53.48	+24 31.5	1.625	0.916	33.9	20.9	31 E	23*	12*
4 26	4 14.77	+26 22.4	1.582	0.886	35.7	20.8	31 E	23*	12*
5 1	4 37.68	+28 5.1	1.539	0.860	37.8	20.7	32 E	23*	12*
5 6	5 2.27	+29 36.4	1.496	0.840	40.0	20.7	32 E	24*	13*
5 11	5 28.55	+30 52.5	1.453	0.827	42.4	20.6	33 E	25*	13*
5 16	5 56.44	+31 49.2	1.412	0.820	44.8	20.6	35 E	26*	14*
5 21	6 25.75	+32 22.7	1.373	0.819	47.1	20.6	36 E	27*	16*
5 26	6 56.17	+32 29.2	1.338	0.826	49.2	20.7	38 E	28*	17*
5 31	7 27.26	+32 6.0	1.307	0.840	50.9	20.7	40 E	28*	19*
6 5	7 58.55	+31 12.0	1.281	0.860	52.2	20.7	42 E	29*	22*
6 10	8 29.50	+29 47.4	1.262	0.885	53.0	20.8	44 E	29*	24*
6 15	8 59.68	+27 54.4	1.250	0.915	53.3	20.8	46 E	30*	27*
6 20	9 28.70	+25 36.7	1.246	0.950	53.1	20.9	48 E	29*	30*
6 25	9 56.32	+22 59.0	1.250	0.987	52.4	21.0	50 E	29*	33*
6 30	10 22.41	+20 6.8	1.263	1.028	51.5	21.1	52 E	28*	36*
7 5	10 46.91	+17 5.6	1.283	1.070	50.2	21.2	54 E	27*	39*
7 10	11 9.87	+14 0.4	1.312	1.114	48.7	21.2	55 E	26*	42*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
	239849 1999 VO_{11} *(continuation)*								
7 15	11 31.39	+10 55.5	1.347	1.160	47.1	21.3	57 E	25*	44*
7 20	11 51.59	+ 7 54.4	1.390	1.206	45.4	21.5	58 E	24*	46*
	490136 2008 UE_{128}								
4 1	2 42.48	+16 38.5	2.658	1.885	16.3	21.5	32 E	24*	14*
4 11	3 3.50	+19 9.0	2.671	1.842	14.6	21.4	28 E	20*	11*
4 21	3 26.02	+21 33.8	2.675	1.800	12.9	21.3	24 E	16*	8*
5 1	3 50.14	+23 50.8	2.672	1.760	11.3	21.2	20 E	13*	6*
5 11	4 15.91	+25 57.4	2.663	1.721	9.8	21.0	17 E	10*	3*
5 21	4 43.42	+27 50.5	2.648	1.684	8.4	20.9	14 E	7*	1*
5 31	5 12.66	+29 26.7	2.629	1.650	7.2	20.8	12 E	6*	—
6 10	5 43.58	+30 42.5	2.607	1.618	6.4	20.7	10 E	4*	—
6 20	6 16.01	+31 34.3	2.584	1.590	6.0	20.6	9 E	3*	—
6 30	6 49.69	+31 58.7	2.560	1.565	6.0	20.6	9 E	3*	—
7 10	7 24.23	+31 53.3	2.537	1.545	6.4	20.6	10 E	3*	—
7 20	7 59.17	+31 16.8	2.516	1.529	7.0	20.5	11 E	3*	—
7 30	8 34.05	+30 9.0	2.497	1.517	7.8	20.5	12 W	4*	—
8 9	9 8.39	+28 31.7	2.482	1.510	8.5	20.6	13 W	5*	—
8 19	9 41.86	+26 27.6	2.470	1.508	9.3	20.6	14 W	6*	—
8 29	10 14.18	+24 0.9	2.462	1.511	10.1	20.6	15 W	7*	—
9 8	10 45.23	+21 16.1	2.458	1.519	10.8	20.6	16 W	9*	—
9 18	11 14.98	+18 18.2	2.457	1.531	11.5	20.7	18 W	10*	—
9 28	11 43.45	+15 12.0	2.459	1.548	12.3	20.7	19 W	12*	—
10 8	12 10.72	+12 2.1	2.461	1.570	13.2	20.8	21 W	14*	—
10 18	12 36.91	+ 8 52.4	2.464	1.595	14.1	20.9	23 W	17*	—
10 28	13 2.10	+ 5 46.3	2.466	1.624	15.1	21.0	25 W	19*	1*
11 7	13 26.39	+ 2 46.6	2.465	1.656	16.3	21.0	28 W	22*	4*
11 17	13 49.87	− 0 4.8	2.460	1.691	17.5	21.1	31 W	24*	7*
11 27	14 12.58	− 2 46.1	2.451	1.728	18.8	21.2	34 W	27*	12*
12 7	14 34.53	− 5 16.3	2.435	1.767	20.1	21.3	38 W	28*	17*
12 17	14 55.74	− 7 35.0	2.412	1.808	21.4	21.3	42 W	29*	22*
12 27	15 16.14	− 9 41.9	2.381	1.850	22.8	21.4	47 W	30*	29*
1 6	15 35.66	−11 37.4	2.341	1.894	24.0	21.5	52 W	30*	35*
1 16	15 54.21	−13 22.2	2.293	1.938	25.1	21.5	57 W	29*	43*
	68031 2000 YK_{29}								
4 1	2 48.28	+ 7 22.9	2.108	1.360	22.6	21.5	31 E	18*	20*
4 11	3 16.82	+10 13.6	2.123	1.341	21.4	21.4	29 E	16*	19*
4 21	3 46.40	+12 52.8	2.136	1.322	20.2	21.4	27 E	14*	17*
5 1	4 17.10	+15 17.3	2.145	1.303	19.0	21.3	25 E	11*	16*
5 11	4 48.95	+17 23.9	2.153	1.286	17.9	21.2	23 E	9*	14*
5 21	5 21.94	+19 9.4	2.158	1.269	16.8	21.2	21 E	7*	13*
5 31	5 56.00	+20 30.8	2.162	1.253	15.7	21.1	20 E	6*	12*
6 10	6 30.98	+21 25.4	2.164	1.239	14.7	21.1	18 E	4*	10*
6 20	7 6.66	+21 51.2	2.166	1.227	13.7	21.0	17 E	3*	9*
6 30	7 42.81	+21 46.9	2.167	1.217	12.8	21.0	15 E	2*	8*
7 10	8 19.11	+21 12.4	2.168	1.209	12.0	20.9	14 E	2*	7*
7 20	8 55.31	+20 8.4	2.168	1.203	11.3	20.9	13 E	2*	6*
7 30	9 31.19	+18 36.6	2.170	1.200	10.7	20.9	13 E	2*	5*
8 9	10 6.55	+16 39.8	2.172	1.200	10.2	20.8	12 E	3*	4*
8 19	10 41.30	+14 21.4	2.176	1.202	9.8	20.8	12 E	3*	4*
8 29	11 15.43	+11 45.4	2.181	1.207	9.4	20.8	11 E	3*	3*
9 8	11 48.93	+ 8 56.1	2.188	1.214	9.1	20.8	11 E	4*	2*
9 18	12 21.91	+ 5 58.1	2.197	1.224	8.7	20.8	11 E	4*	1*
9 28	12 54.46	+ 2 55.9	2.208	1.235	8.3	20.9	10 E	4*	—
10 8	13 26.69	− 0 5.9	2.222	1.249	7.8	20.9	10 E	4*	—
10 18	13 58.73	− 3 3.1	2.237	1.264	7.4	20.9	9 E	3*	—
10 28	14 30.66	− 5 51.6	2.253	1.280	6.9	20.9	9 E	3*	—
11 7	15 2.57	− 8 27.9	2.270	1.298	6.4	20.9	8 E	2*	—
11 17	15 34.51	−10 48.9	2.287	1.316	6.2	21.0	8 E	1*	—
11 27	16 6.47	−12 51.9	2.303	1.335	6.2	21.0	8 W	1*	—
12 7	16 38.43	−14 35.0	2.318	1.354	6.5	21.1	9 W	3*	—
12 17	17 10.33	−15 56.9	2.331	1.373	7.2	21.2	10 W	4*	—
12 27	17 42.07	−16 56.9	2.340	1.391	8.2	21.2	12 W	5*	—
1 6	18 13.53	−17 35.0	2.346	1.410	9.5	21.3	14 W	6*	3*
1 16	18 44.62	−17 51.9	2.347	1.428	10.9	21.4	16 W	7*	6*
	361689 2007 VY_7								
4 1	3 39.16	+19 37.0	1.251	0.903	52.3	21.5	46 E	36*	23*
4 6	4 2.35	+21 23.2	1.224	0.900	53.6	21.5	46 E	36*	24*
4 11	4 26.70	+23 0.0	1.198	0.902	54.8	21.5	47 E	37*	24*
4 16	4 52.19	+24 24.8	1.176	0.908	55.8	21.5	48 E	38*	25*
4 21	5 18.73	+25 34.8	1.157	0.918	56.5	21.5	50 E	38*	25*
4 26	5 46.17	+26 27.6	1.142	0.933	57.0	21.5	51 E	39*	26*
	366415 2001 TS_{110}								
4 1	13 27.07	−13 40.1	2.476	3.453	4.1	22.6	166 W	31	78
4 11	13 18.75	−12 46.0	2.450	3.450	1.3	22.4	176 W	32	77
4 21	13 10.42	−11 47.3	2.455	3.446	3.2	22.6	169 E	33	76
5 1	13 2.79	−10 48.9	2.489	3.442	6.4	22.8	157 E	34	75
5 11	12 56.47	− 9 55.5	2.551	3.436	9.4	22.9	146 E	35	74

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
	283460 2001 PD_1								
4 1	13 30.44	−18 26.7	2.281	3.245	5.5	23.1	162 W	27	82
4 11	13 20.66	−17 35.4	2.246	3.239	2.9	22.9	171 W	27	82
4 21	13 10.78	−16 34.4	2.241	3.231	3.7	22.9	168 E	28	81
5 1	13 1.66	−15 28.9	2.267	3.222	6.8	23.1	158 E	30	79
5 11	12 54.04	−14 25.1	2.320	3.212	9.9	23.3	147 E	31	78
	410650 2008 SQ_1								
4 1	13 33.94	−18 45.8	2.687	3.646	5.1	23.9	161 W	26	83
4 11	13 25.22	−17 55.9	2.697	3.689	2.6	23.8	170 W	27	82
4 21	13 16.67	−16 59.5	2.738	3.730	2.9	23.8	169 E	28	81
5 1	13 8.95	−16 1.1	2.810	3.771	5.3	24.1	160 E	29	80
5 11	13 2.57	−15 5.4	2.911	3.811	7.9	24.3	149 E	30	79
	417634 2006 XG_1								
4 1	13 37.42	− 0 21.7	2.931	3.907	3.7	24.1	166 W	45	64
4 11	13 28.32	+ 0 12.5	2.919	3.912	2.3	24.0	171 W	45	64
4 21	13 19.15	+ 0 41.6	2.938	3.916	3.9	24.2	165 E	46	63
5 1	13 10.53	+ 1 2.8	2.988	3.918	6.5	24.3	154 E	46	63
5 11	13 3.00	+ 1 14.1	3.067	3.920	8.9	24.5	143 E	46	63
	445830 2012 CL_{19}								
4 1	13 43.39	− 4 25.3	0.830	1.813	8.3	23.7	165 W	41	68
4 6	13 34.74	− 3 31.5	0.842	1.837	4.9	23.6	171 W	41	68
4 11	13 26.18	− 2 40.6	0.861	1.861	3.2	23.5	174 W	42	67
4 16	13 17.99	− 1 54.3	0.886	1.883	5.0	23.7	171 E	43	66
4 21	13 10.44	− 1 14.0	0.918	1.905	8.1	24.0	165 E	44	65
4 26	13 3.72	− 0 40.7	0.955	1.926	11.1	24.2	158 E	44	65
5 1	12 57.98	− 0 15.0	0.998	1.947	14.0	24.4	152 E	45	64
	490559 2009 WR_{20}								
4 1	13 44.51	− 5 24.7	2.555	3.528	4.4	22.5	164 W	40	69
4 11	13 36.17	− 4 44.8	2.522	3.521	1.6	22.2	174 W	40	69
4 21	13 27.53	− 4 6.4	2.520	3.513	3.0	22.3	170 E	41	68
5 1	13 19.29	− 3 33.3	2.547	3.504	6.1	22.5	158 E	41	68
5 11	13 12.10	− 3 8.6	2.603	3.494	9.0	22.7	147 E	42	67
	430804 2005 AD_{13}								
4 1	13 47.87	+ 7 51.3	2.244	3.199	6.3	22.7	159 W	53	56
4 6	13 42.28	+ 8 32.0	2.217	3.183	5.7	22.6	162 W	54	55
4 11	13 36.43	+ 9 10.4	2.199	3.168	5.6	22.6	162 W	54	55
4 16	13 30.42	+ 9 45.6	2.189	3.151	6.2	22.6	160 E	55	54
4 21	13 24.37	+10 16.8	2.187	3.134	7.3	22.6	157 E	55	54
4 26	13 18.41	+10 43.4	2.192	3.117	8.7	22.7	152 E	56	53
5 1	13 12.67	+11 4.8	2.205	3.099	10.2	22.7	147 E	56	53
	495858 2003 MJ_4								
4 1	13 48.46	− 4 12.9	2.030	3.001	5.4	23.2	163 W	41	68
4 11	13 38.32	− 3 13.0	1.962	2.959	2.4	22.9	173 W	42	67
4 21	13 27.36	− 2 14.0	1.925	2.916	4.1	22.9	168 E	43	66
5 1	13 16.57	− 1 21.7	1.918	2.870	8.0	23.1	157 E	44	65
5 11	13 6.91	− 0 41.3	1.938	2.824	11.9	23.2	145 E	44	65
	401868 2000 VS_{41}								
4 1	13 49.64	−14 55.2	2.005	2.965	6.5	22.6	160 W	30	79
4 11	13 40.26	−14 15.1	1.965	2.961	2.7	22.3	172 W	31	78
4 21	13 30.38	−13 27.4	1.955	2.956	2.2	22.3	174 E	32	77
5 1	13 20.97	−12 37.1	1.974	2.949	6.0	22.5	162 E	32	77
5 11	13 12.91	−11 50.1	2.020	2.942	9.7	22.7	151 E	33	76
	417167 2005 WH_{57}								
4 1	13 49.94	−63 59.3	1.679	2.336	21.9	23.0	119 W	—	52
4 3	13 45.88	−63 57.0	1.665	2.336	21.6	23.0	120 W	—	52
4 5	13 41.68	−63 52.3	1.651	2.336	21.4	23.0	122 W	—	52
4 7	13 37.38	−63 45.2	1.638	2.336	21.1	22.9	123 W	—	52
4 9	13 33.01	−63 35.6	1.625	2.336	20.9	22.9	124 W	—	52
4 11	13 28.59	−63 23.4	1.614	2.336	20.6	22.9	125 W	—	53
4 13	13 24.17	−63 8.6	1.602	2.336	20.4	22.9	126 E	—	53
4 15	13 19.76	−62 51.3	1.591	2.335	20.1	22.9	127 E	—	53
4 17	13 15.41	−62 31.3	1.581	2.335	19.9	22.8	128 E	—	53
4 19	13 11.15	−62 8.7	1.572	2.334	19.7	22.8	129 E	—	54
4 21	13 7.00	−61 43.5	1.564	2.334	19.5	22.8	129 E	—	54
4 23	13 2.99	−61 15.8	1.556	2.333	19.3	22.8	130 E	—	55
4 25	12 59.15	−60 45.7	1.549	2.332	19.1	22.8	131 E	—	55
4 27	12 55.49	−60 13.2	1.542	2.332	19.0	22.7	131 E	—	56
4 29	12 52.05	−59 38.5	1.537	2.331	18.8	22.7	132 E	—	56
5 1	12 48.82	−59 1.8	1.532	2.330	18.8	22.7	132 E	—	57
5 6	12 41.77	−57 21.7	1.524	2.327	18.7	22.7	132 E	—	59
5 11	12 36.24	−55 31.9	1.521	2.324	18.8	22.7	132 E	—	60
5 16	12 32.22	−53 34.8	1.524	2.320	19.1	22.7	131 E	—	62
5 21	12 29.64	−51 33.0	1.532	2.315	19.6	22.7	130 E	—	64

394130 2006 HY_{51}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 1	13 50.18	+ 6 10.6	3.495	4.447	4.4	23.5	160 W	51	58
4 11	13 40.39	+ 7 3.5	3.516	4.487	3.6	23.5	164 W	52	57
4 21	13 30.59	+ 7 47.3	3.571	4.525	4.5	23.6	159 E	53	56
5 1	13 21.33	+ 8 19.5	3.658	4.562	6.2	23.8	151 E	53	56
5 11	13 13.10	+ 8 38.9	3.774	4.598	8.0	24.0	140 E	54	55

523628 2008 RT_{26}

4 1	13 50.55	−12 22.8	2.242	3.205	5.7	24.2	161 W	33	76
4 11	13 40.92	−11 34.2	2.220	3.218	2.0	24.0	174 W	33	76
4 21	13 31.01	−10 41.6	2.229	3.230	1.9	24.0	174 E	34	75
5 1	13 21.67	− 9 49.9	2.269	3.241	5.6	24.3	162 E	35	74
5 11	13 13.64	− 9 3.9	2.337	3.251	9.0	24.5	150 E	36	73

497130 2004 PC_{67}

4 1	13 50.74	−49 44.5	2.839	3.590	11.8	23.0	133 W	—	66
4 6	13 45.04	−49 54.5	2.799	3.582	11.3	22.9	136 W	—	66
4 11	13 38.99	−49 57.6	2.765	3.574	10.8	22.9	138 W	—	66
4 16	13 32.72	−49 53.6	2.736	3.565	10.4	22.8	140 E	—	66
4 21	13 26.37	−49 42.4	2.713	3.557	10.1	22.8	142 E	—	66
4 26	13 20.11	−49 24.1	2.697	3.548	10.0	22.7	142 E	—	67
5 1	13 14.10	−48 59.3	2.686	3.538	10.0	22.7	142 E	—	67

413123 2001 XS_1

4 1	13 50.97	−26 0.2	2.122	3.046	8.6	23.6	153 W	19	90
4 6	13 45.88	−25 34.8	2.120	3.071	7.0	23.6	158 W	19	90
4 11	13 40.68	−25 5.2	2.125	3.095	5.6	23.5	162 W	20	89
4 16	13 35.48	−24 31.9	2.137	3.119	4.6	23.5	166 E	20	89
4 21	13 30.40	−23 55.6	2.157	3.143	4.3	23.5	167 E	21	88
4 26	13 25.57	−23 17.1	2.184	3.166	4.8	23.6	165 E	22	87
5 1	13 21.09	−22 37.5	2.218	3.189	5.8	23.7	161 E	22	87

53409 1999 LU_7

4 1	13 51.61	−12 24.2	1.850	2.814	6.6	22.8	161 W	33	76
4 11	13 40.66	−10 57.5	1.768	2.767	2.2	22.4	174 W	34	75
4 21	13 28.62	− 9 19.9	1.717	2.717	2.6	22.3	173 E	36	73
5 1	13 16.62	− 7 39.1	1.696	2.665	7.5	22.5	160 E	37	72
5 11	13 5.83	− 6 4.2	1.705	2.610	12.2	22.7	147 E	39	70

481381 2006 OS_5

4 1	13 52.34	−49 0.1	2.558	3.322	12.7	23.7	133 W	—	67
4 6	13 46.64	−49 8.1	2.501	3.297	12.1	23.6	136 W	—	67
4 11	13 40.47	−49 8.6	2.449	3.271	11.6	23.5	139 W	—	67
4 16	13 33.96	−49 1.2	2.403	3.245	11.2	23.5	141 E	—	67
4 21	13 27.27	−48 45.5	2.363	3.219	10.9	23.4	143 E	—	67
4 26	13 20.59	−48 21.6	2.328	3.193	10.8	23.3	143 E	—	68
5 1	13 14.09	−47 49.8	2.301	3.167	10.9	23.3	143 E	—	68

520808 2014 TF_{64}

4 1	13 55.55	−43 4.7	0.999	1.867	20.9	22.5	138 W	2	73
4 6	13 46.35	−41 4.3	0.939	1.844	18.7	22.2	144 W	4	75
4 11	13 36.24	−38 31.8	0.884	1.820	16.2	22.0	150 W	6	77
4 16	13 25.59	−35 24.6	0.837	1.796	13.9	21.8	155 E	10	81
4 21	13 14.84	−31 42.4	0.799	1.771	12.3	21.6	158 E	13	84
4 26	13 4.46	−27 28.5	0.770	1.746	12.2	21.5	158 E	18	89
5 1	12 54.85	−22 50.0	0.752	1.720	14.1	21.5	155 E	22	87
5 6	12 46.34	−17 56.8	0.744	1.694	17.4	21.5	150 E	27	82
5 11	12 39.13	−13 0.7	0.746	1.667	21.5	21.6	143 E	32	77

385202 1999 RJ_{246}

4 1	13 56.69	− 2 51.1	2.892	3.852	4.8	23.2	161 W	42	67
4 11	13 49.38	− 2 0.6	2.862	3.853	2.6	23.1	170 W	43	66
4 21	13 41.69	− 1 13.2	2.863	3.854	2.9	23.1	169 E	44	65
5 1	13 34.23	− 0 32.6	2.894	3.854	5.3	23.3	159 E	44	65
5 11	13 27.55	− 0 1.6	2.954	3.853	7.8	23.4	149 E	45	64

495833 2000 SB_8

4 1	13 59.03	− 7 45.7	2.064	3.025	6.3	23.4	161 W	37	72
4 11	13 49.13	− 7 4.8	1.998	2.994	2.5	23.1	172 W	38	71
4 21	13 38.30	− 6 22.0	1.962	2.962	2.4	23.0	173 E	39	70
5 1	13 27.51	− 5 42.1	1.957	2.929	6.3	23.2	161 E	39	70
5 11	13 17.74	− 5 10.1	1.979	2.894	10.3	23.3	149 E	40	69

402864 2007 RM_{136}

4 1	14 4.71	−13 45.4	1.906	2.855	7.6	22.4	158 W	31	78
4 11	13 55.26	−13 2.7	1.887	2.879	3.5	22.2	170 W	32	77
4 21	13 45.27	−12 14.4	1.898	2.902	0.9	22.0	177 E	33	76
5 1	13 35.75	−11 25.8	1.938	2.924	5.0	22.4	165 E	34	75
5 11	13 27.59	−10 42.1	2.006	2.945	8.7	22.7	154 E	34	75

483856 2005 YV_{55}

4 1	14 6.45	− 1 47.2	1.201	2.163	9.6	22.9	159 W	43	66
4 6	14 0.47	− 1 5.3	1.205	2.184	7.2	22.8	164 W	44	65
4 11	13 54.23	− 0 25.6	1.214	2.205	5.4	22.8	168 W	45	64
4 16	13 47.94	+ 0 10.8	1.231	2.225	4.8	22.8	169 W	45	64
4 21	13 41.78	+ 0 42.8	1.254	2.245	5.8	22.9	167 E	46	63
4 26	13 35.94	+ 1 9.6	1.284	2.264	7.7	23.1	162 E	46	63
5 1	13 30.59	+ 1 30.5	1.320	2.283	9.8	23.2	157 E	47	62
5 6	13 25.84	+ 1 45.4	1.362	2.302	11.9	23.4	152 E	47	62

455591 2004 SV_{26}

4 1	14 9.13	−11 41.3	1.825	2.774	8.0	22.6	157 W	33	76
4 11	13 58.48	−11 5.4	1.820	2.812	3.6	22.4	170 W	34	75
4 21	13 47.37	−10 26.0	1.845	2.849	0.9	22.2	178 E	35	74
5 1	13 36.89	− 9 48.2	1.900	2.885	5.1	22.6	165 E	35	74
5 11	13 27.96	− 9 16.7	1.982	2.920	8.9	22.9	153 E	36	73

523779 2015 AX_{16}

4 1	14 10.11	− 7 29.1	2.700	3.645	5.9	23.3	158 W	38	71
4 11	14 1.95	− 6 27.9	2.676	3.665	3.0	23.2	169 W	39	70
4 21	13 53.31	− 5 27.1	2.683	3.683	1.7	23.1	174 E	40	69
5 1	13 44.86	− 4 30.9	2.721	3.700	4.3	23.3	164 E	40	69
5 11	13 37.24	− 3 43.0	2.789	3.716	7.1	23.5	153 E	41	68

498677 2008 SS_{207}

4 1	14 10.18	−11 17.6	3.019	3.959	5.6	23.2	157 W	34	75
4 11	14 3.19	−10 14.1	2.964	3.952	2.8	23.0	169 W	35	74
4 21	13 55.61	− 9 7.2	2.940	3.944	0.7	22.8	177 E	36	73
5 1	13 48.04	− 8 0.9	2.947	3.935	3.3	23.0	167 E	37	72
5 11	13 41.04	− 6 59.3	2.984	3.924	6.2	23.2	155 E	38	71

153311 2001 MG_1

4 1	14 12.47	+21 40.6	2.781	3.651	8.9	22.8	146 W	67	42
4 6	14 8.41	+22 27.2	2.756	3.634	8.7	22.8	147 W	67	42
4 11	14 4.04	+23 9.9	2.737	3.616	8.8	22.8	147 W	68	41
4 16	13 59.44	+23 48.0	2.725	3.598	9.1	22.8	146 W	69	40
4 21	13 54.71	+24 20.7	2.720	3.580	9.5	22.8	144 E	69	40
4 26	13 49.94	+24 47.6	2.721	3.562	10.2	22.8	141 E	70	39
5 1	13 45.22	+25 8.3	2.729	3.543	10.9	22.8	138 E	70	39
5 6	13 40.65	+25 22.6	2.742	3.524	11.8	22.8	135 E	70	39

380163 2000 QG_{59}

4 1	14 14.15	−17 0.9	2.448	3.376	7.4	22.0	154 W	28	81
4 11	14 6.00	−16 36.6	2.377	3.358	4.2	21.8	166 W	28	81
4 21	13 56.91	−16 3.9	2.336	3.339	1.3	21.5	176 W	29	80
5 1	13 47.64	−15 25.9	2.324	3.319	3.3	21.7	169 E	30	79
5 11	13 39.01	−14 46.6	2.342	3.298	6.7	21.8	157 E	30	79
5 21	13 31.70	−14 10.3	2.388	3.276	9.9	22.0	146 E	31	78

30854 1991 VB

4 1	14 15.37	−20 30.4	2.238	3.157	8.5	22.1	152 W	24	85
4 11	14 6.44	−19 46.2	2.183	3.158	5.1	21.9	164 W	25	84
4 21	13 56.60	−18 49.8	2.157	3.157	2.2	21.7	173 W	26	83
5 1	13 46.76	−17 45.3	2.162	3.155	3.7	21.8	168 E	27	82
5 11	13 37.83	−16 38.5	2.195	3.152	7.1	22.0	157 E	28	81
5 21	13 30.48	−15 35.3	2.256	3.148	10.3	22.2	146 E	29	80

315239 2007 RB_{280}

4 1	14 15.50	−29 20.7	1.943	2.832	11.1	21.7	147 W	16	87
4 6	14 11.13	−29 12.9	1.903	2.825	9.6	21.6	152 W	16	87
4 11	14 6.32	−28 59.5	1.869	2.817	8.2	21.5	156 W	16	87
4 16	14 1.17	−28 40.5	1.842	2.808	6.8	21.4	161 W	16	87
4 21	13 55.81	−28 16.0	1.822	2.800	5.8	21.3	164 W	17	88
4 26	13 50.39	−27 46.5	1.808	2.791	5.5	21.3	165 E	17	88
5 1	13 45.07	−27 12.6	1.802	2.782	5.9	21.3	163 E	18	89
5 6	13 40.00	−26 35.3	1.802	2.773	7.0	21.3	160 E	18	89
5 11	13 35.30	−25 55.5	1.809	2.764	8.5	21.4	156 E	19	90
5 16	13 31.07	−25 14.3	1.823	2.754	10.1	21.5	151 E	20	89
5 21	13 27.41	−24 32.8	1.843	2.744	11.8	21.5	146 E	20	89

52760 1998 ML_{14}

4 1	14 16.26	−16 27.8	2.254	3.182	7.9	22.3	154 W	29	80
4 11	14 6.90	−15 48.1	2.155	3.136	4.4	22.0	166 W	29	80
4 21	13 56.18	−14 57.6	2.085	3.089	1.0	21.7	177 W	30	79
5 1	13 44.98	−13 59.7	2.047	3.040	3.9	21.8	168 E	31	78
5 11	13 34.29	−13 0.0	2.039	2.990	7.9	22.0	156 E	32	77
5 21	13 24.99	−12 3.9	2.059	2.938	11.7	22.1	144 E	33	76

362352 2010 MW_{87}

4 1	14 17.18	− 6 39.0	1.448	2.397	9.7	21.2	156 W	38	71
4 11	14 8.71	− 5 47.2	1.374	2.362	5.3	20.9	167 W	39	70
4 21	13 58.47	− 4 53.1	1.325	2.326	3.0	20.7	173 W	40	69
5 1	13 47.64	− 4 4.1	1.303	2.290	6.9	20.8	164 E	41	68

362352 2010 MW_{87} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 11	13 37.60	− 3 27.4	1.307	2.253	11.9	21.0	153 E	42	67
5 21	13 29.50	− 3 8.3	1.333	2.215	16.6	21.1	141 E	42	67
5 31	13 24.20	− 3 9.8	1.377	2.178	20.7	21.3	131 E	42	67
6 10	13 22.08	− 3 32.1	1.434	2.140	24.0	21.5	121 E	41*	68

203272 2001 RL_6

4 1	14 17.86	−19 6.1	1.910	2.834	9.4	21.4	152 W	26	83
4 11	14 8.59	−18 41.0	1.856	2.833	5.6	21.2	164 W	26	83
4 21	13 58.19	−18 3.7	1.831	2.832	2.2	20.9	174 W	27	82
5 1	13 47.70	−17 18.2	1.834	2.830	4.0	21.0	169 E	28	81
5 11	13 38.20	−16 30.1	1.866	2.826	7.9	21.3	158 E	28	81
5 21	13 30.49	−15 45.1	1.924	2.822	11.5	21.5	146 E	29	80

514561 2017 XE_3

4 1	14 18.08	−37 3.9	2.436	3.271	11.1	21.5	141 W	8	79
4 6	14 13.81	−37 7.5	2.386	3.257	10.1	21.4	145 W	8	79
4 11	14 9.10	−37 5.5	2.341	3.242	9.2	21.3	149 W	8	79
4 16	14 4.04	−36 57.8	2.303	3.227	8.3	21.2	152 W	8	79
4 21	13 58.73	−36 44.1	2.272	3.211	7.6	21.2	155 W	8	79
4 26	13 53.32	−36 24.6	2.247	3.196	7.2	21.1	157 E	9	80
5 1	13 47.95	−35 59.6	2.229	3.180	7.2	21.1	157 E	9	80
5 6	13 42.74	−35 29.6	2.218	3.164	7.6	21.1	155 E	10	81
5 11	13 37.82	−34 55.4	2.214	3.147	8.4	21.1	153 E	10	81
5 16	13 33.30	−34 17.7	2.217	3.131	9.4	21.1	150 E	11	82
5 21	13 29.27	−33 37.6	2.225	3.114	10.6	21.2	146 E	11	82
5 26	13 25.81	−32 56.0	2.240	3.097	11.8	21.2	141 E	12	83
5 31	13 22.98	−32 14.0	2.260	3.080	13.0	21.3	137 E	13	84
6 5	13 20.80	−31 32.4	2.286	3.063	14.2	21.3	132 E	13	84
6 10	13 19.30	−30 52.1	2.315	3.045	15.3	21.4	128 E	14*	85
6 15	13 18.46	−30 13.7	2.349	3.027	16.3	21.4	123 E	14*	86
6 20	13 18.29	−29 37.8	2.386	3.009	17.2	21.5	119 E	14*	86

297695 2001 VK_{34}

4 1	14 19.04	−10 45.4	1.971	2.908	8.3	21.8	155 W	34	75
4 11	14 10.28	−10 0.2	1.914	2.899	4.4	21.5	167 W	35	74
4 21	14 0.39	− 9 10.7	1.885	2.889	1.0	21.2	177 W	36	73
5 1	13 50.33	− 8 21.8	1.886	2.878	4.4	21.5	167 E	37	72
5 11	13 41.08	− 7 38.7	1.915	2.865	8.4	21.7	156 E	37	72
5 21	13 33.44	− 7 5.9	1.970	2.852	12.0	21.9	144 E	38	71

313085 2000 TB_{45}

4 1	14 19.54	− 8 43.0	1.980	2.918	8.2	22.2	155 W	36	73
4 11	14 10.93	− 8 2.0	1.925	2.910	4.4	21.9	167 W	37	72
4 21	14 1.20	− 7 18.9	1.899	2.901	1.6	21.7	175 W	38	71
5 1	13 51.30	− 6 38.4	1.902	2.892	4.6	21.9	167 E	38	71
5 11	13 42.21	− 6 5.4	1.933	2.881	8.5	22.1	155 E	39	70
5 21	13 34.69	− 5 43.4	1.990	2.869	12.1	22.3	144 E	39	70

241676 2000 QW_{158}

4 1	14 20.26	−12 19.7	2.056	2.990	8.3	21.3	155 W	33	76
4 11	14 12.17	−11 17.5	1.996	2.979	4.5	21.1	166 W	34	75
4 21	14 2.98	−10 9.0	1.964	2.968	0.8	20.8	178 W	35	74
5 1	13 53.60	− 8 59.8	1.961	2.956	3.9	21.0	169 E	36	73
5 11	13 44.94	− 7 55.9	1.988	2.942	7.8	21.2	157 E	37	72
5 21	13 37.76	− 7 2.4	2.041	2.928	11.4	21.4	145 E	38	71

464815 2004 RV_{257}

4 1	14 24.24	− 9 4.8	1.932	2.865	8.7	21.8	154 W	36	73
4 11	14 16.35	− 7 50.1	1.878	2.859	5.0	21.6	166 W	37	72
4 21	14 7.30	− 6 32.2	1.852	2.853	2.1	21.4	174 W	38	71
5 1	13 58.00	− 5 17.4	1.855	2.846	4.6	21.5	167 E	40	69
5 11	13 49.44	− 4 12.3	1.887	2.837	8.5	21.7	156 E	41	68
5 21	13 42.37	− 3 21.6	1.944	2.828	12.1	21.9	144 E	42	67

370785 2004 SS_{55}

4 1	14 25.84	− 0 26.1	2.644	3.568	7.1	21.6	154 W	45	64
4 6	14 22.45	+ 0 20.1	2.631	3.581	5.9	21.5	158 W	45	64
4 11	14 18.83	+ 1 5.5	2.626	3.593	4.9	21.5	162 W	46	63
4 16	14 15.03	+ 1 49.5	2.628	3.606	4.2	21.5	165 W	47	62
4 21	14 11.14	+ 2 31.3	2.637	3.618	4.1	21.5	165 W	48	61
4 26	14 7.24	+ 3 10.3	2.655	3.630	4.6	21.5	163 E	48	61
5 1	14 3.43	+ 3 46.0	2.680	3.642	5.5	21.6	160 E	49	60
5 6	13 59.77	+ 4 18.0	2.712	3.653	6.6	21.7	155 E	49	60
5 11	13 56.32	+ 4 46.0	2.751	3.664	7.8	21.8	151 E	50	59
5 16	13 53.16	+ 5 9.7	2.796	3.675	8.9	21.9	146 E	50	59
5 21	13 50.33	+ 5 29.2	2.848	3.686	10.0	22.0	141 E	50	59

