471034 2009 TG_8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 45.94	−16 41.6	0.985	1.935	13.7	21.4	153 W	28	81
4 26	15 40.01	−15 18.2	0.980	1.954	10.5	21.3	159 W	30	79
5 1	15 33.60	−13 53.6	0.981	1.972	7.4	21.2	165 W	31	78
5 6	15 26.96	−12 29.6	0.989	1.991	4.6	21.1	171 W	33	76
5 11	15 20.32	−11 8.5	1.003	2.009	3.5	21.1	173 W	34	75
5 16	15 13.92	− 9 52.2	1.024	2.027	5.1	21.2	170 E	35	74
5 21	15 7.95	− 8 42.2	1.051	2.044	7.7	21.4	164 E	36	73
5 26	15 2.59	− 7 39.9	1.085	2.061	10.4	21.6	159 E	37	72
5 31	14 57.97	− 6 46.1	1.124	2.078	12.9	21.8	153 E	38	71
6 5	14 54.17	− 6 1.1	1.169	2.094	15.3	22.0	147 E	39	70
6 10	14 51.22	− 5 24.9	1.219	2.110	17.4	22.2	141 E	40	69

363403 2003 OY_7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 46.01	−16 3.8	1.427	2.366	11.1	21.2	153 W	29	80
5 1	15 38.24	−15 12.3	1.349	2.335	6.7	20.9	164 W	30	79
5 11	15 28.45	−14 14.9	1.296	2.304	2.3	20.5	175 W	31	78
5 21	15 17.81	−13 16.8	1.270	2.272	4.7	20.6	169 E	32	77
5 31	15 7.67	−12 24.4	1.268	2.240	9.9	20.8	158 E	33	76
6 10	14 59.36	−11 44.2	1.290	2.207	14.8	21.0	146 E	33	76
6 20	14 53.77	−11 20.3	1.331	2.174	19.2	21.2	135 E	34	75
6 30	14 51.40	−11 14.7	1.387	2.141	22.8	21.4	125 E	34*	75

496874 2000 SN_{21}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 46.25	−31 59.3	1.571	2.479	12.6	21.9	148 W	13	84
4 26	15 41.79	−32 13.9	1.527	2.464	10.8	21.8	153 W	13	84
5 1	15 36.61	−32 24.1	1.488	2.449	9.1	21.6	158 W	13	84
5 6	15 30.84	−32 29.5	1.455	2.434	7.4	21.5	162 W	13	84
5 11	15 24.63	−32 29.7	1.429	2.419	6.2	21.4	165 W	13	84
5 16	15 18.14	−32 24.6	1.410	2.404	5.7	21.3	166 E	13	84
5 21	15 11.59	−32 14.2	1.396	2.388	6.3	21.3	165 E	13	84
5 26	15 5.20	−31 59.2	1.390	2.373	7.8	21.3	162 E	13	84
5 31	14 59.16	−31 40.1	1.390	2.357	9.6	21.4	157 E	13	84
6 5	14 53.66	−31 18.1	1.395	2.341	11.7	21.5	152 E	14	85
6 10	14 48.84	−30 54.2	1.407	2.325	13.8	21.6	147 E	14	85

417462 2006 QH_{55}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 47.46	−36 37.4	2.499	3.370	9.9	22.4	145 W	8	79
4 26	15 42.89	−36 41.3	2.460	3.367	8.7	22.3	150 W	8	79
5 1	15 37.87	−36 41.1	2.428	3.363	7.5	22.2	154 W	8	79
5 6	15 32.52	−36 36.5	2.402	3.359	6.4	22.1	158 W	8	79
5 11	15 26.94	−36 27.5	2.383	3.355	5.6	22.1	161 W	9	80
5 16	15 21.27	−36 14.1	2.372	3.350	5.2	22.0	163 E	9	80
5 21	15 15.63	−35 56.6	2.367	3.346	5.3	22.0	162 E	9	80
5 26	15 10.15	−35 35.5	2.370	3.341	5.9	22.1	160 E	9	80
5 31	15 4.96	−35 11.2	2.380	3.336	6.9	22.1	157 E	10	81
6 5	15 0.16	−34 44.6	2.397	3.330	8.1	22.2	153 E	10	81
6 10	14 55.85	−34 16.2	2.420	3.324	9.3	22.2	148 E	11	82

523630 2009 OG

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 50.68	−74 59.2	4.298	4.808	10.9	23.5	115 W	—	41
4 23	15 45.74	−75 5.6	4.288	4.812	10.8	23.5	116 W	—	41
4 25	15 40.61	−75 11.0	4.279	4.816	10.7	23.4	117 W	—	41
4 27	15 35.31	−75 15.1	4.270	4.820	10.7	23.4	118 W	—	41
4 29	15 29.86	−75 18.1	4.262	4.825	10.6	23.4	119 W	—	41
5 1	15 24.31	−75 19.7	4.254	4.829	10.5	23.4	119 W	—	41
5 3	15 18.68	−75 20.1	4.248	4.833	10.4	23.4	120 W	—	41
5 5	15 12.99	−75 19.2	4.242	4.837	10.3	23.4	121 W	—	41
5 7	15 7.29	−75 17.0	4.236	4.841	10.2	23.4	122 W	—	41
5 9	15 1.59	−75 13.4	4.232	4.845	10.2	23.4	122 E	—	41
5 11	14 55.95	−75 8.5	4.228	4.848	10.1	23.4	123 E	—	41
5 13	14 50.37	−75 2.3	4.225	4.852	10.0	23.4	123 E	—	41
5 15	14 44.90	−74 54.9	4.222	4.856	10.0	23.4	124 E	—	41
5 17	14 39.56	−74 46.2	4.221	4.860	9.9	23.4	124 E	—	41
5 19	14 34.37	−74 36.3	4.220	4.863	9.9	23.4	124 E	—	41
5 21	14 29.37	−74 25.2	4.220	4.867	9.9	23.4	125 E	—	42
5 23	14 24.55	−74 13.0	4.221	4.871	9.8	23.4	125 E	—	42
5 25	14 19.96	−73 59.7	4.223	4.874	9.8	23.4	125 E	—	42
5 27	14 15.58	−73 45.5	4.225	4.878	9.8	23.4	125 E	—	42

484725 2008 XP_2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 51.03	−12 30.2	1.579	2.510	10.9	22.0	152 W	32	77
5 1	15 38.32	−12 51.9	1.535	2.520	6.3	21.7	164 W	32	77
5 11	15 23.95	−13 14.8	1.520	2.528	2.2	21.5	175 W	32	77
5 21	15 9.32	−13 39.4	1.535	2.534	4.8	21.7	168 E	31	78
5 31	14 55.89	−14 7.1	1.580	2.539	9.4	21.9	156 E	31	78
6 10	14 44.81	−14 39.4	1.650	2.542	13.6	22.2	144 E	30	79

369406 2009 WO_{25}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 51.96	−32 30.7	2.840	3.718	8.6	22.3	146 W	12	83
5 1	15 43.31	−32 30.4	2.788	3.733	6.2	22.2	156 W	12	83
5 11	15 33.65	−32 17.7	2.764	3.748	4.1	22.0	165 W	13	84
5 21	15 23.73	−31 53.4	2.769	3.761	3.5	22.0	167 E	13	84

369406 2009 WO_{25} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 31	15 14.36	−31 19.8	2.804	3.773	5.2	22.2	160 E	14	85
6 10	15 6.25	−30 40.7	2.867	3.785	7.5	22.3	151 E	14	85

400542 2008 UX_{226}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 51.97	−23 21.9	1.290	2.219	13.1	21.6	150 W	22	87
5 1	15 43.59	−23 5.2	1.202	2.181	8.4	21.3	162 W	22	87
5 11	15 32.49	−22 34.3	1.137	2.143	3.1	20.8	173 W	22	87
5 21	15 19.93	−21 50.5	1.097	2.104	3.7	20.8	172 E	23	86
5 31	15 7.62	−20 58.7	1.082	2.065	9.5	21.0	160 E	24	85
6 10	14 57.30	−20 6.9	1.089	2.025	15.3	21.2	148 E	25	84
6 20	14 50.17	−19 23.1	1.116	1.984	20.5	21.3	137 E	26	83

257581 1999 FE_8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 54.48	+ 9 7.6	2.207	3.075	11.1	21.6	144 W	54	55
4 26	15 50.77	+ 9 58.4	2.200	3.090	10.4	21.6	147 W	55	54
5 1	15 46.73	+10 45.0	2.200	3.103	9.8	21.6	148 W	56	53
5 6	15 42.46	+11 26.5	2.206	3.117	9.5	21.6	149 W	56	53
5 11	15 38.06	+12 2.4	2.218	3.130	9.4	21.6	149 W	57	52
5 16	15 33.62	+12 32.2	2.238	3.144	9.7	21.7	148 W	58	51
5 21	15 29.25	+12 55.6	2.263	3.157	10.2	21.7	146 E	58	51
5 26	15 25.04	+13 12.4	2.295	3.169	10.9	21.8	144 E	58	51
5 31	15 21.08	+13 22.8	2.332	3.182	11.7	21.9	141 E	58	51
6 5	15 17.45	+13 26.8	2.375	3.194	12.5	21.9	137 E	58	51
6 10	15 14.21	+13 25.0	2.423	3.206	13.3	22.0	133 E	58	51
6 15	15 11.40	+13 17.6	2.476	3.218	14.1	22.1	129 E	58	51

335758 2007 EM_{88}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 56.88	−16 58.9	1.151	2.084	13.8	22.3	150 W	28	81
5 1	15 45.00	−16 30.2	1.105	2.089	8.2	22.0	163 W	28	81
5 11	15 30.78	−15 55.8	1.084	2.092	2.3	21.6	175 W	29	80
5 21	15 15.97	−15 19.8	1.088	2.093	4.7	21.8	170 E	30	79
5 31	15 2.49	−14 48.6	1.118	2.092	10.7	22.1	158 E	30	79
6 10	14 51.87	−14 27.9	1.172	2.089	16.0	22.4	146 E	31	78

409267 2004 RL_{17}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 57.71	−25 56.3	1.784	2.689	11.4	22.0	148 W	19	90
5 1	15 48.75	−26 3.2	1.708	2.674	7.7	21.7	159 W	19	90
5 11	15 37.79	−25 58.4	1.658	2.658	3.8	21.5	170 W	19	90
5 21	15 25.92	−25 42.1	1.635	2.641	3.1	21.4	172 E	19	90
5 31	15 14.43	−25 16.6	1.640	2.623	6.9	21.6	162 E	20	89
6 10	15 4.56	−24 46.9	1.672	2.604	11.1	21.8	151 E	20	89

380223 2001 RZ_{63}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 57.79	−21 17.1	1.635	2.551	11.6	21.9	149 W	24	85
5 1	15 50.69	−20 34.5	1.543	2.516	7.5	21.6	161 W	24	85
5 11	15 41.49	−19 40.9	1.475	2.481	2.9	21.2	173 W	25	84
5 21	15 31.14	−18 39.4	1.435	2.444	2.1	21.1	175 E	26	83
5 31	15 20.92	−17 35.1	1.421	2.408	7.2	21.3	163 E	27	82
6 10	15 12.07	−16 34.7	1.432	2.371	12.1	21.5	151 E	28	81

504848 2010 SG_3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 58.36	−24 39.6	1.465	2.380	12.8	22.4	148 W	20	89
5 1	15 50.65	−24 29.6	1.374	2.345	8.6	22.0	160 W	21	88
5 11	15 40.41	−24 6.4	1.306	2.309	4.0	21.7	171 W	21	88
5 21	15 28.74	−23 30.4	1.263	2.272	2.8	21.5	174 E	21	88
5 31	15 17.13	−22 45.3	1.247	2.235	7.8	21.7	163 E	22	87
6 10	15 7.12	−21 57.5	1.255	2.198	13.0	21.9	151 E	23	86

508951 2004 TC_{20}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 59.19	+11 14.3	2.297	3.148	11.4	22.5	142 W	56	53
4 26	15 55.24	+11 34.5	2.257	3.132	10.7	22.4	145 W	57	52
5 1	15 50.84	+11 50.7	2.222	3.116	10.1	22.4	147 W	57	52
5 6	15 46.07	+12 2.2	2.194	3.100	9.8	22.3	149 W	57	52
5 11	15 41.02	+12 8.4	2.172	3.083	9.7	22.3	149 W	57	52
5 16	15 35.78	+12 8.8	2.157	3.066	9.8	22.2	149 W	57	52
5 21	15 30.47	+12 3.1	2.148	3.049	10.3	22.2	147 E	57	52
5 26	15 25.21	+11 51.0	2.146	3.032	11.0	22.3	145 E	57	52
5 31	15 20.10	+11 32.5	2.149	3.015	11.9	22.3	142 E	57	52
6 5	15 15.26	+11 7.9	2.159	2.997	12.9	22.3	139 E	56	53
6 10	15 10.77	+10 37.4	2.174	2.979	14.0	22.4	135 E	56	53
6 15	15 6.71	+10 1.6	2.195	2.961	15.0	22.4	131 E	55	54

331506 1999 VC_{12}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 59.56	−24 27.7	2.463	3.359	9.1	21.4	148 W	21	88
5 1	15 52.15	−24 5.8	2.370	3.332	6.1	21.2	159 W	21	88
5 11	15 43.30	−23 35.1	2.303	3.304	2.8	20.9	171 W	21	88
5 21	15 33.71	−22 56.8	2.266	3.275	1.6	20.8	175 E	22	87
5 31	15 24.26	−22 13.6	2.258	3.246	4.9	20.9	164 E	23	86
6 10	15 15.79	−21 29.2	2.279	3.215	8.3	21.1	153 E	24	85
6 20	15 8.95	−20 47.6	2.325	3.184	11.4	21.3	142 E	24	85
6 30	15 4.21	−20 12.4	2.392	3.152	14.1	21.4	131 E	25	84

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
450185 2001 WJ_2									
4 21	16 0.30	− 1 51.9	0.705	1.644	19.1	21.2	148 W	43	66
4 26	15 51.75	− 2 55.6	0.666	1.631	15.8	20.9	154 W	42	67
5 1	15 41.40	− 4 12.0	0.633	1.617	12.3	20.7	160 W	41	68
5 6	15 29.40	− 5 41.5	0.606	1.604	8.8	20.4	166 W	39	70
5 11	15 16.02	− 7 23.2	0.585	1.589	6.7	20.2	169 W	38	71
5 16	15 1.68	− 9 15.2	0.572	1.575	7.8	20.2	168 E	36	73
5 21	14 46.92	−11 14.5	0.565	1.559	11.6	20.3	162 E	34	75
5 26	14 32.34	−13 17.7	0.565	1.544	16.1	20.5	155 E	32	77
5 31	14 18.54	−15 21.4	0.572	1.528	20.8	20.6	148 E	30	79
6 5	14 6.01	−17 23.1	0.584	1.512	25.2	20.8	141 E	28	81
6 10	13 55.05	−19 21.0	0.601	1.495	29.3	20.9	134 E	26	83
6 15	13 45.86	−21 14.3	0.621	1.478	33.0	21.1	127 E	24*	85
6 20	13 38.52	−23 3.2	0.645	1.461	36.3	21.2	122 E	21*	87
6 25	13 33.02	−24 48.2	0.670	1.444	39.2	21.4	116 E	18*	89
416404 2003 US_{131}									
4 21	16 0.60	−24 38.3	1.776	2.681	11.5	21.7	148 W	20	89
5 1	15 52.65	−24 5.9	1.684	2.651	7.7	21.4	159 W	21	88
5 11	15 42.64	−23 20.6	1.617	2.619	3.4	21.1	171 W	22	87
5 21	15 31.53	−22 23.9	1.577	2.587	2.0	20.9	175 E	23	86
5 31	15 20.58	−21 20.3	1.566	2.554	6.5	21.1	163 E	24	85
6 10	15 11.01	−20 16.1	1.581	2.520	11.1	21.3	151 E	25	84
6 20	15 3.74	−19 17.6	1.618	2.485	15.2	21.5	140 E	26	83
450779 2007 SE_{11}									
4 21	16 2.95	−23 21.5	1.733	2.638	11.8	21.8	148 W	22	87
4 26	15 55.46	−24 10.0	1.693	2.634	9.7	21.7	154 W	21	88
5 1	15 47.12	−24 57.0	1.660	2.630	7.5	21.5	160 W	20	89
5 6	15 38.05	−25 41.7	1.635	2.625	5.3	21.4	166 W	19	90
5 11	15 28.43	−26 23.0	1.618	2.620	3.6	21.3	171 W	19	90
5 16	15 18.48	−27 0.2	1.610	2.615	3.3	21.2	172 E	18	89
5 21	15 8.44	−27 33.0	1.611	2.609	4.8	21.3	168 E	17	88
5 26	14 58.56	−28 1.1	1.621	2.603	6.9	21.4	162 E	17	88
5 31	14 49.09	−28 24.9	1.638	2.596	9.2	21.6	156 E	17	88
6 5	14 40.23	−28 44.9	1.663	2.590	11.4	21.7	150 E	16	87
6 10	14 32.14	−29 1.7	1.695	2.582	13.5	21.8	143 E	16	87
306839 2001 SG_{35}									
4 21	16 5.04	−17 34.4	1.843	2.749	11.1	22.1	148 W	27	82
5 1	15 57.01	−17 6.1	1.766	2.734	7.3	21.9	160 W	28	81
5 11	15 47.12	−16 33.3	1.716	2.719	3.1	21.6	172 W	28	81
5 21	15 36.29	−15 58.5	1.693	2.702	2.1	21.4	174 E	29	80
5 31	15 25.66	−15 25.5	1.699	2.685	6.4	21.7	163 E	30	79
6 10	15 16.32	−14 58.2	1.731	2.666	10.6	21.9	151 E	30	79
405508 2005 BG_2									
4 21	16 5.26	−51 46.6	2.303	3.071	14.0	21.4	132 W	—	64
4 26	15 59.62	−52 16.3	2.265	3.069	13.2	21.4	136 W	—	64
5 1	15 53.18	−52 39.7	2.233	3.067	12.4	21.3	139 W	—	63
5 6	15 46.07	−52 56.1	2.206	3.065	11.7	21.3	142 W	—	63
5 11	15 38.46	−53 4.9	2.184	3.063	11.1	21.2	144 W	—	63
5 16	15 30.56	−53 5.7	2.169	3.060	10.7	21.2	146 E	—	63
5 21	15 22.59	−52 58.2	2.160	3.057	10.5	21.2	147 E	—	63
5 26	15 14.79	−52 42.7	2.157	3.054	10.5	21.2	147 E	—	63
5 31	15 7.39	−52 19.9	2.160	3.050	10.9	21.2	145 E	—	64
6 5	15 0.58	−51 50.7	2.170	3.047	11.4	21.2	144 E	—	64
6 10	14 54.51	−51 16.0	2.185	3.043	12.1	21.2	141 E	—	65
6 15	14 49.28	−50 37.2	2.206	3.038	12.9	21.3	138 E	—	65
6 20	14 44.96	−49 55.5	2.232	3.034	13.8	21.3	135 E	—	66
6 25	14 41.61	−49 12.0	2.263	3.029	14.7	21.4	131 E	—	67
6 30	14 39.21	−48 28.0	2.298	3.024	15.5	21.5	127 E	—	68
483432 2001 DF_{47}									
4 21	16 5.62	+19 51.3	0.789	1.660	25.4	22.1	135 W	65	44
4 26	15 58.09	+21 27.8	0.780	1.663	24.5	22.0	137 W	66	43
5 1	15 49.48	+22 51.0	0.774	1.665	24.0	22.0	138 W	68	41
5 6	15 40.08	+23 57.9	0.774	1.666	24.0	22.0	138 W	69	40
5 11	15 30.21	+24 46.3	0.777	1.666	24.4	22.0	137 W	70	39
5 16	15 20.24	+25 15.1	0.785	1.665	25.2	22.0	136 E	70	39
5 21	15 10.53	+25 23.9	0.796	1.663	26.3	22.1	133 E	70	39
5 26	15 1.44	+25 13.4	0.811	1.660	27.6	22.2	131 E	70	39
5 31	14 53.25	+24 45.0	0.830	1.656	29.1	22.3	128 E	70	39
6 5	14 46.16	+24 1.2	0.851	1.651	30.6	22.4	124 E	69	40
6 10	14 40.29	+23 4.2	0.875	1.645	32.0	22.4	121 E	68	41
411280 2010 SL_{13}									
4 21	16 5.74	−17 57.7	1.282	2.200	14.0	22.3	148 W	27	82
4 26	16 0.26	−17 32.9	1.272	2.222	11.4	22.3	154 W	27	82
5 1	15 54.20	−17 6.5	1.269	2.244	8.6	22.2	161 W	28	81
5 6	15 47.75	−16 39.1	1.271	2.265	5.8	22.1	167 W	28	81
5 11	15 41.12	−16 11.3	1.281	2.286	3.1	21.9	173 W	29	80

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
411280 2010 SL_{13} *(continuation)*									
5 16	15 34.51	−15 43.9	1.297	2.307	1.5	21.9	177 W	29	80
5 21	15 28.09	−15 17.5	1.320	2.327	3.2	22.1	173 E	30	79
5 26	15 22.07	−14 52.9	1.350	2.347	5.7	22.3	167 E	30	79
5 31	15 16.59	−14 31.0	1.386	2.366	8.2	22.5	161 E	30	79
6 5	15 11.76	−14 12.1	1.429	2.385	10.5	22.6	155 E	31	78
468117 2014 ED									
4 21	16 6.28	− 1 55.3	1.264	2.172	14.9	22.1	146 W	43	66
4 26	15 57.69	− 1 44.0	1.256	2.196	12.5	22.0	152 W	43	66
5 1	15 48.53	− 1 36.3	1.256	2.219	10.2	22.0	157 W	43	66
5 6	15 39.06	− 1 32.7	1.262	2.241	8.4	21.9	161 W	43	66
5 11	15 29.51	− 1 33.6	1.276	2.262	7.4	21.9	163 W	43	66
5 16	15 20.14	− 1 39.2	1.298	2.282	7.7	22.0	162 E	43	66
5 21	15 11.18	− 1 49.5	1.328	2.302	9.0	22.1	159 E	43	66
5 26	15 2.84	− 2 4.5	1.364	2.321	10.8	22.3	155 E	43	66
5 31	14 55.28	− 2 23.7	1.408	2.338	12.8	22.4	149 E	43	66
276049 2002 CE_{26}									
4 21	16 7.18	+38 7.0	2.618	3.256	15.3	22.3	121 W	83	26
4 26	16 2.92	+39 7.3	2.600	3.243	15.3	22.3	122 W	84	25
5 1	15 58.13	+40 0.8	2.586	3.229	15.4	22.3	122 W	85	24
5 6	15 52.90	+40 46.5	2.577	3.216	15.6	22.2	121 W	86	23
5 11	15 47.31	+41 23.9	2.573	3.202	15.8	22.2	120 W	86	23
5 16	15 41.50	+41 52.4	2.572	3.187	16.1	22.2	119 W	87	22
5 21	15 35.59	+42 11.5	2.575	3.172	16.4	22.2	118 E	87	22
5 26	15 29.70	+42 21.2	2.582	3.157	16.8	22.3	116 E	87	22
5 31	15 23.99	+42 21.5	2.592	3.141	17.2	22.3	114 E	87	22
6 5	15 18.56	+42 12.8	2.605	3.125	17.6	22.3	112 E	87	22
6 10	15 13.54	+41 55.6	2.621	3.109	17.9	22.3	109 E	87	22
6 15	15 9.00	+41 30.5	2.639	3.092	18.3	22.3	107 E	87	22
3496 Arieso									
4 21	16 7.27	+17 44.6	3.152	3.938	10.2	21.4	136 W	63	46
5 1	16 0.39	+18 37.6	3.117	3.943	9.4	21.4	140 W	64	45
5 11	15 52.54	+19 13.4	3.106	3.947	9.1	21.4	142 W	64	45
5 21	15 44.29	+19 29.1	3.119	3.951	9.4	21.4	140 E	64	45
5 31	15 36.23	+19 23.6	3.156	3.953	10.2	21.4	136 E	64	45
6 10	15 28.92	+18 57.3	3.215	3.955	11.2	21.5	131 E	64	45
168881 2000 WN_{48}									
4 21	16 8.90	−15 18.2	2.046	2.944	10.6	21.4	147 W	30	79
5 1	16 0.91	−14 49.9	1.996	2.958	7.0	21.2	159 W	30	79
5 11	15 51.47	−14 20.5	1.972	2.972	3.4	21.0	170 W	31	78
5 21	15 41.43	−13 52.4	1.977	2.984	2.3	20.9	173 E	31	78
5 31	15 31.75	−13 28.5	2.010	2.996	5.6	21.1	163 E	32	77
6 10	15 23.32	−13 11.7	2.071	3.006	9.1	21.4	152 E	32	77
456025 2005 YQ_{94}									
4 21	16 10.72	+12 12.8	1.794	2.635	14.6	21.7	139 W	57	52
4 26	16 6.13	+12 27.5	1.776	2.643	13.5	21.6	142 W	57	52
5 1	16 1.04	+12 36.6	1.763	2.652	12.6	21.6	145 W	58	51
5 6	15 55.56	+12 39.2	1.756	2.660	11.9	21.6	147 W	58	51
5 11	15 49.82	+12 35.1	1.756	2.667	11.5	21.6	148 W	58	51
5 16	15 43.95	+12 23.7	1.761	2.675	11.4	21.6	148 W	57	52
5 21	15 38.10	+12 5.1	1.772	2.682	11.7	21.6	148 E	57	52
5 26	15 32.42	+11 39.3	1.790	2.689	12.2	21.6	146 E	57	52
5 31	15 27.03	+11 6.7	1.814	2.696	13.0	21.7	143 E	56	53
6 5	15 22.04	+10 27.9	1.844	2.703	13.9	21.8	140 E	55	54
6 10	15 17.55	+ 9 43.7	1.880	2.709	14.9	21.9	137 E	55	54
6 15	15 13.62	+ 8 54.6	1.920	2.715	15.9	22.0	133 E	54	55
405216 2003 QL_{59}									
4 21	16 11.19	−34 17.3	2.336	3.188	11.2	21.5	142 W	11	82
4 26	16 6.92	−34 26.7	2.302	3.194	9.9	21.4	147 W	11	82
5 1	16 2.12	−34 32.5	2.273	3.199	8.5	21.3	152 W	10	81
5 6	15 56.90	−34 34.5	2.251	3.204	7.1	21.2	157 W	10	81
5 11	15 51.36	−34 32.6	2.236	3.209	5.8	21.1	161 W	10	81
5 16	15 45.63	−34 26.6	2.228	3.214	4.9	21.1	164 W	11	82
5 21	15 39.84	−34 16.8	2.228	3.218	4.5	21.1	166 E	11	82
5 26	15 34.13	−34 3.3	2.234	3.222	4.8	21.1	165 E	11	82
5 31	15 28.65	−33 46.7	2.248	3.226	5.7	21.2	162 E	11	82
6 5	15 23.50	−33 27.6	2.269	3.230	6.9	21.2	158 E	12	83
6 10	15 18.79	−33 6.5	2.296	3.233	8.2	21.3	153 E	12	83
6 15	15 14.59	−32 44.3	2.330	3.236	9.6	21.4	148 E	12	83
422669 1999 UF_{43}									
4 21	16 11.98	−28 24.3	1.874	2.753	12.3	22.2	144 W	17	88
5 1	16 4.34	−28 25.2	1.782	2.729	8.9	21.9	155 W	17	88
5 11	15 54.45	−28 13.1	1.714	2.705	5.2	21.7	166 W	17	88
5 21	15 43.23	−27 47.4	1.673	2.679	3.0	21.5	172 E	17	88
5 31	15 31.89	−27 9.9	1.660	2.653	5.6	21.6	165 E	18	89
6 10	15 21.72	−26 25.0	1.674	2.626	9.6	21.7	154 E	19	90

498047 2007 PR_{30}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	16 12.06	−22 43.3	1.443	2.343	14.0	21.6	146 W	22	87
5 1	16 5.47	−22 10.2	1.353	2.314	9.7	21.3	157 W	23	86
5 11	15 56.23	−21 24.8	1.286	2.285	4.8	21.0	169 W	24	85
5 21	15 45.33	−20 29.1	1.244	2.256	0.7	20.6	178 E	25	84
5 31	15 34.20	−19 27.6	1.228	2.226	6.2	20.9	166 E	26	83
6 10	15 24.35	−18 27.3	1.237	2.195	11.6	21.1	154 E	27	82
6 20	15 16.95	−17 35.2	1.267	2.164	16.6	21.3	143 E	27	82
6 30	15 12.79	−16 56.7	1.315	2.133	20.7	21.5	132 E	28	81

310616 2002 AX

4 21	16 12.39	−16 40.2	2.077	2.968	10.7	22.3	147 W	28	81
5 1	16 4.23	−16 27.2	1.991	2.951	7.3	22.1	158 W	29	80
5 11	15 54.21	−16 11.5	1.932	2.932	3.5	21.8	170 W	29	80
5 21	15 43.13	−15 54.7	1.902	2.911	1.6	21.6	175 E	29	80
5 31	15 32.01	−15 39.3	1.901	2.890	5.4	21.8	164 E	29	80
6 10	15 21.90	−15 27.9	1.927	2.867	9.4	22.0	153 E	30	79