189058 2000 UT_{16}

4 1	14 26.32	−41 2.4	2.185	2.991	13.3	21.3	137 W	4	75
4 6	14 21.92	−40 55.8	2.124	2.969	12.2	21.2	141 W	4	75
4 11	14 16.94	−40 41.9	2.068	2.946	11.2	21.1	145 W	4	75
4 16	14 11.49	−40 20.1	2.018	2.923	10.2	21.0	149 W	5	76

189058 2000 UT_{16} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	14 5.69	−39 50.2	1.974	2.900	9.4	20.9	152 W	5	76
4 26	13 59.69	−39 12.0	1.937	2.876	8.8	20.8	154 E	6	77
5 1	13 53.68	−38 25.8	1.907	2.852	8.6	20.8	155 E	7	78
5 6	13 47.82	−37 32.3	1.883	2.828	8.8	20.7	155 E	7	78
5 11	13 42.27	−36 32.3	1.866	2.803	9.5	20.7	153 E	8	79
5 16	13 37.16	−35 27.0	1.857	2.778	10.5	20.7	150 E	10	81
5 21	13 32.63	−34 17.8	1.853	2.753	11.8	20.8	146 E	11	82
5 26	13 28.76	−33 6.0	1.856	2.727	13.2	20.8	142 E	12	83
5 31	13 25.63	−31 53.4	1.865	2.701	14.7	20.8	138 E	13	84
6 5	13 23.27	−30 41.2	1.880	2.675	16.1	20.9	133 E	14	85
6 10	13 21.69	−29 30.7	1.899	2.649	17.5	20.9	128 E	15*	86
6 15	13 20.90	−28 22.9	1.922	2.622	18.9	21.0	123 E	16*	88
6 20	13 20.87	−27 18.5	1.949	2.595	20.1	21.0	119 E	16*	89
6 25	13 21.59	−26 18.4	1.979	2.568	21.2	21.1	114 E	16*	90
6 30	13 23.03	−25 22.9	2.011	2.540	22.1	21.1	110 E	16*	89
7 5	13 25.14	−24 32.3	2.046	2.512	23.0	21.1	105 E	16*	89
7 10	13 27.89	−23 46.5	2.081	2.484	23.7	21.2	101 E	15*	88
7 15	13 31.23	−23 5.7	2.118	2.455	24.3	21.2	97 E	15*	87
7 20	13 35.14	−22 29.6	2.155	2.427	24.7	21.2	93 E	14*	86*
7 25	13 39.59	−21 58.1	2.192	2.398	25.1	21.3	89 E	14*	83*
7 30	13 44.54	−21 31.0	2.229	2.368	25.3	21.3	85 E	13*	79*
8 4	13 49.97	−21 8.0	2.265	2.339	25.4	21.3	81 E	12*	75*
8 9	13 55.84	−20 48.6	2.300	2.309	25.4	21.3	78 E	12*	72*
8 14	14 2.14	−20 32.6	2.334	2.279	25.3	21.3	74 E	12*	68*
8 19	14 8.85	−20 19.7	2.366	2.249	25.2	21.3	71 E	11*	65*
8 24	14 15.96	−20 9.5	2.397	2.218	24.9	21.3	68 E	11*	62*
8 29	14 23.45	−20 1.6	2.425	2.187	24.6	21.3	64 E	11*	58*
9 3	14 31.30	−19 55.7	2.452	2.156	24.2	21.2	61 E	10*	55*
9 8	14 39.50	−19 51.4	2.476	2.125	23.8	21.2	58 E	10*	52*
9 13	14 48.06	−19 48.4	2.497	2.094	23.3	21.2	55 E	10*	49*
9 18	14 56.96	−19 46.3	2.517	2.062	22.7	21.2	52 E	10*	46*
9 23	15 6.20	−19 44.8	2.533	2.031	22.1	21.1	50 E	10*	44*
9 28	15 15.77	−19 43.5	2.547	1.999	21.4	21.1	47 E	10*	41*
10 3	15 25.67	−19 42.0	2.558	1.967	20.7	21.0	44 E	10*	38*
10 8	15 35.90	−19 40.0	2.567	1.935	20.0	21.0	41 E	10*	35*
10 13	15 46.45	−19 37.2	2.573	1.903	19.2	20.9	39 E	10*	33*
10 18	15 57.34	−19 33.1	2.576	1.871	18.5	20.9	36 E	10*	30*
10 23	16 8.55	−19 27.5	2.576	1.839	17.7	20.8	34 E	10*	28*
10 28	16 20.07	−19 19.9	2.574	1.807	16.8	20.7	32 E	10*	25*
11 2	16 31.92	−19 9.9	2.569	1.776	16.0	20.7	30 E	10*	22*
11 7	16 44.08	−18 57.2	2.562	1.744	15.2	20.6	27 E	10*	20*
11 12	16 56.56	−18 41.5	2.553	1.713	14.4	20.5	25 E	10*	17*
11 17	17 9.35	−18 22.3	2.541	1.682	13.6	20.4	24 E	10*	15*
11 27	17 35.85	−17 32.2	2.511	1.620	12.1	20.3	20 E	10*	10*
12 7	18 3.52	−16 24.2	2.474	1.561	10.8	20.1	17 E	9*	5*
12 17	18 32.32	−14 55.8	2.433	1.505	9.8	20.0	15 E	9*	1*
12 27	19 2.17	−13 5.0	2.388	1.451	9.3	19.8	14 E	8*	—
1 6	19 33.00	−10 51.0	2.342	1.403	9.2	19.7	13 E	7*	—
1 16	20 4.75	− 8 13.5	2.298	1.359	9.5	19.6	13 E	6*	—

284763 2008 WL_{68}

4 1	14 26.50	−14 13.9	1.733	2.660	10.0	22.1	153 W	31	78
4 11	14 18.10	−13 25.9	1.667	2.647	5.8	21.8	165 W	32	77
4 21	14 8.21	−12 28.6	1.628	2.632	1.2	21.4	177 W	33	76
5 1	13 57.87	−11 27.5	1.618	2.617	3.6	21.6	171 E	34	75
5 11	13 48.24	−10 29.2	1.635	2.601	8.2	21.8	158 E	35	74
5 21	13 40.29	− 9 39.8	1.678	2.584	12.5	22.0	147 E	35	74

417999 2007 TG_{400}

4 1	14 27.94	− 1 16.6	1.520	2.455	10.5	21.2	153 W	44	65
4 6	14 24.22	− 0 40.4	1.480	2.438	8.7	21.1	158 W	44	65
4 11	14 19.93	− 0 4.0	1.446	2.421	7.1	20.9	163 W	45	64
4 16	14 15.16	+ 0 31.6	1.418	2.404	5.9	20.8	166 W	46	63
4 21	14 10.04	+ 1 5.5	1.397	2.386	5.6	20.8	167 W	46	63
4 26	14 4.72	+ 1 36.3	1.383	2.369	6.4	20.8	165 E	47	62
5 1	13 59.36	+ 2 3.2	1.376	2.351	8.1	20.8	161 E	47	62
5 6	13 54.13	+ 2 25.2	1.375	2.333	10.1	20.9	156 E	47	62
5 11	13 49.18	+ 2 41.8	1.379	2.315	12.2	21.0	151 E	48	61
5 16	13 44.65	+ 2 52.4	1.390	2.297	14.4	21.0	146 E	48	61
5 21	13 40.66	+ 2 56.7	1.405	2.278	16.5	21.1	140 E	48	61
5 26	13 37.30	+ 2 54.8	1.425	2.260	18.4	21.2	135 E	48	61
5 31	13 34.66	+ 2 46.7	1.449	2.241	20.3	21.3	130 E	48	61
6 5	13 32.78	+ 2 32.8	1.477	2.222	21.9	21.3	125 E	48	61
6 10	13 31.66	+ 2 13.3	1.507	2.203	23.4	21.4	120 E	47*	62
6 15	13 31.32	+ 1 48.7	1.540	2.183	24.7	21.5	116 E	46*	62

16064 Davidharvey

4 1	14 28.05	−20 17.7	2.149	3.054	9.5	21.4	150 W	25	84
4 11	14 18.33	−19 43.7	2.142	3.109	5.8	21.3	162 W	25	84
4 21	14 7.95	−18 59.4	2.164	3.163	2.4	21.1	172 W	26	83
5 1	13 57.84	−18 9.0	2.217	3.215	2.8	21.3	171 E	27	82

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
16064 Davidharvey *(continuation)*									
5 11	13 48.87	−17 17.8	2.299	3.267	6.0	21.6	160 E	28	81
5 21	13 41.62	−16 30.6	2.408	3.317	9.1	21.8	149 E	28	81
163732 2003 KP_2									
4 1	14 28.83	+ 4 25.1	3.600	4.506	6.0	21.9	152 W	49	60
4 11	14 22.00	+ 5 49.9	3.539	4.488	4.6	21.8	159 W	51	58
4 21	14 14.45	+ 7 9.6	3.509	4.469	4.3	21.8	160 W	52	57
5 1	14 6.65	+ 8 20.3	3.511	4.449	5.4	21.8	156 E	53	56
5 11	13 59.09	+ 9 18.7	3.544	4.428	7.1	21.9	147 E	54	55
5 21	13 52.24	+10 2.9	3.603	4.406	8.9	22.0	138 E	55	54
154020 2002 CA_{10}									
4 1	14 30.90	+ 3 47.5	1.371	2.300	11.9	22.3	152 W	49	60
4 6	14 25.03	+ 4 54.7	1.334	2.284	10.3	22.2	156 W	50	59
4 11	14 18.41	+ 6 1.8	1.303	2.268	9.0	22.1	159 W	51	58
4 16	14 11.17	+ 7 7.1	1.279	2.251	8.4	22.0	161 W	52	57
4 21	14 3.48	+ 8 8.7	1.263	2.233	8.9	22.0	160 W	53	56
4 26	13 55.55	+ 9 4.7	1.253	2.215	10.3	22.0	157 E	54	55
5 1	13 47.61	+ 9 53.5	1.251	2.195	12.2	22.0	153 E	55	54
5 6	13 39.89	+10 34.1	1.255	2.175	14.4	22.1	147 E	56	53
5 11	13 32.59	+11 5.6	1.266	2.154	16.8	22.2	142 E	56	53
5 16	13 25.89	+11 27.7	1.282	2.131	19.1	22.3	136 E	56	53
5 21	13 19.93	+11 40.6	1.302	2.109	21.3	22.3	131 E	57	52
494703 2004 XN_{62}									
4 1	14 31.34	+19 29.5	2.133	2.999	11.3	21.7	144 W	64	45
4 6	14 27.16	+20 7.1	2.111	2.993	10.8	21.7	146 W	65	44
4 11	14 22.58	+20 40.0	2.095	2.986	10.5	21.6	147 W	66	43
4 16	14 17.68	+21 7.4	2.086	2.980	10.5	21.6	147 W	66	43
4 21	14 12.58	+21 28.5	2.083	2.973	10.8	21.6	146 W	66	43
4 26	14 7.39	+21 42.5	2.086	2.965	11.3	21.7	145 E	67	42
5 1	14 2.25	+21 49.3	2.096	2.958	12.0	21.7	142 E	67	42
5 6	13 57.28	+21 48.5	2.111	2.950	12.9	21.7	139 E	67	42
5 11	13 52.59	+21 40.5	2.131	2.942	13.8	21.8	136 E	67	42
5 16	13 48.26	+21 25.3	2.157	2.934	14.8	21.8	132 E	66	43
5 21	13 44.37	+21 3.5	2.188	2.925	15.8	21.9	128 E	66	43
368818 2006 BK_{12}									
4 1	14 31.78	−23 12.1	2.772	3.655	8.4	21.9	148 W	22	87
4 11	14 24.26	−22 41.7	2.717	3.669	5.7	21.7	159 W	22	87
4 21	14 15.84	−22 0.2	2.690	3.681	3.0	21.6	169 W	23	86
5 1	14 7.20	−21 10.2	2.693	3.692	2.4	21.6	171 E	24	85
5 11	13 59.07	−20 15.7	2.727	3.703	4.7	21.7	163 E	25	84
5 21	13 52.04	−19 21.0	2.789	3.713	7.4	21.9	152 E	26	83
405471 2004 VQ_{36}									
4 1	14 32.40	−13 36.7	1.654	2.576	10.7	21.8	151 W	31	78
4 11	14 24.13	−13 5.6	1.577	2.553	6.5	21.5	163 W	32	77
4 21	14 14.02	−12 25.9	1.526	2.529	1.8	21.2	175 W	33	76
5 1	14 3.12	−11 42.0	1.502	2.504	3.3	21.2	172 E	33	76
5 11	13 52.69	−11 0.0	1.507	2.478	8.2	21.4	160 E	34	75
5 21	13 43.84	−10 25.5	1.536	2.452	12.7	21.6	148 E	35	74
396661 2002 OS_{33}									
4 1	14 32.97	−12 28.6	0.932	1.872	14.8	21.2	151 W	33	76
4 11	14 27.90	−11 19.2	0.861	1.842	9.3	20.8	163 W	34	75
4 21	14 20.03	− 9 54.1	0.811	1.813	3.5	20.4	174 W	35	74
5 1	14 10.69	− 8 23.3	0.783	1.785	4.9	20.3	171 E	37	72
5 6	14 6.03	− 7 39.9	0.776	1.771	8.2	20.5	166 E	37	72
5 11	14 1.69	− 7 0.0	0.775	1.758	11.5	20.6	160 E	38	71
5 16	13 57.87	− 6 25.1	0.779	1.745	14.8	20.7	154 E	39	70
5 21	13 54.75	− 5 56.4	0.787	1.732	17.9	20.8	148 E	39	70
5 26	13 52.48	− 5 34.8	0.799	1.719	20.9	20.9	143 E	39	70
5 31	13 51.16	− 5 20.8	0.815	1.707	23.6	21.0	138 E	40	69
6 5	13 50.84	− 5 14.6	0.833	1.695	26.0	21.1	133 E	40	69
6 10	13 51.54	− 5 16.0	0.854	1.684	28.3	21.2	128 E	40	69
6 15	13 53.23	− 5 24.6	0.878	1.673	30.2	21.3	124 E	40*	69
6 20	13 55.90	− 5 40.0	0.903	1.662	32.0	21.4	120 E	39*	70
495552 2014 WS_{200}									
4 1	14 33.39	−20 17.9	1.778	2.682	11.2	21.3	149 W	25	84
4 11	14 24.48	−20 22.0	1.694	2.658	7.4	21.0	160 W	25	84
4 21	14 13.64	−20 12.9	1.636	2.633	3.6	20.7	171 W	25	84
5 1	14 1.91	−19 52.0	1.607	2.607	3.4	20.6	171 E	25	84
5 11	13 50.58	−19 23.2	1.605	2.580	7.5	20.8	161 E	26	83
5 21	13 40.82	−18 52.1	1.630	2.552	11.7	21.0	149 E	26	83
5 31	13 33.51	−18 24.8	1.677	2.524	15.6	21.2	138 E	27	82
6 10	13 29.13	−18 6.4	1.742	2.494	18.8	21.4	128 E	27*	82

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
424003 2006 WD_3									
4 1	14 33.81	−37 4.3	2.160	2.983	12.8	21.3	139 W	8	79
4 6	14 29.80	−36 58.4	2.107	2.970	11.6	21.2	143 W	8	79
4 11	14 25.25	−36 46.1	2.061	2.957	10.4	21.1	148 W	8	79
4 16	14 20.24	−36 27.1	2.020	2.943	9.2	21.0	152 W	9	80
4 21	14 14.91	−36 1.2	1.985	2.929	8.2	20.9	155 W	9	80
4 26	14 9.39	−35 28.5	1.958	2.915	7.4	20.8	158 E	10	81
5 1	14 3.84	−34 49.4	1.937	2.901	7.1	20.8	159 E	10	81
5 6	13 58.42	−34 4.5	1.923	2.886	7.3	20.8	159 E	11	82
5 11	13 53.26	−33 14.8	1.916	2.871	8.0	20.8	157 E	12	83
5 16	13 48.50	−32 21.2	1.916	2.856	9.2	20.8	153 E	13	84
5 21	13 44.24	−31 24.9	1.923	2.840	10.5	20.9	149 E	14	85
5 26	13 40.58	−30 27.2	1.936	2.825	11.9	20.9	145 E	15	86
5 31	13 37.58	−29 29.4	1.954	2.809	13.4	21.0	140 E	16	87
6 5	13 35.28	−28 32.6	1.978	2.792	14.8	21.0	135 E	16	87
6 10	13 33.70	−27 37.8	2.007	2.776	16.1	21.1	131 E	17*	88
6 15	13 32.84	−26 45.8	2.040	2.759	17.4	21.2	126 E	18*	89
6 20	13 32.68	−25 57.1	2.077	2.742	18.5	21.2	121 E	18*	90
6 25	13 33.21	−25 12.3	2.117	2.725	19.5	21.3	116 E	18*	89
6 30	13 34.40	−24 31.8	2.159	2.708	20.4	21.3	112 E	18*	89
7 5	13 36.23	−23 55.5	2.204	2.690	21.1	21.4	107 E	17*	88
7 10	13 38.64	−23 23.6	2.250	2.672	21.7	21.4	103 E	17*	87
7 15	13 41.61	−22 56.0	2.297	2.654	22.2	21.5	99 E	16*	87
510262 2011 HJ_{61}									
4 1	14 34.02	−21 11.6	1.099	2.018	15.2	21.9	148 W	24	85
4 6	14 27.53	−19 53.8	1.077	2.028	12.1	21.7	155 W	25	84
4 11	14 20.39	−18 28.0	1.062	2.038	8.8	21.6	162 W	27	82
4 16	14 12.82	−16 55.6	1.053	2.047	5.4	21.4	169 W	28	81
4 21	14 5.08	−15 18.9	1.052	2.056	2.0	21.2	176 W	30	79
4 26	13 57.44	−13 40.4	1.059	2.064	2.0	21.2	176 E	31	78
5 1	13 50.15	−12 2.9	1.073	2.071	5.3	21.5	169 E	33	76
5 6	13 43.44	−10 29.1	1.094	2.077	8.6	21.7	162 E	35	74
5 11	13 37.46	− 9 1.2	1.122	2.083	11.7	21.9	155 E	36	73
5 16	13 32.34	− 7 40.8	1.156	2.088	14.5	22.0	149 E	37	72
5 21	13 28.14	− 6 29.1	1.196	2.092	17.1	22.2	143 E	39	70
495861 2003 UR_{65}									
4 1	14 34.76	− 4 35.4	1.734	2.657	10.2	22.0	152 W	40	69
4 11	14 27.16	− 3 32.9	1.657	2.630	6.6	21.7	162 W	41	68
4 21	14 17.83	− 2 30.1	1.607	2.601	4.2	21.5	169 W	42	67
5 1	14 7.71	− 1 34.0	1.585	2.572	5.8	21.5	165 E	43	66
5 11	13 57.92	− 0 50.9	1.590	2.542	9.7	21.7	155 E	44	65
5 21	13 49.49	− 0 25.5	1.619	2.511	13.7	21.8	144 E	45	64
483453 2002 AN_{11}									
4 1	14 35.07	−44 3.7	1.629	2.426	17.4	22.1	133 W	1	72
4 6	14 29.41	−44 8.1	1.592	2.426	16.2	22.0	138 W	1	72
4 11	14 22.99	−44 3.1	1.560	2.427	14.9	21.9	142 W	1	72
4 16	14 15.96	−43 47.8	1.533	2.426	13.6	21.8	145 W	1	72
4 21	14 8.55	−43 21.8	1.512	2.425	12.6	21.8	148 W	2	73
4 26	14 1.00	−42 45.1	1.497	2.424	11.8	21.7	151 E	2	73
5 1	13 53.59	−41 58.4	1.488	2.423	11.4	21.7	152 E	3	74
5 6	13 46.56	−41 2.7	1.485	2.421	11.4	21.7	152 E	4	75
5 11	13 40.11	−39 59.5	1.489	2.418	12.0	21.7	150 E	5	76
5 16	13 34.41	−38 50.7	1.499	2.415	12.9	21.8	148 E	6	77
5 21	13 29.57	−37 38.2	1.515	2.412	14.1	21.8	145 E	7	78
267720 2003 CA									
4 1	14 36.83	+23 43.1	1.199	2.068	18.0	21.7	140 W	69	40
4 6	14 29.27	+25 31.6	1.162	2.042	17.8	21.6	141 W	71	38
4 11	14 20.49	+27 15.0	1.132	2.015	18.1	21.5	141 W	72	37
4 16	14 10.60	+28 49.7	1.109	1.987	18.9	21.5	140 W	74	35
4 21	13 59.82	+30 12.4	1.092	1.957	20.1	21.5	138 W	75	34
4 26	13 48.44	+31 20.2	1.081	1.926	21.8	21.4	135 E	76	33
5 1	13 36.83	+32 11.0	1.075	1.894	23.7	21.5	131 E	77	32
5 6	13 25.35	+32 43.9	1.075	1.861	25.8	21.5	126 E	78	31
5 11	13 14.35	+32 59.1	1.079	1.826	28.0	21.5	122 E	78	31
5 16	13 4.15	+32 57.2	1.086	1.790	30.2	21.5	117 E	78	31
5 21	12 54.97	+32 39.8	1.096	1.752	32.3	21.6	112 E	78	31
520585 2014 OA_2									
4 1	14 40.27	+ 0 41.8	0.630	1.576	18.5	22.2	150 W	46	63
4 6	14 38.08	+ 1 44.5	0.595	1.558	16.2	22.0	154 W	47	62
4 11	14 34.73	+ 2 49.9	0.564	1.539	14.1	21.8	158 W	48	61
4 16	14 30.28	+ 3 55.8	0.537	1.521	12.6	21.6	161 W	49	60
4 21	14 24.84	+ 4 59.6	0.514	1.502	12.1	21.5	162 W	50	59
4 26	14 18.63	+ 5 58.2	0.496	1.483	13.1	21.4	161 W	51	58
5 1	14 11.95	+ 6 48.5	0.482	1.464	15.3	21.4	157 E	52	57
5 6	14 5.14	+ 7 27.5	0.472	1.446	18.3	21.4	153 E	52	57
5 11	13 58.53	+ 7 53.4	0.465	1.427	21.7	21.5	148 E	53	56
5 16	13 52.45	+ 8 4.7	0.461	1.409	25.3	21.5	143 E	53	56

520585 2014 OA_2 *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 21	13 47.22	+ 8 0.7	0.460	1.390	28.9	21.6	138 E	53	56
5 26	13 43.07	+ 7 41.5	0.462	1.372	32.4	21.7	133 E	53	56

452327 2000 SX_{162}

4 1	14 42.02	−19 46.4	1.741	2.636	11.9	21.9	147 W	25	84
4 11	14 31.84	−19 25.8	1.720	2.680	7.7	21.8	159 W	26	83
4 21	14 20.39	−18 52.7	1.725	2.722	3.4	21.6	171 W	26	83
5 1	14 8.89	−18 11.1	1.759	2.763	2.4	21.6	173 E	27	82
5 11	13 58.48	−17 26.9	1.823	2.802	6.2	21.9	162 E	28	81
5 21	13 50.01	−16 45.6	1.913	2.841	10.0	22.2	151 E	28	81

399630 2004 OH_3

4 1	14 43.29	−28 26.0	1.542	2.414	14.6	21.3	143 W	17	88
4 11	14 35.57	−28 31.0	1.450	2.386	11.0	21.0	153 W	16	87
4 21	14 25.28	−28 12.5	1.381	2.358	7.5	20.7	162 W	17	88
5 1	14 13.57	−27 29.7	1.337	2.329	5.7	20.5	167 E	18	89
5 11	14 1.95	−26 26.4	1.319	2.300	8.0	20.6	162 E	19	90
5 21	13 51.91	−25 10.5	1.326	2.270	12.1	20.7	152 E	20	89
5 31	13 44.61	−23 52.4	1.355	2.239	16.4	20.9	141 E	21	88
6 10	13 40.72	−22 41.9	1.402	2.208	20.2	21.1	131 E	22	87
6 20	13 40.37	−21 45.2	1.463	2.176	23.4	21.2	122 E	23*	86
6 30	13 43.44	−21 5.9	1.534	2.144	25.9	21.4	113 E	22*	85
7 10	13 49.63	−20 44.6	1.611	2.112	27.7	21.5	105 E	20*	85

504857 2010 TY_{148}

4 1	14 43.80	−19 57.2	1.816	2.706	11.7	21.9	147 W	25	84
4 11	14 35.99	−19 50.0	1.727	2.682	8.0	21.6	158 W	25	84
4 21	14 26.14	−19 30.0	1.663	2.657	4.0	21.3	169 W	25	84
5 1	14 15.21	−18 58.7	1.627	2.631	2.2	21.1	174 E	26	83
5 11	14 4.39	−18 20.4	1.619	2.605	6.2	21.3	164 E	27	82
5 21	13 54.83	−17 40.6	1.638	2.577	10.5	21.5	152 E	27	82

396675 2002 RH_{176}

4 1	14 43.89	−13 54.9	1.434	2.345	12.8	22.5	149 W	31	78
4 11	14 36.76	−12 54.9	1.350	2.318	8.4	22.2	160 W	32	77
4 21	14 27.28	−11 42.1	1.290	2.290	3.4	21.8	172 W	33	76
5 1	14 16.51	−10 22.9	1.256	2.261	2.8	21.7	174 E	35	74
5 11	14 5.85	− 9 5.9	1.250	2.231	8.2	21.9	162 E	36	73
5 21	13 56.65	− 7 59.7	1.267	2.201	13.5	22.1	150 E	37	72

265032 2003 OU

4 1	14 47.62	− 7 29.1	2.764	3.655	8.2	22.1	149 W	38	71
4 11	14 39.64	− 5 52.7	2.670	3.627	5.5	21.9	160 W	39	70
4 21	14 30.35	− 4 11.6	2.607	3.597	3.2	21.7	169 W	41	68
5 1	14 20.38	− 2 31.6	2.577	3.566	3.6	21.7	167 E	42	67
5 11	14 10.49	− 0 58.5	2.579	3.533	6.3	21.8	157 E	44	65
5 21	14 1.36	+ 0 22.6	2.613	3.498	9.3	21.9	146 E	45	64

441525 2008 SK_{220}

4 1	14 49.40	−14 7.5	3.880	4.751	6.5	22.1	147 W	31	78
4 11	14 44.72	−13 34.7	3.807	4.752	4.5	22.0	158 W	31	78
4 21	14 39.25	−12 58.5	3.762	4.753	2.2	21.8	169 W	32	77
5 1	14 33.38	−12 20.7	3.747	4.754	0.6	21.7	177 E	33	76
5 11	14 27.55	−11 43.8	3.763	4.754	2.6	21.8	168 E	33	76
5 21	14 22.15	−11 9.9	3.808	4.754	4.8	22.0	157 E	34	75

351340 2004 YC_5

4 1	14 52.11	−32 28.8	1.605	2.447	15.6	21.9	139 W	13	84
4 6	14 47.10	−32 48.6	1.538	2.419	14.1	21.8	144 W	12	83
4 11	14 41.07	−33 3.2	1.477	2.391	12.5	21.6	149 W	12	83
4 16	14 34.04	−33 11.2	1.421	2.362	10.9	21.4	153 W	12	83
4 21	14 26.14	−33 11.7	1.372	2.333	9.5	21.3	158 W	12	83
4 26	14 17.52	−33 3.9	1.330	2.303	8.4	21.1	160 W	12	83
5 1	14 8.41	−32 47.2	1.294	2.272	8.1	21.0	161 E	12	83
5 6	13 59.07	−32 21.6	1.266	2.241	8.8	21.0	160 E	13	84
5 11	13 49.78	−31 47.8	1.244	2.208	10.4	21.0	157 E	13	84
5 16	13 40.81	−31 6.6	1.229	2.176	12.5	21.0	152 E	14	85
5 21	13 32.43	−30 19.6	1.221	2.142	14.9	21.0	147 E	15	86
5 26	13 24.87	−29 28.6	1.218	2.108	17.4	21.1	142 E	16	87
5 31	13 18.29	−28 35.7	1.221	2.073	19.9	21.1	136 E	16	87
6 5	13 12.81	−27 43.0	1.228	2.037	22.3	21.2	130 E	17*	88
6 10	13 8.47	−26 51.9	1.239	2.001	24.6	21.2	125 E	18*	89
6 15	13 5.30	−26 4.0	1.253	1.964	26.7	21.3	120 E	18*	90
6 20	13 3.29	−25 20.3	1.269	1.926	28.7	21.3	114 E	17*	89
6 25	13 2.41	−24 41.7	1.286	1.887	30.5	21.3	110 E	17*	89
6 30	13 2.61	−24 8.7	1.304	1.848	32.1	21.4	105 E	16*	88
7 5	13 3.83	−23 41.5	1.323	1.807	33.6	21.4	100 E	15*	88
7 10	13 6.02	−23 20.1	1.340	1.766	34.9	21.4	96 E	14*	87
7 15	13 9.12	−23 4.4	1.357	1.725	36.1	21.4	92 E	12*	86*
7 20	13 13.09	−22 54.3	1.373	1.682	37.1	21.4	88 E	11*	82*
7 25	13 17.89	−22 49.4	1.386	1.639	38.1	21.4	85 E	10*	79*

351340 2004 YC_5 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 30	13 23.50	−22 49.5	1.397	1.595	39.0	21.4	81 E	9*	75*
8 4	13 29.87	−22 54.0	1.406	1.550	39.8	21.4	78 E	8*	71*
8 9	13 36.98	−23 2.6	1.412	1.505	40.5	21.3	75 E	8*	68*
8 14	13 44.84	−23 14.7	1.415	1.459	41.3	21.3	72 E	7*	65*
8 19	13 53.45	−23 29.9	1.414	1.412	42.0	21.2	69 E	7*	62*
8 24	14 2.81	−23 47.7	1.410	1.365	42.7	21.2	66 E	6*	59*
8 29	14 12.93	−24 7.4	1.402	1.317	43.5	21.1	64 E	6*	57*
9 3	14 23.82	−24 28.4	1.391	1.269	44.3	21.0	61 E	6*	55*
9 8	14 35.52	−24 49.8	1.375	1.220	45.2	21.0	59 E	6*	52*
9 13	14 48.05	−25 10.9	1.356	1.172	46.2	20.9	57 E	6*	51*
9 18	15 1.46	−25 30.5	1.333	1.123	47.4	20.8	55 E	6*	49*
9 23	15 15.78	−25 47.7	1.305	1.075	48.7	20.7	54 E	6*	47*
9 28	15 31.03	−26 1.1	1.273	1.028	50.3	20.6	52 E	6*	46*
10 3	15 47.24	−26 8.9	1.237	0.981	52.1	20.4	51 E	7*	45*
10 8	16 4.43	−26 9.5	1.197	0.937	54.2	20.3	50 E	8*	43*
10 13	16 22.60	−26 0.7	1.153	0.895	56.7	20.2	49 E	9*	43*
10 18	16 41.72	−25 40.4	1.105	0.856	59.5	20.1	48 E	10*	42*
10 23	17 1.74	−25 6.0	1.054	0.820	62.7	20.0	47 E	11*	41*
10 28	17 22.55	−24 15.0	0.999	0.790	66.3	19.9	47 E	13*	40*
11 2	17 44.03	−23 4.6	0.942	0.766	70.1	19.9	47 E	15*	40*
11 7	18 6.06	−21 32.7	0.884	0.749	74.2	19.8	47 E	17*	39*
11 12	18 28.55	−19 36.9	0.824	0.740	78.3	19.8	47 E	20*	38*
11 17	18 51.47	−17 15.6	0.765	0.739	82.2	19.7	48 E	22*	37*
11 22	19 14.87	−14 27.0	0.708	0.746	85.5	19.7	49 E	26*	36*
11 27	19 38.93	−11 9.6	0.654	0.762	88.0	19.7	50 E	29*	35*
12 2	20 3.96	− 7 22.4	0.604	0.784	89.5	19.6	53 E	34*	34*
12 7	20 30.41	− 3 4.8	0.560	0.813	89.7	19.6	56 E	38*	32*
12 12	20 58.79	+ 1 41.7	0.523	0.847	88.6	19.5	59 E	44*	31*
12 17	21 29.58	+ 6 52.0	0.495	0.885	86.0	19.3	64 E	49*	30*
12 19	21 42.66	+ 9 0.7	0.486	0.902	84.7	19.3	66 E	52*	29*
12 21	21 56.18	+11 10.5	0.479	0.918	83.1	19.2	68 E	54*	29*
12 23	22 10.16	+13 20.3	0.474	0.936	81.4	19.2	70 E	56*	28*
12 25	22 24.57	+15 29.0	0.470	0.953	79.6	19.1	72 E	59*	28*
12 27	22 39.40	+17 35.0	0.469	0.971	77.6	19.1	75 E	61*	28*
12 29	22 54.59	+19 37.0	0.469	0.989	75.6	19.1	77 E	64*	27*
12 31	23 10.11	+21 33.6	0.471	1.008	73.5	19.0	79 E	66*	27*
1 2	23 25.87	+23 23.7	0.475	1.026	71.3	19.0	81 E	68*	27*
1 4	23 41.80	+25 6.2	0.480	1.045	69.2	19.0	84 E	70*	27*
1 6	23 57.82	+26 40.2	0.488	1.064	67.1	19.0	86 E	72*	27*
1 8	0 13.83	+28 5.3	0.497	1.083	65.1	19.1	88 E	73*	26*
1 10	0 29.75	+29 21.1	0.508	1.102	63.1	19.1	89 E	74	26*
1 12	0 45.46	+30 27.7	0.520	1.122	61.2	19.1	91 E	75	26*
1 14	1 0.91	+31 25.4	0.534	1.141	59.4	19.2	93 E	76	26*
1 16	1 16.00	+32 14.4	0.550	1.160	57.7	19.2	94 E	77	26*

449465 2013 LT_{33}

4 1	14 53.20	−19 18.7	1.406	2.296	14.5	21.3	145 W	26	83
4 11	14 47.69	−18 45.5	1.310	2.263	10.4	20.9	156 W	26	83
4 21	14 39.51	−17 55.0	1.237	2.229	5.5	20.5	168 W	27	82
5 1	14 29.57	−16 49.8	1.188	2.195	0.9	20.1	178 E	28	81
5 6	14 24.37	−16 13.6	1.173	2.178	3.2	20.3	173 E	29	80
5 11	14 19.25	−15 36.4	1.164	2.161	6.0	20.4	167 E	29	80
5 16	14 14.41	−14 59.2	1.162	2.144	8.8	20.5	161 E	30	79
5 21	14 10.00	−14 23.3	1.165	2.126	11.6	20.6	155 E	31	78
5 26	14 6.18	−13 49.9	1.174	2.109	14.2	20.7	149 E	31	78
5 31	14 3.08	−13 19.9	1.188	2.092	16.7	20.8	144 E	32	77
6 5	14 0.77	−12 54.1	1.206	2.075	19.1	20.9	138 E	32	77
6 10	13 59.31	−12 33.1	1.228	2.058	21.2	21.0	133 E	32	77
6 15	13 58.71	−12 17.1	1.254	2.041	23.2	21.0	128 E	33*	76
6 20	13 58.99	−12 6.4	1.282	2.024	24.9	21.1	123 E	33*	76
6 25	14 0.14	−12 0.8	1.312	2.007	26.4	21.2	119 E	32*	76
6 30	14 2.14	−12 0.4	1.345	1.991	27.8	21.3	114 E	31*	76
7 5	14 4.94	−12 4.8	1.378	1.974	28.9	21.3	110 E	31*	76
7 10	14 8.51	−12 13.7	1.413	1.958	29.9	21.4	106 E	29*	76
7 15	14 12.80	−12 26.6	1.449	1.941	30.7	21.5	102 E	28*	76