495323 2014 JG_{78}

4 21	16 12.41	+ 5 48.6	0.896	1.796	20.3	21.6	142 W	51	58
4 26	16 6.97	+ 7 56.8	0.851	1.771	19.1	21.5	145 W	53	56
5 1	16 0.12	+10 8.8	0.812	1.746	18.4	21.3	147 W	55	54
5 6	15 51.92	+12 21.6	0.780	1.719	18.3	21.2	148 W	57	52
5 11	15 42.48	+14 31.2	0.753	1.691	19.1	21.1	147 W	60	49
5 16	15 31.98	+16 33.5	0.732	1.661	20.8	21.0	144 W	62	47
5 21	15 20.72	+18 24.2	0.716	1.631	23.2	21.0	141 E	63	46
5 26	15 9.06	+19 59.5	0.706	1.599	26.1	21.0	136 E	65	44
5 31	14 57.41	+21 16.9	0.701	1.566	29.3	21.1	131 E	66	43
6 5	14 46.18	+22 15.2	0.700	1.532	32.6	21.1	126 E	67	42
6 10	14 35.69	+22 54.7	0.701	1.496	35.9	21.2	120 E	68	41
6 15	14 26.21	+23 16.2	0.705	1.459	39.2	21.2	115 E	68	41
6 20	14 17.94	+23 21.6	0.710	1.421	42.4	21.3	110 E	68*	41
6 25	14 10.97	+23 12.7	0.715	1.381	45.4	21.3	104 E	67*	41
6 30	14 5.33	+22 52.0	0.720	1.340	48.4	21.3	100 E	65*	41
7 5	14 0.97	+22 21.5	0.724	1.298	51.3	21.4	95 E	62*	42
7 10	13 57.78	+21 42.9	0.726	1.255	54.1	21.4	91 E	59*	42
7 15	13 55.65	+20 57.7	0.725	1.210	57.0	21.4	86 E	56*	43
7 20	13 54.45	+20 7.0	0.721	1.164	59.9	21.4	82 E	53*	44
7 25	13 54.01	+19 11.6	0.714	1.116	63.0	21.3	78 E	50*	45*
7 30	13 54.13	+18 12.4	0.703	1.068	66.3	21.3	74 E	47*	45*
8 4	13 54.57	+17 9.7	0.687	1.018	70.0	21.3	71 E	44*	45*
8 9	13 55.04	+16 3.6	0.667	0.968	74.1	21.2	67 E	42*	44*
8 14	13 55.17	+14 53.7	0.642	0.917	78.9	21.2	63 E	39*	43*
8 19	13 54.47	+13 39.5	0.613	0.866	84.5	21.2	58 E	36*	41*
8 24	13 52.23	+12 19.5	0.579	0.816	91.3	21.2	54 E	33*	38*
8 29	13 47.46	+10 51.7	0.541	0.767	99.7	21.3	48 E	29*	34*

402159 2004 RM_{216}

4 21	16 12.83	−49 59.7	2.143	2.919	14.7	21.9	133 W	—	66
4 26	16 7.34	−50 26.8	2.114	2.927	13.7	21.8	137 W	—	66
5 1	16 1.06	−50 47.5	2.090	2.936	12.7	21.8	140 W	—	65
5 6	15 54.14	−51 1.2	2.072	2.944	11.8	21.7	143 W	—	65
5 11	15 46.76	−51 7.1	2.060	2.952	11.0	21.7	146 W	—	65
5 16	15 39.11	−51 5.0	2.053	2.959	10.4	21.7	148 W	—	65
5 21	15 31.44	−50 54.8	2.053	2.967	10.1	21.7	149 E	—	65
5 26	15 23.96	−50 36.9	2.059	2.974	10.1	21.7	149 E	—	65
5 31	15 16.90	−50 12.0	2.072	2.981	10.4	21.7	148 E	—	66
6 5	15 10.44	−49 41.1	2.090	2.987	10.9	21.8	146 E	—	66
6 10	15 4.70	−49 5.3	2.115	2.994	11.6	21.8	144 E	—	67
6 15	14 59.79	−48 25.8	2.145	3.000	12.4	21.9	141 E	—	68

400554 2008 VA_{58}

4 21	16 13.87	−12 35.9	1.700	2.597	12.4	22.1	146 W	32	77
5 1	16 6.48	−11 56.1	1.625	2.584	8.7	21.8	157 W	33	76
5 11	15 57.01	−11 16.4	1.575	2.569	5.0	21.6	167 W	34	75
5 21	15 46.36	−10 40.6	1.551	2.554	3.8	21.4	170 E	34	75
5 31	15 35.70	−10 12.9	1.554	2.538	7.1	21.6	162 E	35	74
6 10	15 26.20	− 9 56.7	1.584	2.522	11.2	21.8	151 E	35	74

467923 2011 YU_{28}

4 21	16 14.56	+11 4.2	2.164	2.992	12.8	22.2	139 W	56	53
4 26	16 10.83	+11 31.8	2.136	2.992	12.0	22.2	142 W	57	52
5 1	16 6.64	+11 55.3	2.113	2.991	11.3	22.1	145 W	57	52
5 6	16 2.07	+12 13.9	2.097	2.990	10.7	22.1	147 W	57	52
5 11	15 57.20	+12 27.0	2.086	2.989	10.4	22.0	148 W	57	52
5 16	15 52.15	+12 34.2	2.082	2.988	10.3	22.0	148 W	58	51
5 21	15 47.02	+12 35.0	2.085	2.986	10.6	22.0	147 E	58	51
5 26	15 41.93	+12 29.2	2.093	2.984	11.1	22.1	146 E	57	52
5 31	15 37.00	+12 16.9	2.108	2.982	11.7	22.1	143 E	57	52
6 5	15 32.34	+11 58.3	2.128	2.980	12.6	22.2	140 E	57	52
6 10	15 28.02	+11 33.7	2.154	2.977	13.5	22.2	137 E	57	52
6 15	15 24.13	+11 3.7	2.185	2.974	14.4	22.3	133 E	56	53

463671 2014 OJ_2

4 21	16 15.01	−10 11.2	1.409	2.311	14.1	21.8	146 W	35	74
5 1	16 8.60	− 9 16.0	1.326	2.284	10.3	21.5	156 W	36	73
5 11	15 59.63	− 8 22.2	1.266	2.257	6.6	21.2	165 W	37	72
5 21	15 49.03	− 7 35.6	1.231	2.230	5.7	21.0	167 E	37	72
5 31	15 38.11	− 7 2.3	1.221	2.202	9.0	21.2	160 E	38	71
6 10	15 28.31	− 6 47.1	1.234	2.173	13.5	21.3	150 E	38	71

505370 2013 HN_{37}

4 21	16 18.10	−48 46.1	1.513	2.316	18.6	21.4	133 W	—	67
4 26	16 13.18	−50 8.8	1.467	2.300	17.7	21.3	136 W	—	66
5 1	16 6.82	−51 27.6	1.425	2.284	16.8	21.2	139 W	—	65
5 6	15 59.04	−52 40.4	1.389	2.267	16.1	21.1	142 W	—	63
5 11	15 49.93	−53 45.1	1.358	2.251	15.5	21.0	143 W	—	62
5 16	15 39.66	−54 39.8	1.333	2.234	15.3	20.9	144 W	—	61
5 21	15 28.54	−55 22.8	1.313	2.217	15.4	20.9	145 E	—	61
5 26	15 16.97	−55 52.9	1.300	2.200	15.8	20.8	144 E	—	60
5 31	15 5.43	−56 9.9	1.291	2.183	16.6	20.8	142 E	—	60
6 5	14 54.40	−56 14.4	1.288	2.165	17.6	20.8	140 E	—	60
6 10	14 44.31	−56 7.9	1.290	2.148	18.8	20.9	137 E	—	60
6 15	14 35.49	−55 51.9	1.296	2.130	20.1	20.9	134 E	—	60
6 20	14 28.20	−55 28.8	1.306	2.113	21.4	20.9	131 E	—	61
6 25	14 22.58	−55 0.8	1.320	2.095	22.8	21.0	127 E	—	61
6 30	14 18.70	−54 30.0	1.337	2.078	24.1	21.0	123 E	—	61
7 5	14 16.53	−53 58.3	1.356	2.060	25.4	21.1	120 E	—	62
7 10	14 15.98	−53 27.0	1.377	2.042	26.5	21.1	116 E	—	63
7 15	14 16.99	−52 57.3	1.400	2.024	27.6	21.2	113 E	—	63
7 20	14 19.46	−52 29.8	1.425	2.007	28.5	21.2	109 E	—	63
7 25	14 23.29	−52 5.2	1.450	1.989	29.4	21.3	106 E	—	64
7 30	14 28.40	−51 43.5	1.476	1.971	30.1	21.3	103 E	—	64
8 4	14 34.69	−51 24.8	1.502	1.954	30.8	21.4	100 E	—	64*
8 9	14 42.09	−51 8.8	1.529	1.936	31.3	21.4	97 E	—	64*
8 14	14 50.52	−50 55.2	1.555	1.919	31.8	21.4	94 E	—	64*
8 19	14 59.94	−50 43.5	1.582	1.901	32.2	21.5	92 E	—	63*
8 24	15 10.29	−50 33.3	1.608	1.884	32.5	21.5	89 E	—	62*
8 29	15 21.53	−50 23.9	1.633	1.867	32.7	21.5	87 E	—	61*

283470 2001 QM_{153}

4 21	16 19.51	−51 32.8	2.337	3.089	14.3	21.4	131 W	—	64
4 26	16 14.39	−51 56.3	2.294	3.086	13.4	21.3	135 W	—	64
5 1	16 8.43	−52 14.1	2.256	3.083	12.6	21.3	138 W	—	64
5 6	16 1.76	−52 25.2	2.224	3.079	11.7	21.2	142 W	—	64
5 11	15 54.54	−52 29.1	2.197	3.075	11.0	21.1	144 W	—	64
5 16	15 46.94	−52 25.2	2.176	3.070	10.5	21.1	147 W	—	64
5 21	15 39.18	−52 13.3	2.161	3.065	10.1	21.1	148 E	—	64
5 26	15 31.49	−51 53.4	2.152	3.060	10.0	21.0	148 E	—	64
5 31	15 24.09	−51 26.0	2.150	3.055	10.2	21.0	148 E	—	65
6 5	15 17.19	−50 51.9	2.154	3.049	10.7	21.1	146 E	—	65
6 10	15 10.94	−50 12.2	2.164	3.043	11.4	21.1	144 E	—	66
6 15	15 5.46	−49 27.9	2.180	3.037	12.2	21.1	141 E	—	67
6 20	15 0.84	−48 40.4	2.202	3.030	13.1	21.2	138 E	—	67
6 25	14 57.13	−47 50.8	2.229	3.024	14.0	21.2	134 E	—	68
6 30	14 54.36	−47 0.3	2.261	3.016	15.0	21.3	130 E	—	69
7 5	14 52.50	−46 10.0	2.297	3.009	15.9	21.4	126 E	—	70
7 10	14 51.53	−45 20.8	2.337	3.001	16.7	21.4	122 E	—	71
7 15	14 51.41	−44 33.3	2.381	2.993	17.5	21.5	118 E	—	71

4401 Aditi

4 21	16 19.76	−43 35.3	2.708	3.498	11.6	21.6	136 W	1	72
4 26	16 14.50	−44 0.5	2.683	3.515	10.6	21.5	140 W	1	72
5 1	16 8.67	−44 21.2	2.663	3.532	9.5	21.5	144 W	1	72
5 6	16 2.37	−44 37.0	2.650	3.548	8.6	21.5	148 W	—	71
5 11	15 55.73	−44 47.4	2.644	3.565	7.7	21.4	152 W	—	71
5 16	15 48.88	−44 52.4	2.645	3.581	7.1	21.4	154 W	—	71
5 21	15 41.99	−44 51.8	2.652	3.596	6.8	21.4	155 E	—	71
5 26	15 35.20	−44 45.9	2.667	3.612	6.8	21.4	155 E	—	71
5 31	15 28.67	−44 35.0	2.689	3.627	7.1	21.5	154 E	—	71
6 5	15 22.52	−44 19.9	2.718	3.642	7.7	21.5	151 E	1	72
6 10	15 16.86	−44 1.2	2.754	3.656	8.4	21.6	148 E	1	72
6 15	15 11.77	−43 39.7	2.796	3.670	9.3	21.7	144 E	1	72

316857 2000 NH_{10}

4 21	16 23.15	−21 59.9	1.776	2.651	13.1	21.3	143 W	23	86
5 1	16 16.15	−21 37.7	1.669	2.616	9.4	21.0	155 W	23	86
5 11	16 6.60	−21 6.4	1.586	2.579	5.1	20.7	167 W	24	85
5 21	15 55.28	−20 26.9	1.529	2.541	0.3	20.2	179 W	25	84
5 26	15 49.31	−20 4.9	1.512	2.522	2.2	20.4	175 E	25	84
5 31	15 43.36	−19 41.9	1.501	2.502	4.7	20.5	168 E	25	84
6 5	15 37.61	−19 18.8	1.497	2.482	7.2	20.6	162 E	26	83
6 10	15 32.19	−18 56.1	1.500	2.462	9.6	20.7	156 E	26	83
6 15	15 27.26	−18 34.6	1.508	2.442	12.0	20.8	150 E	26	83
6 20	15 22.92	−18 14.8	1.523	2.421	14.2	20.8	144 E	27	82