468448 2003 LS_3

4 1	14 53.25	− 4 23.3	1.749	2.646	11.8	21.8	147 W	41	68
4 11	14 47.02	− 2 59.6	1.635	2.589	8.6	21.5	157 W	42	67
4 21	14 38.46	− 1 30.7	1.547	2.532	5.8	21.2	165 W	43	66
5 1	14 28.28	− 0 4.1	1.486	2.473	6.1	21.1	165 E	45	64
5 11	14 17.55	+ 1 11.5	1.452	2.413	9.5	21.2	157 E	46	63
5 21	14 7.44	+ 2 8.4	1.444	2.352	13.9	21.2	146 E	47	62
5 31	13 59.07	+ 2 41.4	1.456	2.290	18.2	21.4	135 E	48	61
6 10	13 53.28	+ 2 48.6	1.486	2.227	22.0	21.5	125 E	48	61

418111 2007 YD_2

4 1	14 54.32	−58 11.4	1.393	2.086	24.4	22.0	120 W	—	58
4 6	14 47.99	−59 11.0	1.362	2.087	23.6	21.9	123 W	—	57
4 11	14 40.02	−59 59.8	1.333	2.087	22.8	21.8	126 W	—	56
4 16	14 30.55	−60 35.8	1.309	2.087	22.1	21.7	129 W	—	55

418111 2007 YD_2 *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	14 19.90	−60 57.3	1.287	2.087	21.4	21.7	131 W	—	55
4 26	14 8.51	−61 2.6	1.270	2.086	20.9	21.6	132 E	—	55
5 1	13 56.95	−60 51.2	1.257	2.085	20.4	21.6	134 E	—	55
5 6	13 45.81	−60 23.5	1.248	2.083	20.2	21.6	134 E	—	56
5 11	13 35.59	−59 40.6	1.244	2.082	20.2	21.6	135 E	—	56
5 16	13 26.70	−58 44.4	1.243	2.080	20.4	21.6	134 E	—	57
5 21	13 19.42	−57 37.2	1.247	2.077	20.7	21.6	133 E	—	58

465892 2010 UT_7

4 1	14 54.74	+20 5.0	1.049	1.920	19.9	22.1	139 W	65	44
4 6	14 47.64	+21 19.9	0.994	1.884	19.2	21.9	142 W	66	43
4 11	14 38.87	+22 32.0	0.943	1.847	18.9	21.8	143 W	68	41
4 16	14 28.42	+23 38.0	0.898	1.809	19.0	21.6	144 W	69	40
4 21	14 16.38	+24 34.0	0.860	1.770	19.9	21.5	143 W	70	39
4 26	14 2.96	+25 15.9	0.827	1.730	21.4	21.4	141 E	70	39
5 1	13 48.50	+25 39.9	0.800	1.688	23.6	21.4	138 E	71	38
5 6	13 33.46	+25 43.4	0.779	1.645	26.4	21.3	134 E	71	38
5 11	13 18.33	+25 24.9	0.763	1.601	29.5	21.3	129 E	70	39
5 16	13 3.61	+24 44.2	0.752	1.556	32.9	21.3	123 E	70	39
5 21	12 49.73	+23 42.6	0.745	1.510	36.5	21.3	118 E	69	40
5 26	12 37.03	+22 22.1	0.741	1.462	40.0	21.4	112 E	67	42
5 31	12 25.72	+20 45.5	0.740	1.412	43.6	21.4	106 E	65*	43
6 5	12 15.85	+18 55.7	0.740	1.362	47.1	21.4	101 E	61*	45
6 10	12 7.37	+16 55.1	0.740	1.310	50.5	21.4	95 E	56*	47
6 15	12 0.17	+14 45.7	0.740	1.256	54.0	21.4	90 E	51*	49
6 20	11 54.09	+12 28.9	0.739	1.202	57.4	21.4	85 E	45*	52
6 25	11 48.91	+10 5.8	0.736	1.146	60.9	21.4	80 E	39*	54*
6 30	11 44.37	+ 7 37.1	0.731	1.088	64.5	21.4	75 E	34*	55*
7 5	11 40.18	+ 5 3.4	0.723	1.030	68.3	21.4	70 E	28*	56*
7 10	11 35.97	+ 2 25.0	0.712	0.971	72.5	21.3	66 E	22*	55*
7 15	11 31.31	− 0 17.3	0.697	0.911	77.2	21.3	61 E	17*	53*
7 20	11 25.69	− 3 2.3	0.679	0.851	82.5	21.3	56 E	11*	50*
7 25	11 18.40	− 5 46.8	0.657	0.791	88.6	21.3	51 E	6*	45*
7 30	11 8.55	− 8 25.0	0.633	0.733	95.7	21.4	46 E	—	40*

413343 2003 XA

4 1	14 54.77	−28 37.0	2.272	3.108	11.8	21.6	140 W	16	87
4 11	14 47.11	−28 34.2	2.187	3.101	9.0	21.4	151 W	16	87
4 21	14 37.66	−28 14.7	2.126	3.094	6.1	21.2	161 W	17	88
5 1	14 27.24	−27 38.9	2.094	3.085	4.1	21.0	167 E	17	88
5 11	14 16.88	−26 49.6	2.090	3.075	5.1	21.1	164 E	18	89
5 21	14 7.54	−25 51.6	2.115	3.064	7.9	21.2	155 E	19	90
5 31	14 0.01	−24 51.3	2.165	3.052	11.0	21.4	145 E	20	89

366431 2001 VB_{99}

4 1	14 57.82	+23 53.9	2.789	3.580	11.1	21.6	136 W	69	40
4 6	14 54.38	+24 30.3	2.775	3.585	10.7	21.6	138 W	70	39
4 11	14 50.57	+25 2.6	2.766	3.591	10.4	21.5	140 W	70	39
4 16	14 46.46	+25 30.1	2.763	3.596	10.2	21.5	141 W	71	38
4 21	14 42.12	+25 52.1	2.767	3.601	10.2	21.5	141 W	71	38
4 26	14 37.65	+26 8.1	2.776	3.605	10.3	21.6	140 W	71	38
5 1	14 33.14	+26 17.8	2.791	3.609	10.6	21.6	139 E	71	38
5 6	14 28.69	+26 21.2	2.812	3.614	11.0	21.6	137 E	71	38
5 11	14 24.37	+26 18.1	2.839	3.618	11.5	21.7	134 E	71	38
5 16	14 20.27	+26 8.9	2.871	3.621	12.1	21.7	132 E	71	38
5 21	14 16.46	+25 53.7	2.908	3.625	12.6	21.8	128 E	71	38
5 26	14 13.00	+25 32.9	2.949	3.628	13.2	21.8	125 E	71	38

306826 2001 RZ_{17}

4 1	15 0.70	−52 31.6	2.803	3.464	13.8	21.5	124 W	—	63
4 6	14 55.74	−52 59.9	2.767	3.472	13.2	21.5	128 W	—	63
4 11	14 50.07	−53 22.4	2.736	3.480	12.5	21.4	131 W	—	63
4 16	14 43.81	−53 38.3	2.711	3.488	11.8	21.4	134 W	—	62
4 21	14 37.07	−53 47.2	2.690	3.495	11.3	21.4	137 W	—	62
4 26	14 30.04	−53 48.7	2.675	3.503	10.7	21.3	140 W	—	62
5 1	14 22.89	−53 42.6	2.666	3.510	10.3	21.3	141 E	—	62
5 6	14 15.81	−53 29.2	2.663	3.517	10.1	21.3	142 E	—	63
5 11	14 8.99	−53 8.9	2.667	3.523	10.0	21.3	143 E	—	63
5 16	14 2.57	−52 42.4	2.676	3.529	10.1	21.3	142 E	—	63
5 21	13 56.70	−52 10.4	2.691	3.536	10.4	21.4	141 E	—	64
5 26	13 51.50	−51 33.9	2.712	3.541	10.8	21.4	139 E	—	64
5 31	13 47.02	−50 54.1	2.739	3.547	11.3	21.4	137 E	—	65
6 5	13 43.33	−50 11.9	2.772	3.552	11.9	21.5	134 E	—	66

282795 2006 PR_{17}

4 1	15 0.96	−18 59.9	2.157	3.017	11.5	21.4	143 W	26	83
4 11	14 54.41	−18 29.4	2.065	3.002	8.2	21.1	155 W	27	82
4 21	14 46.02	−17 48.1	2.000	2.986	4.5	20.9	166 W	27	82
5 1	14 36.52	−16 58.2	1.962	2.970	0.7	20.5	178 W	28	81
5 11	14 26.86	−16 3.9	1.954	2.952	3.7	20.8	169 E	29	80
5 21	14 17.96	−15 10.1	1.975	2.934	7.7	21.0	157 E	30	79

282795 2006 PR_{17} *(continuation)*

5 31	14 10.64	−14 22.1	2.021	2.914	11.3	21.2	146 E	31	78
6 10	14 5.44	−13 44.1	2.089	2.894	14.5	21.3	135 E	31	78
6 20	14 2.61	−13 18.4	2.175	2.873	17.0	21.5	124 E	32*	77

499582 2010 TH_{19}

4 1	15 1.22	−30 56.2	0.577	1.479	26.9	21.4	138 W	14	85
4 6	14 54.28	−30 16.3	0.570	1.501	23.0	21.3	144 W	15	86
4 11	14 46.21	−29 23.3	0.567	1.522	18.9	21.1	151 W	16	87
4 16	14 37.38	−28 17.9	0.568	1.543	14.7	21.0	157 W	17	88
4 21	14 28.22	−27 1.6	0.574	1.563	10.8	20.9	163 W	18	89
4 26	14 19.20	−25 37.1	0.585	1.583	7.7	20.9	168 W	19	90
5 1	14 10.75	−24 8.0	0.601	1.603	6.6	20.9	169 E	21	88
5 6	14 3.22	−22 38.1	0.623	1.622	8.1	21.1	167 E	22	87
5 11	13 56.84	−21 11.0	0.650	1.640	11.0	21.3	162 E	24	85
5 16	13 51.70	−19 49.6	0.681	1.658	14.1	21.6	156 E	25	84
5 21	13 47.88	−18 35.8	0.717	1.675	17.2	21.8	151 E	26	83
5 26	13 45.35	−17 31.1	0.758	1.692	19.9	22.0	145 E	27	82

189973 2003 XE_{11}

4 1	15 7.18	−23 13.0	1.689	2.540	14.5	21.5	140 W	22	87
4 11	14 58.65	−21 30.3	1.608	2.540	10.5	21.2	153 W	23	86
4 21	14 47.80	−19 24.5	1.553	2.538	5.7	20.9	165 W	26	83
5 1	14 35.72	−17 1.6	1.528	2.535	0.8	20.6	178 W	28	81
5 11	14 23.79	−14 32.3	1.534	2.530	4.8	20.9	168 E	30	79
5 21	14 13.22	−12 8.6	1.570	2.524	9.7	21.1	155 E	33	76
5 31	14 4.97	−10 1.4	1.632	2.515	14.1	21.4	143 E	35	74

344133 2000 AD_6

4 1	15 9.57	+35 18.7	1.411	2.167	21.5	21.9	127 W	80	29
4 6	15 4.08	+36 3.7	1.424	2.192	20.9	21.9	129 W	81	28
4 11	14 57.93	+36 37.3	1.441	2.217	20.4	21.9	129 W	82	27
4 16	14 51.33	+36 58.7	1.462	2.241	20.1	22.0	130 W	82	27
4 21	14 44.48	+37 7.1	1.487	2.265	20.0	22.0	130 W	82	27
4 26	14 37.61	+37 2.5	1.516	2.289	19.9	22.1	129 W	82	27
5 1	14 30.93	+36 45.2	1.550	2.312	20.0	22.2	128 E	82	27
5 6	14 24.63	+36 16.1	1.587	2.336	20.2	22.3	127 E	81	28
5 11	14 18.86	+35 36.1	1.629	2.358	20.5	22.3	125 E	81	28
5 16	14 13.73	+34 46.5	1.674	2.381	20.9	22.4	123 E	80	29

162422 2000 EV_{70}

4 1	15 10.02	−13 52.7	0.555	1.479	24.4	21.3	142 W	31	78
4 6	14 56.93	−12 53.5	0.555	1.509	19.0	21.2	151 W	32	77
4 11	14 43.00	−11 49.6	0.559	1.537	13.5	21.1	159 W	33	76
4 16	14 28.77	−10 43.2	0.570	1.565	8.1	20.9	167 W	34	75
4 21	14 14.83	− 9 37.4	0.587	1.591	3.3	20.8	175 W	35	74
4 26	14 1.74	− 8 35.3	0.611	1.615	3.6	20.9	174 E	36	73
5 1	13 49.92	− 7 39.5	0.641	1.639	8.0	21.3	167 E	37	72
5 6	13 39.67	− 6 52.1	0.677	1.661	12.2	21.6	160 E	38	71
5 11	13 31.09	− 6 13.7	0.719	1.681	16.0	21.9	153 E	39	70
5 16	13 24.20	− 5 44.8	0.765	1.701	19.3	22.1	146 E	39	70
5 21	13 18.94	− 5 24.9	0.815	1.719	22.2	22.4	140 E	40	69

501743 2014 UM_{116}

4 1	15 11.19	−26 58.3	1.271	2.121	18.4	21.3	138 W	18	89
4 11	15 7.48	−27 10.2	1.172	2.090	14.7	21.0	148 W	18	89
4 21	15 0.37	−27 0.8	1.091	2.060	10.3	20.6	159 W	18	89
5 1	14 50.59	−26 26.9	1.033	2.029	6.0	20.3	168 W	19	90
5 6	14 45.13	−26 0.9	1.012	2.014	4.8	20.2	170 E	19	90
5 11	14 39.58	−25 29.7	0.997	1.998	5.4	20.1	169 E	20	89
5 16	14 34.16	−24 54.1	0.988	1.983	7.4	20.2	165 E	20	89
5 21	14 29.10	−24 15.4	0.985	1.968	9.9	20.3	160 E	21	88
5 26	14 24.60	−23 35.1	0.987	1.953	12.6	20.4	155 E	21	88
5 31	14 20.86	−22 54.7	0.994	1.938	15.3	20.5	150 E	22	87
6 5	14 17.99	−22 15.7	1.006	1.924	17.9	20.6	144 E	23	86
6 10	14 16.08	−21 39.3	1.022	1.909	20.4	20.7	139 E	23	86
6 15	14 15.16	−21 6.5	1.042	1.895	22.6	20.8	134 E	24	85
6 20	14 15.26	−20 38.0	1.065	1.881	24.7	20.9	129 E	24*	85
6 25	14 16.37	−20 14.3	1.090	1.867	26.6	20.9	125 E	25*	84
6 30	14 18.47	−19 55.6	1.118	1.853	28.2	21.0	120 E	24*	84
7 5	14 21.52	−19 42.0	1.148	1.840	29.7	21.1	116 E	24*	84
7 10	14 25.44	−19 33.1	1.179	1.826	31.0	21.2	112 E	23*	84
7 15	14 30.20	−19 28.8	1.211	1.814	32.1	21.3	109 E	23*	83
7 20	14 35.76	−19 28.7	1.245	1.801	33.0	21.3	105 E	22*	83
7 25	14 42.06	−19 32.3	1.279	1.789	33.8	21.4	102 E	22*	84
7 30	14 49.06	−19 39.3	1.313	1.777	34.4	21.5	99 E	21*	84

501767 2014 UA_{184}

4 1	15 17.87	−15 32.7	1.209	2.077	17.9	21.3	140 W	29	80
4 11	15 14.54	−15 26.3	1.112	2.046	13.8	21.0	151 W	30	79
4 21	15 7.79	−15 10.5	1.034	2.014	8.8	20.6	162 W	30	79
5 1	14 58.24	−14 47.2	0.978	1.983	3.0	20.1	174 W	30	79

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
501767 2014 UA_{184} *(continuation)*									
5 6	14 52.81	−14 34.0	0.959	1.967	1.0	19.9	178 W	30	79
5 11	14 47.21	−14 20.6	0.945	1.952	3.6	20.1	173 E	31	78
5 16	14 41.64	−14 7.8	0.938	1.936	6.8	20.2	167 E	31	78
5 21	14 36.35	−13 56.5	0.936	1.921	9.9	20.3	161 E	31	78
5 26	14 31.53	−13 47.5	0.939	1.906	13.0	20.4	155 E	31	78
5 31	14 27.40	−13 41.7	0.947	1.891	15.9	20.5	149 E	31	78
6 5	14 24.08	−13 39.6	0.960	1.876	18.7	20.6	144 E	31	78
6 10	14 21.67	−13 41.7	0.976	1.861	21.3	20.7	138 E	31	78
6 15	14 20.23	−13 48.2	0.996	1.847	23.6	20.8	133 E	31	78
6 20	14 19.80	−13 59.2	1.019	1.833	25.7	20.9	128 E	31*	78
6 25	14 20.40	−14 14.7	1.045	1.819	27.6	21.0	124 E	31*	78
6 30	14 21.99	−14 34.5	1.072	1.806	29.3	21.1	120 E	30*	79
7 5	14 24.55	−14 58.3	1.101	1.792	30.8	21.2	116 E	29*	79
7 10	14 28.03	−15 25.7	1.132	1.779	32.1	21.3	112 E	28*	79
7 15	14 32.39	−15 56.4	1.163	1.767	33.1	21.4	108 E	26*	80
7 20	14 37.58	−16 30.0	1.196	1.755	34.1	21.4	105 E	25*	81
7 25	14 43.57	−17 5.9	1.229	1.743	34.8	21.5	101 E	24*	81
495871 2004 RP_{52}									
4 1	15 18.57	−14 40.3	1.225	2.093	17.8	21.5	140 W	30	79
4 11	15 15.58	−14 6.1	1.124	2.058	13.8	21.1	151 W	31	78
4 21	15 9.24	−13 19.5	1.043	2.023	8.8	20.7	162 W	32	77
5 1	15 0.14	−12 23.9	0.983	1.987	3.5	20.3	173 W	33	76
5 6	14 54.93	−11 54.6	0.962	1.970	2.4	20.2	175 W	33	76
5 11	14 49.52	−11 25.8	0.947	1.952	4.4	20.2	172 E	34	75
5 16	14 44.13	−10 58.3	0.938	1.934	7.3	20.3	166 E	34	75
5 21	14 38.98	−10 33.4	0.934	1.917	10.4	20.4	160 E	34	75
5 26	14 34.28	−10 12.1	0.936	1.900	13.5	20.5	154 E	35	74
5 31	14 30.22	− 9 55.4	0.942	1.882	16.4	20.6	148 E	35	74
6 5	14 26.94	− 9 43.9	0.953	1.865	19.2	20.7	143 E	35	74
6 10	14 24.54	− 9 38.0	0.968	1.848	21.8	20.8	138 E	35	74
6 15	14 23.09	− 9 37.8	0.986	1.832	24.2	20.9	132 E	35	74
6 20	14 22.62	− 9 43.5	1.007	1.815	26.3	21.0	128 E	35	74
6 25	14 23.16	− 9 54.8	1.030	1.799	28.3	21.1	123 E	35*	74
6 30	14 24.69	−10 11.5	1.055	1.783	30.0	21.2	119 E	34*	74
7 5	14 27.17	−10 33.2	1.082	1.767	31.5	21.3	115 E	33*	75
7 10	14 30.57	−10 59.3	1.110	1.752	32.8	21.3	111 E	32*	75
7 15	14 34.85	−11 29.4	1.139	1.737	34.0	21.4	107 E	31*	75
7 20	14 39.96	−12 3.1	1.168	1.722	34.9	21.5	104 E	30*	76
510073 2010 JF_{88}									
4 1	15 22.75	+14 53.0	1.070	1.917	21.3	21.1	136 W	60	49
4 6	15 21.52	+16 30.5	1.004	1.873	20.8	20.9	138 W	62	47
4 11	15 19.19	+18 13.3	0.943	1.829	20.6	20.7	140 W	63	46
4 16	15 15.65	+20 0.1	0.887	1.784	20.6	20.5	141 W	65	44
4 21	15 10.82	+21 48.6	0.835	1.739	21.0	20.3	142 W	67	42
4 26	15 4.65	+23 36.1	0.788	1.693	22.0	20.2	141 W	69	40
5 1	14 57.15	+25 19.5	0.746	1.646	23.6	20.1	139 W	70	39
5 6	14 48.37	+26 55.2	0.708	1.598	25.7	19.9	137 E	72	37
5 11	14 38.43	+28 19.7	0.674	1.550	28.4	19.8	133 E	73	36
5 16	14 27.52	+29 29.6	0.643	1.502	31.6	19.8	129 E	74	35
5 21	14 15.90	+30 21.8	0.616	1.453	35.1	19.7	124 E	75	34
5 26	14 3.91	+30 53.9	0.592	1.403	38.9	19.6	120 E	76	33
5 31	13 51.89	+31 4.9	0.569	1.353	43.0	19.6	115 E	76	33
6 5	13 40.12	+30 54.7	0.547	1.303	47.3	19.6	109 E	76	33
6 10	13 28.79	+30 23.8	0.526	1.253	51.8	19.5	104 E	75*	34
6 20	13 7.73	+28 23.5	0.483	1.152	61.7	19.4	94 E	68*	36
6 30	12 47.97	+25 10.6	0.435	1.054	73.1	19.4	83 E	57*	39
7 10	12 26.03	+20 44.1	0.381	0.962	87.1	19.4	71 E	44*	43*
7 15	12 12.21	+17 57.5	0.352	0.919	95.7	19.5	64 E	37*	43*
7 20	11 54.88	+14 42.7	0.324	0.880	105.8	19.7	56 E	29*	41*
7 25	11 32.54	+10 54.5	0.297	0.844	117.4	20.1	48 E	20*	37*
7 30	11 3.84	+ 6 32.1	0.276	0.814	130.6	21.0	38 E	10*	31*
361539 2007 KN_3									
4 1	15 22.97	− 9 14.1	1.504	2.357	15.9	21.4	140 W	36	73
4 11	15 18.20	− 8 30.0	1.397	2.322	12.3	21.1	150 W	36	73
4 21	15 10.42	− 7 40.1	1.313	2.287	8.2	20.8	161 W	37	72
5 1	15 0.21	− 6 49.5	1.253	2.251	4.7	20.5	169 W	38	71
5 6	14 54.53	− 6 26.0	1.232	2.232	4.5	20.4	170 W	39	70
5 11	14 48.69	− 6 4.8	1.218	2.214	5.9	20.4	167 E	39	70
5 16	14 42.88	− 5 46.9	1.211	2.195	8.1	20.5	162 E	39	70
5 21	14 37.27	− 5 32.8	1.209	2.176	10.6	20.6	157 E	39	70
5 26	14 32.04	− 5 23.4	1.214	2.157	13.1	20.7	151 E	40	69
5 31	14 27.37	− 5 19.0	1.223	2.138	15.6	20.7	146 E	40	69
6 5	14 23.36	− 5 19.9	1.238	2.118	17.9	20.8	140 E	40	69
6 10	14 20.11	− 5 26.2	1.256	2.099	20.1	20.9	135 E	40	69
6 15	14 17.69	− 5 37.8	1.279	2.079	22.1	21.0	130 E	39	70
6 20	14 16.12	− 5 54.5	1.304	2.059	24.0	21.1	125 E	39*	70

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
361539 2007 KN_3 *(continuation)*									
6 25	14 15.44	− 6 16.1	1.332	2.039	25.6	21.1	120 E	38*	70
6 30	14 15.63	− 6 42.2	1.363	2.019	27.1	21.2	115 E	37*	71
7 5	14 16.68	− 7 12.5	1.394	1.999	28.3	21.3	111 E	36*	71
7 10	14 18.56	− 7 46.5	1.427	1.979	29.4	21.3	107 E	34*	72
7 15	14 21.22	− 8 23.9	1.460	1.959	30.4	21.4	103 E	33*	72
7 20	14 24.65	− 9 4.4	1.494	1.939	31.1	21.4	99 E	31*	73
7 25	14 28.81	− 9 47.4	1.528	1.918	31.8	21.5	96 E	30*	74
378959 2008 UY_{190}									
4 1	15 30.40	−15 32.7	1.262	2.108	18.8	21.4	137 W	29	80
4 11	15 27.17	−15 40.6	1.160	2.078	14.9	21.0	148 W	29	80
4 21	15 20.34	−15 42.1	1.077	2.047	10.1	20.7	159 W	29	80
5 1	15 10.38	−15 38.0	1.015	2.017	4.4	20.2	171 W	29	80
5 6	15 4.58	−15 34.7	0.993	2.001	1.5	20.0	177 W	29	80
5 11	14 58.48	−15 31.0	0.977	1.986	2.1	20.0	176 E	29	80
5 16	14 52.30	−15 27.5	0.967	1.970	5.2	20.1	170 E	30	79
5 21	14 46.28	−15 24.7	0.963	1.955	8.4	20.3	164 E	30	79
5 26	14 40.64	−15 23.4	0.964	1.940	11.5	20.4	158 E	30	79
5 31	14 35.61	−15 24.3	0.971	1.924	14.5	20.5	152 E	30	79
6 5	14 31.35	−15 27.9	0.982	1.909	17.3	20.6	146 E	30	79
6 10	14 27.98	−15 34.8	0.998	1.894	20.0	20.7	140 E	29	80
6 15	14 25.57	−15 45.1	1.017	1.879	22.4	20.8	135 E	29	80
6 20	14 24.19	−15 59.2	1.040	1.864	24.6	20.9	130 E	29	80
6 25	14 23.85	−16 17.0	1.065	1.850	26.6	21.0	125 E	29*	80
6 30	14 24.55	−16 38.7	1.093	1.835	28.4	21.1	121 E	28*	81
7 5	14 26.25	−17 3.8	1.122	1.821	30.0	21.2	117 E	27*	81
7 10	14 28.92	−17 32.3	1.153	1.807	31.3	21.2	113 E	26*	82
7 15	14 32.51	−18 3.7	1.185	1.793	32.5	21.3	109 E	24*	82
7 20	14 36.98	−18 37.8	1.218	1.779	33.4	21.4	105 E	23*	83
7 25	14 42.29	−19 14.2	1.251	1.766	34.3	21.4	102 E	22*	83
275714 2000 YH_4									
4 1	15 35.07	+ 9 14.4	1.067	1.908	21.8	21.3	135 W	54	55
4 6	15 31.75	+10 9.5	1.016	1.888	20.4	21.1	139 W	55	54
4 11	15 27.15	+11 4.6	0.968	1.867	19.0	21.0	143 W	56	53
4 16	15 21.25	+11 57.7	0.925	1.845	17.7	20.8	146 W	57	52
4 21	15 14.04	+12 46.6	0.887	1.822	16.7	20.6	149 W	58	51
4 26	15 5.64	+13 28.8	0.854	1.798	16.1	20.5	150 W	58	51
5 1	14 56.21	+14 1.5	0.827	1.774	16.3	20.4	150 W	59	50
5 6	14 46.01	+14 22.4	0.805	1.749	17.3	20.4	149 E	59	50
5 11	14 35.35	+14 29.4	0.789	1.723	18.9	20.3	146 E	59	50
5 16	14 24.57	+14 21.2	0.778	1.697	21.2	20.3	143 E	59	50
5 21	14 14.05	+13 57.4	0.772	1.669	23.8	20.4	138 E	59	50
5 26	14 4.15	+13 18.2	0.770	1.641	26.6	20.4	133 E	58	51
5 31	13 55.15	+12 24.5	0.773	1.612	29.5	20.5	128 E	57	52
6 5	13 47.28	+11 18.1	0.778	1.582	32.4	20.5	123 E	56	53
6 10	13 40.65	+10 0.6	0.787	1.552	35.2	20.6	118 E	55	54
6 15	13 35.32	+ 8 33.9	0.797	1.520	37.8	20.6	114 E	53*	55
6 20	13 31.30	+ 6 59.4	0.808	1.489	40.3	20.7	109 E	50*	57
6 25	13 28.59	+ 5 18.3	0.820	1.456	42.6	20.7	104 E	47*	59
6 30	13 27.11	+ 3 31.9	0.832	1.422	44.7	20.8	100 E	44*	60
7 5	13 26.78	+ 1 40.9	0.843	1.388	46.7	20.8	96 E	40*	62
7 10	13 27.52	− 0 14.0	0.853	1.354	48.6	20.8	92 E	37*	64
7 15	13 29.25	− 2 12.5	0.862	1.319	50.4	20.9	89 E	33*	66
7 20	13 31.90	− 4 14.5	0.870	1.283	52.1	20.9	85 E	30*	68*
7 25	13 35.43	− 6 19.8	0.875	1.247	53.8	20.9	82 E	27*	69*
7 30	13 39.76	− 8 28.3	0.878	1.211	55.4	20.8	79 E	24*	69*
8 4	13 44.83	−10 40.2	0.878	1.175	57.1	20.8	76 E	21*	68*
8 9	13 50.60	−12 55.4	0.876	1.138	58.7	20.8	74 E	18*	67*
8 14	13 57.05	−15 14.1	0.870	1.102	60.4	20.8	71 E	15*	65*
8 19	14 4.15	−17 36.6	0.862	1.067	62.3	20.7	69 E	13*	63*
8 24	14 11.89	−20 3.0	0.850	1.032	64.2	20.7	67 E	10*	61*
8 29	14 20.24	−22 33.3	0.835	0.997	66.2	20.6	65 E	8*	58*
9 3	14 29.18	−25 7.7	0.816	0.965	68.4	20.6	63 E	6*	56*
9 8	14 38.72	−27 46.2	0.794	0.934	70.8	20.5	61 E	3*	54*
9 13	14 48.85	−30 28.7	0.768	0.905	73.4	20.5	60 E	1*	51*
9 18	14 59.58	−33 15.2	0.739	0.879	76.2	20.4	58 E	—	49*
9 23	15 10.93	−36 5.6	0.707	0.856	79.3	20.4	57 E	—	47*
9 28	15 22.90	−38 59.5	0.672	0.837	82.4	20.3	56 E	—	45*
10 3	15 35.55	−41 56.5	0.634	0.822	85.8	20.3	55 E	—	43*
10 8	15 48.97	−44 56.1	0.595	0.812	89.1	20.3	54 E	—	42*
10 13	16 3.40	−47 58.1	0.553	0.807	92.5	20.2	54 E	—	40*
10 18	16 19.21	−51 2.1	0.510	0.807	95.6	20.2	54 E	—	39*
10 20	16 26.04	−52 16.3	0.493	0.809	96.8	20.2	54 E	—	38*
10 22	16 33.26	−53 30.8	0.475	0.811	98.0	20.2	54 E	—	38*
10 24	16 40.92	−54 45.7	0.458	0.814	99.0	20.1	54 E	—	37*
10 26	16 49.11	−56 0.7	0.440	0.818	100.0	20.1	54 E	—	37*
10 28	16 57.96	−57 16.0	0.423	0.823	100.9	20.1	54 E	—	37*
10 30	17 7.60	−58 31.4	0.405	0.828	101.7	20.0	55 E	—	37*
11 1	17 18.21	−59 46.7	0.388	0.834	102.3	20.0	55 E	—	37*
11 3	17 30.03	−61 1.6	0.370	0.841	102.9	19.9	56 E	—	37*

275714 2000 YH_4 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
11 5	17 43.34	−62 15.6	0.353	0.849	103.3	19.9	56 E	—	37*
11 7	17 58.49	−63 28.0	0.336	0.857	103.5	19.8	57 E	—	37*
11 8	18 6.90	−64 3.3	0.328	0.861	103.5	19.8	58 E	—	37*
11 9	18 15.93	−64 37.6	0.319	0.866	103.5	19.7	58 E	—	38*
11 10	18 25.66	−65 10.7	0.311	0.870	103.5	19.7	59 E	—	38*
11 11	18 36.16	−65 42.3	0.303	0.875	103.4	19.6	59 E	—	38*
11 12	18 47.50	−66 12.1	0.295	0.880	103.2	19.6	60 E	—	39*
11 13	18 59.75	−66 39.5	0.287	0.885	103.0	19.5	61 E	—	39*
11 14	19 12.96	−67 4.0	0.279	0.890	102.7	19.4	61 E	—	40*
11 15	19 27.20	−67 24.9	0.271	0.895	102.3	19.4	62 E	—	40*
11 16	19 42.50	−67 41.5	0.263	0.901	101.9	19.3	63 E	—	41*
11 17	19 58.85	−67 52.8	0.255	0.906	101.4	19.2	64 E	—	42*
11 18	20 16.21	−67 57.8	0.248	0.912	100.8	19.1	65 E	—	43*
11 19	20 34.51	−67 55.5	0.240	0.918	100.1	19.0	66 E	—	44*
11 20	20 53.60	−67 44.7	0.233	0.923	99.3	19.0	67 E	—	45*
11 21	21 13.28	−67 24.3	0.226	0.929	98.4	18.9	69 E	—	46*
11 22	21 33.32	−66 53.1	0.219	0.935	97.4	18.8	70 E	—	47*
11 23	21 53.45	−66 10.2	0.213	0.941	96.3	18.7	71 E	—	48*
11 24	22 13.39	−65 14.6	0.206	0.947	95.1	18.6	73 E	—	50*
11 25	22 32.87	−64 5.8	0.200	0.954	93.8	18.4	75 E	—	51*
11 26	22 51.68	−62 43.2	0.194	0.960	92.3	18.3	76 E	—	53*
11 27	23 9.64	−61 6.6	0.189	0.966	90.7	18.2	78 E	—	55*
11 28	23 26.61	−59 15.9	0.184	0.973	88.9	18.1	80 E	—	57*
11 29	23 42.54	−57 11.3	0.179	0.979	87.1	18.0	82 E	—	59
11 30	23 57.39	−54 53.2	0.175	0.986	85.1	17.9	85 E	—	61
12 1	0 11.18	−52 22.3	0.171	0.992	82.9	17.8	87 E	—	64
12 2	0 23.95	−49 39.3	0.168	0.999	80.7	17.6	90 E	—	66
12 3	0 35.75	−46 45.4	0.165	1.006	78.3	17.5	92 E	—	69
12 4	0 46.65	−43 42.0	0.163	1.013	75.9	17.4	95 E	1	72
12 5	0 56.72	−40 30.6	0.162	1.019	73.4	17.4	98 E	4	75
12 6	1 6.03	−37 13.0	0.161	1.026	70.9	17.3	100 E	8	79
12 7	1 14.65	−33 51.3	0.161	1.033	68.3	17.2	103 E	11	82
12 8	1 22.64	−30 27.4	0.161	1.040	65.8	17.1	106 E	15	86
12 9	1 30.06	−27 3.4	0.162	1.047	63.3	17.1	108 E	18	89
12 10	1 36.98	−23 41.2	0.164	1.054	60.9	17.1	111 E	21	88
12 11	1 43.44	−20 22.6	0.167	1.061	58.6	17.0	113 E	25	84
12 12	1 49.48	−17 9.1	0.170	1.068	56.4	17.0	115 E	28	81
12 13	1 55.16	−14 1.9	0.174	1.075	54.4	17.0	117 E	31	78
12 14	2 0.49	−11 2.2	0.178	1.083	52.5	17.1	119 E	34	75
12 15	2 5.53	− 8 10.4	0.183	1.090	50.8	17.1	121 E	37	72
12 16	2 10.30	− 5 27.2	0.188	1.097	49.2	17.1	122 E	40	69
12 17	2 14.83	− 2 52.6	0.194	1.104	47.8	17.2	124 E	42	67
12 22	2 34.52	+ 7 53.4	0.230	1.140	42.7	17.5	128 E	53	56
12 27	2 50.77	+15 40.0	0.273	1.177	40.1	17.8	130 E	61	48
1 1	3 4.87	+21 16.9	0.322	1.213	38.9	18.2	129 E	66	43
1 6	3 17.61	+25 24.2	0.375	1.249	38.5	18.6	128 E	70	39
1 8	3 22.45	+26 44.6	0.398	1.263	38.4	18.7	127 E	72	37
1 10	3 27.19	+27 56.5	0.420	1.278	38.4	18.9	126 E	73	36
1 12	3 31.84	+29 0.9	0.444	1.292	38.3	19.0	125 E	74	35
1 14	3 36.43	+29 58.8	0.467	1.306	38.3	19.2	125 E	75	34
1 16	3 40.96	+30 51.0	0.491	1.321	38.3	19.3	124 E	76	33

363548 2003 WA_{13}

4 1	15 40.37	−18 23.2	1.673	2.476	16.8	21.4	134 W	27	82
4 11	15 36.64	−18 32.2	1.557	2.447	13.6	21.1	145 W	26	83
4 21	15 29.82	−18 34.1	1.461	2.416	9.6	20.8	156 W	26	83
5 1	15 20.33	−18 28.6	1.389	2.385	4.9	20.4	168 W	27	82
5 6	15 14.85	−18 23.4	1.363	2.369	2.4	20.2	174 W	27	82
5 11	15 9.09	−18 16.8	1.343	2.353	0.4	20.0	179 E	27	82
5 16	15 3.20	−18 9.3	1.330	2.337	3.0	20.2	173 E	27	82
5 21	14 57.36	−18 1.3	1.324	2.321	5.6	20.3	167 E	27	82
5 26	14 51.78	−17 53.4	1.323	2.305	8.3	20.4	161 E	27	82
5 31	14 46.61	−17 46.2	1.330	2.288	10.9	20.5	155 E	27	82
6 5	14 42.01	−17 40.5	1.341	2.272	13.3	20.6	149 E	27	82
6 10	14 38.09	−17 36.7	1.358	2.255	15.6	20.7	143 E	27	82
6 15	14 34.93	−17 35.2	1.380	2.239	17.8	20.8	138 E	27	82
6 20	14 32.59	−17 36.5	1.405	2.222	19.7	20.9	132 E	27	82
6 25	14 31.11	−17 40.8	1.434	2.205	21.5	20.9	127 E	27*	82
6 30	14 30.51	−17 48.3	1.467	2.188	23.1	21.0	123 E	27*	82
7 5	14 30.77	−17 59.0	1.501	2.171	24.4	21.1	118 E	26*	82
7 10	14 31.86	−18 12.9	1.538	2.154	25.7	21.2	113 E	25*	82
7 15	14 33.76	−18 29.8	1.576	2.138	26.7	21.2	109 E	24*	82
7 20	14 36.45	−18 49.5	1.615	2.121	27.6	21.3	105 E	23*	83
7 25	14 39.88	−19 11.9	1.655	2.104	28.3	21.4	101 E	22*	83
7 30	14 44.03	−19 36.7	1.695	2.087	28.8	21.4	98 E	21*	84
8 4	14 48.84	−20 3.5	1.735	2.070	29.3	21.5	94 E	20*	84*
8 9	14 54.30	−20 32.2	1.776	2.053	29.6	21.5	91 E	18*	83*

413390 2004 RG_{96}

4 1	15 40.68	−18 21.6	1.231	2.057	20.4	21.2	134 W	27	82
4 11	15 40.40	−17 42.6	1.126	2.026	16.8	20.9	144 W	27	82
4 21	15 36.64	−16 47.0	1.039	1.996	12.2	20.5	155 W	28	81
5 1	15 29.72	−15 36.5	0.972	1.966	6.9	20.1	166 W	29	80
5 6	15 25.34	−14 57.3	0.947	1.951	4.1	19.9	172 W	30	79
5 11	15 20.58	−14 16.4	0.928	1.936	2.1	19.7	176 W	31	78
5 16	15 15.60	−13 35.2	0.914	1.922	3.5	19.8	173 E	31	78
5 21	15 10.64	−12 54.8	0.906	1.907	6.5	19.9	168 E	32	77
5 26	15 5.91	−12 16.7	0.903	1.893	9.6	20.0	162 E	33	76
5 31	15 1.62	−11 42.0	0.906	1.879	12.7	20.1	156 E	33	76
6 5	14 57.97	−11 12.0	0.914	1.865	15.6	20.2	150 E	34	75
6 10	14 55.08	−10 47.4	0.926	1.851	18.4	20.3	145 E	34	75
6 20	14 51.94	−10 16.1	0.962	1.824	23.4	20.5	134 E	35	74
6 30	14 52.66	−10 9.7	1.009	1.798	27.5	20.7	125 E	35*	74
7 10	14 57.22	−10 26.3	1.066	1.774	30.8	20.9	117 E	34*	74
7 20	15 5.32	−11 1.8	1.127	1.751	33.2	21.1	109 E	32*	75
7 30	15 16.66	−11 52.0	1.193	1.730	34.9	21.2	103 E	30*	76
8 9	15 30.84	−12 52.1	1.261	1.711	36.0	21.3	97 E	29*	77
8 19	15 47.55	−13 57.6	1.330	1.693	36.7	21.5	92 E	27*	78*

137911 2000 AB_{246}

4 1	15 51.41	−21 21.8	1.537	2.320	18.9	21.3	131 W	24	85
4 11	15 49.31	−21 36.8	1.392	2.264	16.0	21.0	141 W	23	86
4 21	15 43.58	−21 43.3	1.265	2.206	12.2	20.6	152 W	23	86
5 1	15 34.18	−21 39.2	1.160	2.147	7.3	20.1	164 W	23	86
5 11	15 21.70	−21 23.1	1.078	2.087	2.0	19.6	176 W	24	85
5 16	15 14.65	−21 10.5	1.047	2.056	2.2	19.5	175 E	24	85
5 21	15 7.34	−20 55.2	1.022	2.026	5.2	19.6	170 E	24	85
5 26	15 0.01	−20 37.9	1.003	1.995	8.4	19.7	163 E	24	85
5 31	14 52.94	−20 19.5	0.990	1.963	11.7	19.8	157 E	25	84
6 5	14 46.35	−20 1.0	0.983	1.932	15.0	19.8	150 E	25	84
6 10	14 40.46	−19 43.5	0.981	1.900	18.2	19.9	144 E	25	84
6 15	14 35.44	−19 27.9	0.983	1.868	21.2	20.0	138 E	26	83
6 20	14 31.43	−19 15.2	0.989	1.836	24.0	20.0	133 E	26	83
6 30	14 26.76	−19 1.7	1.009	1.772	29.1	20.1	122 E	26*	83
7 10	14 26.72	−19 6.5	1.037	1.708	33.4	20.2	113 E	24*	83
7 20	14 31.21	−19 30.2	1.067	1.644	36.8	20.3	104 E	22*	84
7 30	14 40.00	−20 11.3	1.096	1.580	39.6	20.4	97 E	20*	84
8 9	14 52.80	−21 6.9	1.122	1.518	41.9	20.4	90 E	18*	83*
8 19	15 9.40	−22 12.9	1.144	1.457	43.8	20.4	85 E	16*	79*
8 29	15 29.73	−23 24.8	1.159	1.400	45.3	20.4	80 E	15*	74*
9 8	15 53.69	−24 36.9	1.169	1.346	46.6	20.3	76 E	14*	70*
9 18	16 21.29	−25 42.5	1.173	1.297	47.7	20.3	73 E	14*	67*
9 28	16 52.50	−26 34.0	1.172	1.254	48.7	20.3	70 E	14*	64*
10 8	17 27.13	−27 2.9	1.169	1.218	49.5	20.2	68 E	15*	62*
10 18	18 4.87	−27 0.0	1.164	1.191	50.1	20.2	66 E	16*	60*
10 23	18 24.73	−26 44.1	1.163	1.181	50.3	20.2	66 E	16*	60*
10 28	18 45.11	−26 17.4	1.162	1.173	50.4	20.1	65 E	17*	59*
11 2	19 5.91	−25 39.2	1.162	1.168	50.4	20.1	65 E	18*	58*
11 7	19 26.98	−24 49.2	1.163	1.166	50.4	20.1	65 E	19*	58*
11 12	19 48.22	−23 47.3	1.167	1.166	50.2	20.1	65 E	21*	57*
11 17	20 9.49	−22 33.8	1.172	1.169	50.0	20.1	65 E	22*	56*
11 22	20 30.69	−21 9.1	1.180	1.175	49.6	20.2	65 E	23*	55*
11 27	20 51.68	−19 34.3	1.191	1.183	49.1	20.2	65 E	25*	54*
12 2	21 12.37	−17 50.5	1.205	1.194	48.5	20.2	65 E	27*	53*
12 7	21 32.69	−15 59.0	1.223	1.207	47.8	20.2	65 E	29*	52*
12 12	21 52.59	−14 1.4	1.243	1.223	47.1	20.3	65 E	31*	50*
12 17	22 12.03	−11 59.1	1.268	1.240	46.2	20.3	65 E	33*	49*
12 22	22 30.99	− 9 53.7	1.296	1.260	45.2	20.4	65 E	35*	47*
12 27	22 49.46	− 7 46.7	1.328	1.281	44.2	20.5	65 E	37*	45*
1 1	23 7.43	− 5 39.6	1.363	1.304	43.2	20.5	65 E	39*	43*
1 6	23 24.92	− 3 33.5	1.402	1.328	42.1	20.6	65 E	40*	42*
1 11	23 41.96	− 1 29.4	1.444	1.354	41.0	20.7	65 E	42*	40*
1 16	23 58.56	+ 0 31.7	1.490	1.381	39.9	20.7	64 E	44*	38*

500026 2011 SS_{21}

4 1	16 4.31	−24 3.1	0.904	1.709	27.6	21.2	128 W	21	88
4 11	16 12.39	−25 12.4	0.804	1.673	24.9	20.8	135 W	20	89
4 21	16 17.18	−26 19.2	0.716	1.638	21.3	20.4	144 W	19	90
5 1	16 18.13	−27 21.8	0.642	1.606	16.7	20.0	153 W	18	89
5 11	16 15.21	−28 17.1	0.583	1.575	11.3	19.5	162 W	17	88
5 16	16 12.44	−28 40.4	0.560	1.561	8.6	19.3	167 W	16	87
5 21	16 8.99	−29 0.0	0.540	1.547	6.3	19.1	170 W	16	87
5 26	16 5.10	−29 15.1	0.525	1.535	5.5	19.0	172 E	16	87
5 31	16 1.08	−29 25.8	0.514	1.523	6.8	19.0	170 E	16	87
6 5	15 57.25	−29 32.1	0.507	1.511	9.5	19.1	166 E	15	86
6 10	15 53.92	−29 34.5	0.504	1.501	12.7	19.1	161 E	15	86
6 15	15 51.37	−29 33.7	0.504	1.491	16.0	19.2	156 E	15	86

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
	500026 2011 SS_{21} *(continuation)*								
6 20	15 49.83	−29 30.6	0.508	1.483	19.1	19.4	151 E	15	86
6 25	15 49.52	−29 26.2	0.515	1.475	22.2	19.5	147 E	16	87
6 30	15 50.55	−29 21.4	0.525	1.468	24.9	19.6	142 E	16	87
7 5	15 52.97	−29 17.0	0.538	1.463	27.5	19.7	138 E	16	87
7 10	15 56.76	−29 13.3	0.552	1.458	29.8	19.8	135 E	16	87
7 20	16 8.24	−29 8.0	0.588	1.452	33.6	20.1	128 E	16	87
7 30	16 24.46	−29 4.7	0.632	1.451	36.5	20.3	122 E	16*	87
8 9	16 44.57	−28 59.8	0.682	1.454	38.5	20.5	117 E	16*	87
8 19	17 7.69	−28 48.9	0.739	1.461	39.9	20.7	112 E	16*	87
8 29	17 33.06	−28 28.3	0.803	1.473	40.7	21.0	108 E	16*	88
9 8	17 59.88	−27 54.8	0.874	1.489	41.0	21.2	104 E	17*	88
9 18	18 27.49	−27 6.5	0.951	1.508	40.9	21.4	101 E	18	89
	408876 2001 TZ_{135}								
4 1	16 20.94	−26 32.4	2.281	2.951	16.4	21.4	123 W	18	89
4 11	16 17.19	−26 22.2	2.203	2.988	14.0	21.3	134 W	19	90
4 21	16 10.88	−26 2.4	2.144	3.024	10.9	21.1	145 W	19	90
5 1	16 2.47	−25 32.2	2.108	3.059	7.5	21.0	157 W	19	90
5 11	15 52.74	−24 52.3	2.098	3.093	3.8	20.8	168 W	20	89
5 21	15 42.59	−24 4.8	2.116	3.127	1.4	20.7	176 E	21	88
5 31	15 33.01	−23 13.5	2.165	3.159	4.4	21.0	166 E	22	87
6 10	15 24.81	−22 22.8	2.241	3.190	7.7	21.2	155 E	23	86
6 20	15 18.54	−21 36.8	2.343	3.221	10.7	21.5	144 E	23	86
	175816 1999 RZ_{230}								
4 1	16 22.64	−18 34.9	1.868	2.569	18.7	21.3	124 W	26	83
4 11	16 21.85	−18 43.1	1.735	2.539	16.4	21.0	134 W	26	83
4 21	16 18.02	−18 47.5	1.618	2.509	13.3	20.7	145 W	26	83
5 1	16 11.16	−18 48.0	1.521	2.477	9.4	20.4	156 W	26	83
5 11	16 1.69	−18 44.8	1.448	2.445	4.8	20.1	168 W	26	83
5 16	15 56.23	−18 41.9	1.421	2.429	2.4	19.9	174 W	26	83
5 21	15 50.47	−18 38.5	1.400	2.412	0.7	19.7	178 E	26	83
5 26	15 44.57	−18 34.7	1.387	2.396	2.9	19.8	173 E	26	83
5 31	15 38.73	−18 30.9	1.380	2.379	5.5	19.9	167 E	26	83
6 5	15 33.11	−18 27.7	1.380	2.362	8.1	20.0	161 E	27	82
6 10	15 27.89	−18 25.3	1.386	2.345	10.6	20.1	155 E	27	82
6 15	15 23.19	−18 24.2	1.397	2.328	13.0	20.2	149 E	27	82
6 20	15 19.14	−18 24.8	1.414	2.311	15.2	20.3	143 E	27	82
6 30	15 13.35	−18 32.8	1.462	2.276	19.2	20.5	133 E	26	83
7 10	15 10.91	−18 50.8	1.524	2.241	22.5	20.6	123 E	26*	83
7 20	15 11.86	−19 19.3	1.596	2.205	25.0	20.8	113 E	24*	83
7 30	15 16.08	−19 57.6	1.674	2.170	26.9	20.9	105 E	23*	84
8 9	15 23.30	−20 44.0	1.755	2.134	28.1	21.0	97 E	21*	85
8 19	15 33.26	−21 36.3	1.837	2.098	28.8	21.1	90 E	19*	83*
8 29	15 45.72	−22 32.5	1.917	2.062	29.1	21.2	83 E	17*	77*
9 8	16 0.45	−23 29.9	1.994	2.026	29.0	21.2	77 E	16*	71*
9 18	16 17.27	−24 26.0	2.067	1.991	28.6	21.2	71 E	15*	65*
9 28	16 36.05	−25 18.2	2.135	1.956	27.9	21.2	66 E	14*	60*
10 8	16 56.60	−26 3.9	2.198	1.922	27.0	21.2	61 E	13*	55*
10 18	17 18.81	−26 40.4	2.254	1.889	26.0	21.2	56 E	13*	50*
10 28	17 42.52	−27 5.3	2.305	1.857	24.7	21.2	51 E	12*	45*
11 7	18 7.53	−27 16.0	2.351	1.826	23.4	21.2	47 E	12*	41*
11 17	18 33.68	−27 10.5	2.391	1.796	22.0	21.1	43 E	12*	36*
11 27	19 0.73	−26 47.0	2.425	1.768	20.5	21.1	39 E	12*	32*
12 7	19 28.45	−26 4.3	2.455	1.742	18.9	21.0	35 E	11*	27*
12 17	19 56.60	−25 1.6	2.482	1.719	17.3	21.0	31 E	11*	23*
12 27	20 24.96	−23 39.1	2.504	1.697	15.7	20.9	28 E	11*	19*
1 6	20 53.31	−21 57.2	2.524	1.678	14.0	20.8	24 E	10*	16*
1 16	21 21.51	−19 57.3	2.541	1.662	12.4	20.8	21 E	8*	12*
	477849 2011 FH_{152}								
4 1	16 24.49	−17 56.4	1.142	1.893	25.9	21.5	124 W	27	82
4 11	16 23.56	−19 29.6	1.043	1.882	22.6	21.1	134 W	26	83
4 21	16 17.86	−21 12.3	0.957	1.870	18.1	20.8	145 W	24	85
5 1	16 7.04	−23 1.6	0.889	1.857	12.5	20.4	157 W	22	87
5 6	15 59.84	−23 56.8	0.863	1.851	9.4	20.2	163 W	21	88
5 11	15 51.64	−24 50.8	0.843	1.844	6.3	20.0	168 W	20	89
5 16	15 42.67	−25 42.3	0.829	1.837	3.9	19.9	173 W	19	90
5 21	15 33.24	−26 29.9	0.821	1.829	4.2	19.9	172 E	18	89
5 26	15 23.71	−27 13.0	0.820	1.822	7.0	20.0	167 E	18	89
5 31	15 14.47	−27 51.2	0.824	1.814	10.3	20.1	161 E	17	88
6 5	15 5.88	−28 24.8	0.834	1.806	13.6	20.3	155 E	17	88
6 10	14 58.22	−28 54.2	0.849	1.798	16.8	20.4	149 E	16	87
6 15	14 51.70	−29 20.4	0.869	1.790	19.8	20.6	143 E	16	87
6 20	14 46.49	−29 44.4	0.893	1.781	22.6	20.7	138 E	15	86
6 25	14 42.66	−30 7.2	0.921	1.773	25.1	20.8	132 E	15	86
6 30	14 40.24	−30 29.9	0.951	1.764	27.3	20.9	127 E	14*	85
7 5	14 39.19	−30 53.1	0.984	1.755	29.2	21.1	123 E	14*	85
7 10	14 39.46	−31 17.2	1.018	1.746	30.9	21.2	118 E	13*	85

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
	477849 2011 FH_{152} *(continuation)*								
7 15	14 40.99	−31 42.5	1.054	1.737	32.3	21.3	114 E	12*	84
7 20	14 43.69	−32 9.2	1.091	1.728	33.5	21.4	110 E	11*	84
7 25	14 47.51	−32 37.3	1.128	1.719	34.5	21.5	106 E	9*	83
	100088 1993 DC								
4 1	16 26.14	−17 52.0	2.574	3.237	14.9	21.4	124 W	27	82
4 11	16 22.30	−17 50.0	2.475	3.256	12.7	21.3	134 W	27	82
4 21	16 16.13	−17 44.4	2.396	3.275	10.0	21.1	146 W	27	82
5 1	16 7.96	−17 35.3	2.339	3.292	6.8	20.9	157 W	27	82
5 11	15 58.38	−17 23.7	2.311	3.308	3.3	20.7	169 W	28	81
5 21	15 48.15	−17 10.5	2.311	3.323	1.0	20.6	177 E	28	81
5 31	15 38.12	−16 57.9	2.343	3.336	4.1	20.8	166 E	28	81
6 10	15 29.10	−16 47.8	2.403	3.349	7.4	21.1	155 E	28	81
6 20	15 21.70	−16 42.4	2.489	3.361	10.4	21.3	143 E	28	81
6 30	15 16.32	−16 43.0	2.598	3.371	12.8	21.5	133 E	28	81
	363407 2003 QY_1								
4 1	16 28.48	−16 39.7	1.207	1.944	25.5	21.2	123 W	28	81
4 11	16 34.88	−16 14.6	1.091	1.909	23.1	20.9	132 W	29	80
4 21	16 38.13	−15 39.7	0.987	1.875	20.0	20.5	140 W	29	80
5 1	16 37.88	−14 56.8	0.898	1.841	15.9	20.2	150 W	30	79
5 11	16 34.14	−14 9.3	0.826	1.808	11.0	19.8	160 W	31	78
5 16	16 31.08	−13 45.3	0.797	1.793	8.5	19.6	165 W	31	78
5 21	16 27.38	−13 22.1	0.773	1.777	6.2	19.4	169 W	32	77
5 26	16 23.20	−13 0.6	0.754	1.762	4.9	19.2	171 W	32	77
5 31	16 18.78	−12 41.7	0.740	1.748	5.6	19.2	170 E	32	77
6 5	16 14.34	−12 26.3	0.731	1.734	7.9	19.3	166 E	33	76
6 10	16 10.11	−12 15.2	0.727	1.720	10.8	19.4	161 E	33	76
6 15	16 6.31	−12 9.0	0.727	1.707	13.8	19.5	156 E	33	76
6 20	16 3.16	−12 8.2	0.732	1.694	16.8	19.6	151 E	33	76
6 30	15 59.45	−12 23.4	0.752	1.671	22.4	19.8	141 E	33	76
7 10	15 59.86	−13 0.0	0.785	1.650	27.2	20.0	132 E	32	77
7 20	16 4.59	−13 54.2	0.828	1.632	31.0	20.2	124 E	31*	78
7 30	16 13.54	−15 1.0	0.879	1.616	34.0	20.4	117 E	30*	79
8 9	16 26.32	−16 14.5	0.935	1.605	36.2	20.6	111 E	28*	80
8 19	16 42.47	−17 29.3	0.996	1.596	37.7	20.7	105 E	27*	81
8 29	17 1.58	−18 39.9	1.062	1.591	38.7	20.9	100 E	26*	83
9 8	17 23.15	−19 41.6	1.132	1.589	39.1	21.0	96 E	25*	84
9 18	17 46.75	−20 30.2	1.205	1.591	39.1	21.2	92 E	24*	83*
9 28	18 11.96	−21 2.5	1.283	1.596	38.8	21.3	88 E	24*	80*
10 8	18 38.32	−21 15.9	1.365	1.605	38.2	21.4	84 E	23*	77*
	378532 2008 AP_{28}								
4 1	16 29.13	+12 22.2	2.260	2.906	17.1	21.5	121 W	57	52
4 6	16 28.65	+13 21.5	2.203	2.891	16.5	21.4	125 W	58	51
4 11	16 27.54	+14 20.9	2.149	2.876	15.9	21.3	128 W	59	50
4 16	16 25.78	+15 19.7	2.100	2.861	15.3	21.2	131 W	60	49
4 21	16 23.39	+16 17.0	2.055	2.846	14.7	21.2	134 W	61	48
4 26	16 20.37	+17 11.5	2.016	2.830	14.2	21.1	136 W	62	47
5 1	16 16.79	+18 2.1	1.981	2.814	13.8	21.0	138 W	63	46
5 6	16 12.70	+18 47.7	1.952	2.798	13.5	21.0	140 W	64	45
5 11	16 8.18	+19 27.4	1.929	2.781	13.4	20.9	140 W	64	45
5 16	16 3.32	+20 0.0	1.911	2.764	13.6	20.9	140 W	65	44
5 21	15 58.23	+20 24.8	1.899	2.747	13.9	20.9	139 W	65	44
5 26	15 53.05	+20 41.2	1.892	2.730	14.4	20.9	138 E	66	43
5 31	15 47.90	+20 48.8	1.890	2.712	15.1	20.9	136 E	66	43
6 5	15 42.91	+20 47.5	1.894	2.694	15.9	20.9	133 E	66	43
6 10	15 38.21	+20 37.4	1.902	2.676	16.8	20.9	131 E	66	43
6 15	15 33.88	+20 19.1	1.914	2.657	17.7	21.0	127 E	65	44
6 20	15 30.04	+19 52.8	1.931	2.638	18.6	21.0	124 E	65	44
6 25	15 26.74	+19 19.2	1.951	2.619	19.5	21.0	121 E	64	45
6 30	15 24.05	+18 39.2	1.974	2.600	20.4	21.1	117 E	64	45
7 5	15 22.01	+17 53.5	2.000	2.580	21.2	21.1	114 E	63	46
7 10	15 20.63	+17 2.9	2.028	2.560	21.9	21.1	110 E	62*	47
7 15	15 19.92	+16 8.1	2.058	2.540	22.6	21.2	106 E	60*	48
7 20	15 19.87	+15 9.8	2.090	2.519	23.2	21.2	103 E	59*	49
7 25	15 20.48	+14 8.6	2.123	2.499	23.6	21.2	99 E	57*	50
7 30	15 21.73	+13 5.1	2.157	2.478	24.0	21.3	96 E	54*	51
8 4	15 23.59	+12 0.0	2.191	2.456	24.4	21.3	93 E	52*	52
8 9	15 26.05	+10 53.5	2.225	2.435	24.6	21.3	89 E	50*	53
8 14	15 29.07	+ 9 46.2	2.259	2.413	24.8	21.3	86 E	48*	54*
8 19	15 32.63	+ 8 38.4	2.293	2.391	24.8	21.3	83 E	47*	55*
8 24	15 36.72	+ 7 30.3	2.327	2.369	24.8	21.4	80 E	45*	55*
8 29	15 41.30	+ 6 22.3	2.360	2.347	24.8	21.4	77 E	43*	55*
9 3	15 46.36	+ 5 14.8	2.392	2.324	24.7	21.4	74 E	41*	54*
9 8	15 51.87	+ 4 7.7	2.422	2.301	24.5	21.4	71 E	40*	53*
9 13	15 57.82	+ 3 1.5	2.452	2.278	24.2	21.4	68 E	38*	51*
9 18	16 4.20	+ 1 56.2	2.480	2.254	23.9	21.4	65 E	37*	49*
9 23	16 10.98	+ 0 52.1	2.507	2.231	23.5	21.3	63 E	36*	48*
9 28	16 18.16	− 0 10.7	2.532	2.207	23.1	21.3	60 E	34*	45*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
378532 2008 AP_{28} *(continuation)*									
10 3	16 25.71	− 1 12.0	2.555	2.183	22.7	21.3	57 E	33*	43*
10 8	16 33.64	− 2 11.5	2.577	2.159	22.2	21.3	55 E	32*	41*
10 13	16 41.93	− 3 9.3	2.597	2.135	21.6	21.3	52 E	31*	38*
10 18	16 50.57	− 4 5.1	2.615	2.111	21.1	21.2	50 E	30*	36*
10 23	16 59.56	− 4 58.8	2.632	2.086	20.5	21.2	47 E	29*	33*
10 28	17 8.88	− 5 50.1	2.646	2.062	19.8	21.2	45 E	28*	31*
11 2	17 18.53	− 6 39.0	2.659	2.037	19.1	21.1	42 E	26*	28*
11 7	17 28.50	− 7 25.3	2.669	2.012	18.4	21.1	40 E	25*	25*
11 12	17 38.79	− 8 8.8	2.678	1.987	17.7	21.1	38 E	24*	23*
11 17	17 49.38	− 8 49.5	2.685	1.962	16.9	21.0	35 E	23*	20*
11 22	18 0.28	− 9 27.1	2.690	1.938	16.1	21.0	33 E	22*	17*
11 27	18 11.47	−10 1.6	2.692	1.913	15.3	20.9	31 E	21*	15*
12 2	18 22.94	−10 32.8	2.694	1.888	14.5	20.8	29 E	19*	12*
12 7	18 34.69	−11 0.6	2.693	1.863	13.6	20.8	26 E	18*	10*
12 12	18 46.70	−11 25.0	2.690	1.839	12.7	20.7	24 E	17*	8*
12 17	18 58.98	−11 45.7	2.686	1.814	11.8	20.7	22 E	15*	5*
12 22	19 11.51	−12 2.7	2.680	1.790	10.9	20.6	20 E	13*	3*
12 27	19 24.28	−12 16.0	2.673	1.766	10.0	20.5	18 E	12*	1*
1 1	19 37.27	−12 25.5	2.664	1.742	9.1	20.4	16 E	10*	—
1 6	19 50.49	−12 31.1	2.654	1.718	8.1	20.4	14 E	8*	—
1 11	20 3.92	−12 32.9	2.642	1.695	7.2	20.3	12 E	6*	—
1 16	20 17.56	−12 30.9	2.629	1.672	6.2	20.2	11 E	5*	—
486725 2014 DZ_{17}									
4 1	16 33.48	−27 48.2	1.037	1.767	29.2	21.5	120 W	17	88
4 11	16 32.68	−29 19.9	0.989	1.804	25.2	21.3	130 W	16	87
4 21	16 26.74	−30 42.1	0.953	1.842	20.4	21.1	140 W	14	85
5 1	16 16.02	−31 47.3	0.932	1.880	14.9	20.9	151 W	13	84
5 11	16 1.87	−32 27.8	0.932	1.917	9.6	20.8	162 W	13	84
5 21	15 46.45	−32 39.7	0.954	1.954	6.5	20.7	167 E	12	83
5 31	15 32.20	−32 25.8	0.999	1.991	8.6	21.0	163 E	13	84
6 10	15 21.11	−31 55.8	1.066	2.026	12.9	21.3	154 E	13	84
467365 2003 WB_{26}									
4 1	16 44.08	− 9 33.5	2.013	2.656	19.1	21.4	120 W	35	74
4 11	16 43.09	− 9 46.6	1.872	2.626	17.1	21.2	130 W	35	74
4 21	16 39.09	−10 3.5	1.745	2.596	14.4	20.9	140 W	35	74
5 1	16 32.00	−10 26.7	1.638	2.565	11.1	20.6	151 W	35	74
5 11	16 22.05	−10 58.1	1.554	2.533	7.2	20.3	162 W	34	75
5 21	16 9.90	−11 38.9	1.496	2.500	3.9	20.0	170 W	33	76
5 31	15 56.64	−12 29.3	1.467	2.466	5.2	20.0	167 E	33	76
6 10	15 43.63	−13 28.8	1.466	2.431	9.5	20.2	157 E	32	77
6 20	15 32.19	−14 36.2	1.490	2.396	14.0	20.4	145 E	30	79
6 30	15 23.36	−15 50.6	1.537	2.360	18.0	20.5	134 E	29	80
7 10	15 17.75	−17 10.8	1.601	2.324	21.4	20.7	124 E	28*	81
7 20	15 15.54	−18 36.1	1.677	2.287	24.0	20.8	114 E	25*	83
7 30	15 16.70	−20 5.6	1.761	2.249	25.8	21.0	105 E	22*	84
8 9	15 21.01	−21 38.3	1.848	2.212	27.1	21.1	97 E	20*	86
8 19	15 28.22	−23 13.3	1.936	2.173	27.8	21.2	89 E	17*	83*
8 29	15 38.13	−24 49.2	2.022	2.135	28.0	21.2	82 E	15*	76*
9 8	15 50.50	−26 24.7	2.103	2.096	27.8	21.3	76 E	12*	69*
9 18	16 5.19	−27 58.1	2.180	2.058	27.2	21.3	70 E	10*	63*
9 28	16 22.10	−29 27.7	2.249	2.019	26.5	21.3	64 E	9*	57*
10 8	16 41.10	−30 51.4	2.311	1.981	25.5	21.3	58 E	7*	52*
10 18	17 2.13	−32 6.9	2.364	1.943	24.3	21.2	53 E	6*	47*
10 28	17 25.13	−33 11.8	2.410	1.905	23.0	21.2	49 E	5*	42*
11 7	17 49.96	−34 3.4	2.447	1.869	21.7	21.2	44 E	4*	38*
11 17	18 16.52	−34 39.0	2.477	1.833	20.3	21.1	40 E	3*	34*
11 27	18 44.60	−34 56.0	2.499	1.799	18.9	21.0	36 E	3*	30*
12 7	19 13.96	−34 51.7	2.514	1.766	17.5	21.0	33 E	2*	27*
12 17	19 44.32	−34 24.3	2.524	1.735	16.2	20.9	29 E	2*	23*
12 27	20 15.33	−33 32.3	2.529	1.706	14.9	20.8	27 E	1*	20*
1 6	20 46.65	−32 15.2	2.530	1.679	13.8	20.7	24 E	—	18*
1 16	21 17.97	−30 33.1	2.528	1.655	12.7	20.7	22 E	—	16*
130480 2000 QE_{97}									
4 1	16 45.34	−21 31.0	2.322	2.936	17.4	21.5	119 W	23	86
4 11	16 44.16	−21 32.6	2.199	2.934	15.4	21.3	129 W	23	86
4 21	16 40.27	−21 30.0	2.091	2.930	12.9	21.1	140 W	23	86
5 1	16 33.78	−21 22.6	2.004	2.925	9.7	20.9	151 W	24	85
5 11	16 25.10	−21 10.2	1.940	2.919	6.0	20.6	163 W	24	85
5 21	16 14.92	−20 53.2	1.903	2.912	1.9	20.3	175 W	24	85
5 26	16 9.56	−20 43.2	1.896	2.909	0.2	20.2	179 E	24	85
5 31	16 4.21	−20 32.7	1.895	2.905	2.3	20.4	173 E	24	85
6 5	15 58.98	−20 22.0	1.902	2.901	4.4	20.5	167 E	25	84
6 10	15 54.02	−20 11.4	1.916	2.896	6.4	20.6	161 E	25	84
6 15	15 49.42	−20 1.3	1.936	2.891	8.4	20.7	155 E	25	84
6 20	15 45.28	−19 52.2	1.963	2.887	10.2	20.8	150 E	25	84
6 25	15 41.68	−19 44.3	1.996	2.881	11.9	20.9	144 E	25	84
6 30	15 38.69	−19 38.0	2.034	2.876	13.5	21.0	139 E	25	84
7 5	15 36.33	−19 33.5	2.076	2.870	14.9	21.1	133 E	25	84