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
316857 2000 NH_{10} *(continuation)*									
6 25	15 19.29	−17 57.4	1.542	2.400	16.3	20.9	139 E	27	82
6 30	15 16.42	−17 42.8	1.566	2.379	18.2	21.0	133 E	27	82
7 5	15 14.35	−17 31.4	1.594	2.357	19.9	21.1	128 E	27*	82
7 10	15 13.09	−17 23.2	1.625	2.335	21.5	21.1	123 E	27*	81
7 15	15 12.65	−17 18.5	1.658	2.313	22.9	21.2	118 E	27*	81
7 20	15 13.03	−17 17.1	1.694	2.291	24.1	21.3	113 E	26*	81
7 25	15 14.19	−17 19.0	1.731	2.269	25.1	21.3	109 E	26*	81
7 30	15 16.11	−17 24.0	1.769	2.246	26.0	21.4	104 E	25*	81
8 4	15 18.77	−17 31.9	1.808	2.223	26.7	21.4	100 E	24*	82
8 9	15 22.12	−17 42.3	1.847	2.200	27.3	21.5	96 E	23*	82
8 14	15 26.13	−17 55.0	1.886	2.176	27.7	21.5	92 E	23*	82*
409263 2004 PN_{87}									
4 21	16 23.35	−26 56.0	1.490	2.366	15.1	21.4	142 W	18	89
5 1	16 16.69	−27 16.5	1.395	2.338	11.2	21.1	153 W	18	89
5 11	16 6.96	−27 26.2	1.322	2.310	6.8	20.7	164 W	18	89
5 21	15 55.07	−27 22.4	1.273	2.281	3.2	20.4	173 W	18	89
5 26	15 48.75	−27 15.3	1.259	2.266	3.6	20.4	172 E	18	89
5 31	15 42.47	−27 5.2	1.251	2.251	5.6	20.5	168 E	18	89
6 5	15 36.44	−26 52.6	1.249	2.236	8.0	20.6	162 E	18	89
6 10	15 30.84	−26 38.1	1.253	2.221	10.5	20.7	156 E	18	89
6 15	15 25.85	−26 22.7	1.263	2.206	13.0	20.8	151 E	19	90
6 20	15 21.60	−26 7.1	1.278	2.191	15.4	20.9	145 E	19	90
6 25	15 18.21	−25 52.3	1.298	2.176	17.6	21.0	140 E	19	90
6 30	15 15.74	−25 39.0	1.322	2.160	19.6	21.1	134 E	19	90
7 5	15 14.23	−25 27.7	1.350	2.145	21.5	21.2	129 E	20*	89
7 10	15 13.68	−25 18.9	1.381	2.129	23.2	21.2	125 E	19*	89
7 15	15 14.07	−25 12.7	1.414	2.113	24.6	21.3	120 E	19*	89
7 20	15 15.39	−25 9.4	1.449	2.098	25.9	21.4	115 E	19*	89
7 25	15 17.60	−25 9.0	1.487	2.082	27.1	21.5	111 E	18*	89
275820 2001 RX_{48}									
4 21	16 24.13	−37 17.4	2.749	3.562	10.8	22.0	138 W	8	79
4 26	16 19.49	−37 46.7	2.713	3.570	9.7	22.0	143 W	7	78
5 1	16 14.27	−38 13.1	2.683	3.577	8.6	21.9	148 W	7	78
5 6	16 8.57	−38 35.9	2.660	3.584	7.5	21.8	152 W	6	77
5 11	16 2.49	−38 54.8	2.643	3.591	6.5	21.8	156 W	6	77
5 16	15 56.14	−39 9.4	2.634	3.598	5.7	21.7	159 W	6	77
5 21	15 49.63	−39 19.7	2.633	3.604	5.3	21.7	161 E	6	77
5 26	15 43.12	−39 25.5	2.639	3.611	5.3	21.7	161 E	6	77
5 31	15 36.75	−39 27.1	2.653	3.617	5.8	21.8	159 E	6	77
6 5	15 30.63	−39 24.9	2.674	3.623	6.6	21.8	156 E	6	77
6 10	15 24.88	−39 19.4	2.701	3.628	7.6	21.9	152 E	6	77
6 15	15 19.60	−39 11.1	2.736	3.633	8.7	22.0	147 E	6	77
276891 2004 RH_{340}									
4 21	16 32.21	−18 12.7	0.814	1.720	21.2	21.2	142 W	27	82
4 26	16 24.84	−19 29.4	0.769	1.709	18.1	20.9	148 W	26	83
5 1	16 15.42	−20 52.3	0.728	1.696	14.5	20.7	155 W	24	85
5 6	16 3.96	−22 19.6	0.694	1.683	10.5	20.4	162 W	23	86
5 11	15 50.53	−23 49.1	0.666	1.669	6.5	20.1	169 W	21	88
5 16	15 35.38	−25 17.2	0.645	1.654	3.8	19.9	174 W	20	89
5 21	15 18.99	−26 40.3	0.632	1.638	6.1	20.0	170 E	18	89
5 26	15 2.00	−27 55.2	0.626	1.621	10.7	20.1	163 E	17	88
5 31	14 45.15	−29 0.0	0.627	1.604	15.6	20.3	155 E	16	87
6 5	14 29.16	−29 54.4	0.634	1.585	20.4	20.4	147 E	15	86
6 10	14 14.59	−30 39.4	0.647	1.565	24.8	20.6	140 E	14	85
6 15	14 1.84	−31 17.2	0.665	1.545	28.9	20.7	133 E	14	85
6 20	13 51.14	−31 50.2	0.686	1.524	32.6	20.9	126 E	13*	84
6 25	13 42.54	−32 20.9	0.709	1.502	35.9	21.0	120 E	11*	84
6 30	13 36.00	−32 51.6	0.734	1.479	38.8	21.1	114 E	10*	83
7 5	13 31.37	−33 23.8	0.760	1.455	41.3	21.2	109 E	8*	83
7 10	13 28.49	−33 58.6	0.785	1.430	43.5	21.3	104 E	6*	82
7 15	13 27.20	−34 36.6	0.810	1.405	45.5	21.4	100 E	4*	81
7 20	13 27.35	−35 18.3	0.834	1.378	47.2	21.5	96 E	2*	80*
429463 2010 WY_{39}									
4 21	16 32.84	−12 49.1	1.777	2.640	13.7	21.3	142 W	32	77
5 1	16 26.97	−12 19.6	1.677	2.611	10.3	21.1	152 W	33	76
5 11	16 18.64	−11 50.3	1.600	2.582	6.6	20.8	163 W	33	76
5 21	16 8.52	−11 24.3	1.549	2.552	3.8	20.5	170 W	34	75
5 31	15 57.65	−11 4.9	1.525	2.522	5.4	20.6	166 E	34	75
6 10	15 47.24	−10 55.3	1.528	2.490	9.5	20.7	156 E	34	75
6 20	15 38.37	−10 57.8	1.554	2.458	13.7	20.9	145 E	34	75
6 30	15 31.90	−11 13.5	1.602	2.425	17.4	21.1	135 E	34	75
7 10	15 28.32	−11 42.2	1.665	2.392	20.5	21.2	124 E	33*	76
7 20	15 27.76	−12 22.5	1.740	2.358	23.0	21.4	115 E	32*	76
7 30	15 30.21	−13 12.6	1.822	2.323	24.8	21.5	106 E	30*	77

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
454078 2012 VV_{93}									
4 21	16 35.39	−56 33.0	1.958	2.673	17.7	21.9	126 W	—	59
4 26	16 28.64	−56 56.1	1.939	2.695	16.7	21.9	130 W	—	59
5 1	16 20.83	−57 11.0	1.924	2.716	15.7	21.8	133 W	—	59
5 6	16 12.18	−57 16.9	1.915	2.737	14.7	21.8	137 W	—	59
5 11	16 2.98	−57 13.0	1.910	2.757	13.8	21.8	140 W	—	59
5 16	15 53.50	−56 58.8	1.911	2.777	13.0	21.8	142 W	—	59
5 21	15 44.08	−56 34.5	1.917	2.797	12.4	21.8	144 E	—	59
5 26	15 35.04	−56 0.6	1.930	2.816	12.1	21.8	144 E	—	60
5 31	15 26.65	−55 18.1	1.948	2.835	12.0	21.8	144 E	—	61
6 5	15 19.11	−54 28.4	1.973	2.854	12.2	21.9	144 E	—	62
6 10	15 12.58	−53 33.1	2.004	2.872	12.6	21.9	142 E	—	62
6 15	15 7.12	−52 33.9	2.040	2.890	13.2	22.0	140 E	—	63
497616 2006 QF_{13}									
4 21	16 36.39	−16 5.4	1.385	2.255	16.3	21.3	141 W	29	80
5 1	16 32.09	−15 56.0	1.283	2.221	12.5	20.9	151 W	29	80
5 11	16 24.67	−15 46.2	1.202	2.187	8.0	20.6	163 W	29	80
5 21	16 14.75	−15 37.5	1.145	2.153	3.3	20.2	173 W	29	80
5 26	16 9.20	−15 34.5	1.125	2.136	2.6	20.1	174 E	29	80
5 31	16 3.51	−15 32.7	1.112	2.118	4.4	20.2	171 E	29	80
6 5	15 57.87	−15 32.6	1.104	2.101	7.1	20.2	165 E	29	80
6 10	15 52.49	−15 34.5	1.103	2.084	9.8	20.3	160 E	29	80
6 15	15 47.55	−15 38.9	1.107	2.067	12.5	20.4	154 E	29	80
6 20	15 43.21	−15 45.8	1.116	2.050	15.2	20.5	148 E	29	80
6 25	15 39.62	−15 55.8	1.130	2.033	17.7	20.6	143 E	29	80
6 30	15 36.89	−16 8.7	1.148	2.016	20.0	20.7	137 E	29	80
7 5	15 35.07	−16 24.8	1.170	2.000	22.1	20.8	132 E	29	80
7 10	15 34.19	−16 43.9	1.194	1.983	24.1	20.9	127 E	28*	81
7 15	15 34.28	−17 5.8	1.222	1.967	25.8	21.0	123 E	28*	81
7 20	15 35.32	−17 30.4	1.252	1.950	27.3	21.1	118 E	27*	82
7 25	15 37.31	−17 57.4	1.283	1.934	28.7	21.1	114 E	26*	82
7 30	15 40.21	−18 26.5	1.316	1.918	29.8	21.2	110 E	25*	82
8 4	15 43.99	−18 57.5	1.350	1.903	30.8	21.3	106 E	24*	83
8 9	15 48.59	−19 29.7	1.385	1.887	31.6	21.3	103 E	23*	83
8 14	15 53.99	−20 3.0	1.421	1.872	32.3	21.4	99 E	23*	84
8 19	16 0.14	−20 37.0	1.456	1.857	32.8	21.4	96 E	22*	85
8 24	16 7.03	−21 11.1	1.492	1.843	33.2	21.5	93 E	21*	85*
266084 2006 SN_6									
4 21	16 46.27	−21 35.6	1.950	2.781	13.9	21.4	138 W	23	86
5 1	16 40.87	−21 30.1	1.841	2.755	10.8	21.1	149 W	23	86
5 11	16 32.92	−21 19.9	1.755	2.729	7.0	20.8	161 W	24	85
5 21	16 22.98	−21 4.7	1.694	2.701	2.7	20.5	173 W	24	85
5 26	16 17.56	−20 55.4	1.675	2.687	0.5	20.3	179 W	24	85
5 31	16 12.02	−20 45.4	1.662	2.673	1.8	20.4	175 E	24	85
6 5	16 6.51	−20 34.9	1.656	2.659	4.2	20.5	169 E	24	85
6 10	16 1.19	−20 24.4	1.657	2.644	6.4	20.6	163 E	25	84
6 15	15 56.19	−20 14.1	1.664	2.630	8.7	20.7	157 E	25	84
6 20	15 51.63	−20 4.7	1.678	2.615	10.8	20.8	151 E	25	84
6 25	15 47.62	−19 56.4	1.697	2.600	12.8	20.9	145 E	25	84
6 30	15 44.25	−19 49.7	1.722	2.584	14.7	21.0	140 E	25	84
7 5	15 41.59	−19 45.0	1.751	2.569	16.4	21.0	135 E	25	84
7 10	15 39.65	−19 42.3	1.785	2.553	17.9	21.1	129 E	25	84
7 15	15 38.45	−19 41.9	1.822	2.537	19.3	21.2	124 E	25*	84
7 20	15 38.01	−19 43.8	1.862	2.521	20.6	21.3	119 E	25*	84
7 25	15 38.32	−19 48.1	1.904	2.505	21.6	21.3	115 E	24*	84
7 30	15 39.36	−19 54.6	1.948	2.488	22.5	21.4	110 E	24*	84
8 4	15 41.10	−20 3.2	1.994	2.472	23.3	21.5	106 E	23*	84
409296 2004 SV_{51}									
4 21	16 47.98	−22 56.6	1.568	2.408	16.3	21.3	138 W	22	87
5 1	16 43.08	−23 13.7	1.460	2.378	12.8	21.0	148 W	22	87
5 11	16 34.94	−23 26.5	1.373	2.347	8.5	20.6	160 W	22	87
5 21	16 24.13	−23 33.5	1.310	2.316	3.6	20.3	172 W	21	88
5 26	16 18.04	−23 34.4	1.288	2.300	1.2	20.0	177 W	21	88
5 31	16 11.75	−23 33.7	1.272	2.284	2.2	20.1	175 E	21	88
6 5	16 5.45	−23 31.5	1.263	2.268	4.9	20.2	169 E	21	88
6 10	15 59.35	−23 28.3	1.261	2.251	7.6	20.3	163 E	22	87
6 15	15 53.63	−23 24.3	1.264	2.235	10.3	20.4	157 E	22	87
6 20	15 48.46	−23 20.3	1.274	2.218	12.8	20.5	151 E	22	87
6 25	15 44.00	−23 16.7	1.288	2.201	15.3	20.6	145 E	22	87
6 30	15 40.36	−23 14.2	1.308	2.184	17.5	20.7	140 E	22	87
7 5	15 37.61	−23 13.3	1.331	2.167	19.6	20.8	134 E	22	87
7 10	15 35.79	−23 14.2	1.358	2.150	21.5	20.9	129 E	22*	87
7 15	15 34.92	−23 17.2	1.389	2.133	23.2	21.0	124 E	22*	87
7 20	15 34.99	−23 22.5	1.421	2.115	24.7	21.0	119 E	21*	87
7 25	15 36.00	−23 30.1	1.456	2.098	26.0	21.1	115 E	21*	88
7 30	15 37.91	−23 40.1	1.493	2.081	27.2	21.2	111 E	20*	88
8 4	15 40.68	−23 52.1	1.530	2.063	28.1	21.2	107 E	19*	88
8 9	15 44.28	−24 6.1	1.569	2.046	28.9	21.3	103 E	19*	88

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
409296 2004 SV_{51} *(continuation)*									
8 14	15 48.65	−24 21.7	1.607	2.028	29.6	21.4	99 E	18*	88
8 19	15 53.77	−24 38.7	1.647	2.011	30.1	21.4	95 E	17*	89*
8 24	15 59.61	−24 56.7	1.685	1.993	30.5	21.4	92 E	17*	86*
8 29	16 6.12	−25 15.5	1.724	1.976	30.7	21.5	89 E	16*	83*
501646 2014 SC_{223}									
4 21	16 57.01	−26 34.2	1.232	2.069	20.1	21.3	135 W	18	89
5 1	16 54.86	−27 40.4	1.128	2.036	16.5	21.0	145 W	17	88
5 11	16 48.70	−28 46.7	1.041	2.004	12.1	20.6	155 W	16	87
5 21	16 38.77	−29 48.2	0.975	1.972	7.3	20.3	166 W	15	86
5 26	16 32.66	−30 15.1	0.951	1.956	5.3	20.1	170 W	15	86
5 31	16 26.07	−30 38.5	0.932	1.940	4.6	20.0	171 E	14	85
6 5	16 19.26	−30 58.0	0.919	1.924	5.9	20.0	169 E	14	85
6 10	16 12.49	−31 13.3	0.911	1.908	8.3	20.1	164 E	14	85
6 15	16 6.05	−31 24.6	0.909	1.892	11.2	20.2	159 E	14	85
6 20	16 0.20	−31 32.3	0.912	1.877	14.0	20.3	153 E	13	84
6 25	15 55.19	−31 37.1	0.920	1.861	16.9	20.4	148 E	13	84
6 30	15 51.21	−31 40.1	0.932	1.846	19.6	20.5	143 E	13	84
7 5	15 48.37	−31 42.1	0.948	1.831	22.1	20.6	137 E	13	84
7 10	15 46.74	−31 43.9	0.968	1.816	24.4	20.7	133 E	13	84
7 15	15 46.36	−31 46.1	0.990	1.802	26.5	20.8	128 E	13*	84
7 20	15 47.22	−31 49.1	1.014	1.787	28.3	20.8	123 E	13*	84
7 25	15 49.31	−31 53.4	1.040	1.773	30.0	20.9	119 E	13*	84
7 30	15 52.58	−31 59.0	1.068	1.760	31.5	21.0	115 E	12*	84
8 4	15 56.97	−32 5.9	1.097	1.747	32.7	21.1	112 E	12*	84
8 9	16 2.42	−32 13.8	1.128	1.734	33.8	21.2	108 E	12*	84
8 14	16 8.86	−32 22.4	1.158	1.721	34.7	21.2	105 E	11*	84
8 19	16 16.23	−32 31.4	1.190	1.709	35.5	21.3	102 E	11*	83
8 24	16 24.50	−32 40.4	1.222	1.697	36.1	21.4	99 E	11*	83
8 29	16 33.59	−32 48.8	1.254	1.686	36.6	21.4	96 E	11*	83*
9 3	16 43.44	−32 56.1	1.286	1.676	37.0	21.5	93 E	10*	82*
253692 2003 UH_{260}									
4 21	17 4.84	−13 59.7	2.366	3.148	13.3	21.4	134 W	31	78
5 1	16 59.50	−13 52.5	2.269	3.146	10.7	21.2	145 W	31	78
5 11	16 52.01	−13 47.1	2.195	3.143	7.6	21.0	156 W	31	78
5 21	16 42.86	−13 44.5	2.147	3.139	4.4	20.8	166 W	31	78
5 31	16 32.77	−13 45.6	2.127	3.134	2.6	20.7	172 W	31	78
6 10	16 22.64	−13 51.5	2.137	3.129	4.9	20.8	165 E	31	78
6 20	16 13.31	−14 3.0	2.175	3.122	8.1	21.0	154 E	31	78
6 30	16 5.55	−14 20.8	2.239	3.114	11.3	21.2	143 E	31	78
7 10	15 59.85	−14 44.9	2.325	3.105	13.9	21.4	133 E	30	79
363088 2000 SC_{26}									
4 21	17 9.76	−19 34.5	1.449	2.256	19.1	21.4	133 W	25	84
5 1	17 8.21	−18 36.3	1.337	2.225	15.9	21.1	143 W	26	83
5 11	17 3.36	−17 28.7	1.244	2.195	11.8	20.8	154 W	28	81
5 21	16 55.54	−16 13.8	1.172	2.164	7.2	20.4	164 W	29	80
5 26	16 50.74	−15 34.7	1.145	2.148	5.0	20.3	169 W	29	80
5 31	16 45.56	−14 55.6	1.124	2.133	3.6	20.1	172 W	30	79
6 5	16 40.18	−14 17.1	1.109	2.117	4.2	20.1	171 E	31	78
6 10	16 34.79	−13 40.3	1.100	2.101	6.3	20.2	167 E	31	78
6 15	16 29.57	−13 5.9	1.097	2.086	8.8	20.3	162 E	32	77
6 20	16 24.71	−12 34.8	1.100	2.070	11.5	20.4	156 E	32	77
6 25	16 20.40	−12 7.7	1.108	2.055	14.2	20.5	150 E	33	76
6 30	16 16.77	−11 45.2	1.122	2.039	16.7	20.6	145 E	33	76
7 5	16 13.92	−11 27.6	1.139	2.023	19.0	20.7	140 E	34	75
7 10	16 11.94	−11 14.9	1.161	2.008	21.2	20.8	134 E	34	75
7 15	16 10.84	−11 7.1	1.186	1.993	23.2	20.9	129 E	34	75
7 20	16 10.67	−11 4.0	1.214	1.977	25.0	21.0	125 E	34	75
7 25	16 11.42	−11 5.3	1.244	1.962	26.6	21.0	120 E	34*	75
7 30	16 13.08	−11 10.6	1.276	1.947	28.0	21.1	116 E	34*	75
8 4	16 15.61	−11 19.4	1.309	1.932	29.2	21.2	112 E	33*	75
8 9	16 18.97	−11 31.3	1.344	1.918	30.2	21.3	108 E	33*	76
8 14	16 23.12	−11 45.6	1.380	1.903	31.0	21.3	104 E	32*	76
8 19	16 28.03	−12 1.9	1.416	1.889	31.8	21.4	101 E	32*	76
8 24	16 33.66	−12 19.8	1.452	1.875	32.3	21.4	98 E	31*	76
8 29	16 39.97	−12 38.7	1.489	1.861	32.8	21.5	94 E	31*	77
474554 2003 YQ_{94}									
4 21	17 19.68	−29 50.8	1.504	2.280	19.9	21.2	130 W	15	86
4 26	17 19.87	−29 52.7	1.421	2.243	18.7	21.0	134 W	15	86
5 1	17 19.16	−29 52.6	1.342	2.205	17.4	20.8	139 W	15	86
5 6	17 17.50	−29 50.0	1.266	2.167	15.7	20.6	144 W	15	86
5 11	17 14.82	−29 44.4	1.195	2.129	13.9	20.3	150 W	15	86
5 21	17 6.30	−29 21.1	1.068	2.051	9.3	19.8	161 W	16	87
5 31	16 53.76	−28 36.4	0.963	1.972	4.2	19.3	172 W	16	87
6 10	16 38.23	−27 25.3	0.882	1.891	4.9	19.0	171 E	18	89

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
474554 2003 YQ_{94} *(continuation)*									
6 15	16 29.91	−26 39.5	0.851	1.851	8.1	19.1	165 E	18	89
6 20	16 21.59	−25 47.5	0.825	1.810	11.8	19.1	159 E	19	90
6 25	16 13.61	−24 50.6	0.805	1.769	15.6	19.1	152 E	20	89
6 30	16 6.27	−23 50.4	0.790	1.727	19.4	19.2	146 E	21	88
7 5	15 59.83	−22 48.8	0.779	1.686	23.2	19.2	139 E	22	87
7 10	15 54.49	−21 47.4	0.772	1.644	26.8	19.2	133 E	23	86
7 15	15 50.39	−20 47.9	0.768	1.603	30.3	19.3	127 E	24*	85
7 20	15 47.62	−19 51.5	0.767	1.561	33.7	19.3	122 E	25*	84
7 30	15 46.29	−18 11.7	0.767	1.479	39.7	19.3	111 E	26*	82
8 9	15 50.44	−16 50.3	0.768	1.398	45.1	19.4	102 E	26*	81
8 19	15 59.76	−15 45.4	0.766	1.320	49.8	19.4	95 E	26*	80
8 29	16 13.98	−14 52.0	0.757	1.246	54.1	19.4	88 E	27*	77*
9 8	16 32.78	−14 3.1	0.740	1.178	58.2	19.3	83 E	27*	73*
9 13	16 43.85	−13 38.0	0.729	1.147	60.1	19.3	81 E	28*	71*
9 18	16 56.05	−13 11.3	0.715	1.118	62.0	19.2	79 E	28*	69*
9 23	17 9.38	−12 41.8	0.699	1.092	63.8	19.2	78 E	29*	67*
9 28	17 23.86	−12 8.4	0.682	1.069	65.5	19.1	76 E	30*	66*
10 3	17 39.51	−11 30.2	0.663	1.050	67.1	19.1	75 E	31*	64*
10 8	17 56.38	−10 46.0	0.643	1.034	68.6	19.0	75 E	32*	63*
10 13	18 14.54	− 9 54.9	0.622	1.023	69.9	19.0	74 E	33*	61*
10 18	18 34.08	− 8 55.9	0.600	1.016	70.9	18.9	74 E	35*	60*
10 23	18 55.09	− 7 48.1	0.580	1.013	71.5	18.8	75 E	36*	59*
10 28	19 17.65	− 6 30.6	0.560	1.014	71.8	18.8	76 E	38*	58*
11 7	20 7.56	− 3 25.5	0.528	1.031	70.8	18.7	79 E	42*	57*
11 17	21 3.53	+ 0 15.1	0.511	1.063	67.6	18.6	84 E	45	55*
11 27	22 3.51	+ 4 13.2	0.516	1.110	62.7	18.5	90 E	49	54*
12 2	22 33.80	+ 6 9.7	0.528	1.138	60.0	18.5	92 E	51	53*
12 7	23 3.55	+ 7 59.3	0.548	1.168	57.2	18.6	95 E	53	52*
12 12	23 32.29	+ 9 39.5	0.574	1.201	54.4	18.7	97 E	55	51*
12 17	23 59.64	+11 9.1	0.608	1.235	51.9	18.8	99 E	56	50*
12 22	0 25.40	+12 27.9	0.648	1.271	49.6	18.9	100 E	57	49*
12 27	0 49.47	+13 36.5	0.693	1.308	47.5	19.1	101 E	59	48*
1 1	1 11.85	+14 36.0	0.745	1.347	45.7	19.2	102 E	60	47*
1 6	1 32.64	+15 27.5	0.801	1.386	44.0	19.4	101 E	60	47*
1 11	1 51.99	+16 12.5	0.862	1.426	42.6	19.6	101 E	61	46*
1 16	2 10.06	+16 51.9	0.927	1.467	41.3	19.8	100 E	62	45*
495511 2014 UD_{206}									
4 21	17 25.62	−30 24.0	0.881	1.697	27.7	21.3	128 W	15	86
5 1	17 36.07	−32 14.7	0.765	1.641	25.6	20.9	135 W	13	84
5 11	17 44.16	−34 22.8	0.661	1.586	22.9	20.4	142 W	11	82
5 21	17 49.28	−36 50.7	0.571	1.532	19.6	19.9	149 W	8	79
5 26	17 50.55	−38 11.7	0.532	1.506	17.9	19.6	153 W	7	78
5 31	17 50.89	−39 36.7	0.496	1.480	16.4	19.4	156 W	5	76
6 5	17 50.33	−41 4.4	0.463	1.454	15.2	19.2	158 W	4	75
6 10	17 48.90	−42 33.4	0.434	1.429	14.7	19.0	159 W	2	73
6 15	17 46.66	−44 1.4	0.409	1.406	14.9	18.8	159 W	1	72
6 20	17 43.82	−45 26.0	0.387	1.382	16.1	18.7	158 E	—	71
6 25	17 40.66	−46 44.3	0.368	1.360	18.0	18.6	156 E	—	69
6 30	17 37.64	−47 54.3	0.352	1.339	20.4	18.6	153 E	—	68
7 5	17 35.21	−48 53.9	0.339	1.320	23.2	18.6	149 E	—	67
7 10	17 33.84	−49 41.8	0.328	1.301	26.1	18.5	146 E	—	66
7 15	17 34.02	−50 16.9	0.319	1.284	28.9	18.5	142 E	—	66
7 20	17 36.18	−50 38.5	0.312	1.269	31.6	18.5	139 E	—	65
7 25	17 40.70	−50 46.2	0.307	1.255	34.1	18.5	136 E	—	65
7 30	17 47.82	−50 39.6	0.303	1.243	36.3	18.6	134 E	—	65
8 9	18 9.75	−49 39.9	0.298	1.225	39.7	18.6	130 E	—	66
8 19	18 40.42	−47 28.7	0.298	1.215	41.7	18.6	127 E	—	69
8 29	19 16.76	−43 58.1	0.305	1.214	42.5	18.7	126 E	1	72
9 3	19 35.79	−41 43.9	0.312	1.216	42.5	18.7	125 E	3	74
9 8	19 54.76	−39 13.1	0.320	1.221	42.3	18.8	125 E	6	77
9 13	20 13.33	−36 28.9	0.331	1.228	42.0	18.9	125 E	9	80
9 18	20 31.29	−33 35.1	0.345	1.237	41.6	19.0	125 E	11	82
9 23	20 48.52	−30 35.9	0.362	1.247	41.1	19.1	125 E	14	85
9 28	21 4.95	−27 35.3	0.382	1.260	40.7	19.2	125 E	17	88
10 3	21 20.56	−24 36.9	0.405	1.274	40.3	19.4	124 E	20	89
10 8	21 35.38	−21 43.4	0.431	1.290	40.0	19.5	124 E	23	86
10 13	21 49.47	−18 56.7	0.461	1.308	39.7	19.7	123 E	26	83
10 18	22 2.92	−16 18.0	0.493	1.327	39.5	19.8	122 E	29	80
10 23	22 15.83	−13 47.8	0.529	1.347	39.2	20.0	121 E	31	78
10 28	22 28.25	−11 26.3	0.569	1.368	39.1	20.2	120 E	34	75
11 7	22 51.88	− 7 8.4	0.656	1.414	38.7	20.6	117 E	38	71
11 17	23 14.27	− 3 20.4	0.756	1.463	38.3	21.0	113 E	42	67
11 27	23 35.82	+ 0 3.1	0.866	1.515	37.9	21.3	110 E	45	64
12 7	23 56.77	+ 3 6.4	0.987	1.569	37.3	21.7	105 E	48	61*

285339 1999 JR_6

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	17 42.97	−29 24.8	1.382	2.121	23.0	21.4	125 W	16	87
4 26	17 37.54	−30 6.7	1.343	2.138	21.0	21.3	130 W	15	86
5 1	17 30.73	−30 47.9	1.309	2.155	18.7	21.2	137 W	14	85
5 6	17 22.56	−31 27.2	1.279	2.171	16.3	21.1	143 W	14	85
5 11	17 13.11	−32 3.1	1.256	2.186	13.6	21.0	149 W	13	84
5 16	17 2.55	−32 34.0	1.239	2.200	10.9	20.9	156 W	12	83
5 21	16 51.10	−32 58.4	1.229	2.213	8.3	20.7	162 W	12	83
5 26	16 39.10	−33 15.2	1.227	2.224	6.1	20.7	166 W	12	83
5 31	16 26.91	−33 23.7	1.233	2.235	5.2	20.6	168 E	12	83
6 5	16 14.94	−33 24.2	1.246	2.245	6.1	20.7	166 E	12	83
6 10	16 3.53	−33 17.5	1.268	2.254	8.2	20.9	162 E	12	83
6 15	15 52.98	−33 4.7	1.297	2.262	10.6	21.0	156 E	12	83
6 20	15 43.52	−32 47.6	1.332	2.268	13.1	21.2	150 E	12	83
6 25	15 35.29	−32 27.8	1.374	2.274	15.4	21.3	144 E	13	84
6 30	15 28.39	−32 7.0	1.422	2.279	17.5	21.5	138 E	13	84

413386 2004 PL_{111}

4 21	17 56.36	−24 55.0	1.253	1.977	25.6	21.4	122 W	20	89
5 1	18 2.33	−25 13.9	1.138	1.947	23.3	21.1	130 W	20	89
5 11	18 4.93	−25 34.7	1.034	1.917	20.1	20.8	139 W	19	90
5 21	18 3.74	−25 57.5	0.946	1.888	15.9	20.4	149 W	19	90
5 31	17 58.66	−26 20.9	0.874	1.859	10.8	20.0	160 W	19	90
6 5	17 54.80	−26 31.8	0.845	1.845	8.0	19.8	165 W	18	89
6 10	17 50.23	−26 41.6	0.822	1.831	5.0	19.6	171 W	18	89
6 15	17 45.12	−26 49.8	0.803	1.818	2.4	19.4	176 W	18	89
6 20	17 39.69	−26 55.9	0.790	1.804	2.8	19.4	175 E	18	89
6 25	17 34.23	−26 59.9	0.782	1.791	5.7	19.5	170 E	18	89
6 30	17 29.01	−27 1.7	0.779	1.779	8.9	19.6	164 E	18	89
7 5	17 24.31	−27 1.6	0.781	1.766	12.2	19.7	159 E	18	89
7 10	17 20.34	−27 0.1	0.787	1.755	15.3	19.8	153 E	18	89
7 15	17 17.29	−26 57.5	0.798	1.743	18.2	20.0	148 E	18	89
7 20	17 15.31	−26 54.3	0.812	1.732	21.0	20.1	142 E	18	89
7 30	17 14.87	−26 48.1	0.851	1.711	25.8	20.3	133 E	18	89
8 9	17 19.23	−26 43.4	0.900	1.692	29.7	20.5	124 E	18	89
8 19	17 28.07	−26 39.7	0.957	1.676	32.7	20.7	117 E	18	89
8 29	17 40.93	−26 35.2	1.020	1.662	34.9	20.9	110 E	18*	89
9 8	17 57.19	−26 26.7	1.088	1.650	36.4	21.0	104 E	19*	90
9 18	18 16.26	−26 10.8	1.159	1.641	37.3	21.2	98 E	19*	90
9 28	18 37.62	−25 44.6	1.232	1.634	37.7	21.3	93 E	19*	87*
10 8	19 0.71	−25 5.4	1.309	1.631	37.8	21.5	89 E	20*	83*