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
130480 2000 QE_{97} *(continuation)*									
7 10	15 34.63	−19 30.9	2.123	2.865	16.2	21.2	128 E	25*	84
7 15	15 33.59	−19 30.4	2.174	2.858	17.3	21.3	123 E	25*	84
7 20	15 33.20	−19 32.0	2.227	2.852	18.3	21.4	118 E	25*	84
7 25	15 33.45	−19 35.6	2.283	2.846	19.1	21.4	114 E	24*	84
361548 2007 PS_{42}									
4 1	16 55.71	−13 11.1	1.485	2.132	24.7	21.4	117 W	32	77
4 11	17 1.41	−12 31.4	1.356	2.099	23.0	21.2	125 W	32	77
4 21	17 4.17	−11 44.9	1.238	2.066	20.5	20.9	134 W	33	76
5 1	17 3.61	−10 54.3	1.134	2.033	17.3	20.5	143 W	34	75
5 11	16 59.63	−10 3.8	1.047	2.000	13.3	20.2	153 W	35	74
5 16	16 56.41	− 9 40.1	1.011	1.983	11.3	20.0	157 W	35	74
5 21	16 52.47	− 9 18.4	0.980	1.967	9.3	19.8	162 W	36	73
5 26	16 47.92	− 8 59.6	0.954	1.950	7.7	19.7	165 W	36	73
5 31	16 42.93	− 8 44.5	0.933	1.934	7.0	19.6	167 W	36	73
6 5	16 37.70	− 8 33.8	0.919	1.918	7.6	19.6	166 E	36	73
6 10	16 32.43	− 8 28.1	0.909	1.902	9.3	19.6	162 E	37	72
6 20	16 22.61	− 8 33.5	0.906	1.870	14.1	19.7	153 E	36	73
6 30	16 15.09	− 9 2.1	0.921	1.840	19.3	19.9	143 E	36	73
7 10	16 11.00	− 9 52.2	0.952	1.810	24.0	20.1	134 E	35	74
7 20	16 10.89	−10 59.9	0.994	1.781	27.9	20.3	125 E	34	75
7 30	16 14.88	−12 20.5	1.046	1.754	31.1	20.5	117 E	32*	76
8 9	16 22.79	−13 48.9	1.103	1.729	33.6	20.6	109 E	31*	78
8 19	16 34.29	−15 20.4	1.165	1.706	35.3	20.7	103 E	29*	79
8 29	16 49.05	−16 50.4	1.229	1.684	36.5	20.9	97 E	27*	81
9 8	17 6.69	−18 14.8	1.295	1.665	37.2	21.0	92 E	25*	81*
9 18	17 26.88	−19 29.7	1.361	1.648	37.5	21.1	87 E	24*	79*
9 28	17 49.31	−20 31.5	1.429	1.634	37.4	21.2	82 E	23*	75*
10 8	18 13.62	−21 17.0	1.498	1.623	37.1	21.2	78 E	23*	71*
10 18	18 39.47	−21 43.6	1.567	1.615	36.5	21.3	74 E	22*	67*
10 28	19 6.52	−21 49.4	1.638	1.610	35.6	21.4	71 E	22*	63*
11 7	19 34.38	−21 33.3	1.709	1.608	34.6	21.4	67 E	23*	59*
11 17	20 2.71	−20 54.9	1.782	1.609	33.4	21.5	64 E	23*	54*
378100 2006 UZ_{171}									
4 1	17 1.94	−20 5.3	1.443	2.074	25.9	21.5	115 W	25	84
4 11	17 10.03	−18 50.1	1.309	2.037	24.4	21.2	123 W	26	83
4 21	17 15.33	−17 15.3	1.187	2.000	22.1	20.8	132 W	28	81
5 1	17 17.41	−15 20.5	1.079	1.964	19.0	20.5	141 W	30	79
5 11	17 16.08	−13 7.5	0.987	1.929	15.3	20.1	150 W	32	77
5 16	17 14.15	−11 55.6	0.949	1.911	13.2	20.0	154 W	33	76
5 21	17 11.45	−10 41.1	0.915	1.894	11.2	19.8	159 W	34	75
5 26	17 8.05	− 9 25.5	0.887	1.877	9.5	19.6	162 W	36	73
5 31	17 4.12	− 8 10.4	0.864	1.860	8.5	19.5	164 W	37	72
6 5	16 59.83	− 6 57.3	0.847	1.844	8.6	19.5	164 W	38	71
6 10	16 55.37	− 5 48.2	0.835	1.828	9.7	19.5	162 E	39	70
6 15	16 50.93	− 4 44.6	0.828	1.812	11.7	19.5	159 E	40	69
6 20	16 46.74	− 3 48.1	0.826	1.797	14.2	19.6	154 E	41	68
6 25	16 42.99	− 2 59.9	0.829	1.782	16.7	19.6	150 E	42	67
6 30	16 39.89	− 2 20.7	0.836	1.768	19.3	19.7	145 E	43	66
7 10	16 36.12	− 1 30.1	0.862	1.740	24.1	19.9	136 E	43	66
7 20	16 36.08	− 1 14.4	0.899	1.715	28.2	20.1	127 E	44	65
7 30	16 40.02	− 1 28.2	0.945	1.693	31.5	20.3	119 E	44	65
8 4	16 43.46	− 1 43.8	0.970	1.682	32.9	20.3	116 E	43*	66
8 9	16 47.81	− 2 4.1	0.997	1.673	34.0	20.4	113 E	43*	66
8 14	16 53.03	− 2 28.1	1.024	1.664	35.0	20.5	109 E	42*	66
8 19	16 59.09	− 2 55.0	1.053	1.655	35.9	20.6	107 E	42*	67
8 24	17 5.95	− 3 24.1	1.082	1.648	36.6	20.6	104 E	41*	67
8 29	17 13.55	− 3 54.5	1.112	1.641	37.1	20.7	101 E	41*	68
9 3	17 21.83	− 4 25.4	1.143	1.636	37.6	20.8	99 E	40*	68
9 8	17 30.76	− 4 56.3	1.174	1.631	37.9	20.8	96 E	40*	69
9 13	17 40.28	− 5 26.6	1.206	1.627	38.1	20.9	94 E	39*	69*
9 18	17 50.36	− 5 55.7	1.238	1.623	38.2	20.9	92 E	39*	70*
9 23	18 0.95	− 6 23.0	1.271	1.621	38.2	21.0	90 E	38*	69*
9 28	18 12.01	− 6 48.1	1.305	1.619	38.2	21.1	88 E	38*	69*
10 3	18 23.49	− 7 10.4	1.340	1.619	38.1	21.1	86 E	37*	68*
10 8	18 35.34	− 7 29.7	1.375	1.619	37.9	21.2	84 E	37*	67*
10 13	18 47.53	− 7 45.6	1.411	1.620	37.6	21.2	83 E	37*	66*
10 18	19 0.01	− 7 57.8	1.448	1.622	37.3	21.3	81 E	37*	64*
10 23	19 12.76	− 8 6.0	1.486	1.625	37.0	21.3	79 E	37*	62*
10 28	19 25.71	− 8 10.1	1.524	1.629	36.5	21.4	77 E	37*	61*
11 2	19 38.83	− 8 10.0	1.564	1.634	36.1	21.4	76 E	37*	59*
11 7	19 52.09	− 8 5.5	1.605	1.639	35.6	21.5	74 E	37*	57*
200701 2001 UN_{79}									
4 1	17 2.95	−33 11.0	1.888	2.459	21.9	21.4	113 W	12	83
4 11	17 1.53	−34 58.4	1.804	2.492	19.8	21.3	123 W	10	81
4 21	16 56.22	−36 43.8	1.734	2.525	17.0	21.1	133 W	8	79
5 1	16 46.96	−38 21.2	1.682	2.557	13.9	21.0	143 W	7	78

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
200701 2001 UN_{79} *(continuation)*									
5 11	16 34.23	−39 42.5	1.653	2.588	10.6	20.8	152 W	5	76
5 21	16 19.13	−40 40.3	1.649	2.618	8.1	20.7	159 W	4	75
5 31	16 3.31	−41 10.3	1.672	2.647	7.6	20.8	160 E	4	75
6 10	15 48.61	−41 14.1	1.722	2.675	9.4	20.9	155 E	4	75
6 20	15 36.49	−40 57.9	1.797	2.701	12.1	21.2	146 E	4	75
6 30	15 27.85	−40 30.2	1.895	2.727	14.7	21.4	137 E	4	75
32906 1994 RH									
4 1	17 7.77	−45 20.7	2.761	3.237	16.9	21.5	110 W	—	71
4 6	17 7.53	−45 53.4	2.698	3.238	16.4	21.4	114 W	—	70
4 11	17 6.49	−46 25.2	2.638	3.238	15.8	21.3	118 W	—	70
4 16	17 4.62	−46 55.6	2.581	3.238	15.1	21.2	123 W	—	69
4 21	17 1.88	−47 24.1	2.527	3.237	14.3	21.2	127 W	—	69
4 26	16 58.28	−47 49.8	2.478	3.236	13.4	21.1	132 W	—	68
5 1	16 53.84	−48 12.2	2.433	3.235	12.5	21.0	136 W	—	68
5 6	16 48.63	−48 30.3	2.393	3.234	11.5	20.9	140 W	—	67
5 11	16 42.72	−48 43.5	2.359	3.232	10.6	20.9	144 W	—	67
5 16	16 36.22	−48 51.0	2.331	3.230	9.7	20.8	148 W	—	67
5 21	16 29.28	−48 52.3	2.309	3.227	8.9	20.8	150 W	—	67
5 26	16 22.07	−48 47.1	2.293	3.225	8.4	20.7	152 W	—	67
5 31	16 14.79	−48 35.1	2.285	3.222	8.2	20.7	153 E	—	67
6 5	16 7.62	−48 16.8	2.283	3.218	8.3	20.7	153 E	—	68
6 10	16 0.75	−47 52.5	2.288	3.215	8.7	20.7	151 E	—	68
6 15	15 54.34	−47 22.9	2.299	3.211	9.4	20.8	149 E	—	69
6 20	15 48.52	−46 48.9	2.317	3.207	10.3	20.8	146 E	—	69
6 25	15 43.39	−46 11.5	2.340	3.202	11.3	20.9	142 E	—	70
6 30	15 39.05	−45 31.8	2.370	3.197	12.3	20.9	138 E	—	70
7 5	15 35.53	−44 50.7	2.405	3.192	13.3	21.0	134 E	—	71
7 10	15 32.83	−44 9.2	2.444	3.186	14.3	21.1	129 E	1*	72
7 15	15 30.95	−43 28.0	2.488	3.181	15.2	21.1	125 E	1*	73
7 20	15 29.88	−42 48.0	2.536	3.174	16.0	21.2	120 E	2*	73
7 25	15 29.59	−42 9.5	2.587	3.168	16.7	21.3	116 E	2*	74
7 30	15 30.04	−41 33.0	2.640	3.161	17.3	21.3	112 E	2*	74
8 4	15 31.18	−40 58.9	2.696	3.154	17.9	21.4	108 E	2*	75
8 9	15 32.97	−40 27.3	2.754	3.147	18.3	21.4	103 E	2*	76
8 14	15 35.37	−39 58.1	2.813	3.139	18.6	21.5	99 E	2*	76
85848 1998 YP_{29}									
4 1	17 9.02	−31 13.9	1.816	2.381	22.9	21.4	112 W	14	85
4 11	17 13.67	−31 44.1	1.675	2.352	21.5	21.1	121 W	13	84
4 21	17 15.18	−32 10.3	1.545	2.322	19.3	20.9	130 W	13	84
5 1	17 13.12	−32 30.4	1.428	2.292	16.5	20.6	140 W	12	83
5 11	17 7.36	−32 40.9	1.328	2.261	12.8	20.2	150 W	12	83
5 16	17 3.13	−32 41.2	1.286	2.245	10.8	20.1	155 W	12	83
5 21	16 58.12	−32 37.2	1.249	2.229	8.6	19.9	161 W	12	83
5 26	16 52.44	−32 28.6	1.218	2.213	6.6	19.8	166 W	13	84
5 31	16 46.28	−32 14.9	1.193	2.197	5.0	19.6	169 W	13	84
6 5	16 39.85	−31 56.2	1.174	2.181	4.6	19.5	170 E	13	84
6 10	16 33.38	−31 32.6	1.162	2.165	5.7	19.6	168 E	13	84
6 15	16 27.10	−31 4.8	1.156	2.148	7.9	19.6	163 E	14	85
6 20	16 21.23	−30 33.5	1.155	2.132	10.3	19.7	158 E	14	85
6 25	16 15.98	−29 59.8	1.161	2.115	12.8	19.8	153 E	15	86
6 30	16 11.53	−29 24.9	1.171	2.098	15.3	19.9	147 E	16	87
7 5	16 7.99	−28 50.0	1.186	2.082	17.6	20.0	142 E	16	87
7 10	16 5.43	−28 16.0	1.206	2.065	19.9	20.1	136 E	17	88
7 20	16 3.39	−27 13.9	1.256	2.031	23.7	20.2	126 E	18*	89
7 30	16 5.45	−26 22.9	1.317	1.997	26.9	20.4	117 E	18*	90
8 9	16 11.32	−25 44.0	1.384	1.964	29.2	20.5	109 E	18*	90
8 19	16 20.59	−25 15.8	1.456	1.931	30.9	20.7	101 E	18*	89
8 29	16 32.89	−24 55.9	1.530	1.898	32.0	20.8	94 E	18*	88*
9 8	16 47.81	−24 40.9	1.603	1.865	32.7	20.9	88 E	18*	82*
9 18	17 5.04	−24 27.2	1.675	1.834	32.9	20.9	82 E	18*	76*
9 28	17 24.30	−24 11.4	1.745	1.803	32.8	21.0	77 E	18*	71*
10 8	17 45.29	−23 50.1	1.811	1.774	32.3	21.0	72 E	19*	65*
10 18	18 7.79	−23 20.4	1.875	1.746	31.7	21.0	67 E	19*	60*
10 28	18 31.55	−22 39.7	1.934	1.719	30.9	21.0	63 E	20*	55*
11 7	18 56.32	−21 45.7	1.990	1.694	29.9	21.0	58 E	21*	50*
11 17	19 21.89	−20 37.1	2.043	1.672	28.7	21.0	54 E	22*	45*
11 27	19 48.06	−19 12.6	2.092	1.651	27.5	21.0	51 E	23*	40*
12 7	20 14.60	−17 32.0	2.139	1.633	26.1	21.0	47 E	23*	35*
12 17	20 41.36	−15 35.6	2.184	1.618	24.7	21.0	43 E	24*	30*
12 27	21 8.21	−13 24.2	2.226	1.605	23.3	21.0	40 E	24*	25*
1 6	21 35.04	−10 59.2	2.268	1.596	21.8	20.9	37 E	24*	21*
1 16	22 1.79	− 8 22.5	2.308	1.590	20.2	20.9	34 E	23*	17*
425528 2010 OJ									
4 1	17 13.26	− 5 46.2	1.909	2.471	21.9	21.3	113 W	39	70
4 11	17 15.62	− 5 43.5	1.764	2.438	20.6	21.1	121 W	39	70
4 21	17 15.11	− 5 45.6	1.629	2.405	18.5	20.8	130 W	39	70
5 1	17 11.40	− 5 56.8	1.508	2.372	15.8	20.5	140 W	39	70

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
425528 2010 OJ *(continuation)*									
5 11	17 4.40	− 6 21.5	1.405	2.337	12.4	20.2	150 W	39	70
5 21	16 54.34	− 7 3.6	1.325	2.302	8.7	19.9	160 W	38	71
5 31	16 41.92	− 8 5.7	1.269	2.266	6.2	19.7	166 W	37	72
6 10	16 28.41	− 9 27.7	1.241	2.230	7.8	19.7	163 E	36	73
6 15	16 21.71	−10 15.4	1.236	2.212	9.8	19.7	158 E	35	74
6 20	16 15.30	−11 6.9	1.238	2.194	12.0	19.8	153 E	34	75
6 25	16 9.37	−12 1.6	1.246	2.176	14.4	19.9	148 E	33	76
6 30	16 4.09	−12 59.0	1.260	2.157	16.7	20.0	142 E	32	77
7 5	15 59.58	−13 58.3	1.279	2.139	18.9	20.0	137 E	31	78
7 10	15 55.93	−14 59.1	1.302	2.120	20.9	20.1	132 E	30	79
7 20	15 51.39	−17 3.4	1.359	2.083	24.5	20.3	122 E	28*	81
7 30	15 50.72	−19 9.2	1.428	2.046	27.3	20.4	113 E	25*	83
8 9	15 53.79	−21 14.6	1.503	2.009	29.3	20.6	104 E	22*	85
8 19	16 0.38	−23 17.9	1.582	1.972	30.7	20.7	97 E	19*	87
8 29	16 10.25	−25 17.8	1.661	1.936	31.4	20.8	89 E	17*	83*
9 8	16 23.14	−27 12.7	1.738	1.900	31.8	20.8	83 E	14*	77*
9 18	16 38.85	−29 0.9	1.812	1.865	31.7	20.9	77 E	12*	71*
9 28	16 57.23	−30 40.4	1.882	1.831	31.3	20.9	72 E	10*	65*
10 8	17 18.10	−32 8.6	1.947	1.798	30.6	20.9	66 E	9*	60*
10 18	17 41.33	−33 22.8	2.006	1.767	29.8	20.9	62 E	8*	55*
10 28	18 6.74	−34 20.2	2.059	1.737	28.8	20.9	57 E	7*	51*
11 7	18 34.10	−34 57.9	2.106	1.710	27.7	20.9	53 E	7*	47*
11 17	19 3.14	−35 12.9	2.148	1.684	26.5	20.9	50 E	6*	44*
11 27	19 33.51	−35 2.8	2.186	1.661	25.3	20.9	46 E	6*	40*
12 7	20 4.79	−34 26.0	2.219	1.641	24.1	20.8	43 E	7*	37*
12 17	20 36.58	−33 21.6	2.249	1.623	22.9	20.8	40 E	7*	34*
12 27	21 8.45	−31 49.7	2.277	1.609	21.7	20.8	37 E	7*	31*
1 6	21 40.05	−29 51.9	2.304	1.598	20.6	20.7	35 E	8*	28*
1 16	22 11.12	−27 30.2	2.330	1.591	19.4	20.7	32 E	8*	26*
394066 2005 XU_{77}									
4 1	17 16.84	−10 10.7	3.249	3.736	14.4	21.4	112 W	35	74
4 11	17 16.75	− 9 57.2	3.079	3.700	13.4	21.3	121 W	35	74
4 21	17 14.70	− 9 44.1	2.923	3.663	11.9	21.1	131 W	35	74
5 1	17 10.64	− 9 32.8	2.784	3.626	10.0	20.9	141 W	35	74
5 11	17 4.69	− 9 25.0	2.668	3.587	7.7	20.7	151 W	36	73
5 21	16 57.11	− 9 22.3	2.576	3.548	5.4	20.4	161 W	36	73
5 31	16 48.38	− 9 26.2	2.513	3.508	3.7	20.3	167 W	36	73
6 10	16 39.13	− 9 37.8	2.479	3.468	4.5	20.3	164 E	35	74
6 20	16 30.08	− 9 57.6	2.474	3.426	7.0	20.4	156 E	35	74
6 30	16 21.94	−10 25.9	2.497	3.384	9.8	20.5	145 E	35	74
7 10	16 15.29	−11 2.1	2.543	3.341	12.4	20.6	135 E	34	75
7 20	16 10.54	−11 45.4	2.608	3.297	14.6	20.7	125 E	33	76
7 30	16 7.93	−12 34.8	2.689	3.252	16.4	20.8	115 E	32*	77
8 9	16 7.52	−13 28.9	2.779	3.207	17.7	20.9	106 E	30*	77
8 19	16 9.28	−14 26.7	2.876	3.161	18.5	20.9	97 E	28*	78
8 29	16 13.12	−15 27.0	2.975	3.114	18.9	21.0	88 E	26*	78*
9 8	16 18.88	−16 28.5	3.072	3.066	18.9	21.0	80 E	24*	72*
9 18	16 26.43	−17 30.3	3.164	3.018	18.5	21.1	72 E	22*	66*
9 28	16 35.63	−18 31.3	3.250	2.969	17.8	21.1	65 E	20*	58*
10 8	16 46.34	−19 30.4	3.326	2.919	16.8	21.0	58 E	18*	51*
10 18	16 58.45	−20 26.7	3.392	2.868	15.6	21.0	51 E	16*	44*
10 28	17 11.86	−21 19.2	3.445	2.817	14.2	20.9	44 E	14*	37*
11 7	17 26.47	−22 7.1	3.485	2.766	12.6	20.9	38 E	12*	30*
11 17	17 42.19	−22 49.4	3.512	2.714	10.8	20.8	31 E	10*	24*
11 27	17 58.94	−23 25.4	3.524	2.661	9.0	20.7	25 E	8*	17*
12 7	18 16.65	−23 54.2	3.521	2.608	7.0	20.5	19 E	5*	11*
12 17	18 35.24	−24 15.1	3.504	2.554	4.9	20.4	13 E	2*	6*
12 27	18 54.63	−24 27.5	3.473	2.500	2.8	20.2	7 E	—	1*
1 6	19 14.76	−24 30.9	3.428	2.446	1.0	20.0	3 E	—	—
1 16	19 35.56	−24 25.0	3.370	2.392	2.0	20.0	5 W	—	—
368284 2002 NH_{31}									
4 1	17 23.62	−27 25.0	1.953	2.473	22.4	21.5	109 W	18	89
4 11	17 29.06	−27 18.8	1.803	2.440	21.2	21.3	118 W	18	89
4 21	17 31.72	−27 6.4	1.662	2.408	19.4	21.0	127 W	18	89
5 1	17 31.22	−26 46.8	1.535	2.374	16.8	20.7	137 W	18	89
5 11	17 27.40	−26 18.7	1.424	2.341	13.3	20.4	148 W	19	90
5 21	17 20.35	−25 40.3	1.333	2.306	9.1	20.0	159 W	19	90
5 26	17 15.76	−25 16.8	1.296	2.289	6.7	19.9	165 W	20	89
5 31	17 10.63	−24 50.4	1.265	2.272	4.1	19.7	171 W	20	89
6 5	17 5.11	−24 21.3	1.241	2.254	1.5	19.4	177 W	21	88
6 10	16 59.38	−23 49.8	1.223	2.237	1.5	19.4	177 E	21	88
6 15	16 53.63	−23 16.5	1.211	2.219	4.2	19.5	171 E	22	87
6 20	16 48.06	−22 42.0	1.205	2.202	7.0	19.6	165 E	22	87
6 25	16 42.86	−22 7.2	1.206	2.184	9.8	19.7	159 E	23	86
6 30	16 38.21	−21 33.1	1.213	2.167	12.5	19.8	153 E	23	86
7 5	16 34.26	−21 0.3	1.224	2.149	15.0	19.9	147 E	24	85
7 10	16 31.10	−20 29.6	1.241	2.131	17.4	20.0	141 E	25	84

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
368284 2002 NH_{31} *(continuation)*									
7 20	16 27.43	−19 36.8	1.286	2.096	21.5	20.2	131 E	25	84
7 30	16 27.48	−18 57.1	1.345	2.061	24.9	20.4	121 E	26*	83
8 9	16 31.15	−18 30.6	1.411	2.027	27.6	20.5	112 E	26*	83
8 19	16 38.18	−18 15.2	1.484	1.992	29.5	20.6	104 E	26*	82
8 29	16 48.26	−18 8.3	1.559	1.959	30.8	20.7	97 E	26*	82
9 8	17 1.02	−18 6.4	1.634	1.926	31.5	20.8	90 E	25*	81*
9 18	17 16.16	−18 6.2	1.709	1.894	31.9	20.9	84 E	25*	76*
9 28	17 33.40	−18 4.3	1.781	1.864	31.8	21.0	79 E	25*	71*
10 8	17 52.48	−17 57.6	1.850	1.835	31.5	21.0	73 E	25*	65*
10 18	18 13.16	−17 43.4	1.917	1.807	30.9	21.0	68 E	25*	60*
10 28	18 35.23	−17 19.2	1.979	1.781	30.1	21.0	64 E	25*	55*
11 7	18 58.44	−16 43.1	2.039	1.757	29.1	21.0	59 E	26*	49*
11 17	19 22.61	−15 53.4	2.095	1.735	28.0	21.0	55 E	26*	44*
11 27	19 47.54	−14 49.1	2.147	1.716	26.7	21.0	51 E	27*	38*
12 7	20 13.02	−13 29.9	2.198	1.699	25.4	21.0	48 E	27*	33*
12 17	20 38.89	−11 55.8	2.246	1.685	24.0	21.0	44 E	27*	28*
12 27	21 5.01	−10 7.5	2.292	1.674	22.5	21.0	41 E	27*	23*
1 6	21 31.24	− 8 6.4	2.337	1.666	21.0	21.0	37 E	26*	19*
1 16	21 57.52	− 5 53.9	2.381	1.661	19.4	21.0	34 E	25*	15*
209949 2006 FH_{12}									
4 1	17 44.71	−20 51.2	1.846	2.316	24.6	21.4	105 W	24	85
4 11	17 52.60	−20 32.7	1.700	2.286	23.8	21.2	113 W	24	85
4 21	17 58.03	−20 10.2	1.561	2.255	22.3	20.9	121 W	25	84
5 1	18 0.56	−19 44.7	1.433	2.224	20.1	20.6	131 W	25	84
5 11	17 59.86	−19 17.4	1.318	2.192	17.1	20.3	140 W	26	83
5 21	17 55.75	−18 49.2	1.220	2.161	13.2	20.0	151 W	26	83
5 31	17 48.38	−18 21.2	1.142	2.128	8.6	19.6	162 W	27	82
6 10	17 38.44	−17 54.4	1.086	2.096	3.7	19.2	172 W	27	82
6 15	17 32.86	−17 42.1	1.067	2.080	2.7	19.1	174 E	27	82
6 20	17 27.12	−17 30.7	1.054	2.064	4.3	19.2	171 E	27	82
6 25	17 21.45	−17 20.7	1.047	2.047	6.9	19.3	166 E	28	81
6 30	17 16.05	−17 12.3	1.045	2.031	9.8	19.4	160 E	28	81
7 5	17 11.14	−17 6.0	1.049	2.015	12.6	19.5	154 E	28	81
7 10	17 6.87	−17 2.0	1.059	1.999	15.3	19.6	149 E	28	81
7 20	17 0.79	−17 1.4	1.090	1.967	20.2	19.8	138 E	28	81
7 30	16 58.53	−17 11.0	1.137	1.935	24.4	19.9	128 E	28	81
8 9	17 0.29	−17 29.8	1.193	1.904	27.8	20.1	119 E	28	81
8 19	17 5.90	−17 55.3	1.257	1.873	30.3	20.3	111 E	27*	82
8 29	17 15.11	−18 24.6	1.326	1.844	32.2	20.4	103 E	26*	82
9 8	17 27.50	−18 54.4	1.396	1.815	33.5	20.5	97 E	26*	83
9 18	17 42.71	−19 21.2	1.467	1.788	34.2	20.6	91 E	25*	82*
9 28	18 0.41	−19 41.9	1.538	1.762	34.5	20.7	85 E	25*	77*
10 8	18 20.24	−19 53.4	1.607	1.737	34.5	20.8	80 E	24*	72*
10 18	18 41.90	−19 53.0	1.675	1.715	34.2	20.8	75 E	24*	67*
10 28	19 5.09	−19 38.6	1.742	1.694	33.6	20.9	71 E	25*	62*
11 7	19 29.49	−19 8.2	1.806	1.676	32.8	20.9	66 E	25*	57*
11 17	19 54.85	−18 21.0	1.869	1.660	31.8	20.9	62 E	26*	52*
11 27	20 20.90	−17 16.2	1.931	1.647	30.7	20.9	59 E	26*	47*
12 7	20 47.37	−15 54.2	1.991	1.637	29.5	21.0	55 E	27*	41*
12 17	21 14.10	−14 15.7	2.050	1.629	28.2	21.0	51 E	28*	37*
12 27	21 40.90	−12 22.2	2.109	1.625	26.7	21.0	48 E	28*	32*
1 6	22 7.64	−10 15.5	2.168	1.623	25.2	21.0	45 E	28*	28*
1 16	22 34.25	− 7 58.0	2.226	1.624	23.6	21.0	41 E	28*	24*
155341 2006 SA_{218}									
4 1	17 46.10	+ 2 52.8	1.309	1.826	32.1	21.5	104 W	48	61
4 11	17 52.89	+ 4 57.9	1.222	1.831	30.9	21.3	110 W	50	59
4 21	17 56.16	+ 7 8.5	1.141	1.834	29.1	21.1	117 W	52	57
5 1	17 55.42	+ 9 17.4	1.066	1.834	27.0	20.9	124 W	54	55
5 11	17 50.36	+11 14.2	1.002	1.833	24.4	20.7	131 W	56	53
5 21	17 41.02	+12 46.0	0.951	1.830	21.9	20.5	137 W	58	51
5 26	17 34.91	+13 17.8	0.931	1.827	20.9	20.4	140 W	58	51
5 31	17 28.03	+13 37.7	0.916	1.824	20.0	20.3	142 W	59	50
6 5	17 20.59	+13 44.4	0.904	1.821	19.6	20.3	143 W	59	50
6 10	17 12.84	+13 37.0	0.898	1.817	19.5	20.2	143 E	59	50
6 15	17 5.02	+13 15.1	0.896	1.812	19.8	20.2	143 E	58	51
6 20	16 57.42	+12 39.0	0.898	1.807	20.6	20.3	141 E	58	51
6 25	16 50.29	+11 49.4	0.906	1.801	21.7	20.3	139 E	57	52
6 30	16 43.85	+10 47.7	0.917	1.795	23.1	20.4	136 E	56	53
7 5	16 38.29	+ 9 35.9	0.933	1.788	24.6	20.5	133 E	55	54
7 10	16 33.71	+ 8 15.7	0.952	1.781	26.1	20.5	130 E	53	56
7 15	16 30.19	+ 6 49.0	0.974	1.773	27.7	20.6	126 E	52	57
7 20	16 27.77	+ 5 17.7	1.000	1.765	29.1	20.7	122 E	50	59
7 25	16 26.45	+ 3 43.1	1.028	1.756	30.5	20.8	119 E	49	60
7 30	16 26.21	+ 2 6.9	1.058	1.747	31.8	20.9	115 E	47*	62
8 4	16 27.01	+ 0 30.0	1.090	1.737	33.0	21.0	111 E	45*	63
8 9	16 28.79	− 1 6.4	1.123	1.727	34.0	21.1	108 E	43*	65
8 14	16 31.51	− 2 41.7	1.158	1.717	34.9	21.1	104 E	41*	67
8 19	16 35.11	− 4 15.4	1.193	1.705	35.6	21.2	101 E	40*	68

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
155341 2006 SA_{218} *(continuation)*									
8 24	16 39.55	− 5 46.9	1.229	1.694	36.3	21.3	98 E	38*	70
8 29	16 44.77	− 7 15.8	1.265	1.682	36.8	21.3	95 E	36*	71
9 3	16 50.73	− 8 41.7	1.301	1.669	37.2	21.4	92 E	34*	73*
9 8	16 57.38	−10 4.6	1.337	1.656	37.5	21.4	89 E	33*	73*
9 13	17 4.69	−11 24.0	1.373	1.643	37.7	21.5	86 E	31*	73*
506409 2017 SF_{13}									
4 1	17 46.63	−14 43.8	1.260	1.794	32.6	21.4	105 W	30	79
4 11	18 2.72	−14 0.9	1.149	1.768	32.1	21.2	110 W	31	78
4 21	18 16.94	−13 10.1	1.046	1.743	31.1	20.9	116 W	32	77
5 1	18 28.79	−12 14.9	0.950	1.720	29.4	20.7	123 W	33	76
5 11	18 37.85	−11 20.2	0.864	1.700	27.1	20.4	130 W	34	75
5 16	18 41.20	−10 54.7	0.825	1.690	25.6	20.2	134 W	34	75
5 21	18 43.68	−10 31.7	0.789	1.681	24.0	20.0	138 W	34	75
5 26	18 45.26	−10 11.9	0.755	1.673	22.1	19.9	142 W	35	74
5 31	18 45.94	− 9 56.5	0.725	1.665	20.0	19.7	146 W	35	74
6 5	18 45.73	− 9 46.2	0.699	1.658	17.8	19.5	150 W	35	74
6 10	18 44.69	− 9 41.8	0.676	1.651	15.4	19.4	154 W	35	74
6 15	18 42.88	− 9 44.1	0.657	1.645	13.0	19.2	159 W	35	74
6 20	18 40.43	− 9 53.5	0.642	1.640	10.6	19.1	163 W	35	74
6 30	18 34.32	−10 34.4	0.625	1.632	7.8	18.9	167 E	34	75
7 10	18 28.11	−11 41.9	0.625	1.627	9.8	19.0	164 E	33	76
7 20	18 23.56	−13 8.7	0.643	1.625	14.6	19.2	156 E	32	77
7 25	18 22.39	−13 56.4	0.658	1.625	17.2	19.4	152 E	31	78
7 30	18 22.15	−14 45.2	0.676	1.626	19.7	19.5	147 E	30	79
8 4	18 22.90	−15 34.0	0.698	1.628	22.0	19.6	143 E	29	80
8 9	18 24.68	−16 21.8	0.724	1.630	24.1	19.8	139 E	29	80
8 14	18 27.46	−17 7.6	0.752	1.633	26.1	19.9	135 E	28	81
8 19	18 31.25	−17 50.8	0.784	1.637	27.8	20.1	131 E	27	82
8 29	18 41.63	−19 6.6	0.854	1.647	30.6	20.4	124 E	26	83
9 8	18 55.30	−20 5.7	0.934	1.660	32.6	20.6	117 E	25	84
9 18	19 11.61	−20 45.9	1.022	1.675	33.9	20.9	111 E	24	85
9 28	19 30.03	−21 6.1	1.118	1.693	34.7	21.1	106 E	24	85
10 8	19 49.97	−21 6.1	1.220	1.713	35.0	21.3	101 E	24	85
250308 2003 QT_{67}									
4 1	17 47.31	−18 46.9	1.639	2.121	27.1	21.4	104 W	26	83
4 11	17 58.11	−18 20.5	1.500	2.089	26.5	21.2	112 W	27	82
4 21	18 6.70	−17 48.8	1.368	2.056	25.2	20.9	119 W	27	82
5 1	18 12.64	−17 13.5	1.245	2.023	23.3	20.6	128 W	28	81
5 11	18 15.54	−16 37.0	1.135	1.991	20.5	20.3	136 W	28	81
5 21	18 15.04	−16 1.7	1.038	1.959	16.9	19.9	146 W	29	80
5 31	18 11.04	−15 30.7	0.958	1.928	12.5	19.6	156 W	29	80
6 10	18 3.94	−15 6.8	0.897	1.897	7.6	19.2	166 W	30	79
6 15	17 59.50	−14 58.4	0.874	1.882	5.5	19.0	170 W	30	79
6 20	17 54.67	−14 52.8	0.857	1.868	4.6	18.9	171 E	30	79
6 25	17 49.67	−14 50.2	0.845	1.853	5.8	18.9	169 E	30	79
6 30	17 44.75	−14 50.9	0.838	1.839	8.1	19.0	165 E	30	79
7 5	17 40.13	−14 54.9	0.836	1.825	10.9	19.1	160 E	30	79
7 10	17 36.02	−15 2.2	0.839	1.812	13.8	19.2	155 E	30	79
7 15	17 32.60	−15 12.7	0.847	1.799	16.6	19.3	150 E	30	79
7 20	17 30.04	−15 26.3	0.858	1.786	19.3	19.4	144 E	30	79
7 30	17 27.91	−16 1.4	0.893	1.762	24.2	19.6	135 E	29	80
8 9	17 30.08	−16 44.2	0.939	1.739	28.2	19.8	126 E	28	81
8 19	17 36.50	−17 31.0	0.993	1.719	31.3	20.0	118 E	27	82
8 29	17 46.90	−18 17.6	1.054	1.701	33.7	20.2	111 E	27	82
9 8	18 0.81	−18 59.7	1.120	1.685	35.3	20.3	105 E	26*	83
9 18	18 17.75	−19 33.7	1.190	1.672	36.4	20.5	99 E	25*	84
9 28	18 37.26	−19 56.1	1.262	1.662	37.0	20.6	94 E	25*	83*
10 8	18 58.85	−20 3.9	1.337	1.654	37.1	20.7	89 E	25*	80*
10 18	19 22.07	−19 55.1	1.414	1.650	37.0	20.8	84 E	25*	76*
10 28	19 46.53	−19 28.3	1.493	1.648	36.5	20.9	80 E	26*	71*
11 7	20 11.81	−18 43.0	1.575	1.649	35.7	21.0	76 E	26*	66*
11 17	20 37.58	−17 39.3	1.658	1.654	34.7	21.1	72 E	27*	61*
11 27	21 3.56	−16 18.2	1.743	1.661	33.6	21.2	69 E	29*	56*
12 7	21 29.52	−14 41.3	1.830	1.671	32.3	21.3	65 E	30*	50*
12 17	21 55.28	−12 50.7	1.919	1.684	30.8	21.4	61 E	31*	45*
12 27	22 20.74	−10 48.6	2.009	1.700	29.3	21.4	58 E	33*	40*
100438 1996 PC_3									
4 1	17 47.33	−51 58.1	3.192	3.537	16.0	21.4	102 W	—	64
4 6	17 48.67	−52 33.0	3.128	3.537	15.8	21.4	106 W	—	63
4 11	17 49.25	−53 7.9	3.066	3.536	15.4	21.3	110 W	—	63
4 16	17 49.04	−53 42.4	3.006	3.535	15.0	21.3	114 W	—	62
4 21	17 47.96	−54 16.2	2.949	3.534	14.5	21.2	118 W	—	62
4 26	17 45.99	−54 48.6	2.895	3.532	14.0	21.1	122 W	—	61
5 1	17 43.12	−55 19.0	2.845	3.531	13.4	21.1	126 W	—	61

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
100438 1996 PC_3 *(continuation)*									
5 6	17 39.34	−55 46.6	2.799	3.529	12.7	21.0	130 W	—	60
5 11	17 34.68	−56 10.8	2.757	3.527	12.0	21.0	133 W	—	60
5 16	17 29.20	−56 30.8	2.720	3.525	11.4	20.9	137 W	—	59
5 21	17 22.97	−56 45.5	2.689	3.522	10.7	20.9	140 W	—	59
5 26	17 16.14	−56 54.5	2.663	3.520	10.1	20.8	142 W	—	59
5 31	17 8.87	−56 57.0	2.643	3.517	9.7	20.8	144 W	—	59
6 5	17 1.35	−56 52.7	2.629	3.514	9.4	20.8	146 W	—	59
6 10	16 53.78	−56 41.5	2.622	3.511	9.3	20.7	146 E	—	59
6 15	16 46.37	−56 23.5	2.620	3.507	9.4	20.7	146 E	—	60
6 20	16 39.31	−55 59.1	2.625	3.503	9.7	20.8	145 E	—	60
6 25	16 32.77	−55 28.9	2.636	3.499	10.1	20.8	143 E	—	61
6 30	16 26.90	−54 53.7	2.653	3.495	10.7	20.8	140 E	—	61
7 5	16 21.81	−54 14.4	2.676	3.491	11.4	20.9	137 E	—	62
7 10	16 17.54	−53 32.1	2.704	3.486	12.1	20.9	134 E	—	62
7 15	16 14.13	−52 47.6	2.737	3.481	12.9	21.0	130 E	—	63
7 20	16 11.60	−52 1.9	2.775	3.476	13.6	21.0	126 E	—	64
7 25	16 9.94	−51 15.6	2.817	3.471	14.3	21.1	123 E	—	65
7 30	16 9.12	−50 29.7	2.863	3.466	14.9	21.1	119 E	—	66
8 4	16 9.09	−49 44.6	2.912	3.460	15.5	21.2	115 E	—	66
8 9	16 9.81	−49 0.7	2.964	3.454	15.9	21.2	111 E	—	67
8 14	16 11.24	−48 18.4	3.018	3.448	16.3	21.3	107 E	—	68
8 19	16 13.31	−47 37.9	3.075	3.442	16.7	21.3	103 E	—	68
8 24	16 16.00	−46 59.4	3.133	3.435	16.9	21.4	99 E	—	69*
8 29	16 19.26	−46 23.0	3.192	3.429	17.1	21.4	95 E	—	69*
9 3	16 23.02	−45 48.6	3.252	3.422	17.1	21.4	91 E	—	69*
9 8	16 27.27	−45 16.1	3.312	3.414	17.1	21.5	87 E	—	68*
324366 2006 QC_{134}									
4 1	17 52.19	−24 54.8	1.908	2.348	24.5	21.3	103 W	20*	89
4 11	18 1.17	−24 55.9	1.750	2.308	23.9	21.1	111 W	20	89
4 21	18 7.91	−24 54.9	1.600	2.268	22.7	20.8	119 W	20	89
5 1	18 11.95	−24 52.9	1.459	2.227	20.9	20.5	128 W	20	89
5 11	18 12.87	−24 50.1	1.331	2.185	18.2	20.2	138 W	20	89
5 21	18 10.32	−24 46.6	1.218	2.144	14.6	19.8	148 W	20	89
5 31	18 4.21	−24 40.9	1.124	2.102	10.1	19.4	159 W	20	89
6 10	17 54.95	−24 31.3	1.051	2.059	4.7	19.0	170 W	20	89
6 15	17 49.42	−24 24.4	1.024	2.038	1.8	18.7	176 W	21	88
6 20	17 43.52	−24 16.0	1.002	2.017	1.4	18.6	177 E	21	88
6 25	17 37.48	−24 6.0	0.986	1.996	4.5	18.8	171 E	21	88
6 30	17 31.55	−23 54.7	0.976	1.975	7.6	18.9	165 E	21	88
7 5	17 25.97	−23 42.5	0.971	1.954	10.7	19.0	159 E	21	88
7 10	17 20.94	−23 29.9	0.971	1.934	13.8	19.1	153 E	22	87
7 15	17 16.65	−23 17.3	0.977	1.913	16.7	19.1	147 E	22	87
7 20	17 13.27	−23 5.3	0.987	1.892	19.4	19.2	142 E	22	87
7 30	17 9.63	−22 45.0	1.017	1.852	24.3	19.4	131 E	22	87
8 9	17 10.45	−22 31.2	1.059	1.812	28.3	19.6	122 E	22	87
8 19	17 15.66	−22 23.7	1.108	1.774	31.5	19.7	114 E	23*	86
8 29	17 25.00	−22 20.9	1.161	1.737	34.0	19.8	106 E	23*	86
9 8	17 38.02	−22 19.5	1.218	1.702	35.7	19.9	99 E	22*	86
9 18	17 54.30	−22 15.9	1.274	1.669	36.9	20.0	93 E	22*	85*
9 28	18 13.42	−22 6.3	1.331	1.639	37.7	20.1	88 E	23*	81*
10 8	18 34.96	−21 47.0	1.387	1.611	38.0	20.2	83 E	23*	76*
10 18	18 58.52	−21 14.8	1.443	1.587	38.0	20.2	79 E	23*	71*
10 28	19 23.74	−20 26.8	1.498	1.566	37.8	20.3	75 E	24*	66*
11 7	19 50.22	−19 21.3	1.552	1.548	37.3	20.3	71 E	25*	62*
11 17	20 17.61	−17 57.3	1.607	1.535	36.6	20.3	68 E	27*	57*
11 27	20 45.60	−16 14.6	1.663	1.526	35.7	20.4	65 E	28*	52*
12 7	21 13.89	−14 14.1	1.721	1.522	34.7	20.4	62 E	30*	47*
12 17	21 42.27	−11 57.8	1.781	1.521	33.5	20.5	59 E	32*	42*
12 27	22 10.57	− 9 27.9	1.843	1.526	32.2	20.5	56 E	33*	37*
1 6	22 38.65	− 6 47.5	1.908	1.535	30.8	20.6	53 E	34*	33*
1 16	23 6.46	− 3 59.9	1.977	1.548	29.3	20.6	50 E	35*	29*
468541 2006 QA_{31}									
4 1	17 58.35	− 1 3.4	0.581	1.248	51.8	21.4	101 W	44*	65
4 6	17 56.04	− 0 46.0	0.570	1.282	48.6	21.3	106 W	44	65
4 11	17 52.15	− 0 30.4	0.559	1.314	45.2	21.3	111 W	44	65
4 16	17 46.53	− 0 17.8	0.548	1.346	41.5	21.2	117 W	45	64
4 21	17 39.08	− 0 9.3	0.538	1.376	37.6	21.1	123 W	45	64
4 26	17 29.77	− 0 6.4	0.529	1.405	33.4	21.0	130 W	45	64
5 1	17 18.71	− 0 10.5	0.522	1.433	28.9	20.8	137 W	45	64
5 6	17 6.13	− 0 22.9	0.520	1.459	24.3	20.7	143 W	45	64
5 11	16 52.42	− 0 44.1	0.522	1.485	19.9	20.6	150 W	44	65
5 16	16 38.06	− 1 14.3	0.528	1.509	15.9	20.6	156 W	44	65
5 21	16 23.60	− 1 53.0	0.541	1.532	13.0	20.6	160 W	43	66
5 26	16 9.65	− 2 39.1	0.559	1.554	11.9	20.6	162 E	42	67
5 31	15 56.73	− 3 31.1	0.583	1.574	12.9	20.8	160 E	41	68
6 5	15 45.23	− 4 27.3	0.613	1.593	15.2	21.0	156 E	41	68
6 10	15 35.36	− 5 26.1	0.648	1.612	18.1	21.2	151 E	40	69
6 15	15 27.21	− 6 26.3	0.688	1.629	20.9	21.5	145 E	39	70
6 20	15 20.79	− 7 27.1	0.732	1.644	23.5	21.7	140 E	38	71

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
410326 2007 UQ_{11}									
4 1	17 58.63	−19 28.5	1.846	2.271	25.5	21.4	102 W	25*	83
4 11	18 8.19	−19 22.4	1.694	2.235	25.0	21.1	109 W	26	83
4 21	18 15.62	−19 15.6	1.548	2.198	24.0	20.9	117 W	26	83
5 1	18 20.48	−19 10.2	1.411	2.161	22.2	20.6	126 W	26	83
5 11	18 22.36	−19 8.4	1.285	2.124	19.6	20.3	135 W	26	83
5 21	18 20.87	−19 12.2	1.174	2.085	16.2	19.9	145 W	26	83
5 31	18 15.82	−19 22.9	1.080	2.047	11.8	19.5	156 W	26	83
6 10	18 7.46	−19 40.8	1.006	2.009	6.5	19.1	167 W	25	84
6 15	18 2.26	−19 52.2	0.978	1.989	3.8	18.9	173 W	25	84
6 20	17 56.58	−20 5.0	0.955	1.970	1.7	18.7	177 W	25	84
6 25	17 50.62	−20 18.9	0.938	1.951	3.4	18.7	173 E	25	84
6 30	17 44.63	−20 33.7	0.926	1.932	6.4	18.9	168 E	24	85
7 5	17 38.86	−20 49.3	0.921	1.913	9.6	19.0	162 E	24	85
7 10	17 33.53	−21 5.6	0.920	1.894	12.7	19.1	156 E	24	85
7 15	17 28.84	−21 22.4	0.925	1.875	15.7	19.2	150 E	24	85
7 20	17 24.99	−21 39.8	0.934	1.856	18.6	19.2	144 E	23	86
7 25	17 22.12	−21 57.7	0.946	1.838	21.3	19.3	139 E	23	86
7 30	17 20.34	−22 16.3	0.963	1.820	23.7	19.4	134 E	23	86
8 9	17 20.20	−22 54.9	1.004	1.784	28.0	19.6	124 E	22	87
8 19	17 24.64	−23 34.3	1.054	1.749	31.4	19.8	116 E	21	88
8 29	17 33.46	−24 12.7	1.108	1.716	34.0	19.9	108 E	21*	88
9 8	17 46.24	−24 47.2	1.166	1.684	35.9	20.0	101 E	20*	89
9 18	18 2.53	−25 14.4	1.225	1.655	37.2	20.1	95 E	20*	89*
9 28	18 21.90	−25 31.0	1.284	1.627	38.0	20.2	90 E	19*	84*
10 8	18 43.86	−25 33.4	1.343	1.603	38.4	20.3	85 E	19*	79*
10 18	19 7.98	−25 18.6	1.402	1.581	38.4	20.4	81 E	20*	74*
10 28	19 33.82	−24 44.1	1.460	1.563	38.2	20.4	77 E	20*	70*
11 7	20 0.92	−23 48.4	1.518	1.548	37.7	20.5	73 E	21*	65*
11 17	20 28.88	−22 30.6	1.577	1.536	37.0	20.5	69 E	22*	61*
11 27	20 57.33	−20 51.1	1.636	1.529	36.1	20.6	66 E	24*	56*
12 7	21 25.94	−18 51.1	1.696	1.525	35.1	20.6	63 E	26*	51*
12 17	21 54.46	−16 33.0	1.759	1.526	33.9	20.7	60 E	28*	46*
12 27	22 22.74	−13 59.3	1.823	1.530	32.6	20.7	57 E	30*	42*
1 6	22 50.64	−11 13.6	1.890	1.538	31.2	20.8	54 E	31*	38*
1 16	23 18.14	− 8 19.4	1.960	1.551	29.7	20.8	51 E	32*	34*
212748 2007 TB_2									
4 1	18 1.17	−26 37.1	1.678	2.113	27.6	21.5	101 W	18*	89
4 11	18 13.74	−26 56.9	1.538	2.081	27.2	21.2	108 W	18*	89
4 21	18 24.29	−27 16.9	1.404	2.050	26.2	21.0	116 W	18	89
5 1	18 32.35	−27 38.8	1.278	2.018	24.6	20.7	124 W	17	88
5 11	18 37.41	−28 4.1	1.163	1.986	22.2	20.4	132 W	17	88
5 21	18 38.98	−28 33.5	1.061	1.955	18.9	20.0	141 W	16	87
5 31	18 36.66	−29 5.7	0.973	1.925	14.7	19.7	151 W	16	87
6 10	18 30.51	−29 37.2	0.904	1.895	9.8	19.3	162 W	15	86
6 15	18 26.16	−29 51.1	0.877	1.880	7.2	19.1	167 W	15	86
6 20	18 21.15	−30 2.6	0.855	1.865	4.8	18.9	171 W	15	86
6 25	18 15.67	−30 11.1	0.838	1.851	3.7	18.8	173 E	15	86
6 30	18 10.01	−30 16.0	0.826	1.837	5.1	18.8	171 E	15	86
7 5	18 4.44	−30 17.1	0.820	1.823	7.7	18.9	166 E	15	86
7 10	17 59.22	−30 14.5	0.819	1.810	10.7	19.0	161 E	15	86
7 15	17 54.60	−30 8.5	0.822	1.797	13.7	19.1	155 E	15	86
7 20	17 50.80	−29 59.5	0.830	1.784	16.6	19.2	150 E	15	86
7 25	17 48.02	−29 48.2	0.843	1.771	19.4	19.3	145 E	15	86
7 30	17 46.37	−29 35.3	0.859	1.759	22.0	19.5	140 E	15	86
8 9	17 46.68	−29 6.9	0.900	1.737	26.5	19.7	130 E	16	87
8 19	17 51.73	−28 36.9	0.951	1.716	30.1	19.9	122 E	16	87
8 29	18 1.22	−28 5.9	1.010	1.697	32.8	20.1	114 E	17	88
9 8	18 14.55	−27 32.3	1.074	1.681	34.8	20.2	108 E	17	88
9 18	18 31.08	−26 53.6	1.142	1.667	36.2	20.4	102 E	18	89
9 28	18 50.25	−26 7.1	1.213	1.655	37.0	20.5	96 E	19	90
10 8	19 11.46	−25 10.2	1.287	1.647	37.3	20.6	91 E	20	85*
10 18	19 34.22	−24 0.8	1.363	1.641	37.3	20.8	87 E	21	80*
10 28	19 58.09	−22 37.6	1.441	1.638	37.0	20.9	82 E	22	75*
11 7	20 22.66	−21 0.2	1.521	1.638	36.3	21.0	78 E	24	69*
11 17	20 47.63	−19 8.7	1.603	1.640	35.5	21.1	74 E	26	64*
11 27	21 12.75	−17 4.0	1.687	1.646	34.4	21.1	71 E	28*	58*
12 7	21 37.81	−14 47.6	1.772	1.655	33.2	21.2	67 E	30*	52*
12 17	22 2.69	−12 21.3	1.860	1.666	31.8	21.3	63 E	32*	47*
12 27	22 27.34	− 9 47.0	1.948	1.680	30.3	21.4	60 E	34*	41*
1 6	22 51.68	− 7 7.1	2.038	1.696	28.7	21.5	56 E	35*	36*
293648 2007 PX_2									
4 1	18 4.29	−21 38.8	1.540	1.982	29.7	21.3	100 W	23*	86
4 11	18 18.78	−21 37.9	1.407	1.950	29.4	21.1	107 W	23*	86
4 21	18 31.54	−21 34.8	1.279	1.919	28.6	20.8	114 W	23*	86
5 1	18 42.13	−21 32.2	1.160	1.888	27.2	20.5	121 W	23	86
5 11	18 50.10	−21 32.9	1.049	1.858	25.1	20.2	129 W	23	86
5 21	18 54.97	−21 39.8	0.950	1.828	22.0	19.9	137 W	23	86

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	293648 2007 PX_2				*(continuation)*				
	h m	° ′			°	m	°	°	°
5 31	18 56.26	−21 55.4	0.864	1.800	18.0	19.5	147 W	23	86
6 10	18 53.83	−22 20.8	0.794	1.773	13.0	19.1	157 W	23	86
6 20	18 47.91	−22 54.7	0.740	1.747	7.0	18.7	168 W	22	87
6 25	18 43.91	−23 13.8	0.721	1.735	3.8	18.4	174 W	22	87
6 30	18 39.47	−23 33.5	0.706	1.723	0.5	18.1	179 W	21	88
7 5	18 34.85	−23 53.3	0.697	1.712	3.1	18.3	175 E	21	88
7 10	18 30.29	−24 12.5	0.692	1.701	6.6	18.5	169 E	21	88
7 15	18 26.06	−24 30.5	0.692	1.691	10.0	18.6	163 E	20	89
7 20	18 22.40	−24 47.2	0.696	1.681	13.3	18.7	158 E	20	89
7 25	18 19.56	−25 2.3	0.705	1.672	16.5	18.8	152 E	20	89
7 30	18 17.72	−25 15.6	0.717	1.663	19.5	19.0	147 E	20	89
8 4	18 17.00	−25 27.3	0.733	1.655	22.2	19.1	142 E	20	89
8 9	18 17.44	−25 37.2	0.752	1.648	24.7	19.2	137 E	19	90
8 19	18 21.90	−25 51.6	0.799	1.635	28.9	19.4	129 E	19	90
8 29	18 30.98	−25 58.0	0.854	1.625	32.2	19.7	121 E	19	90
9 8	18 44.10	−25 54.6	0.917	1.618	34.6	19.9	114 E	19	90
9 13	18 51.97	−25 48.6	0.951	1.616	35.5	20.0	111 E	19	90
9 18	19 0.59	−25 39.3	0.986	1.614	36.2	20.1	108 E	19	90
9 23	19 9.91	−25 26.6	1.022	1.613	36.8	20.2	106 E	20	89
9 28	19 19.81	−25 10.1	1.059	1.613	37.3	20.3	103 E	20	89
10 3	19 30.22	−24 49.7	1.098	1.614	37.6	20.4	100 E	20	89
10 8	19 41.06	−24 25.3	1.138	1.615	37.8	20.4	98 E	21	88
10 13	19 52.26	−23 56.8	1.178	1.617	37.9	20.5	96 E	21	88*
10 18	20 3.77	−23 24.1	1.220	1.620	37.9	20.6	93 E	22	86*
10 23	20 15.51	−22 47.3	1.263	1.624	37.8	20.7	91 E	22	83*
10 28	20 27.44	−22 6.3	1.306	1.628	37.6	20.8	89 E	23	81*
11 2	20 39.50	−21 21.3	1.351	1.633	37.3	20.8	87 E	24	78*
11 7	20 51.64	−20 32.5	1.396	1.639	37.0	20.9	85 E	24	75*
11 12	21 3.84	−19 40.0	1.443	1.646	36.6	21.0	83 E	25	73*
11 17	21 16.05	−18 44.0	1.490	1.653	36.2	21.0	81 E	26	70*
11 22	21 28.26	−17 44.7	1.538	1.661	35.7	21.1	79 E	27	67*
11 27	21 40.44	−16 42.4	1.587	1.669	35.2	21.2	77 E	28	64*
12 2	21 52.57	−15 37.5	1.637	1.678	34.6	21.2	75 E	29	61*
12 7	22 4.62	−14 30.0	1.687	1.688	33.9	21.3	73 E	31	58*
12 12	22 16.61	−13 20.4	1.738	1.698	33.3	21.3	71 E	32	55*
12 17	22 28.51	−12 8.9	1.790	1.709	32.6	21.4	69 E	33*	52*
12 22	22 40.33	−10 55.8	1.842	1.720	31.8	21.5	67 E	34*	49*
	461579 2004 PU_{26}								
4 1	18 4.32	−30 21.3	1.554	1.994	29.5	21.4	100 W	15*	86
4 11	18 20.10	−31 7.1	1.414	1.955	29.4	21.2	107 W	14*	85
4 21	18 34.43	−31 54.9	1.281	1.917	28.8	20.9	113 W	13*	84
5 1	18 46.84	−32 47.0	1.156	1.879	27.6	20.6	120 W	12	83
5 11	18 56.82	−33 45.5	1.041	1.841	25.7	20.3	128 W	11	82
5 16	19 0.72	−34 17.6	0.988	1.822	24.6	20.1	132 W	11	82
5 21	19 3.76	−34 51.6	0.937	1.804	23.2	19.9	135 W	10	81
5 26	19 5.86	−35 27.4	0.890	1.786	21.6	19.8	139 W	10	81
5 31	19 6.96	−36 4.6	0.846	1.768	19.9	19.6	144 W	9	80
6 5	19 7.01	−36 42.5	0.806	1.750	18.0	19.4	148 W	8	79
6 10	19 5.96	−37 20.2	0.769	1.732	16.0	19.2	152 W	8	79
6 15	19 3.81	−37 56.6	0.737	1.715	14.0	19.0	156 W	7	78
6 20	19 0.61	−38 30.0	0.709	1.698	12.1	18.8	159 W	7	78
6 25	18 56.48	−38 58.7	0.685	1.682	10.7	18.7	162 W	6	77
6 30	18 51.65	−39 21.1	0.666	1.666	10.0	18.6	164 W	6	77
7 5	18 46.37	−39 35.8	0.651	1.651	10.4	18.5	163 E	5	76
7 10	18 40.98	−39 41.7	0.641	1.636	11.7	18.5	161 E	5	76
7 15	18 35.80	−39 38.2	0.635	1.622	13.8	18.6	158 E	5	76
7 20	18 31.20	−39 25.4	0.633	1.608	16.3	18.6	154 E	6	77
7 25	18 27.50	−39 3.9	0.635	1.595	19.0	18.7	149 E	6	77
7 30	18 24.96	−38 34.8	0.640	1.582	21.6	18.8	145 E	6	77
8 4	18 23.75	−37 59.3	0.649	1.571	24.2	18.9	141 E	7	78
8 9	18 23.94	−37 18.6	0.660	1.560	26.6	19.0	136 E	8	79
8 14	18 25.56	−36 33.9	0.674	1.550	28.8	19.1	132 E	8	79
8 19	18 28.59	−35 46.0	0.690	1.540	30.9	19.2	129 E	9	80
8 24	18 32.97	−34 55.5	0.709	1.532	32.7	19.3	125 E	10	81
8 29	18 38.62	−34 3.0	0.729	1.524	34.3	19.4	122 E	11	82
9 3	18 45.40	−33 8.6	0.751	1.518	35.7	19.4	118 E	12	83
9 8	18 53.19	−32 12.3	0.775	1.512	37.0	19.5	115 E	13	84
9 13	19 1.87	−31 14.1	0.800	1.508	38.0	19.6	113 E	14	85
9 18	19 11.35	−30 13.8	0.827	1.504	38.9	19.7	110 E	15	86
9 23	19 21.51	−29 11.4	0.854	1.501	39.6	19.8	108 E	16	87
9 28	19 32.24	−28 6.7	0.884	1.500	40.1	19.9	105 E	17	88
10 3	19 43.45	−26 59.6	0.914	1.499	40.6	20.0	103 E	18	89
10 8	19 55.03	−25 49.9	0.946	1.500	40.9	20.1	101 E	19	90
10 13	20 6.91	−24 37.8	0.979	1.501	41.1	20.1	99 E	20	89
10 18	20 19.03	−23 23.1	1.014	1.504	41.1	20.2	97 E	22	87
10 23	20 31.34	−22 5.9	1.050	1.507	41.1	20.3	95 E	23	86*
10 28	20 43.77	−20 46.4	1.087	1.512	41.0	20.4	93 E	24	83*
11 2	20 56.26	−19 24.7	1.126	1.517	40.8	20.5	91 E	26	80*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	461579 2004 PU_{26}				*(continuation)*				
	h m	° ′			°	m	°	°	°
11 7	21 8.79	−18 1.0	1.166	1.524	40.6	20.5	90 E	27	78*
11 12	21 21.31	−16 35.5	1.207	1.531	40.2	20.6	88 E	28	75*
11 17	21 33.82	−15 8.4	1.250	1.539	39.8	20.7	86 E	30	72*
11 22	21 46.30	−13 40.0	1.294	1.549	39.4	20.8	84 E	31	69*
11 27	21 58.72	−12 10.4	1.340	1.559	38.9	20.8	83 E	33	65*
12 2	22 11.06	−10 40.0	1.386	1.569	38.3	20.9	81 E	34	62*
12 7	22 23.33	− 9 9.1	1.434	1.581	37.7	21.0	79 E	36	59*
12 12	22 35.51	− 7 37.9	1.484	1.593	37.1	21.1	78 E	37	56*
12 17	22 47.63	− 6 6.6	1.534	1.606	36.4	21.1	76 E	39	53*
12 22	22 59.66	− 4 35.4	1.586	1.620	35.7	21.2	74 E	40	50*
12 27	23 11.62	− 3 4.5	1.638	1.634	35.0	21.3	72 E	42*	47*
1 1	23 23.49	− 1 34.3	1.692	1.649	34.2	21.3	71 E	43*	44*
1 6	23 35.30	− 0 4.9	1.746	1.664	33.4	21.4	69 E	44*	42*
1 11	23 47.05	+ 1 23.5	1.801	1.680	32.6	21.5	67 E	45*	39*
	162551 2000 QS_{226}								
4 1	18 12.12	+ 2 7.9	2.692	2.988	19.4	21.4	97 W	47*	62
4 11	18 15.91	+ 3 35.7	2.562	2.982	18.9	21.3	105 W	49*	60
4 21	18 17.58	+ 5 6.2	2.438	2.975	18.2	21.1	113 W	50	59
5 1	18 16.93	+ 6 36.0	2.324	2.966	17.0	21.0	121 W	52	57
5 11	18 13.90	+ 8 0.5	2.224	2.957	15.6	20.8	128 W	53	56
5 21	18 8.54	+ 9 14.4	2.140	2.947	14.0	20.7	135 W	54	55
5 31	18 1.11	+10 11.8	2.075	2.935	12.5	20.6	141 W	55	54
6 10	17 52.17	+10 47.3	2.033	2.923	11.5	20.5	145 W	56	53
6 20	17 42.43	+10 56.9	2.014	2.909	11.4	20.4	145 E	56	53
6 30	17 32.78	+10 39.1	2.019	2.895	12.3	20.5	143 E	56	53
7 10	17 24.11	+ 9 55.3	2.047	2.879	13.8	20.5	137 E	55	54
7 20	17 17.12	+ 8 49.4	2.094	2.862	15.6	20.6	131 E	54	55
7 30	17 12.32	+ 7 26.7	2.160	2.845	17.4	20.8	123 E	52	57
8 9	17 9.94	+ 5 52.8	2.239	2.826	18.9	20.9	115 E	51	58
8 19	17 10.02	+ 4 12.9	2.330	2.806	20.1	21.0	108 E	49*	60
8 29	17 12.50	+ 2 31.1	2.427	2.785	20.9	21.1	100 E	47*	61
9 8	17 17.20	+ 0 51.0	2.529	2.763	21.4	21.2	93 E	45*	63*
9 18	17 23.92	− 0 45.0	2.632	2.741	21.4	21.2	85 E	42*	63*
9 28	17 32.47	− 2 14.9	2.734	2.717	21.2	21.3	78 E	40*	60*
10 8	17 42.65	− 3 37.3	2.833	2.692	20.6	21.3	72 E	38*	55*
10 18	17 54.26	− 4 51.1	2.927	2.666	19.8	21.4	65 E	36*	50*
10 28	18 7.17	− 5 55.5	3.013	2.639	18.8	21.4	59 E	34*	43*
11 7	18 21.19	− 6 49.7	3.091	2.612	17.6	21.4	53 E	32*	37*
11 17	18 36.21	− 7 33.3	3.160	2.583	16.2	21.3	47 E	30*	30*
11 27	18 52.08	− 8 6.1	3.219	2.553	14.6	21.3	41 E	27*	23*
12 7	19 8.69	− 8 27.6	3.266	2.523	13.0	21.2	35 E	25*	16*
12 17	19 25.94	− 8 38.1	3.301	2.492	11.2	21.2	29 E	21*	10*
12 27	19 43.72	− 8 37.4	3.323	2.459	9.4	21.1	24 E	18*	4*
1 6	20 1.94	− 8 25.9	3.333	2.426	7.7	21.0	19 E	13*	—
1 16	20 20.53	− 8 3.9	3.331	2.392	6.0	20.9	15 E	8*	—
	163251 2002 GX_4								
4 1	18 22.06	+ 1 3.1	2.819	3.071	18.9	21.5	95 W	45*	63
4 11	18 25.45	+ 2 22.0	2.701	3.082	18.5	21.4	103 W	47*	62
4 21	18 26.73	+ 3 42.1	2.588	3.093	17.7	21.2	111 W	49	60
5 1	18 25.76	+ 5 0.3	2.484	3.102	16.5	21.1	119 W	50	59
5 11	18 22.48	+ 6 12.6	2.393	3.110	15.0	21.0	127 W	51	58
5 21	18 17.01	+ 7 14.5	2.318	3.117	13.3	20.9	135 W	52	57
5 31	18 9.60	+ 8 1.0	2.262	3.122	11.6	20.8	142 W	53	56
6 10	18 0.79	+ 8 27.9	2.230	3.127	10.3	20.7	146 W	53	56
6 20	17 51.25	+ 8 32.3	2.222	3.130	9.9	20.7	148 E	54	55
6 30	17 41.80	+ 8 13.3	2.239	3.133	10.5	20.7	146 E	53	56
7 10	17 33.23	+ 7 32.6	2.280	3.134	11.8	20.8	141 E	53	56
7 20	17 26.17	+ 6 33.6	2.344	3.134	13.5	20.9	134 E	52	57
7 30	17 21.08	+ 5 20.8	2.427	3.133	15.2	21.0	126 E	50	59
8 9	17 18.19	+ 3 59.2	2.526	3.131	16.6	21.2	118 E	49	60
8 19	17 17.53	+ 2 32.9	2.637	3.128	17.7	21.3	110 E	48*	61
8 29	17 19.04	+ 1 5.6	2.757	3.124	18.5	21.4	102 E	46*	63
	276468 2003 HQ_{32}								
4 1	18 22.85	− 2 32.1	1.440	1.823	33.1	21.5	95 W	42*	67
4 11	18 29.95	+ 1 50.0	1.385	1.868	31.7	21.4	102 W	47*	62
4 21	18 33.51	+ 6 22.8	1.337	1.911	29.9	21.3	109 W	51*	58
5 1	18 33.25	+10 57.3	1.300	1.955	27.8	21.3	115 W	56	53
5 11	18 29.08	+15 20.9	1.277	1.997	25.6	21.2	121 W	60	49
5 21	18 21.16	+19 18.9	1.270	2.038	23.6	21.2	126 W	64	45
5 31	18 10.10	+22 35.3	1.280	2.078	22.1	21.2	130 W	68	41
6 10	17 57.08	+24 57.8	1.309	2.118	21.3	21.3	131 W	70	39
6 20	17 43.55	+26 20.7	1.356	2.156	21.1	21.4	130 E	71	38
6 30	17 31.09	+26 45.4	1.419	2.192	21.5	21.5	128 E	72	37
7 10	17 20.96	+26 20.4	1.496	2.228	22.3	21.7	124 E	71	38
	119905 2002 EH_{10}								
4 1	18 27.32	+ 0 47.7	3.330	3.537	16.4	21.4	94 W	45*	63*
4 11	18 30.34	+ 1 52.0	3.193	3.535	16.1	21.3	102 W	47*	62
4 21	18 31.55	+ 2 57.2	3.061	3.532	15.5	21.2	110 W	48*	61
5 1	18 30.82	+ 4 0.5	2.939	3.529	14.6	21.1	118 W	49	60

119905 2002 EH_{10} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 11	18 28.12	+ 4 58.8	2.828	3.525	13.3	21.0	127 W	50	59
5 21	18 23.49	+ 5 48.7	2.735	3.520	11.8	20.8	135 W	51	58
5 31	18 17.15	+ 6 26.3	2.661	3.513	10.3	20.7	142 W	51	58
6 10	18 9.49	+ 6 48.2	2.610	3.506	9.0	20.6	147 W	52	57
6 20	18 1.03	+ 6 51.9	2.584	3.499	8.4	20.6	150 W	52	57
6 30	17 52.42	+ 6 36.2	2.583	3.490	8.8	20.6	148 E	52	57
7 10	17 44.36	+ 6 2.1	2.609	3.480	10.0	20.6	144 E	51	58
7 20	17 37.41	+ 5 11.8	2.658	3.469	11.6	20.7	137 E	50	59
7 30	17 32.06	+ 4 8.6	2.728	3.458	13.2	20.8	129 E	49	60
8 9	17 28.59	+ 2 56.5	2.816	3.446	14.7	21.0	121 E	48	61
8 19	17 27.11	+ 1 39.2	2.918	3.432	15.8	21.1	112 E	47	62
8 29	17 27.66	+ 0 19.9	3.030	3.418	16.7	21.2	104 E	45*	64
9 8	17 30.12	− 0 58.6	3.148	3.403	17.1	21.3	96 E	43*	65
9 18	17 34.37	− 2 14.3	3.269	3.387	17.2	21.3	88 E	41*	65*
9 28	17 40.25	− 3 25.5	3.390	3.370	17.0	21.4	80 E	40*	62*
10 8	17 47.60	− 4 30.9	3.508	3.352	16.5	21.4	73 E	38*	57*
10 18	17 56.24	− 5 29.8	3.620	3.333	15.8	21.5	66 E	36*	50*
10 28	18 6.02	− 6 21.3	3.723	3.314	14.8	21.5	58 E	33*	43*
11 7	18 16.80	− 7 4.9	3.817	3.293	13.6	21.5	52 E	31*	36*
11 17	18 28.43	− 7 40.3	3.899	3.272	12.3	21.5	45 E	29*	28*
11 27	18 40.79	− 8 7.3	3.967	3.249	10.8	21.4	38 E	26*	21*
12 7	18 53.75	− 8 25.6	4.021	3.226	9.3	21.4	32 E	23*	13*
12 17	19 7.21	− 8 35.3	4.059	3.202	7.7	21.3	26 E	19*	6*
12 27	19 21.05	− 8 36.5	4.081	3.176	6.1	21.2	20 E	14*	—
1 6	19 35.18	− 8 29.4	4.087	3.150	4.8	21.2	16 E	9*	—
1 16	19 49.51	− 8 14.2	4.075	3.124	4.0	21.1	13 W	3*	—

152564 1992 *HF*

4 1	18 29.28	−18 19.8	0.706	1.268	51.8	21.5	94 W	26*	82*
4 6	18 54.09	−16 19.1	0.647	1.223	54.8	21.3	93 W	27*	80*
4 11	19 21.59	−13 44.6	0.594	1.177	58.4	21.1	91 W	29*	77*
4 16	19 52.02	−10 31.5	0.550	1.129	62.6	21.0	88 W	31*	74*
4 21	20 25.45	− 6 38.3	0.515	1.081	67.6	20.9	84 W	32*	69*
4 26	21 1.64	− 2 9.5	0.491	1.033	73.1	20.9	79 W	34*	64*
5 1	21 39.99	+ 2 41.2	0.480	0.983	78.9	20.9	73 W	34*	57*
5 6	22 19.54	+ 7 32.9	0.483	0.934	84.4	21.0	67 W	34*	51*
5 11	22 59.14	+12 3.1	0.500	0.885	89.2	21.2	61 W	33*	45*
5 16	23 37.72	+15 54.8	0.530	0.836	92.8	21.3	56 W	31*	40*
5 21	0 14.53	+19 0.8	0.571	0.789	94.8	21.5	51 W	29*	35*