190543 2000 RM_{80}

4 21	18 2.42	−31 11.5	1.721	2.390	21.3	21.4	120 W	14	85
5 1	18 5.54	−31 33.0	1.579	2.349	19.4	21.1	129 W	13	84
5 11	18 5.43	−31 53.0	1.451	2.308	16.8	20.8	139 W	13	84
5 21	18 1.81	−32 9.3	1.340	2.266	13.4	20.5	149 W	13	84
5 31	17 54.69	−32 17.8	1.248	2.224	9.4	20.1	159 W	13	84
6 5	17 49.97	−32 17.8	1.210	2.203	7.3	20.0	164 W	13	84
6 10	17 44.65	−32 14.0	1.178	2.183	5.3	19.8	168 W	13	84
6 15	17 38.87	−32 6.1	1.152	2.162	4.1	19.7	171 W	13	84
6 20	17 32.85	−31 53.9	1.132	2.141	4.6	19.6	170 E	13	84
6 25	17 26.81	−31 37.3	1.119	2.120	6.5	19.7	166 E	13	84
6 30	17 21.00	−31 16.8	1.111	2.099	8.9	19.7	161 E	14	85
7 5	17 15.64	−30 52.9	1.108	2.079	11.5	19.8	156 E	14	85
7 10	17 10.93	−30 26.5	1.111	2.058	14.1	19.9	151 E	15	86
7 15	17 7.02	−29 58.4	1.119	2.038	16.6	20.0	145 E	15	86
7 20	17 4.05	−29 29.4	1.131	2.017	19.0	20.1	140 E	16	87
7 25	17 2.10	−29 0.6	1.148	1.997	21.2	20.1	135 E	16	87
7 30	17 1.22	−28 32.4	1.167	1.977	23.2	20.2	130 E	16	87
8 9	17 2.69	−27 40.2	1.215	1.938	26.8	20.4	121 E	17	88
8 19	17 8.28	−26 54.4	1.271	1.900	29.5	20.5	112 E	18*	89
8 29	17 17.67	−26 14.8	1.332	1.864	31.6	20.6	105 E	19*	90
9 8	17 30.41	−25 38.9	1.396	1.829	33.1	20.7	98 E	19*	90
9 18	17 46.06	−25 3.8	1.461	1.796	34.0	20.8	92 E	19*	85*
9 28	18 4.23	−24 25.9	1.526	1.765	34.5	20.9	86 E	20*	80*
10 8	18 24.52	−23 42.0	1.590	1.736	34.6	20.9	81 E	21*	74*
10 18	18 46.57	−22 49.0	1.653	1.710	34.4	21.0	76 E	22*	69*
10 28	19 10.06	−21 44.4	1.715	1.687	34.0	21.0	71 E	23*	64*
11 7	19 34.64	−20 26.2	1.776	1.667	33.3	21.0	67 E	24*	58*
11 17	20 0.05	−18 53.4	1.836	1.651	32.4	21.1	63 E	25*	53*
11 27	20 26.02	−17 5.4	1.895	1.638	31.4	21.1	60 E	27*	48*
12 7	20 52.30	−15 2.5	1.955	1.630	30.2	21.1	56 E	28*	42*
12 17	21 18.73	−12 45.9	2.015	1.625	28.9	21.1	53 E	30*	37*
12 27	21 45.17	−10 17.0	2.076	1.624	27.5	21.2	50 E	31*	32*
1 6	22 11.49	− 7 38.1	2.138	1.627	26.0	21.2	47 E	31*	27*
1 16	22 37.67	− 4 51.5	2.201	1.635	24.5	21.2	43 E	31*	23*

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

403227 2008 UH_{229}

4 21	18 4.21	−21 20.5	1.372	2.067	24.9	21.3	120 W	24	85
5 1	18 9.07	−21 22.4	1.251	2.039	22.7	21.0	129 W	24	85
5 11	18 10.63	−21 26.9	1.143	2.010	19.7	20.7	138 W	24	85
5 21	18 8.53	−21 35.3	1.048	1.981	15.7	20.3	148 W	23	86
5 31	18 2.68	−21 47.9	0.972	1.953	10.7	20.0	159 W	23	86
6 10	17 53.61	−22 3.6	0.915	1.924	4.9	19.5	171 W	23	86
6 15	17 48.19	−22 12.0	0.895	1.910	1.8	19.3	177 W	23	86
6 20	17 42.44	−22 20.5	0.881	1.896	1.7	19.2	177 E	23	86
6 25	17 36.61	−22 28.9	0.872	1.882	4.9	19.4	171 E	23	86
6 30	17 30.96	−22 37.2	0.868	1.869	8.2	19.5	165 E	22	87
7 5	17 25.74	−22 45.4	0.870	1.855	11.4	19.6	159 E	22	87
7 10	17 21.17	−22 53.6	0.877	1.842	14.4	19.8	153 E	22	87
7 15	17 17.42	−23 2.0	0.888	1.829	17.4	19.9	148 E	22	87
7 20	17 14.64	−23 10.7	0.903	1.816	20.1	20.0	142 E	22	87
7 30	17 12.39	−23 30.1	0.944	1.791	24.9	20.2	132 E	21	88
8 9	17 14.71	−23 52.1	0.996	1.767	28.7	20.4	123 E	21	88
8 19	17 21.41	−24 15.4	1.056	1.744	31.7	20.6	115 E	21*	88
8 29	17 32.14	−24 37.9	1.121	1.723	33.9	20.7	108 E	20*	89
9 8	17 46.38	−24 56.8	1.190	1.704	35.4	20.9	101 E	20*	89
9 18	18 3.64	−25 8.6	1.261	1.687	36.4	21.0	96 E	20*	89*
9 28	18 23.46	−25 10.4	1.333	1.671	36.8	21.1	90 E	20*	84*
10 8	18 45.36	−24 59.2	1.406	1.658	36.9	21.2	85 E	20*	79*
10 18	19 8.90	−24 32.7	1.479	1.647	36.7	21.3	81 E	20*	74*
10 28	19 33.71	−23 49.3	1.553	1.638	36.2	21.4	77 E	21*	69*
11 7	19 59.38	−22 47.9	1.627	1.632	35.4	21.5	73 E	22*	65*

361094 2006 CJ_{60}

4 21	18 5.22	−14 56.4	1.055	1.779	29.5	21.5	119 W	30	79
5 1	18 7.42	−14 7.8	0.986	1.795	26.1	21.2	128 W	31	78
5 11	18 5.22	−13 22.4	0.927	1.810	21.8	21.0	138 W	32	77
5 21	17 58.62	−12 44.1	0.882	1.825	16.7	20.7	149 W	32	77
5 31	17 48.23	−12 16.9	0.855	1.839	11.1	20.5	159 W	33	76
6 5	17 42.04	−12 8.6	0.848	1.846	8.5	20.4	164 W	33	76
6 10	17 35.48	−12 4.0	0.847	1.852	6.6	20.3	168 W	33	76
6 15	17 28.79	−12 3.5	0.852	1.859	6.2	20.3	169 E	33	76
6 20	17 22.25	−12 7.1	0.862	1.865	7.4	20.4	166 E	33	76
6 25	17 16.11	−12 14.8	0.878	1.871	9.7	20.5	162 E	33	76
6 30	17 10.59	−12 26.2	0.899	1.877	12.2	20.7	157 E	33	76
7 5	17 5.86	−12 41.3	0.925	1.883	14.8	20.8	152 E	32	77
7 10	17 2.04	−12 59.4	0.956	1.889	17.3	21.0	146 E	32	77
7 15	16 59.20	−13 20.3	0.991	1.894	19.6	21.2	141 E	32	77
7 20	16 57.37	−13 43.5	1.029	1.899	21.6	21.3	136 E	31	78
7 25	16 56.57	−14 8.6	1.071	1.904	23.5	21.5	132 E	31	78

100766 1998 FX_{24}

4 21	18 5.99	−30 51.5	2.930	3.535	14.3	21.5	120 W	14	85
5 1	18 3.41	−31 8.0	2.815	3.544	12.6	21.3	130 W	14	85
5 11	17 58.48	−31 22.4	2.717	3.552	10.5	21.2	140 W	14	85
5 21	17 51.38	−31 32.6	2.641	3.559	7.9	21.0	151 W	13	84
5 31	17 42.53	−31 36.5	2.589	3.566	5.1	20.9	162 W	13	84
6 10	17 32.61	−31 32.4	2.566	3.572	2.7	20.7	170 W	13	84
6 20	17 22.43	−31 19.9	2.573	3.576	3.0	20.7	169 E	14	85
6 30	17 12.84	−30 59.8	2.609	3.580	5.6	20.9	160 E	14	85
7 10	17 4.60	−30 34.5	2.672	3.583	8.4	21.1	149 E	14	85
7 20	16 58.23	−30 6.7	2.760	3.585	10.8	21.3	139 E	15	86
7 30	16 54.07	−29 39.1	2.868	3.586	12.8	21.4	128 E	15	86

422716 2000 WA_{106}

4 21	18 7.12	−22 52.0	1.602	2.272	22.7	21.5	119 W	22	87
5 1	18 10.51	−22 36.5	1.471	2.241	20.6	21.2	128 W	22	87
5 11	18 10.73	−22 19.6	1.353	2.209	17.8	20.9	138 W	23	86
5 21	18 7.52	−22 1.4	1.250	2.177	14.1	20.6	148 W	23	86
5 31	18 0.93	−21 41.8	1.166	2.145	9.6	20.2	159 W	23	86
6 10	17 51.52	−21 20.5	1.104	2.113	4.3	19.8	171 W	24	85
6 15	17 46.08	−21 9.1	1.082	2.097	1.7	19.6	177 W	24	85
6 20	17 40.37	−20 57.4	1.066	2.081	2.0	19.6	176 E	24	85
6 25	17 34.63	−20 45.6	1.056	2.065	4.9	19.7	170 E	24	85
6 30	17 29.07	−20 34.0	1.052	2.049	7.8	19.8	164 E	24	85
7 5	17 23.91	−20 23.0	1.054	2.033	10.7	19.9	158 E	25	84
7 10	17 19.33	−20 12.9	1.060	2.017	13.5	20.0	152 E	25	84
7 15	17 15.47	−20 4.2	1.072	2.001	16.2	20.1	147 E	25	84
7 20	17 12.47	−19 57.1	1.088	1.985	18.7	20.2	141 E	25	84
7 30	17 9.37	−19 48.6	1.132	1.954	23.1	20.4	131 E	25	84
8 9	17 10.32	−19 48.0	1.187	1.924	26.7	20.6	122 E	25	84
8 19	17 15.20	−19 54.0	1.251	1.894	29.4	20.8	113 E	25*	84
8 29	17 23.74	−20 4.3	1.320	1.865	31.4	20.9	106 E	25*	84
9 8	17 35.54	−20 15.9	1.391	1.837	32.8	21.0	99 E	24*	84
9 18	17 50.20	−20 25.6	1.464	1.811	33.7	21.1	92 E	24*	83*

422716 2000 WA_{106} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 28	18 7.36	−20 30.2	2.283	2.890	17.9	21.4	118 W	25	84
5 1	18 14.22	−19 12.2	2.141	2.867	16.2	21.2	127 W	26	83
5 11	18 11.62	−18 51.1	2.014	2.842	13.9	21.0	138 W	26	83
5 21	18 6.35	−18 30.7	1.906	2.817	10.9	20.7	148 W	26	83
5 31	17 58.64	−18 11.3	1.819	2.791	7.3	20.5	159 W	27	82
6 10	17 49.05	−17 53.3	1.759	2.764	3.6	20.2	170 W	27	82
6 20	17 38.42	−17 37.4	1.725	2.737	2.6	20.0	173 E	27	82
6 25	17 33.05	−17 30.4	1.719	2.723	4.3	20.1	168 E	27	82
6 30	17 27.83	−17 24.4	1.720	2.708	6.3	20.2	163 E	28	81
7 5	17 22.90	−17 19.5	1.727	2.694	8.4	20.3	157 E	28	81
7 10	17 18.38	−17 15.8	1.741	2.679	10.4	20.4	152 E	28	81
7 20	17 10.94	−17 12.5	1.785	2.649	14.2	20.6	140 E	28	81
7 30	17 6.13	−17 15.3	1.848	2.617	17.3	20.7	130 E	28	81
8 9	17 4.22	−17 24.1	1.926	2.586	19.9	20.9	120 E	28	81
8 19	17 5.20	−17 38.1	2.015	2.553	21.8	21.0	111 E	27*	82
8 29	17 8.99	−17 56.1	2.109	2.520	23.1	21.1	102 E	27*	82
9 8	17 15.33	−18 16.3	2.206	2.486	23.9	21.2	94 E	26*	82*
9 18	17 23.99	−18 37.2	2.303	2.451	24.1	21.3	86 E	25*	78*
9 28	17 34.74	−18 56.7	2.398	2.416	24.0	21.3	79 E	24*	71*
10 8	17 47.34	−19 13.2	2.488	2.380	23.6	21.4	72 E	23*	65*
10 18	18 1.59	−19 25.0	2.572	2.344	22.8	21.4	66 E	23*	58*
10 28	18 17.30	−19 30.5	2.648	2.307	21.8	21.4	59 E	22*	51*
11 7	18 34.29	−19 28.2	2.716	2.270	20.5	21.4	53 E	21*	45*
11 17	18 52.41	−19 16.8	2.775	2.233	19.1	21.3	48 E	21*	38*
11 27	19 11.51	−18 55.3	2.825	2.195	17.5	21.3	42 E	20*	32*
12 7	19 31.45	−18 22.7	2.864	2.157	15.9	21.2	37 E	19*	25*
12 17	19 52.10	−17 38.4	2.894	2.119	14.1	21.1	32 E	17*	19*
12 27	20 13.36	−16 41.9	2.914	2.082	12.2	21.0	27 E	15*	14*
1 6	20 35.09	−15 33.1	2.925	2.044	10.3	20.9	22 E	13*	9*
1 16	20 57.25	−14 12.0	2.926	2.007	8.3	20.8	17 E	9*	5*

416501 2003 YU_1

4 21	18 14.45	−32 22.2	1.090	1.793	29.8	21.2	118 W	13	84
4 26	18 18.85	−32 25.8	1.034	1.780	28.8	21.1	121 W	13	84
5 1	18 22.33	−32 28.2	0.980	1.767	27.6	20.9	126 W	13	84
5 6	18 24.80	−32 29.2	0.928	1.754	26.2	20.7	130 W	13	84
5 11	18 26.18	−32 28.6	0.879	1.741	24.6	20.6	134 W	13	84
5 16	18 26.36	−32 25.9	0.833	1.727	22.7	20.4	139 W	13	84
5 21	18 25.26	−32 20.7	0.789	1.714	20.4	20.2	144 W	13	84
5 26	18 22.82	−32 12.1	0.750	1.700	17.9	20.0	149 W	13	84
5 31	18 19.06	−31 59.1	0.714	1.685	15.1	19.7	154 W	13	84
6 5	18 14.03	−31 40.8	0.682	1.671	12.1	19.5	160 W	13	84
6 10	18 7.86	−31 16.2	0.655	1.657	8.9	19.3	165 W	14	85
6 15	18 0.76	−30 44.3	0.632	1.642	5.9	19.0	171 W	14	85
6 20	17 53.02	−30 4.8	0.614	1.628	4.2	18.9	173 E	15	86
6 25	17 45.02	−29 18.0	0.602	1.613	5.7	18.9	171 E	16	87
6 30	17 37.19	−28 24.6	0.594	1.599	9.1	19.0	166 E	17	88
7 5	17 29.91	−27 26.4	0.591	1.584	12.8	19.1	160 E	18	89
7 10	17 23.51	−26 25.2	0.592	1.570	16.7	19.2	154 E	19	90
7 15	17 18.26	−25 23.1	0.598	1.555	20.4	19.4	148 E	20	89
7 20	17 14.35	−24 22.1	0.607	1.541	23.9	19.5	142 E	21	88
7 25	17 11.91	−23 23.7	0.619	1.526	27.1	19.6	137 E	22	87
7 30	17 10.97	−22 29.2	0.633	1.512	30.1	19.7	132 E	23	86
8 9	17 13.43	−20 53.6	0.669	1.484	35.2	19.9	123 E	24	85
8 19	17 21.19	−19 35.8	0.709	1.458	39.1	20.1	115 E	25*	84
8 29	17 33.58	−18 32.2	0.753	1.432	42.2	20.3	108 E	26*	83
9 8	17 49.85	−17 37.2	0.797	1.408	44.4	20.5	102 E	27*	82
9 18	18 9.37	−16 45.1	0.842	1.387	46.0	20.6	97 E	28*	81
9 28	18 31.64	−15 50.6	0.886	1.367	47.1	20.7	93 E	29*	79*
10 8	18 56.15	−14 48.8	0.929	1.351	47.7	20.8	89 E	30*	76*
10 18	19 22.49	−13 36.4	0.973	1.337	48.0	20.9	86 E	31*	72*
10 28	19 50.33	−12 10.6	1.016	1.326	48.0	21.0	83 E	33*	68*
11 7	20 19.27	−10 29.9	1.060	1.319	47.7	21.0	80 E	35	63*
11 17	20 49.06	− 8 34.0	1.105	1.315	47.2	21.1	78 E	36	59*
11 27	21 19.43	− 6 23.6	1.152	1.316	46.6	21.2	76 E	39	54*
12 7	21 50.16	− 4 0.4	1.201	1.319	45.7	21.2	73 E	41*	50*
12 17	22 21.08	− 1 27.1	1.254	1.327	44.7	21.3	72 E	43*	45*
12 27	22 52.10	+ 1 13.3	1.311	1.337	43.6	21.4	70 E	46*	41*
1 6	23 23.10	+ 3 57.1	1.373	1.351	42.3	21.5	68 E	48*	37*

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

517594 2014 WX_{199}

4 21	18 17.98	−38 49.5	4.026	4.562	11.4	21.4	116 W	6	77
5 1	18 17.47	−39 33.6	3.893	4.554	10.4	21.3	126 W	5	76
5 11	18 15.08	−40 16.8	3.776	4.546	9.1	21.2	135 W	5	76
5 21	18 10.89	−40 56.9	3.680	4.537	7.5	21.1	144 W	4	75
5 31	18 5.12	−41 31.4	3.606	4.529	6.0	20.9	152 W	3	74
6 10	17 58.16	−41 57.8	3.559	4.521	4.6	20.8	159 W	3	74
6 20	17 50.55	−42 14.4	3.539	4.513	4.2	20.8	161 E	3	74
6 30	17 42.91	−42 20.3	3.547	4.505	4.9	20.8	158 E	3	74
7 10	17 35.89	−42 16.0	3.582	4.497	6.3	20.9	151 E	3	74
7 20	17 30.03	−42 2.9	3.641	4.489	8.0	21.0	142 E	3	74
7 30	17 25.75	−41 43.2	3.724	4.481	9.5	21.1	133 E	3	74
8 9	17 23.32	−41 19.5	3.825	4.473	10.8	21.2	124 E	4	75
8 19	17 22.83	−40 53.7	3.940	4.465	11.8	21.3	115 E	4	75
8 29	17 24.29	−40 27.6	4.067	4.457	12.6	21.4	106 E	4*	76

467963 2012 JT_{17}

4 21	18 32.24	−15 10.3	1.012	1.681	33.4	21.2	113 W	30*	79
4 26	18 42.08	−13 39.2	0.934	1.639	33.7	20.9	115 W	31	78
5 1	18 52.13	−11 53.5	0.860	1.596	34.1	20.7	117 W	33	76
5 6	19 2.47	− 9 50.9	0.789	1.554	34.6	20.5	119 W	35	74
5 11	19 13.20	− 7 28.7	0.722	1.511	35.1	20.2	121 W	38	71
5 16	19 24.43	− 4 43.8	0.659	1.468	35.9	20.0	122 W	40	69
5 21	19 36.31	− 1 32.6	0.601	1.426	36.9	19.8	122 W	43	66
5 26	19 49.07	+ 2 8.3	0.547	1.384	38.4	19.5	122 W	47	62
5 31	20 2.99	+ 6 22.6	0.499	1.342	40.3	19.3	121 W	51	58
6 5	20 18.47	+11 12.5	0.456	1.301	42.8	19.1	119 W	56	53
6 10	20 36.03	+16 38.6	0.420	1.260	46.1	19.0	117 W	62	47
6 15	20 56.30	+22 37.0	0.390	1.221	50.1	18.9	113 W	68	41
6 20	21 20.11	+28 57.9	0.367	1.183	54.8	18.8	108 W	74	35
6 22	21 30.85	+31 32.9	0.360	1.168	56.8	18.8	106 W	77	32
6 24	21 42.38	+34 7.4	0.355	1.153	58.9	18.8	104 W	79	30
6 26	21 54.77	+36 39.7	0.350	1.139	61.0	18.8	101 W	82*	27
6 28	22 8.10	+39 8.1	0.347	1.125	63.1	18.8	99 W	84*	25
6 30	22 22.41	+41 30.8	0.344	1.112	65.2	18.8	97 W	86*	22
7 2	22 37.76	+43 46.1	0.343	1.098	67.3	18.9	95 W	87*	20
7 4	22 54.15	+45 52.1	0.343	1.086	69.4	18.9	92 W	86*	18
7 6	23 11.57	+47 47.3	0.344	1.073	71.3	18.9	90 W	84*	16
7 8	23 29.96	+49 30.2	0.346	1.061	73.2	19.0	88 W	82*	14
7 10	23 49.22	+50 59.7	0.349	1.050	74.9	19.0	86 W	80*	13
7 12	0 9.17	+52 14.9	0.352	1.039	76.6	19.1	84 W	78*	12
7 14	0 29.61	+53 15.2	0.357	1.028	78.1	19.1	82 W	76*	11
7 16	0 50.31	+54 0.7	0.362	1.019	79.4	19.2	80 W	74*	10
7 18	1 11.00	+54 31.8	0.368	1.009	80.6	19.3	78 W	72*	9
7 20	1 31.43	+54 48.9	0.374	1.001	81.7	19.3	77 W	71*	9
7 22	1 51.36	+54 53.3	0.381	0.992	82.6	19.4	76 W	70*	9
7 24	2 10.61	+54 46.1	0.389	0.985	83.3	19.4	74 W	68*	9
7 26	2 29.02	+54 28.5	0.396	0.978	83.9	19.5	73 W	67*	10
7 28	2 46.51	+54 2.0	0.405	0.972	84.3	19.5	72 W	66*	10*
7 30	3 3.02	+53 28.0	0.413	0.967	84.6	19.6	71 W	65*	10*
8 1	3 18.55	+52 47.6	0.422	0.962	84.8	19.6	71 W	65*	11*
8 3	3 33.11	+52 2.0	0.431	0.959	84.8	19.7	70 W	64*	12*
8 5	3 46.75	+51 12.2	0.440	0.956	84.7	19.7	70 W	64*	12*
8 7	3 59.51	+50 19.1	0.450	0.953	84.4	19.7	69 W	63*	13*
8 9	4 11.46	+49 23.5	0.459	0.952	84.1	19.8	69 W	63*	14*
8 11	4 22.66	+48 25.9	0.469	0.951	83.7	19.8	69 W	63*	15*
8 13	4 33.16	+47 26.9	0.479	0.952	83.2	19.8	69 W	63*	15*
8 15	4 43.03	+46 27.0	0.488	0.953	82.6	19.8	69 W	62*	16*
8 17	4 52.31	+45 26.4	0.498	0.954	81.9	19.8	69 W	62*	17*
8 19	5 1.05	+44 25.4	0.508	0.957	81.2	19.9	69 W	63*	18*
8 21	5 9.30	+43 24.3	0.517	0.960	80.4	19.9	69 W	63*	19*
8 23	5 17.09	+42 23.3	0.526	0.964	79.5	19.9	70 W	63*	20*
8 25	5 24.47	+41 22.5	0.536	0.969	78.6	19.9	70 W	63*	20*
8 27	5 31.45	+40 22.0	0.545	0.975	77.7	19.9	71 W	63*	21*
8 29	5 38.08	+39 21.9	0.554	0.981	76.7	20.0	71 W	64*	22*
9 3	5 53.24	+36 54.0	0.575	1.000	74.2	20.0	73 W	64*	25*
9 8	6 6.59	+34 29.9	0.594	1.023	71.6	20.0	74 W	65*	27*
9 13	6 18.32	+32 9.9	0.611	1.050	68.9	20.1	77 W	66*	29*
9 18	6 28.52	+29 54.1	0.626	1.079	66.1	20.1	79 W	67*	32*
9 28	6 44.63	+25 34.3	0.650	1.146	60.6	20.1	85 W	68*	37*
10 8	6 55.21	+21 29.3	0.666	1.220	54.9	20.1	92 W	66*	42*
10 18	7 0.17	+17 38.2	0.675	1.300	48.9	20.1	100 W	63	46*
10 28	6 59.27	+14 1.7	0.681	1.383	42.5	20.1	110 W	59	50
11 2	6 56.63	+12 19.8	0.684	1.425	39.0	20.1	115 W	57	52
11 7	6 52.56	+10 43.1	0.689	1.468	35.5	20.1	121 W	56	53
11 12	6 47.14	+ 9 12.3	0.695	1.510	31.8	20.1	127 W	54	55
11 17	6 40.47	+ 7 48.7	0.704	1.553	28.0	20.0	132 W	53	56
11 22	6 32.78	+ 6 33.5	0.716	1.596	24.2	20.0	138 W	52	57
11 27	6 24.33	+ 5 28.0	0.733	1.638	20.6	20.0	144 W	50	59
12 2	6 15.42	+ 4 32.9	0.754	1.681	17.2	20.0	150 W	50	59
12 7	6 6.37	+ 3 49.0	0.781	1.723	14.3	20.1	154 W	49	60

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
467963 2012 JT_{17} *(continuation)*									
12 17	5 49.07	+ 2 54.9	0.852	1.807	11.0	20.2	159 W	48	61
12 27	5 34.59	+ 2 42.1	0.947	1.889	12.1	20.6	156 E	48	61
1 6	5 24.12	+ 3 1.2	1.064	1.970	15.2	21.0	148 E	48	61
1 16	5 17.90	+ 3 41.9	1.202	2.049	18.4	21.5	139 E	49	60
348073 2003 WN_{22}									
4 21	18 35.14	−14 49.4	2.017	2.572	21.2	21.3	112 W	30*	79
5 1	18 38.87	−15 7.1	1.858	2.529	20.0	21.1	121 W	30	79
5 11	18 40.08	−15 35.0	1.711	2.487	18.0	20.8	130 W	29	80
5 21	18 38.45	−16 15.9	1.578	2.444	15.3	20.5	140 W	29	80
5 31	18 33.77	−17 11.9	1.463	2.401	11.8	20.1	151 W	28	81
6 10	18 26.14	−18 23.8	1.369	2.357	7.5	19.8	162 W	27	82
6 20	18 15.99	−19 49.6	1.300	2.313	2.7	19.4	174 W	25	84
6 25	18 10.25	−20 36.4	1.276	2.291	1.4	19.2	177 E	24	85
6 30	18 4.29	−21 24.9	1.258	2.269	3.4	19.3	172 E	24	85
7 5	17 58.30	−22 14.4	1.247	2.247	6.1	19.4	166 E	23	86
7 10	17 52.46	−23 4.1	1.242	2.226	8.8	19.5	160 E	22	87
7 15	17 46.97	−23 53.3	1.243	2.204	11.5	19.6	154 E	21	88
7 20	17 42.00	−24 41.6	1.250	2.182	14.1	19.7	148 E	20	89
7 25	17 37.73	−25 28.5	1.263	2.160	16.6	19.8	143 E	20	89
7 30	17 34.29	−26 13.8	1.280	2.139	18.8	19.8	137 E	19	90
8 9	17 30.23	−27 39.5	1.326	2.096	22.8	20.0	127 E	17	88
8 19	17 30.24	−28 58.1	1.384	2.053	26.0	20.2	117 E	16	87
8 29	17 34.38	−30 9.9	1.449	2.012	28.4	20.3	108 E	15*	86
9 8	17 42.48	−31 14.4	1.519	1.971	30.2	20.4	101 E	14*	85
9 18	17 54.22	−32 10.6	1.590	1.932	31.3	20.5	93 E	13*	83*
9 28	18 9.31	−32 56.8	1.661	1.894	31.9	20.5	87 E	12*	79*
10 8	18 27.37	−33 30.9	1.729	1.858	32.1	20.6	81 E	11*	74*
10 18	18 48.06	−33 50.6	1.794	1.823	32.0	20.6	76 E	11*	69*
10 28	19 11.02	−33 53.3	1.856	1.791	31.6	20.7	71 E	11*	64*
11 7	19 35.85	−33 36.8	1.914	1.762	30.9	20.7	66 E	11*	60*
11 17	20 2.16	−32 59.1	1.968	1.735	30.1	20.7	62 E	11*	56*
11 27	20 29.55	−31 58.9	2.019	1.711	29.2	20.7	58 E	12*	51*
12 7	20 57.62	−30 35.8	2.067	1.691	28.2	20.7	54 E	13*	47*
12 17	21 26.03	−28 50.0	2.113	1.674	27.1	20.7	51 E	14*	43*
12 27	21 54.47	−26 42.7	2.158	1.661	25.9	20.7	48 E	16*	39*
1 6	22 22.71	−24 16.0	2.202	1.652	24.7	20.6	45 E	17*	36*
1 16	22 50.59	−21 32.5	2.247	1.648	23.4	20.6	42 E	17*	32*
247179 2001 DC_9									
4 21	18 37.98	−51 24.3	2.408	2.927	18.7	21.5	111 W	—	65
4 26	18 39.11	−52 6.6	2.346	2.920	18.2	21.4	115 W	—	64
5 1	18 39.29	−52 49.3	2.288	2.914	17.6	21.3	119 W	—	63
5 6	18 38.47	−53 31.8	2.232	2.907	16.9	21.3	123 W	—	62
5 11	18 36.59	−54 13.6	2.180	2.900	16.2	21.2	127 W	—	62
5 16	18 33.60	−54 53.7	2.132	2.893	15.4	21.1	130 W	—	61
5 21	18 29.46	−55 31.2	2.088	2.885	14.6	21.0	134 W	—	60
5 26	18 24.19	−56 4.8	2.049	2.877	13.8	20.9	137 W	—	60
5 31	18 17.85	−56 33.3	2.015	2.869	13.0	20.9	140 W	—	59
6 5	18 10.58	−56 55.4	1.986	2.861	12.4	20.8	143 W	—	59
6 10	18 2.54	−57 10.2	1.963	2.852	11.9	20.8	145 W	—	59
6 15	17 53.96	−57 16.6	1.945	2.844	11.6	20.7	146 W	—	59
6 20	17 45.10	−57 14.1	1.933	2.835	11.5	20.7	146 E	—	59
6 25	17 36.28	−57 2.4	1.928	2.825	11.7	20.7	146 E	—	59
6 30	17 27.80	−56 41.7	1.928	2.816	12.2	20.7	144 E	—	59
7 5	17 19.93	−56 12.9	1.934	2.806	12.9	20.7	142 E	—	60
7 10	17 12.89	−55 36.9	1.945	2.796	13.7	20.8	139 E	—	60
7 15	17 6.82	−54 54.9	1.961	2.786	14.6	20.8	136 E	—	61
7 20	17 1.85	−54 8.0	1.983	2.776	15.6	20.9	133 E	—	62
7 25	16 58.04	−53 17.8	2.009	2.765	16.5	20.9	129 E	—	63
7 30	16 55.39	−52 25.3	2.040	2.754	17.5	21.0	125 E	—	64
8 4	16 53.87	−51 31.8	2.074	2.743	18.4	21.0	121 E	—	64
8 9	16 53.42	−50 38.0	2.111	2.732	19.2	21.1	118 E	—	65
8 14	16 53.99	−49 44.7	2.152	2.721	19.9	21.1	114 E	—	66
8 19	16 55.51	−48 52.4	2.194	2.709	20.6	21.2	110 E	—	67
8 24	16 57.91	−48 1.5	2.239	2.697	21.1	21.2	106 E	—	68
8 29	17 1.11	−47 12.3	2.286	2.685	21.6	21.3	102 E	—	69
9 3	17 5.05	−46 24.7	2.334	2.673	21.9	21.3	98 E	—	70
9 8	17 9.65	−45 38.9	2.382	2.660	22.2	21.4	95 E	—	70*
9 13	17 14.86	−44 54.8	2.432	2.647	22.3	21.4	91 E	—	70*
9 18	17 20.63	−44 12.1	2.481	2.634	22.4	21.5	87 E	—	70*
9 23	17 26.91	−43 30.8	2.531	2.621	22.4	21.5	84 E	—	69*
416597 2004 OS_4									
4 21	18 38.60	−28 52.0	1.327	1.947	28.5	21.3	112 W	16*	87
5 1	18 49.41	−28 47.6	1.206	1.918	27.1	21.0	120 W	16	87
5 11	18 57.36	−28 41.2	1.095	1.889	25.0	20.7	128 W	16	87
5 21	19 1.90	−28 33.5	0.994	1.861	22.1	20.4	136 W	16	87
5 31	19 2.52	−28 23.8	0.907	1.835	18.2	20.0	146 W	17	88
6 10	18 59.08	−28 10.0	0.834	1.809	13.4	19.7	156 W	17	88