53430 1999 TY_{16}

4 1	18 46.08	+ 1 58.6	2.183	2.383	24.8	21.4	89 W	45*	62*
4 11	18 52.55	+ 6 8.8	2.023	2.342	25.2	21.2	96 W	50*	58
4 21	18 56.92	+10 52.5	1.873	2.301	25.3	21.0	102 W	55*	53
5 1	18 58.68	+16 9.1	1.740	2.257	25.2	20.8	108 W	61*	48
5 11	18 57.28	+21 53.8	1.626	2.213	25.0	20.6	112 W	67	42
5 21	18 52.06	+27 56.1	1.535	2.167	25.0	20.5	115 W	73	36
5 26	18 47.79	+30 58.6	1.499	2.144	25.2	20.4	116 W	76	33
5 31	18 42.33	+33 58.1	1.469	2.121	25.4	20.3	116 W	79	30
6 5	18 35.64	+36 51.7	1.445	2.097	25.8	20.3	116 W	82	27
6 10	18 27.71	+39 36.3	1.428	2.073	26.3	20.2	115 W	85	24
6 15	18 18.55	+42 8.8	1.416	2.048	27.0	20.2	114 W	87	22
6 20	18 8.29	+44 26.4	1.410	2.024	27.7	20.2	112 W	89	20
6 25	17 57.10	+46 26.7	1.408	1.999	28.5	20.2	110 E	89	18
6 30	17 45.24	+48 8.5	1.410	1.974	29.4	20.2	108 E	87	16
7 5	17 33.05	+49 31.1	1.415	1.949	30.2	20.2	105 E	85	14
7 10	17 20.88	+50 34.8	1.423	1.923	31.0	20.2	103 E	84	13
7 15	17 9.07	+51 20.5	1.433	1.897	31.8	20.2	100 E	84	13
7 20	16 58.00	+51 49.6	1.444	1.872	32.6	20.2	98 E	83	12
7 25	16 47.93	+52 4.2	1.455	1.846	33.2	20.2	95 E	83	12
7 30	16 39.11	+52 6.5	1.466	1.820	33.9	20.2	93 E	83	12
8 4	16 31.65	+51 58.9	1.477	1.794	34.4	20.2	90 E	83*	12
8 9	16 25.63	+51 43.4	1.486	1.767	35.0	20.2	88 E	81*	12
8 14	16 21.06	+51 21.8	1.493	1.741	35.5	20.2	86 E	79*	13
8 19	16 17.95	+50 55.7	1.497	1.715	35.9	20.2	84 E	78*	13
8 24	16 16.25	+50 26.7	1.499	1.689	36.4	20.2	82 E	76*	14*
8 29	16 15.91	+49 55.9	1.498	1.663	36.8	20.2	81 E	74*	14*
9 3	16 16.88	+49 24.4	1.494	1.637	37.2	20.1	79 E	73*	14*
9 8	16 19.12	+48 52.7	1.487	1.612	37.7	20.1	78 E	72*	14*
9 13	16 22.58	+48 21.4	1.476	1.586	38.2	20.1	77 E	71*	13*
9 18	16 27.26	+47 50.9	1.461	1.561	38.7	20.0	76 E	70*	13*
9 28	16 40.27	+46 53.7	1.421	1.512	39.8	19.9	75 E	68*	12*
10 8	16 58.29	+46 1.5	1.366	1.466	41.1	19.8	75 E	68*	10*
10 18	17 21.79	+45 11.7	1.300	1.422	42.7	19.7	75 E	68*	8*
10 23	17 35.84	+44 46.1	1.262	1.401	43.5	19.6	76 E	68*	8*
10 28	17 51.56	+44 18.6	1.223	1.381	44.3	19.5	76 E	69*	7*
11 2	18 9.06	+43 47.3	1.183	1.362	45.2	19.5	77 E	70*	7*
11 7	18 28.45	+43 10.2	1.143	1.345	46.1	19.4	78 E	70*	7*
11 12	18 49.79	+42 24.4	1.103	1.328	46.9	19.3	79 E	71*	7*
11 17	19 13.10	+41 26.8	1.064	1.313	47.7	19.2	79 E	73*	8*

53430 1999 TY_{16} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
11 22	19 38.27	+40 14.1	1.029	1.300	48.5	19.1	80 E	74*	9*
11 27	20 5.06	+38 42.7	0.997	1.288	49.2	19.1	81 E	75*	10*
12 2	20 33.10	+36 49.9	0.971	1.278	49.7	19.0	81 E	75*	12*
12 7	21 1.90	+34 34.2	0.952	1.269	50.2	19.0	82 E	75*	15*
12 12	21 30.88	+31 56.4	0.941	1.262	50.6	18.9	82 E	74*	17*
12 17	21 59.48	+29 0.1	0.939	1.257	50.8	18.9	82 E	72*	20*
12 22	22 27.19	+25 50.5	0.946	1.254	50.8	19.0	81 E	70*	23*
12 27	22 53.63	+22 34.6	0.963	1.252	50.7	19.0	80 E	67*	27*
1 1	23 18.57	+19 19.1	0.989	1.253	50.4	19.0	79 E	64*	30*
1 6	23 41.90	+16 9.9	1.024	1.256	49.9	19.1	77 E	61*	32*
1 11	0 3.65	+13 11.6	1.065	1.260	49.2	19.2	76 E	58*	35*
1 16	0 23.91	+10 27.1	1.113	1.266	48.3	19.3	74 E	55*	37*

337104 1999 NN_{22}

4 1	18 48.45	−42 3.8	2.452	2.678	21.9	21.3	92 W	2*	73*
4 6	18 53.87	−42 5.0	2.368	2.658	22.0	21.3	96 W	2*	74*
4 11	18 58.77	−42 6.1	2.284	2.637	22.0	21.2	99 W	2*	74
4 16	19 3.08	−42 7.1	2.201	2.617	21.9	21.1	103 W	2*	74
4 21	19 6.75	−42 8.0	2.119	2.597	21.7	21.0	107 W	3*	74
4 26	19 9.71	−42 8.8	2.038	2.576	21.4	20.8	111 W	3*	74
5 1	19 11.89	−42 9.2	1.959	2.555	20.9	20.7	115 W	3*	74
5 6	19 13.24	−42 9.1	1.882	2.534	20.3	20.6	119 W	3*	74
5 11	19 13.69	−42 8.3	1.808	2.513	19.5	20.5	124 W	3	74
5 16	19 13.19	−42 6.2	1.736	2.492	18.6	20.3	128 W	3	74
5 21	19 11.67	−42 2.2	1.668	2.470	17.5	20.2	133 W	3	74
5 26	19 9.10	−41 55.6	1.604	2.449	16.2	20.0	138 W	3	74
5 31	19 5.47	−41 45.5	1.544	2.427	14.8	19.9	142 W	3	74
6 5	19 0.80	−41 30.8	1.489	2.405	13.2	19.7	147 W	3	74
6 10	18 55.15	−41 10.5	1.439	2.383	11.5	19.6	152 W	4	75
6 15	18 48.62	−40 43.5	1.395	2.362	9.8	19.4	157 W	4	75
6 20	18 41.36	−40 8.7	1.356	2.340	8.3	19.3	161 W	5	76
6 25	18 33.59	−39 25.5	1.325	2.318	7.1	19.2	164 W	6	77
6 30	18 25.56	−38 33.6	1.300	2.295	6.8	19.1	164 E	6	77
7 5	18 17.56	−37 33.3	1.282	2.273	7.5	19.1	163 E	7	78
7 10	18 9.82	−36 25.3	1.270	2.251	9.1	19.1	160 E	9	80
7 15	18 2.61	−35 10.7	1.266	2.229	11.1	19.1	155 E	10	81
7 20	17 56.13	−33 51.2	1.267	2.207	13.3	19.2	150 E	11	82
7 25	17 50.56	−32 28.4	1.275	2.185	15.6	19.3	145 E	13	84
7 30	17 46.01	−31 4.2	1.289	2.163	17.8	19.4	139 E	14	85
8 4	17 42.54	−29 40.1	1.307	2.140	19.9	19.4	134 E	15	86
8 9	17 40.16	−28 17.4	1.330	2.118	21.9	19.5	129 E	17	88
8 14	17 38.87	−26 57.3	1.356	2.097	23.7	19.6	124 E	18	89
8 19	17 38.63	−25 40.2	1.386	2.075	25.3	19.7	119 E	19	90
8 29	17 41.13	−23 17.1	1.453	2.031	27.9	19.8	110 E	22*	87
9 8	17 47.16	−21 8.3	1.526	1.989	29.8	19.9	101 E	24*	85
9 18	17 56.22	−19 11.9	1.602	1.947	31.0	20.0	94 E	25*	83*
9 28	18 7.90	−17 24.4	1.678	1.907	31.6	20.1	87 E	27*	77*
10 8	18 21.78	−15 42.2	1.752	1.868	31.8	20.1	80 E	28*	70*
10 18	18 37.55	−14 1.7	1.822	1.830	31.7	20.2	75 E	30*	64*
10 28	18 54.97	−12 19.4	1.887	1.795	31.2	20.2	69 E	31*	57*
11 7	19 13.78	−10 32.5	1.947	1.761	30.5	20.2	64 E	33*	50*
11 17	19 33.84	− 8 38.8	2.001	1.730	29.6	20.2	60 E	34*	43*
11 27	19 54.99	− 6 36.3	2.049	1.702	28.6	20.2	56 E	35*	36*
12 7	20 17.10	− 4 23.8	2.093	1.678	27.6	20.2	52 E	36*	30*
12 17	20 40.10	− 2 0.8	2.132	1.656	26.5	20.1	49 E	36*	24*
12 27	21 3.92	+ 0 32.9	2.167	1.639	25.4	20.1	46 E	36*	18*
1 6	21 28.49	+ 3 16.5	2.200	1.625	24.4	20.1	43 E	36*	13*
1 16	21 53.82	+ 6 8.6	2.231	1.615	23.3	20.1	41 E	34*	8*

227124 2005 OE_2

4 1	18 53.18	−22 17.7	2.010	2.232	26.6	21.4	89 W	21*	82*
4 11	19 7.84	−22 14.1	1.857	2.195	27.0	21.2	96 W	21*	86
4 21	19 21.29	−22 11.2	1.708	2.158	27.1	20.9	102 W	22*	86
5 1	19 33.22	−22 11.3	1.563	2.122	26.6	20.7	109 W	22*	86
5 11	19 43.31	−22 17.5	1.426	2.085	25.6	20.4	117 W	22*	86
5 21	19 51.19	−22 32.8	1.297	2.049	24.0	20.1	125 W	22*	87
5 31	19 56.40	−23 0.4	1.179	2.013	21.6	19.8	133 W	22	87
6 10	19 58.55	−23 42.4	1.075	1.978	18.3	19.5	142 W	21	88
6 20	19 57.31	−24 39.5	0.986	1.944	14.2	19.1	152 W	20	89
6 30	19 52.63	−25 49.1	0.916	1.910	9.2	18.7	163 W	19	90
7 5	19 49.15	−26 26.8	0.888	1.894	6.6	18.5	168 W	19	90
7 10	19 45.05	−27 5.0	0.866	1.878	4.3	18.3	172 W	18	89
7 15	19 40.51	−27 42.6	0.848	1.862	3.4	18.2	174 W	17	88
7 20	19 35.72	−28 18.2	0.837	1.847	5.0	18.3	171 E	17	88
7 25	19 30.95	−28 50.7	0.830	1.832	7.8	18.4	166 E	16	87
7 30	19 26.46	−29 19.2	0.829	1.818	10.7	18.5	161 E	16	87
8 4	19 22.49	−29 43.1	0.832	1.804	13.7	18.6	155 E	15	86
8 9	19 19.26	−30 2.0	0.840	1.790	16.6	18.7	150 E	15	86
8 14	19 16.93	−30 16.0	0.852	1.777	19.3	18.8	145 E	15	86
8 19	19 15.65	−30 25.0	0.868	1.764	21.9	18.9	140 E	15	86

227124 2005 OE_2 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
8 29	19 16.57	−30 29.2	0.909	1.741	26.3	19.1	130 E	15	86
9 8	19 22.16	−30 16.6	0.960	1.720	29.8	19.3	122 E	15	86
9 18	19 32.07	−29 48.4	1.018	1.702	32.5	19.5	115 E	15	86
9 23	19 38.49	−29 28.5	1.050	1.694	33.5	19.6	111 E	16	87
9 28	19 45.77	−29 4.7	1.083	1.686	34.4	19.6	108 E	16	87
10 3	19 53.82	−28 37.0	1.117	1.680	35.1	19.7	105 E	16	87
10 8	20 2.54	−28 5.3	1.152	1.674	35.7	19.8	102 E	17	88
10 13	20 11.86	−27 29.5	1.188	1.669	36.2	19.9	99 E	18	89
10 18	20 21.71	−26 49.5	1.224	1.665	36.5	19.9	97 E	18	89
10 23	20 32.01	−26 5.4	1.262	1.661	36.7	20.0	94 E	19	88*
10 28	20 42.69	−25 17.1	1.300	1.659	36.8	20.1	92 E	20	85*
11 2	20 53.67	−24 24.8	1.339	1.657	36.8	20.1	89 E	21	82*
11 7	21 4.91	−23 28.5	1.379	1.656	36.7	20.2	87 E	22	79*
11 12	21 16.35	−22 28.3	1.419	1.656	36.5	20.2	85 E	23	76*
11 17	21 27.94	−21 24.4	1.460	1.657	36.3	20.3	83 E	24	73*
11 22	21 39.66	−20 16.9	1.502	1.659	36.0	20.4	81 E	25	70*
11 27	21 51.45	−19 6.2	1.544	1.662	35.6	20.4	79 E	26	67*
12 2	22 3.29	−17 52.5	1.588	1.665	35.2	20.5	77 E	27	64*
12 7	22 15.16	−16 36.1	1.631	1.669	34.7	20.5	75 E	28	61*
12 12	22 27.02	−15 17.3	1.676	1.674	34.2	20.6	73 E	30	58*
12 17	22 38.89	−13 56.3	1.721	1.680	33.6	20.6	71 E	31	55*
12 22	22 50.73	−12 33.4	1.767	1.686	33.0	20.7	69 E	32*	52*
12 27	23 2.54	−11 9.1	1.813	1.694	32.3	20.7	67 E	34*	50*
1 1	23 14.30	− 9 43.7	1.860	1.702	31.7	20.7	65 E	35*	47*
1 6	23 26.03	− 8 17.4	1.907	1.711	30.9	20.8	63 E	36*	44*
1 11	23 37.71	− 6 50.5	1.955	1.720	30.2	20.8	62 E	37*	42*
1 16	23 49.35	− 5 23.4	2.004	1.730	29.4	20.9	60 E	37*	39*

239825 1998 SO_{133}

4 1	19 7.50	−27 18.9	1.614	1.845	32.7	21.3	86 W	16*	80*
4 11	19 29.86	−27 6.8	1.490	1.815	33.5	21.2	91 W	16*	85*
4 21	19 51.56	−26 47.8	1.371	1.785	34.0	21.0	96 W	16*	89
5 1	20 12.33	−26 23.8	1.256	1.757	34.2	20.7	101 W	16*	90
5 11	20 31.92	−25 56.9	1.147	1.730	34.0	20.5	106 W	17*	90
5 21	20 50.02	−25 30.0	1.044	1.705	33.4	20.2	112 W	18*	89
5 31	21 6.22	−25 6.0	0.949	1.681	32.2	20.0	118 W	19*	89
6 10	21 20.08	−24 47.7	0.862	1.659	30.4	19.7	124 W	20*	89
6 20	21 31.05	−24 37.9	0.783	1.640	27.9	19.4	131 W	20*	89
6 30	21 38.51	−24 37.9	0.715	1.623	24.5	19.1	139 W	20	89
7 10	21 42.02	−24 46.8	0.658	1.609	20.2	18.7	147 W	20	89
7 15	21 42.19	−24 53.5	0.635	1.603	17.7	18.6	151 W	20	89
7 20	21 41.31	−25 0.7	0.615	1.597	15.1	18.4	156 W	20	89
7 25	21 39.45	−25 7.2	0.599	1.593	12.3	18.2	160 W	20	89
7 30	21 36.75	−25 11.6	0.587	1.589	9.7	18.1	165 W	20	89
8 4	21 33.42	−25 12.6	0.579	1.586	7.4	17.9	168 W	20	89
8 9	21 29.66	−25 9.1	0.575	1.583	6.3	17.9	170 W	20	89
8 14	21 25.75	−25 0.1	0.575	1.582	6.9	17.9	169 E	20	89
8 19	21 21.96	−24 45.1	0.580	1.581	9.0	18.0	166 E	20	89
8 24	21 18.58	−24 23.8	0.589	1.581	11.6	18.2	162 E	21	88
8 29	21 15.88	−23 56.3	0.602	1.581	14.5	18.3	157 E	21	88
9 3	21 14.01	−23 23.2	0.619	1.583	17.2	18.5	152 E	22	87
9 8	21 13.10	−22 45.0	0.639	1.585	19.8	18.6	148 E	22	87
9 13	21 13.19	−22 2.6	0.664	1.588	22.2	18.8	143 E	23	86
9 18	21 14.33	−21 16.4	0.691	1.592	24.4	18.9	139 E	24	85
9 28	21 19.63	−19 35.0	0.755	1.602	28.1	19.3	131 E	25	84
10 8	21 28.48	−17 44.6	0.829	1.615	30.9	19.6	124 E	27	82
10 18	21 40.23	−15 47.0	0.913	1.631	32.9	19.8	117 E	29	80
10 28	21 54.26	−13 43.5	1.004	1.649	34.2	20.1	111 E	31	78
11 7	22 9.99	−11 34.8	1.103	1.669	34.9	20.4	106 E	33	76
11 17	22 26.97	− 9 21.7	1.209	1.692	35.1	20.6	100 E	36	73*
11 27	22 44.88	− 7 4.8	1.320	1.716	34.9	20.8	95 E	38	69*
12 7	23 3.42	− 4 45.2	1.436	1.743	34.4	21.0	90 E	40	63*
12 17	23 22.45	− 2 23.8	1.556	1.770	33.6	21.2	85 E	43	57*
12 27	23 41.83	− 0 1.5	1.679	1.799	32.6	21.4	80 E	45	51*

376713 1995 WQ_5

4 1	19 13.01	−19 26.0	2.170	2.296	25.7	21.4	84 W	23*	77*
4 11	19 27.31	−19 52.0	1.999	2.249	26.5	21.2	91 W	23*	82*
4 21	19 40.84	−20 25.8	1.830	2.200	26.9	20.9	98 W	23*	84
5 1	19 53.40	−21 11.8	1.664	2.151	27.0	20.7	105 W	22*	85
5 11	20 4.79	−22 14.8	1.505	2.101	26.5	20.4	112 W	22*	86
5 21	20 14.72	−23 41.2	1.353	2.050	25.5	20.1	119 W	21*	88
5 26	20 19.01	−24 35.2	1.282	2.025	24.7	19.9	123 W	20*	89
5 31	20 22.79	−25 37.6	1.213	2.000	23.7	19.7	128 W	19*	90
6 5	20 26.00	−26 49.2	1.148	1.974	22.6	19.6	132 W	18	89
6 10	20 28.58	−28 10.7	1.086	1.949	21.2	19.4	136 W	17	88
6 15	20 30.43	−29 42.7	1.029	1.923	19.7	19.2	140 W	15	86
6 20	20 31.48	−31 25.5	0.976	1.898	18.1	19.0	145 W	14	85
6 25	20 31.65	−33 18.7	0.928	1.872	16.4	18.8	149 W	12	83

376713 1995 WQ_5 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
6 30	20 30.87	−35 21.4	0.885	1.847	14.8	18.6	152 W	10	81
7 5	20 29.08	−37 32.2	0.848	1.822	13.4	18.4	155 W	7	78
7 10	20 26.26	−39 48.7	0.816	1.797	12.7	18.3	157 W	5	76
7 15	20 22.38	−42 7.8	0.790	1.772	12.7	18.2	157 W	3	74
7 20	20 17.51	−44 25.8	0.770	1.747	13.7	18.1	156 W	1	72
7 25	20 11.80	−46 38.6	0.755	1.723	15.5	18.1	153 E	—	69
7 30	20 5.51	−48 42.6	0.746	1.699	17.9	18.1	149 E	—	67
8 4	19 58.96	−50 34.5	0.741	1.675	20.5	18.2	145 E	—	65
8 9	19 52.54	−52 12.3	0.741	1.652	23.2	18.2	140 E	—	64
8 14	19 46.66	−53 34.6	0.745	1.629	25.9	18.3	135 E	—	62
8 19	19 41.78	−54 41.0	0.751	1.607	28.5	18.4	131 E	—	61
8 24	19 38.31	−55 32.3	0.761	1.585	30.9	18.4	126 E	—	60
8 29	19 36.56	−56 9.4	0.772	1.565	33.1	18.5	122 E	—	60
9 3	19 36.74	−56 33.8	0.784	1.544	35.1	18.6	118 E	—	59
9 8	19 38.92	−56 46.5	0.798	1.525	36.9	18.6	115 E	—	59
9 13	19 43.11	−56 48.3	0.812	1.506	38.4	18.7	111 E	—	59
9 18	19 49.28	−56 39.8	0.826	1.489	39.8	18.7	108 E	—	59
9 23	19 57.30	−56 21.3	0.841	1.472	41.0	18.8	106 E	—	60
9 28	20 7.01	−55 53.0	0.855	1.457	42.1	18.8	103 E	—	60
10 3	20 18.18	−55 14.5	0.869	1.443	42.9	18.9	101 E	—	61
10 8	20 30.57	−54 25.5	0.882	1.430	43.7	18.9	99 E	—	62
10 13	20 43.98	−53 25.5	0.896	1.418	44.3	18.9	97 E	—	63
10 18	20 58.18	−52 14.3	0.909	1.408	44.8	19.0	95 E	—	64
10 23	21 12.95	−50 51.4	0.922	1.399	45.2	19.0	94 E	—	65
10 28	21 28.10	−49 16.9	0.934	1.391	45.5	19.0	92 E	—	67
11 2	21 43.42	−47 30.8	0.947	1.386	45.7	19.0	91 E	—	68
11 7	21 58.78	−45 33.3	0.961	1.381	45.8	19.1	90 E	—	70
11 12	22 14.06	−43 24.7	0.975	1.378	45.9	19.1	89 E	2	73
11 17	22 29.19	−41 5.8	0.990	1.377	45.9	19.1	88 E	4	75*
11 22	22 44.09	−38 37.4	1.006	1.378	45.7	19.2	87 E	6	77*
11 27	22 58.73	−36 0.7	1.024	1.380	45.6	19.2	87 E	9	79*
12 2	23 13.07	−33 16.7	1.043	1.383	45.3	19.2	86 E	12	79*
12 7	23 27.11	−30 26.9	1.065	1.389	45.0	19.3	85 E	15	79*
12 12	23 40.86	−27 32.6	1.089	1.395	44.6	19.3	84 E	17	78*
12 17	23 54.34	−24 35.1	1.115	1.404	44.2	19.4	84 E	20	76*
12 22	0 7.57	−21 36.0	1.144	1.413	43.7	19.4	83 E	23	73*
12 27	0 20.58	−18 36.8	1.175	1.425	43.1	19.5	82 E	26	70*
1 1	0 33.38	−15 38.7	1.209	1.437	42.5	19.6	81 E	29	67*
1 6	0 45.99	−12 43.0	1.246	1.451	41.9	19.6	80 E	32	63*
1 11	0 58.46	− 9 50.6	1.286	1.466	41.2	19.7	79 E	35	60*
1 16	1 10.81	− 7 2.5	1.329	1.482	40.5	19.8	78 E	38	57*

119866 2002 CL_{142}

4 1	19 19.39	−17 47.4	3.091	3.123	18.5	21.5	83 W	24*	75*
4 11	19 25.62	−17 15.2	2.974	3.152	18.5	21.4	91 W	25*	80*
4 21	19 29.97	−16 44.8	2.856	3.180	18.2	21.3	99 W	27*	81
5 1	19 32.26	−16 17.5	2.742	3.208	17.3	21.2	109 W	28*	80
5 11	19 32.37	−15 54.3	2.634	3.234	16.0	21.1	118 W	29*	80
5 21	19 30.21	−15 36.2	2.537	3.260	14.2	21.0	128 W	29	80
5 31	19 25.82	−15 23.9	2.456	3.285	11.8	20.9	139 W	30	79
6 10	19 19.43	−15 17.6	2.394	3.309	9.0	20.7	149 W	30	79
6 20	19 11.42	−15 17.1	2.358	3.332	5.9	20.5	160 W	30	79
6 30	19 2.41	−15 21.6	2.348	3.354	3.0	20.4	170 W	30	79
7 10	18 53.14	−15 30.2	2.367	3.376	2.7	20.4	171 E	29	80
7 20	18 44.38	−15 42.0	2.416	3.396	5.4	20.6	162 E	29	80
7 30	18 36.83	−15 55.9	2.492	3.416	8.3	20.8	151 E	29	80
8 9	18 31.01	−16 11.0	2.593	3.435	10.8	21.0	140 E	29	80
8 19	18 27.21	−16 26.7	2.714	3.453	13.0	21.2	130 E	29	80
8 29	18 25.55	−16 42.2	2.852	3.470	14.6	21.4	120 E	28	81

359401 2010 JB_{40}

4 1	19 34.28	−23 14.4	1.480	1.634	37.0	21.4	80 W	18*	74*
4 11	20 1.71	−22 27.7	1.386	1.614	38.1	21.3	83 W	18*	77*
4 21	20 28.49	−21 28.4	1.297	1.597	38.9	21.1	87 W	18*	80*
5 1	20 54.35	−20 19.0	1.213	1.583	39.5	21.0	90 W	19*	83*
5 11	21 19.03	−19 2.9	1.133	1.572	39.8	20.8	94 W	20*	83
5 21	21 42.30	−17 43.8	1.058	1.565	39.8	20.7	98 W	22*	82
5 31	22 3.80	−16 26.1	0.988	1.561	39.4	20.5	102 W	24*	80
6 10	22 23.22	−15 14.0	0.922	1.560	38.4	20.3	107 W	26*	79
6 20	22 40.14	−14 12.3	0.861	1.563	36.9	20.1	113 W	29*	78
6 30	22 54.07	−13 25.3	0.805	1.570	34.7	19.9	119 W	31*	77
7 10	23 4.50	−12 56.7	0.755	1.579	31.6	19.7	125 W	32*	77
7 20	23 10.90	−12 49.1	0.713	1.592	27.6	19.5	133 W	32	77
7 30	23 12.89	−13 2.3	0.680	1.609	22.7	19.3	142 W	32	77
8 4	23 12.23	−13 15.6	0.669	1.618	19.9	19.2	147 W	32	77
8 9	23 10.52	−13 32.2	0.660	1.627	16.8	19.1	152 W	31	78
8 14	23 7.87	−13 51.1	0.656	1.638	13.7	18.9	158 W	31	78
8 19	23 4.42	−14 10.9	0.655	1.649	10.5	18.8	163 W	31	78
8 24	23 0.39	−14 30.0	0.659	1.661	7.4	18.7	168 W	31	78
8 29	22 56.02	−14 46.8	0.667	1.673	5.0	18.7	172 W	30	79
9 3	22 51.58	−15 0.1	0.681	1.686	4.5	18.7	173 W	30	79

359401 2010 JB_{40} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 8	22 47.30	−15 8.8	0.699	1.699	6.2	18.9	169 E	30	79
9 13	22 43.41	−15 12.4	0.722	1.713	8.9	19.1	165 E	30	79
9 18	22 40.11	−15 10.4	0.749	1.727	11.7	19.3	160 E	30	79
9 28	22 35.83	−14 49.4	0.818	1.757	16.8	19.7	150 E	30	79
10 8	22 35.01	−14 7.8	0.903	1.788	21.1	20.1	140 E	31	78
10 18	22 37.59	−13 8.9	1.003	1.820	24.4	20.4	131 E	32	77
10 28	22 43.24	−11 55.9	1.114	1.853	26.7	20.8	123 E	33	76
11 7	22 51.42	−10 31.6	1.236	1.887	28.3	21.1	115 E	34	75
11 17	23 1.62	− 8 58.5	1.366	1.921	29.3	21.4	108 E	36	73

474181 1999 VP_{79}

4 1	20 6.33	+ 1 49.2	1.969	1.860	30.1	21.4	69 W	37*	53*
4 11	20 28.03	+ 5 14.9	1.861	1.823	31.5	21.3	72 W	40*	53*
4 21	20 49.54	+ 8 56.4	1.761	1.789	32.9	21.2	75 W	43*	52*
5 1	21 10.83	+12 50.7	1.667	1.757	34.1	21.1	78 W	47*	50*
5 11	21 31.90	+16 53.5	1.581	1.728	35.2	20.9	80 W	50*	47*
5 21	21 52.73	+21 0.3	1.502	1.702	36.2	20.8	83 W	54*	43
5 31	22 13.26	+25 5.8	1.430	1.678	37.0	20.7	85 W	59*	39
6 10	22 33.45	+29 4.2	1.363	1.658	37.7	20.6	87 W	64*	35
6 20	22 53.19	+32 50.5	1.301	1.642	38.2	20.5	89 W	70*	31
6 25	23 2.82	+34 37.3	1.271	1.636	38.4	20.4	91 W	73*	29
6 30	23 12.25	+36 18.9	1.241	1.630	38.6	20.4	92 W	76*	28
7 5	23 21.46	+37 54.7	1.212	1.626	38.6	20.3	93 W	79*	26
7 10	23 30.40	+39 24.1	1.183	1.622	38.6	20.3	95 W	82*	25
7 15	23 39.01	+40 46.6	1.154	1.620	38.6	20.2	96 W	85*	23
7 20	23 47.22	+42 1.4	1.126	1.619	38.4	20.1	98 W	87	22
7 25	23 54.95	+43 7.8	1.097	1.618	38.2	20.1	100 W	88	21
7 30	0 2.16	+44 5.0	1.069	1.619	37.8	20.0	102 W	89	20
8 4	0 8.75	+44 52.2	1.040	1.621	37.4	19.9	104 W	90	19
8 9	0 14.65	+45 28.6	1.012	1.624	36.8	19.9	107 W	90	19
8 14	0 19.77	+45 53.3	0.983	1.628	36.0	19.8	109 W	89	18
8 19	0 24.03	+46 5.0	0.955	1.633	35.0	19.7	112 W	89	18
8 24	0 27.39	+46 2.2	0.928	1.639	33.9	19.6	115 W	89	18
8 29	0 29.83	+45 43.8	0.902	1.646	32.5	19.5	119 W	89	18
9 3	0 31.38	+45 8.2	0.876	1.654	31.0	19.4	122 W	90	19
9 8	0 32.07	+44 14.3	0.853	1.663	29.2	19.3	126 W	89	20
9 13	0 31.99	+43 0.7	0.832	1.673	27.1	19.2	131 W	88	21
9 18	0 31.28	+41 26.6	0.814	1.683	24.8	19.1	135 W	86	23
9 23	0 30.12	+39 31.8	0.799	1.695	22.4	19.0	140 W	85	24
9 28	0 28.74	+37 17.3	0.789	1.707	19.9	18.9	145 W	82	27
10 3	0 27.33	+34 45.3	0.783	1.721	17.4	18.9	149 E	80	29
10 8	0 26.08	+31 59.0	0.784	1.735	15.1	18.8	153 E	77	32
10 13	0 25.15	+29 2.8	0.790	1.749	13.5	18.8	156 E	74	35
10 18	0 24.69	+26 1.6	0.803	1.765	12.7	18.8	157 E	71	38
10 23	0 24.80	+23 0.9	0.823	1.780	12.9	18.9	156 E	68	41
10 28	0 25.54	+20 5.8	0.850	1.797	14.0	19.0	154 E	65	44
11 2	0 26.93	+17 20.5	0.883	1.814	15.6	19.2	151 E	62	47
11 7	0 28.97	+14 48.2	0.923	1.832	17.5	19.4	146 E	60	49
11 12	0 31.62	+12 30.6	0.969	1.850	19.4	19.5	142 E	58	51
11 17	0 34.87	+10 28.9	1.019	1.868	21.2	19.7	137 E	55	54
11 27	0 42.98	+ 7 12.9	1.136	1.907	24.2	20.1	128 E	52	57
12 7	0 52.92	+ 4 55.0	1.267	1.946	26.3	20.5	119 E	50	59
12 17	1 4.32	+ 3 25.5	1.411	1.987	27.6	20.8	111 E	48	61
12 27	1 16.91	+ 2 34.6	1.563	2.029	28.1	21.1	103 E	48	61*
1 6	1 30.44	+ 2 13.2	1.721	2.071	28.2	21.3	96 E	47	59*

416676 2004 XO_5

4 1	20 11.62	−18 27.1	2.180	2.071	27.0	21.5	70 W	19*	64*
4 11	20 29.02	−16 8.1	2.034	2.034	28.5	21.3	76 W	21*	69*
4 21	20 45.57	−13 32.7	1.889	1.996	29.8	21.2	81 W	24*	72*
5 1	21 1.14	−10 40.0	1.746	1.958	30.9	21.0	86 W	27*	74*
5 11	21 15.63	− 7 29.0	1.607	1.920	31.7	20.8	91 W	31*	71
5 21	21 28.89	− 3 58.3	1.473	1.883	32.3	20.6	97 W	36*	68
5 31	21 40.69	− 0 6.9	1.346	1.846	32.5	20.3	102 W	41*	64
6 10	21 50.82	+ 4 5.9	1.227	1.809	32.4	20.1	107 W	47*	60
6 20	21 58.93	+ 8 39.8	1.118	1.774	32.0	19.8	112 W	53*	55
6 30	22 4.62	+13 32.5	1.021	1.740	31.3	19.6	117 W	59	50
7 5	22 6.42	+16 4.2	0.977	1.723	30.9	19.5	120 W	61	48
7 10	22 7.45	+18 38.2	0.937	1.707	30.4	19.3	122 W	64	45
7 15	22 7.63	+21 13.1	0.900	1.691	30.0	19.2	124 W	66	43
7 20	22 6.91	+23 47.1	0.866	1.676	29.5	19.1	126 W	69	40
7 25	22 5.25	+26 17.9	0.836	1.661	29.2	19.0	127 W	71	38
7 30	22 2.65	+28 43.1	0.810	1.646	28.9	18.9	128 W	74	35
8 4	21 59.13	+31 0.2	0.787	1.633	28.7	18.8	129 W	76	33
8 9	21 54.75	+33 6.7	0.768	1.619	28.6	18.7	130 W	78	31
8 14	21 49.62	+34 59.9	0.752	1.607	28.6	18.7	131 W	80	29
8 19	21 43.92	+36 37.5	0.739	1.595	28.8	18.6	131 E	82	27
8 24	21 37.90	+37 57.6	0.730	1.584	29.1	18.6	130 E	83	26
8 29	21 31.87	+38 59.3	0.723	1.573	29.6	18.6	130 E	84	25

416676 2004 XO_5 *(continuation)*

9 3	21 26.16	+39 42.5	0.718	1.564	30.1	18.6	129 E	85	24
9 8	21 21.07	+40 7.5	0.716	1.555	30.6	18.6	128 E	85	24
9 13	21 16.89	+40 15.3	0.716	1.547	31.2	18.6	127 E	85	24
9 18	21 13.88	+40 7.4	0.717	1.540	31.9	18.6	126 E	85	24
9 23	21 12.25	+39 45.6	0.721	1.534	32.5	18.6	125 E	85	24
9 28	21 12.11	+39 12.3	0.726	1.529	33.1	18.6	124 E	84	25
10 3	21 13.51	+38 29.6	0.732	1.524	33.6	18.6	122 E	83	26
10 8	21 16.45	+37 39.2	0.740	1.521	34.2	18.7	121 E	83	26
10 13	21 20.87	+36 42.8	0.750	1.519	34.7	18.7	120 E	82	27
10 18	21 26.74	+35 42.0	0.761	1.517	35.1	18.8	119 E	81	28
10 23	21 33.95	+34 38.5	0.774	1.517	35.5	18.8	118 E	80	29
10 28	21 42.40	+33 33.5	0.788	1.518	35.9	18.9	116 E	79	30
11 2	21 51.95	+32 28.2	0.804	1.519	36.3	18.9	115 E	77	32
11 7	22 2.47	+31 23.3	0.823	1.522	36.6	19.0	114 E	76	33
11 12	22 13.84	+30 19.7	0.843	1.526	36.8	19.0	112 E	75	34
11 17	22 25.95	+29 18.2	0.866	1.530	37.1	19.1	111 E	74	35*
11 22	22 38.67	+28 19.5	0.891	1.536	37.3	19.2	110 E	73	35*
11 27	22 51.90	+27 24.1	0.918	1.542	37.5	19.3	108 E	72	36*
12 2	23 5.50	+26 32.5	0.949	1.549	37.6	19.4	106 E	72	36*
12 7	23 19.39	+25 44.8	0.981	1.558	37.7	19.4	105 E	71	37*
12 12	23 33.48	+25 1.2	1.017	1.567	37.8	19.5	103 E	70	37*
12 17	23 47.69	+24 21.9	1.055	1.577	37.8	19.6	101 E	69	37*
12 22	0 1.98	+23 47.0	1.096	1.587	37.7	19.7	99 E	69	37*
12 27	0 16.26	+23 16.4	1.139	1.599	37.6	19.8	97 E	68	37*
1 1	0 30.50	+22 49.8	1.185	1.611	37.4	19.9	95 E	68	36*
1 6	0 44.66	+22 26.9	1.233	1.623	37.2	20.0	93 E	67	36*
1 11	0 58.72	+22 7.6	1.284	1.637	36.9	20.1	91 E	67	35*
1 16	1 12.66	+21 51.5	1.337	1.651	36.6	20.2	89 E	67	35*

208563 2002 CL_4

4 1	20 36.22	−16 10.3	2.321	2.089	25.5	21.5	64 W	18*	58*
4 11	20 55.75	−15 5.0	2.190	2.060	27.1	21.4	69 W	19*	63*
4 21	21 14.85	−13 55.4	2.059	2.031	28.4	21.3	74 W	20*	67*
5 1	21 33.44	−12 43.3	1.927	2.002	29.6	21.1	79 W	22*	71*
5 11	21 51.46	−11 30.6	1.796	1.973	30.6	21.0	84 W	24*	74*
5 21	22 8.85	−10 19.4	1.667	1.944	31.4	20.8	90 W	26*	74*
5 31	22 25.47	− 9 12.2	1.540	1.916	31.8	20.6	95 W	28*	73
6 10	22 41.18	− 8 11.7	1.417	1.889	31.9	20.4	101 W	31*	72
6 20	22 55.81	− 7 21.3	1.299	1.862	31.6	20.2	106 W	34*	71
6 30	23 9.07	− 6 44.7	1.187	1.837	30.7	19.9	113 W	37*	71
7 10	23 20.67	− 6 25.7	1.081	1.812	29.2	19.6	119 W	38*	70
7 20	23 30.18	− 6 28.6	0.985	1.789	27.0	19.3	127 W	39	70
7 30	23 37.14	− 6 57.3	0.898	1.767	24.0	19.0	135 W	38	71
8 9	23 41.15	− 7 53.8	0.824	1.747	20.1	18.7	144 W	37	72
8 19	23 41.88	− 9 17.3	0.764	1.729	15.3	18.3	153 W	36	73
8 24	23 41.01	−10 7.4	0.741	1.721	12.6	18.2	158 W	35	74
8 29	23 39.40	−11 1.2	0.721	1.713	9.9	18.0	163 W	34	75
9 3	23 37.16	−11 56.9	0.707	1.705	7.5	17.8	167 W	33	76
9 8	23 34.42	−12 52.5	0.697	1.699	5.9	17.7	170 W	32	77
9 13	23 31.35	−13 45.6	0.692	1.692	6.0	17.7	170 W	31	78
9 18	23 28.18	−14 34.0	0.693	1.687	7.8	17.8	167 E	30	79
9 23	23 25.13	−15 15.6	0.698	1.682	10.4	17.9	162 E	30	79
9 28	23 22.44	−15 48.9	0.707	1.677	13.3	18.0	157 E	29	80
10 3	23 20.30	−16 12.7	0.721	1.673	16.1	18.2	152 E	29	80
10 8	23 18.85	−16 26.6	0.739	1.670	18.8	18.3	147 E	29	80
10 18	23 18.43	−16 24.5	0.786	1.665	23.6	18.6	138 E	29	80
10 28	23 21.66	−15 45.1	0.845	1.663	27.5	18.9	129 E	29	80
11 7	23 28.38	−14 34.2	0.915	1.664	30.5	19.1	122 E	30	79
11 12	23 32.91	−13 48.8	0.953	1.665	31.6	19.2	118 E	31	78
11 17	23 38.16	−12 57.8	0.992	1.667	32.6	19.4	115 E	32	77
11 22	23 44.05	−12 1.8	1.034	1.670	33.4	19.5	111 E	33	76
11 27	23 50.52	−11 1.5	1.077	1.673	34.1	19.6	108 E	34	75
12 2	23 57.50	− 9 57.4	1.122	1.677	34.5	19.7	105 E	35	74
12 7	0 4.93	− 8 50.2	1.168	1.682	34.9	19.8	102 E	36	73*
12 17	0 20.98	− 6 28.2	1.263	1.692	35.3	20.0	97 E	39	69*
12 27	0 38.35	− 3 59.1	1.363	1.706	35.2	20.2	92 E	41	63*
1 6	0 56.75	− 1 26.2	1.466	1.721	34.8	20.3	87 E	44	58*
1 16	1 16.01	+ 1 7.6	1.572	1.738	34.1	20.5	82 E	46	52*

354525 2004 RZ_{90}

4 1	20 36.50	−14 40.0	1.852	1.672	32.4	21.4	64 W	19*	57*
4 11	21 1.70	−12 28.8	1.766	1.658	33.8	21.3	67 W	21*	60*
4 21	21 26.13	−10 6.3	1.683	1.647	35.1	21.3	70 W	22*	63*
5 1	21 49.70	− 7 35.4	1.602	1.638	36.2	21.2	74 W	24*	65*
5 11	22 12.36	− 4 58.9	1.523	1.632	37.1	21.1	77 W	27*	66*
5 21	22 34.04	− 2 19.8	1.446	1.629	37.8	21.0	81 W	30*	65*
5 31	22 54.62	+ 0 18.8	1.372	1.629	38.3	20.9	85 W	33*	64*
6 10	23 13.99	+ 2 53.8	1.299	1.631	38.5	20.8	89 W	37*	61
6 20	23 31.98	+ 5 22.0	1.228	1.636	38.3	20.7	93 W	42*	59

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
354525 2004 RZ_{90} *(continuation)*									
6 30	23 48.31	+ 7 39.9	1.159	1.644	37.8	20.5	98 W	47*	56
7 10	0 2.69	+ 9 44.3	1.092	1.654	36.7	20.4	103 W	52*	54
7 20	0 14.71	+11 31.6	1.028	1.667	35.1	20.2	109 W	56*	52
7 25	0 19.68	+12 17.4	0.997	1.674	34.1	20.1	113 W	57*	52
7 30	0 23.89	+12 57.3	0.968	1.682	32.9	20.0	116 W	58	51
8 4	0 27.27	+13 30.8	0.940	1.690	31.4	19.9	120 W	59	50
8 9	0 29.77	+13 57.2	0.913	1.699	29.8	19.8	124 W	59	50
8 14	0 31.34	+14 15.8	0.888	1.708	27.9	19.7	128 W	59	50
8 19	0 31.94	+14 26.2	0.865	1.718	25.8	19.6	132 W	59	50
8 29	0 30.26	+14 19.6	0.828	1.739	20.9	19.4	142 W	59	50
9 8	0 25.13	+13 35.9	0.805	1.762	15.3	19.2	153 W	59	50
9 18	0 17.54	+12 17.8	0.800	1.786	9.3	19.0	163 W	57	52
9 23	0 13.30	+11 28.5	0.805	1.799	6.6	18.9	168 W	56	53
9 28	0 9.07	+10 34.9	0.815	1.811	4.9	18.9	171 E	56	53
10 3	0 5.08	+ 9 39.1	0.830	1.825	5.3	18.9	170 E	55	54
10 8	0 1.50	+ 8 43.1	0.851	1.838	7.3	19.1	166 E	54	55
10 13	23 58.51	+ 7 48.9	0.878	1.851	9.8	19.3	161 E	53	56
10 18	23 56.22	+ 6 58.2	0.910	1.865	12.4	19.5	156 E	52	57
10 23	23 54.72	+ 6 12.4	0.947	1.879	14.9	19.7	151 E	51	58
10 28	23 54.06	+ 5 32.6	0.988	1.893	17.2	19.9	146 E	51	58
11 7	23 55.20	+ 4 32.8	1.083	1.922	21.1	20.2	136 E	50	59
11 17	23 59.44	+ 3 59.9	1.193	1.951	24.0	20.6	127 E	49	60
11 27	0 6.38	+ 3 52.2	1.315	1.981	26.1	20.9	118 E	49	60
12 7	0 15.57	+ 4 6.3	1.446	2.011	27.4	21.1	110 E	49	60
12 17	0 26.57	+ 4 38.6	1.584	2.040	28.1	21.4	103 E	50	58*
167068 2003 QY_{109}									
4 1	20 39.49	−21 3.8	3.330	3.041	17.3	21.4	65 W	13*	59*
4 11	20 50.87	−20 14.4	3.166	3.007	18.5	21.3	72 W	15*	66*
4 21	21 1.30	−19 25.5	2.997	2.972	19.4	21.2	79 W	17*	73*
5 1	21 10.61	−18 38.5	2.825	2.937	20.0	21.1	86 W	19*	79*
5 11	21 18.63	−17 54.3	2.651	2.901	20.3	20.9	94 W	21*	82
5 21	21 25.15	−17 14.4	2.479	2.865	20.2	20.8	102 W	24*	81
5 31	21 29.90	−16 40.2	2.312	2.827	19.7	20.6	110 W	26*	81
6 10	21 32.64	−16 13.0	2.151	2.789	18.6	20.3	119 W	28*	80
6 20	21 33.08	−15 54.0	2.002	2.751	16.8	20.1	128 W	29*	80
6 30	21 31.00	−15 43.8	1.866	2.711	14.4	19.8	138 W	29	80
7 10	21 26.29	−15 42.5	1.748	2.671	11.3	19.5	149 W	29	80
7 20	21 19.05	−15 48.9	1.652	2.631	7.5	19.2	160 W	29	80
7 30	21 9.70	−16 0.6	1.581	2.590	3.1	18.9	172 W	29	80
8 4	21 4.49	−16 7.4	1.555	2.569	0.8	18.6	178 W	29	80
8 9	20 59.09	−16 14.2	1.536	2.548	1.6	18.7	176 E	29	80
8 14	20 53.64	−16 20.5	1.524	2.527	4.1	18.8	170 E	29	80
8 19	20 48.30	−16 25.9	1.518	2.506	6.5	18.9	164 E	29	80
8 24	20 43.24	−16 30.1	1.519	2.485	8.9	19.0	158 E	28	81
8 29	20 38.60	−16 32.7	1.527	2.464	11.2	19.1	152 E	28	81
9 8	20 31.07	−16 32.5	1.558	2.421	15.4	19.2	140 E	28	81
9 18	20 26.41	−16 24.4	1.607	2.378	19.0	19.4	130 E	29	80
9 28	20 25.00	−16 8.1	1.671	2.335	21.9	19.5	120 E	29	80
10 8	20 26.84	−15 43.5	1.745	2.291	24.1	19.6	110 E	29	80
10 18	20 31.75	−15 10.3	1.824	2.248	25.7	19.7	102 E	30	79
10 28	20 39.45	−14 28.1	1.905	2.205	26.7	19.8	94 E	31	77*
11 7	20 49.57	−13 36.3	1.986	2.162	27.2	19.9	86 E	31	71*
11 17	21 1.80	−12 34.3	2.065	2.119	27.3	19.9	79 E	32	64*
11 27	21 15.86	−11 21.7	2.139	2.077	27.0	20.0	73 E	34*	56*
12 7	21 31.45	− 9 58.1	2.208	2.036	26.4	20.0	67 E	35*	49*
12 17	21 48.38	− 8 23.5	2.272	1.996	25.6	20.0	61 E	36*	42*
12 27	22 6.47	− 6 37.8	2.328	1.956	24.6	19.9	56 E	36*	35*
1 6	22 25.57	− 4 41.5	2.379	1.918	23.5	19.9	51 E	35*	29*
1 16	22 45.58	− 2 35.2	2.423	1.882	22.2	19.9	46 E	34*	24*
114824 2003 OB_{17}									
4 1	21 11.38	−13 22.6	2.533	2.129	22.7	21.4	55 W	16*	49*
4 11	21 30.77	−11 48.9	2.408	2.097	24.5	21.4	60 W	17*	54*
4 21	21 49.86	−10 9.5	2.279	2.065	26.2	21.3	65 W	19*	58*
5 1	22 8.61	− 8 25.6	2.149	2.032	27.7	21.1	70 W	21*	62*
5 11	22 27.02	− 6 38.5	2.018	2.000	29.1	21.0	74 W	23*	65*
5 21	22 45.05	− 4 49.4	1.888	1.969	30.3	20.9	79 W	26*	67*
5 31	23 2.66	− 3 0.0	1.758	1.937	31.4	20.7	84 W	29*	67*
6 10	23 19.78	− 1 12.0	1.631	1.907	32.2	20.5	89 W	33*	65
6 20	23 36.33	+ 0 32.7	1.507	1.877	32.7	20.3	94 W	37*	63
6 30	23 52.14	+ 2 11.9	1.387	1.848	32.9	20.1	99 W	42*	62
7 10	0 7.05	+ 3 43.1	1.272	1.820	32.7	19.9	105 W	46*	60
7 20	0 20.79	+ 5 3.5	1.162	1.793	32.0	19.7	111 W	49*	59
7 30	0 32.99	+ 6 9.6	1.059	1.768	30.8	19.4	117 W	51	58
8 9	0 43.26	+ 6 57.9	0.963	1.745	28.8	19.1	124 W	52	57
8 19	0 51.09	+ 7 24.4	0.877	1.724	26.1	18.8	132 W	52	57
8 29	0 55.97	+ 7 25.1	0.802	1.704	22.4	18.5	140 W	52	57

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
114824 2003 OB_{17} *(continuation)*									
9 8	0 57.60	+ 6 58.0	0.739	1.687	17.6	18.1	150 W	52	57
9 18	0 55.94	+ 6 3.1	0.692	1.672	11.8	17.7	160 W	51	58
9 23	0 54.03	+ 5 26.6	0.675	1.666	8.6	17.5	166 W	50	59
9 28	0 51.58	+ 4 45.9	0.663	1.660	5.2	17.3	171 W	50	59
10 3	0 48.79	+ 4 2.5	0.655	1.655	1.8	17.1	177 W	49	60
10 8	0 45.85	+ 3 18.4	0.652	1.651	2.1	17.1	177 E	48	61
10 13	0 42.98	+ 2 35.4	0.654	1.647	5.5	17.3	171 E	48	61
10 18	0 40.41	+ 1 55.7	0.661	1.644	9.0	17.5	165 E	47	62
10 23	0 38.34	+ 1 21.1	0.673	1.642	12.3	17.7	159 E	46	63
10 28	0 36.96	+ 0 53.0	0.689	1.641	15.4	17.8	154 E	46	63
11 2	0 36.38	+ 0 32.3	0.709	1.640	18.3	18.0	149 E	46	63
11 7	0 36.66	+ 0 19.7	0.733	1.640	21.0	18.1	144 E	45	64
11 17	0 39.93	+ 0 18.5	0.791	1.642	25.5	18.4	134 E	45	64
11 27	0 46.75	+ 0 47.9	0.861	1.648	29.0	18.7	126 E	46	63
12 7	0 56.71	+ 1 43.2	0.940	1.656	31.5	19.0	119 E	47	62
12 17	1 9.32	+ 2 58.9	1.028	1.667	33.2	19.3	112 E	48	61
12 27	1 24.14	+ 4 29.8	1.122	1.680	34.3	19.5	106 E	49	59*
1 6	1 40.72	+ 6 10.8	1.223	1.697	34.8	19.7	100 E	51	56*
1 16	1 58.75	+ 7 57.5	1.328	1.715	34.9	19.9	95 E	53	53*
314004 2004 TG_{366}									
4 1	21 19.52	−17 34.4	2.170	1.788	27.1	21.5	55 W	11*	49*
4 11	21 44.62	−15 58.8	2.074	1.767	28.8	21.4	58 W	12*	52*
4 21	22 9.41	−14 15.1	1.979	1.747	30.5	21.3	62 W	13*	56*
5 1	22 33.84	−12 25.5	1.885	1.728	32.0	21.2	65 W	14*	59*
5 11	22 57.89	−10 32.0	1.793	1.712	33.4	21.1	69 W	16*	62*
5 21	23 21.54	− 8 36.8	1.702	1.697	34.6	21.0	72 W	18*	65*
5 31	23 44.71	− 6 42.4	1.614	1.685	35.7	20.9	76 W	20*	67*
6 10	0 7.34	− 4 51.1	1.528	1.675	36.6	20.8	80 W	24*	67*
6 20	0 29.34	− 3 5.3	1.444	1.667	37.3	20.7	83 W	27*	67*
6 30	0 50.54	− 1 27.5	1.362	1.662	37.7	20.6	87 W	32*	65
7 10	1 10.75	− 0 0.0	1.283	1.659	37.8	20.5	92 W	36*	64
7 20	1 29.71	+ 1 15.1	1.206	1.659	37.5	20.3	96 W	41*	63
7 30	1 47.05	+ 2 15.9	1.132	1.661	36.8	20.2	101 W	45*	62
8 9	2 2.36	+ 3 1.1	1.061	1.666	35.6	20.0	107 W	48*	61
8 19	2 15.14	+ 3 29.6	0.993	1.674	33.8	19.8	113 W	48	61
8 29	2 24.76	+ 3 41.0	0.931	1.683	31.2	19.6	120 W	49	60
9 8	2 30.70	+ 3 36.4	0.876	1.695	27.8	19.4	128 W	49	60
9 18	2 32.44	+ 3 18.0	0.830	1.710	23.5	19.2	137 W	48	61
9 23	2 31.66	+ 3 4.8	0.811	1.718	21.0	19.1	142 W	48	61
9 28	2 29.81	+ 2 50.0	0.796	1.726	18.3	18.9	147 W	48	61
10 3	2 26.97	+ 2 34.6	0.785	1.735	15.5	18.8	152 W	48	61
10 8	2 23.26	+ 2 19.6	0.778	1.744	12.6	18.7	158 W	47	62
10 13	2 18.84	+ 2 6.0	0.776	1.754	9.7	18.6	163 W	47	62
10 18	2 13.91	+ 1 55.0	0.779	1.764	7.3	18.5	167 W	47	62
10 23	2 8.73	+ 1 47.8	0.787	1.775	5.9	18.5	169 W	47	62
10 28	2 3.57	+ 1 45.1	0.801	1.786	6.3	18.6	169 E	47	62
11 7	1 54.24	+ 1 55.7	0.844	1.808	10.6	18.9	160 E	47	62
11 17	1 47.42	+ 2 28.3	0.908	1.832	15.6	19.3	150 E	47	62
11 27	1 44.04	+ 3 21.6	0.991	1.858	20.0	19.6	140 E	48	61
12 7	1 44.26	+ 4 31.7	1.088	1.884	23.4	20.0	131 E	50	59
12 17	1 47.85	+ 5 54.5	1.199	1.910	26.0	20.3	122 E	51	58
12 27	1 54.42	+ 7 26.3	1.320	1.938	27.7	20.6	114 E	52	57
1 6	2 3.50	+ 9 3.5	1.449	1.966	28.7	20.8	106 E	54	55*
1 16	2 14.65	+10 43.5	1.583	1.994	29.1	21.1	99 E	56	51*
436030 2009 JO_2									
4 1	21 37.40	−17 24.5	0.201	0.886	119.3	20.3	51 W	9*	45*
4 6	21 3.77	−11 32.8	0.181	0.928	108.6	19.5	62 W	20*	55*
4 11	20 27.22	− 4 3.0	0.167	0.969	96.8	18.8	74 W	32*	61*
4 16	19 47.57	+ 4 38.1	0.159	1.007	84.3	18.3	87 W	45*	59*
4 21	19 5.01	+13 32.7	0.160	1.043	72.0	17.9	99 W	58*	50
4 23	18 47.40	+16 53.5	0.162	1.056	67.5	17.8	104 W	62*	47
4 25	18 29.64	+20 0.2	0.166	1.070	63.3	17.8	108 W	65	44
4 27	18 11.89	+22 49.4	0.171	1.083	59.5	17.8	112 W	68	41
4 29	17 54.32	+25 19.0	0.177	1.095	56.1	17.8	116 W	70	39
5 1	17 37.12	+27 27.9	0.184	1.107	53.1	17.8	118 W	72	37
5 3	17 20.46	+29 16.3	0.193	1.119	50.6	17.8	121 W	74	35
5 5	17 4.50	+30 45.0	0.202	1.131	48.6	17.9	123 W	76	33
5 7	16 49.34	+31 55.5	0.212	1.142	46.9	18.0	124 W	77	32
5 9	16 35.09	+32 49.7	0.222	1.152	45.6	18.1	125 W	78	31
5 11	16 21.78	+33 29.4	0.234	1.163	44.6	18.2	126 W	78	31
5 13	16 9.45	+33 56.5	0.245	1.173	43.9	18.3	126 W	79	30
5 15	15 58.09	+34 12.7	0.258	1.182	43.4	18.4	126 W	79	30
5 17	15 47.68	+34 19.5	0.271	1.192	43.2	18.5	126 W	79	30
5 19	15 38.20	+34 18.5	0.284	1.201	43.0	18.6	126 E	79	30
5 21	15 29.60	+34 10.8	0.298	1.209	43.0	18.7	125 E	79	30
5 23	15 21.84	+33 57.6	0.312	1.217	43.1	18.9	125 E	79	30

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
436030 2009 JO_2 *(continuation)*									
5 25	15 14.86	+33 39.7	0.326	1.225	43.3	19.0	124 E	79	30
5 27	15 8.62	+33 17.9	0.341	1.233	43.5	19.1	123 E	78	31
5 29	15 3.05	+32 53.0	0.356	1.240	43.8	19.2	122 E	78	31
5 31	14 58.11	+32 25.5	0.371	1.247	44.1	19.3	121 E	77	32
6 5	14 48.19	+31 8.5	0.409	1.263	44.9	19.6	119 E	76	33
6 10	14 41.18	+29 43.7	0.448	1.276	45.7	19.8	116 E	75	34
6 15	14 36.53	+28 14.2	0.488	1.287	46.6	20.1	113 E	73	36
6 20	14 33.83	+26 42.2	0.528	1.297	47.4	20.3	110 E	72	37
6 25	14 32.74	+25 8.9	0.568	1.304	48.1	20.5	107 E	70*	39
6 30	14 33.01	+23 35.4	0.607	1.309	48.7	20.6	105 E	68*	40
7 5	14 34.41	+22 2.4	0.646	1.312	49.3	20.8	102 E	65*	42
7 10	14 36.76	+20 30.2	0.684	1.313	49.8	20.9	99 E	63*	43
7 15	14 39.95	+18 58.9	0.721	1.312	50.3	21.0	97 E	60*	45
7 20	14 43.86	+17 28.6	0.757	1.309	50.7	21.2	94 E	57*	47
7 25	14 48.44	+15 59.4	0.791	1.304	51.1	21.3	92 E	55*	48
7 30	14 53.60	+14 31.5	0.823	1.297	51.5	21.3	89 E	53*	49
8 4	14 59.29	+13 4.8	0.854	1.288	51.9	21.4	87 E	51*	51
8 9	15 5.45	+11 39.3	0.883	1.276	52.2	21.5	84 E	49*	52*
94210 2001 BK_{33}									
4 1	21 37.54	−14 50.4	3.298	2.759	16.0	21.5	50 W	11*	44*
4 11	21 51.57	−13 30.7	3.155	2.721	17.7	21.4	56 W	13*	50*
4 21	22 5.13	−12 9.2	3.003	2.683	19.3	21.3	62 W	15*	56*
5 1	22 18.13	−10 46.7	2.845	2.644	20.7	21.2	68 W	18*	61*
5 11	22 30.49	− 9 24.1	2.682	2.604	22.0	21.1	75 W	21*	66*
5 21	22 42.10	− 8 2.3	2.516	2.564	23.0	20.9	81 W	24*	70*
5 31	22 52.83	− 6 42.4	2.349	2.523	23.7	20.8	88 W	27*	71*
6 10	23 2.51	− 5 25.5	2.183	2.481	24.1	20.6	95 W	32*	69
6 20	23 10.94	− 4 12.9	2.019	2.439	24.1	20.4	102 W	36*	68
6 30	23 17.86	− 3 6.3	1.859	2.396	23.6	20.2	109 W	40*	67
7 10	23 22.96	− 2 7.2	1.706	2.352	22.6	19.9	117 W	43*	66
7 20	23 25.89	− 1 17.8	1.562	2.309	20.9	19.6	126 W	44	65
7 30	23 26.29	− 0 40.2	1.431	2.265	18.5	19.3	135 W	44	65
8 9	23 23.88	− 0 16.5	1.314	2.221	15.2	19.0	145 W	45	64
8 19	23 18.55	− 0 8.5	1.215	2.177	11.1	18.6	155 W	45	64
8 29	23 10.54	− 0 16.4	1.137	2.132	6.3	18.2	167 W	45	64
9 8	23 0.64	− 0 38.2	1.083	2.088	2.5	17.8	175 E	44	65
9 13	22 55.34	− 0 52.9	1.065	2.067	3.8	17.9	172 E	44	65
9 18	22 50.07	− 1 9.1	1.053	2.045	6.4	18.0	167 E	44	65
9 23	22 45.03	− 1 25.8	1.048	2.023	9.3	18.0	161 E	44	65
9 28	22 40.43	− 1 42.1	1.047	2.002	12.1	18.1	155 E	43	66
10 3	22 36.43	− 1 56.9	1.052	1.980	14.9	18.2	149 E	43	66
10 8	22 33.17	− 2 9.4	1.062	1.959	17.6	18.3	144 E	43	66
10 13	22 30.77	− 2 18.9	1.076	1.938	20.0	18.4	138 E	43	66
10 18	22 29.30	− 2 24.9	1.094	1.917	22.3	18.5	133 E	43	66
10 28	22 29.34	− 2 24.2	1.139	1.877	26.3	18.6	123 E	43	66
11 7	22 33.27	− 2 5.2	1.193	1.838	29.4	18.8	114 E	43	66
11 17	22 40.84	− 1 27.4	1.253	1.801	31.8	18.9	106 E	44	65
11 27	22 51.66	− 0 31.0	1.316	1.765	33.5	19.0	99 E	44	63*
12 7	23 5.30	+ 0 42.7	1.380	1.732	34.6	19.1	93 E	46	59*
12 17	23 21.37	+ 2 12.4	1.444	1.702	35.3	19.2	87 E	47	53*
12 27	23 39.56	+ 3 56.2	1.507	1.674	35.5	19.3	82 E	49	48*
1 6	23 59.59	+ 5 51.7	1.570	1.650	35.5	19.3	77 E	51*	43*
1 16	0 21.27	+ 7 56.4	1.631	1.629	35.1	19.4	72 E	52*	38*
163373 2002 PZ_{39}									
4 1	22 29.45	−11 44.0	0.497	0.671	116.9	21.1	37 W	5*	31*
4 6	22 38.39	−10 40.6	0.567	0.666	108.1	20.8	39 W	6*	33*
4 11	22 48.97	− 9 25.7	0.639	0.671	99.8	20.7	41 W	7*	35*
4 16	23 0.73	− 8 2.0	0.709	0.684	92.1	20.6	43 W	8*	37*
4 21	23 13.23	− 6 32.5	0.777	0.706	85.2	20.6	44 W	9*	38*
4 26	23 26.09	− 4 59.8	0.842	0.734	79.1	20.6	46 W	10*	40*
5 1	23 39.03	− 3 26.1	0.902	0.767	73.8	20.7	47 W	11*	41*
5 6	23 51.84	− 1 53.2	0.957	0.805	69.2	20.8	48 W	12*	42*
5 11	0 4.38	− 0 22.2	1.007	0.847	65.4	20.9	50 W	13*	43*
5 16	0 16.56	+ 1 5.8	1.051	0.890	62.1	21.0	51 W	14*	44*
5 21	0 28.33	+ 2 30.3	1.091	0.935	59.4	21.1	53 W	15*	45*
5 26	0 39.65	+ 3 50.9	1.125	0.981	57.0	21.2	54 W	17*	46*
5 31	0 50.49	+ 5 7.2	1.153	1.027	55.1	21.3	56 W	19*	47*
6 5	1 0.84	+ 6 19.2	1.177	1.073	53.4	21.4	58 W	21*	48*
6 10	1 10.71	+ 7 26.9	1.196	1.119	51.9	21.4	60 W	23*	49*
488693 2003 WW_{87}									
4 1	22 34.52	−48 25.5	2.257	1.956	26.2	21.4	60 W	—	37*
4 6	22 53.60	−47 42.3	2.195	1.919	27.1	21.3	61 W	—	38*
4 11	23 12.65	−46 51.6	2.135	1.883	28.0	21.3	62 W	—	38*
4 16	23 31.60	−45 53.2	2.077	1.846	28.9	21.2	63 W	—	39*
4 21	23 50.39	−44 47.2	2.021	1.809	29.8	21.1	63 W	—	39*
4 26	0 8.94	−43 33.6	1.968	1.772	30.7	21.0	64 W	—	40*
5 1	0 27.18	−42 12.7	1.917	1.735	31.5	21.0	64 W	—	40*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
488693 2003 WW_{87} *(continuation)*									
5 6	0 45.08	−40 44.5	1.868	1.698	32.4	20.9	64 W	—	41*
5 11	1 2.58	−39 9.4	1.822	1.662	33.3	20.8	65 W	—	42*
5 16	1 19.68	−37 27.7	1.779	1.625	34.2	20.7	65 W	—	43*
5 21	1 36.33	−35 39.9	1.737	1.588	35.1	20.6	64 W	—	44*
5 26	1 52.53	−33 46.4	1.698	1.552	36.0	20.6	64 W	—	45*
5 31	2 8.28	−31 47.7	1.661	1.517	36.9	20.5	64 W	—	46*
6 5	2 23.57	−29 44.0	1.625	1.481	37.8	20.4	63 W	—	47*
6 10	2 38.43	−27 35.7	1.592	1.447	38.7	20.4	63 W	—	49*
6 20	3 6.96	−23 6.3	1.528	1.380	40.5	20.2	62 W	—	51*
6 30	3 34.09	−18 20.9	1.468	1.318	42.4	20.1	61 W	—	53*
7 10	4 0.16	−13 18.9	1.410	1.261	44.3	20.0	60 W	1*	54*
7 20	4 25.66	− 7 58.6	1.353	1.212	46.3	19.8	60 W	9*	53*
7 30	4 51.12	− 2 17.5	1.296	1.171	48.3	19.7	59 W	17*	52*
8 9	5 17.20	+ 3 47.1	1.240	1.142	50.2	19.6	60 W	26*	49*
8 19	5 44.73	+10 15.9	1.187	1.125	51.9	19.5	61 W	35*	45*
8 24	5 59.31	+13 38.7	1.162	1.121	52.5	19.5	62 W	39*	42*
8 29	6 14.58	+17 6.2	1.139	1.120	53.1	19.5	63 W	44*	39*
9 3	6 30.68	+20 37.0	1.118	1.123	53.5	19.5	64 W	48*	36*
9 8	6 47.75	+24 9.4	1.100	1.130	53.7	19.4	65 W	52*	32*
9 13	7 5.89	+27 41.3	1.085	1.139	53.7	19.4	66 W	55*	29*
9 18	7 25.21	+31 9.9	1.073	1.152	53.6	19.4	67 W	59*	25*
9 23	7 45.77	+34 32.3	1.065	1.167	53.2	19.4	69 W	62*	22*
9 28	8 7.64	+37 45.5	1.061	1.185	52.6	19.4	70 W	64*	18*
10 3	8 30.79	+40 46.4	1.060	1.206	51.9	19.4	72 W	66*	15*
10 8	8 55.16	+43 32.3	1.064	1.229	51.0	19.5	73 W	67*	11*
10 13	9 20.59	+46 1.0	1.071	1.254	50.1	19.5	75 W	67*	8*
10 18	9 46.80	+48 11.3	1.081	1.282	49.0	19.5	76 W	68*	5*
10 23	10 13.48	+50 2.7	1.094	1.310	47.8	19.6	78 W	67*	3*
10 28	10 40.23	+51 35.8	1.110	1.341	46.7	19.6	79 W	67*	—
11 2	11 6.68	+52 52.0	1.128	1.372	45.5	19.7	80 W	67*	—
11 7	11 32.46	+53 53.4	1.148	1.405	44.3	19.7	82 W	67*	—
11 12	11 57.25	+54 42.7	1.169	1.438	43.1	19.8	83 W	67*	—
11 17	12 20.79	+55 22.8	1.192	1.473	41.9	19.9	84 W	67*	—
11 22	12 42.92	+55 56.4	1.215	1.508	40.8	19.9	86 W	68*	—
11 27	13 3.54	+56 26.0	1.238	1.543	39.7	20.0	87 W	68*	—
12 2	13 22.62	+56 53.9	1.262	1.579	38.6	20.0	88 W	69*	—
12 7	13 40.17	+57 22.1	1.285	1.616	37.6	20.1	90 W	70*	—
12 17	14 10.73	+58 25.5	1.332	1.689	35.6	20.2	92 W	71*	—
12 27	14 35.35	+59 45.2	1.377	1.763	33.7	20.3	95 W	72*	—
1 6	14 54.04	+61 24.9	1.421	1.837	32.0	20.4	98 W	72*	—
1 16	15 6.36	+63 25.2	1.465	1.910	30.4	20.5	101 W	71*	—
101869 1999 MM									
4 1	22 52.54	− 7 55.2	1.574	0.868	35.2	21.3	30 W	4*	24*
4 6	23 18.56	− 5 29.7	1.553	0.819	35.1	21.2	28 W	3*	22*
4 11	23 45.33	− 2 53.9	1.539	0.773	34.4	21.0	26 W	2*	20*
4 16	0 12.82	− 0 10.1	1.534	0.730	33.0	20.8	23 W	1*	17*
4 21	0 40.98	+ 2 38.9	1.536	0.694	30.8	20.7	21 W	—	15*
4 26	1 9.74	+ 5 29.5	1.546	0.664	27.7	20.5	18 W	—	12*
5 1	1 39.01	+ 8 17.7	1.562	0.644	23.8	20.3	15 W	—	9*
5 6	2 8.66	+10 59.2	1.584	0.633	19.4	20.2	12 W	—	6*
5 11	2 38.52	+13 29.8	1.610	0.634	14.8	20.1	9 W	—	3*
5 16	3 8.37	+15 45.9	1.641	0.646	10.2	20.0	7 W	—	—
5 21	3 37.98	+17 44.5	1.674	0.668	6.2	19.9	4 W	—	—
5 26	4 7.11	+19 23.8	1.711	0.699	3.0	19.9	2 W	—	—
5 31	4 35.52	+20 43.0	1.750	0.737	1.9	20.0	1 E	—	—
6 5	5 3.03	+21 42.6	1.792	0.780	3.3	20.2	3 E	—	—
6 10	5 29.50	+22 23.7	1.837	0.826	4.6	20.5	4 E	—	—
6 15	5 54.83	+22 47.8	1.884	0.876	5.5	20.7	5 E	—	—
6 20	6 18.96	+22 56.8	1.933	0.926	6.1	20.9	6 E	—	—
6 25	6 41.87	+22 52.8	1.983	0.978	6.3	21.1	6 E	—	—
6 30	7 3.56	+22 37.6	2.035	1.030	6.2	21.3	6 E	—	—
7 5	7 24.07	+22 13.2	2.087	1.082	5.9	21.4	6 E	—	—
415713 1998 XX_2									
4 1	22 56.48	− 6 23.3	0.848	0.478	93.5	21.3	29 W	5*	22*
4 3	23 2.77	− 6 14.3	0.889	0.485	88.3	21.2	29 W	4*	23*
4 5	23 9.53	− 5 59.4	0.929	0.493	83.4	21.1	29 W	4*	23*
4 7	23 16.65	− 5 39.3	0.968	0.503	78.8	21.1	30 W	4*	24*
4 9	23 24.05	− 5 14.8	1.007	0.514	74.6	21.1	30 W	4*	24*
4 11	23 31.63	− 4 46.4	1.044	0.527	70.7	21.1	30 W	3*	24*
4 16	23 51.07	− 3 22.9	1.133	0.561	62.3	21.1	30 W	3*	24*
4 21	0 10.66	− 1 47.1	1.213	0.598	55.7	21.2	29 W	2*	23*
4 26	0 30.04	− 0 4.9	1.284	0.638	50.4	21.3	29 W	2*	23*
5 1	0 49.02	+ 1 39.9	1.348	0.677	46.3	21.5	29 W	2*	23*