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
416597 2004 OS_4 *(continuation)*									
6 15	18 55.91	−28 0.5	0.805	1.796	10.6	19.5	161 W	17	88
6 20	18 51.89	−27 48.5	0.780	1.784	7.7	19.3	166 W	17	88
6 25	18 47.19	−27 33.6	0.760	1.772	4.7	19.1	172 W	17	88
6 30	18 42.06	−27 15.4	0.745	1.760	2.5	18.9	176 W	18	89
7 5	18 36.75	−26 54.1	0.735	1.749	3.6	18.9	174 E	18	89
7 10	18 31.54	−26 29.6	0.730	1.739	6.6	19.0	169 E	19	90
7 15	18 26.69	−26 2.6	0.730	1.728	9.9	19.1	163 E	19	90
7 20	18 22.47	−25 33.6	0.735	1.719	13.1	19.3	157 E	19	90
7 25	18 19.09	−25 3.4	0.744	1.709	16.2	19.4	152 E	20	89
7 30	18 16.73	−24 32.9	0.758	1.700	19.1	19.5	147 E	20	89
8 4	18 15.49	−24 2.7	0.774	1.692	21.8	19.6	142 E	21	88
8 9	18 15.40	−23 33.2	0.795	1.684	24.3	19.8	137 E	21	88
8 19	18 18.71	−22 37.6	0.843	1.670	28.5	20.0	128 E	22	87
8 29	18 26.43	−21 46.2	0.902	1.659	31.7	20.2	120 E	23	86
9 8	18 38.00	−20 57.2	0.967	1.650	34.1	20.4	113 E	24	85
9 18	18 52.78	−20 7.7	1.038	1.643	35.8	20.6	107 E	25	84
9 28	19 10.19	−19 14.3	1.113	1.639	36.8	20.8	102 E	26	83
10 8	19 29.64	−18 14.4	1.192	1.638	37.3	21.0	96 E	27	82*
10 18	19 50.64	−17 5.6	1.275	1.640	37.4	21.1	92 E	28	79*
10 28	20 12.79	−15 46.7	1.361	1.644	37.1	21.2	87 E	29	74*
11 7	20 35.72	−14 16.7	1.449	1.651	36.6	21.4	83 E	31	69*
422665 1999 TT_{39}									
4 21	18 38.86	−28 28.2	1.760	2.336	23.4	21.5	112 W	17*	88
5 1	18 44.95	−29 29.0	1.618	2.303	22.1	21.2	121 W	16	87
5 11	18 48.22	−30 40.8	1.487	2.269	20.1	20.9	130 W	14	85
5 21	18 48.18	−32 4.0	1.370	2.234	17.3	20.6	139 W	13	84
5 31	18 44.42	−33 36.6	1.269	2.200	13.9	20.3	149 W	11	82
6 5	18 41.10	−34 24.8	1.227	2.182	12.0	20.2	154 W	11	82
6 10	18 36.85	−35 13.1	1.189	2.165	10.1	20.0	158 W	10	81
6 15	18 31.74	−36 0.2	1.158	2.147	8.3	19.9	162 W	9	80
6 20	18 25.89	−36 44.8	1.132	2.130	7.0	19.7	165 W	8	79
6 25	18 19.47	−37 25.6	1.112	2.112	6.7	19.7	166 W	8	79
6 30	18 12.73	−38 1.3	1.098	2.095	7.5	19.7	164 E	7	78
7 5	18 5.93	−38 31.3	1.090	2.078	9.2	19.7	161 E	6	77
7 10	17 59.32	−38 55.0	1.088	2.060	11.4	19.8	156 E	6	77
7 15	17 53.17	−39 12.4	1.091	2.043	13.7	19.8	151 E	6	77
7 20	17 47.74	−39 23.7	1.099	2.026	16.1	19.9	146 E	6	77
7 25	17 43.23	−39 29.5	1.112	2.008	18.4	20.0	141 E	6	77
7 30	17 39.81	−39 30.8	1.129	1.991	20.6	20.1	136 E	5	76
8 4	17 37.57	−39 28.4	1.150	1.974	22.6	20.2	132 E	6	77
8 9	17 36.56	−39 23.0	1.173	1.958	24.5	20.2	127 E	6	77
8 19	17 38.25	−39 5.8	1.227	1.925	27.6	20.4	118 E	6	77
8 29	17 44.72	−38 43.0	1.288	1.893	30.0	20.5	110 E	6	77
9 8	17 55.45	−38 15.5	1.353	1.861	31.8	20.7	103 E	7*	78
9 18	18 9.90	−37 42.5	1.421	1.831	33.0	20.8	97 E	7*	78
9 28	18 27.52	−37 2.0	1.489	1.803	33.8	20.9	91 E	8*	78*
10 8	18 47.72	−36 11.3	1.556	1.776	34.1	20.9	85 E	9*	76*
10 18	19 9.99	−35 7.8	1.622	1.751	34.1	21.0	80 E	10*	73*
10 28	19 33.86	−33 49.4	1.687	1.728	33.8	21.0	75 E	11*	69*
11 7	19 58.85	−32 14.4	1.751	1.708	33.3	21.1	71 E	13*	65*
11 17	20 24.57	−30 21.8	1.813	1.689	32.5	21.1	67 E	14*	61*
11 27	20 50.67	−28 11.5	1.874	1.674	31.7	21.1	63 E	17*	56*
12 7	21 16.88	−25 44.4	1.935	1.661	30.6	21.2	59 E	19*	51*
12 17	21 42.99	−23 1.7	1.995	1.652	29.4	21.2	56 E	21*	46*
12 27	22 8.87	−20 5.4	2.055	1.645	28.1	21.2	52 E	23*	41*
1 6	22 34.42	−16 57.9	2.115	1.642	26.8	21.2	49 E	24*	36*
1 16	22 59.65	−13 41.8	2.175	1.642	25.3	21.2	45 E	25*	32*
427624 2003 UN_{81}									
4 21	18 39.94	−22 10.0	1.780	2.347	23.4	21.4	112 W	23*	86
5 1	18 45.49	−22 31.3	1.637	2.315	22.1	21.2	120 W	22	87
5 11	18 48.31	−23 0.4	1.505	2.283	20.0	20.9	129 W	22	87
5 21	18 48.00	−23 38.9	1.385	2.250	17.1	20.6	139 W	21	88
5 31	18 44.26	−24 27.0	1.282	2.217	13.4	20.2	150 W	21	88
6 10	18 37.12	−25 23.1	1.199	2.184	8.8	19.9	161 W	20	89
6 15	18 32.40	−25 53.0	1.166	2.167	6.3	19.7	167 W	19	90
6 20	18 27.04	−26 23.1	1.139	2.150	3.7	19.5	172 W	19	90
6 25	18 21.22	−26 52.7	1.118	2.133	1.8	19.3	176 W	18	89
6 30	18 15.12	−27 21.1	1.103	2.117	3.1	19.4	174 E	18	89
7 5	18 8.98	−27 47.8	1.095	2.100	5.8	19.5	168 E	17	88
7 10	18 3.02	−28 12.1	1.092	2.083	8.6	19.6	162 E	17	88
7 15	17 57.46	−28 33.9	1.095	2.066	11.4	19.7	156 E	16	87
7 20	17 52.50	−28 53.2	1.103	2.049	14.2	19.8	150 E	16	87
7 25	17 48.33	−29 10.0	1.116	2.033	16.7	19.9	145 E	16	87
7 30	17 45.10	−29 24.7	1.134	2.016	19.2	20.0	139 E	16	87
8 9	17 41.76	−29 48.6	1.180	1.983	23.4	20.2	129 E	15	86
8 19	17 42.78	−30 7.2	1.238	1.950	26.8	20.3	120 E	15	86

427624 2003 UN_{81} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
8 29	17 48.10	−30 21.4	1.304	1.918	29.3	20.5	111 E	15	86
9 8	17 57.37	−30 31.2	1.374	1.887	31.2	20.6	104 E	14*	85
9 18	18 10.15	−30 35.0	1.446	1.857	32.5	20.7	97 E	14*	85
9 28	18 26.00	−30 30.9	1.519	1.828	33.2	20.8	91 E	14*	83*
10 8	18 44.45	−30 16.6	1.591	1.801	33.5	20.9	85 E	15*	78*
10 18	19 5.07	−29 49.6	1.662	1.775	33.5	20.9	79 E	15*	73*
10 28	19 27.47	−29 8.0	1.730	1.750	33.2	21.0	75 E	16*	68*
11 7	19 51.24	−28 10.0	1.797	1.728	32.6	21.0	70 E	17*	63*
11 17	20 16.02	−26 54.5	1.861	1.708	31.8	21.1	66 E	18*	58*
11 27	20 41.51	−25 21.1	1.923	1.690	30.8	21.1	61 E	19*	53*
12 7	21 7.40	−23 30.0	1.983	1.675	29.8	21.1	58 E	21*	48*
12 17	21 33.47	−21 22.0	2.042	1.663	28.5	21.1	54 E	22*	43*
12 27	21 59.55	−18 58.7	2.099	1.653	27.2	21.1	50 E	23*	38*
1 6	22 25.52	−16 22.1	2.155	1.647	25.8	21.1	47 E	24*	34*
1 16	22 51.30	−13 34.4	2.211	1.644	24.3	21.1	44 E	25*	30*

482228 2011 BH_{10}

4	21	18 42.96	−40 0.9	1.458	2.052	27.1	21.5	111 W	5*	76
4	26	18 46.21	−40 31.9	1.393	2.039	26.5	21.4	115 W	4*	75
5	1	18 48.50	−41 4.6	1.330	2.026	25.6	21.2	120 W	4	75
5	6	18 49.72	−41 38.8	1.270	2.013	24.6	21.1	124 W	3	74
5	11	18 49.76	−42 14.4	1.211	1.999	23.4	20.9	128 W	3	74
5	16	18 48.48	−42 50.7	1.156	1.985	22.1	20.8	133 W	2	73
5	21	18 45.76	−43 26.9	1.104	1.969	20.5	20.6	137 W	2	73
5	26	18 41.50	−44 1.7	1.056	1.954	18.8	20.4	142 W	1	72
5	31	18 35.64	−44 33.3	1.012	1.937	17.0	20.3	146 W	—	71
6	5	18 28.21	−44 59.7	0.972	1.920	15.2	20.1	150 W	—	71
6	10	18 19.31	−45 18.7	0.938	1.903	13.5	19.9	154 W	—	71
6	15	18 9.11	−45 27.8	0.908	1.885	12.3	19.8	157 W	—	71
6	20	17 57.96	−45 24.9	0.885	1.866	11.8	19.7	158 W	—	71
6	25	17 46.31	−45 8.5	0.867	1.847	12.2	19.7	157 E	—	71
6	30	17 34.69	−44 38.3	0.854	1.827	13.6	19.6	155 E	—	71
7	5	17 23.60	−43 54.9	0.847	1.807	15.6	19.7	151 E	1	72
7	10	17 13.50	−43 0.1	0.846	1.786	18.1	19.7	147 E	2	73
7	15	17 4.73	−41 56.2	0.849	1.764	20.8	19.8	142 E	3	74
7	20	16 57.54	−40 45.9	0.856	1.742	23.5	19.9	137 E	4	75
7	25	16 52.07	−39 32.2	0.867	1.720	26.1	20.0	132 E	5	76
7	30	16 48.34	−38 17.3	0.882	1.697	28.6	20.0	127 E	7	78
8	4	16 46.31	−37 3.4	0.898	1.673	31.0	20.1	122 E	8*	79
8	9	16 45.86	−35 51.7	0.917	1.649	33.1	20.2	117 E	9*	80
8	14	16 46.90	−34 43.1	0.937	1.625	35.1	20.3	113 E	10*	81
8	19	16 49.31	−33 38.0	0.959	1.600	36.9	20.3	109 E	11*	82
8	24	16 52.99	−32 36.4	0.980	1.574	38.4	20.4	104 E	12*	83
8	29	16 57.81	−31 38.3	1.002	1.549	39.9	20.4	101 E	13*	84
9	3	17 3.68	−30 43.1	1.023	1.522	41.1	20.5	97 E	13*	85
9	8	17 10.48	−29 50.4	1.043	1.496	42.2	20.5	94 E	14*	85*
9	13	17 18.16	−28 59.4	1.063	1.469	43.2	20.5	90 E	15*	84*
9	18	17 26.64	−28 9.5	1.081	1.442	44.1	20.6	87 E	16*	81*
9	23	17 35.86	−27 20.1	1.098	1.415	44.9	20.6	84 E	16*	78*
9	28	17 45.77	−26 30.5	1.114	1.388	45.6	20.6	82 E	17*	76*
10	3	17 56.30	−25 39.8	1.127	1.360	46.3	20.6	79 E	18*	73*
10	8	18 7.40	−24 47.6	1.139	1.333	46.9	20.6	77 E	19*	71*
10	13	18 19.06	−23 53.0	1.149	1.305	47.4	20.6	75 E	20*	68*
10	18	18 31.22	−22 55.4	1.157	1.278	48.0	20.6	72 E	21*	66*
10	23	18 43.87	−21 54.4	1.163	1.252	48.5	20.5	70 E	22*	63*
10	28	18 56.97	−20 49.2	1.166	1.225	49.0	20.5	69 E	23*	61*
11	2	19 10.48	−19 39.5	1.168	1.199	49.5	20.5	67 E	24*	58*
11	7	19 24.38	−18 24.6	1.168	1.174	50.1	20.4	65 E	25*	56*
11	17	19 53.32	−15 38.3	1.161	1.127	51.2	20.4	63 E	28*	50*
11	27	20 23.71	−12 27.7	1.147	1.084	52.4	20.3	61 E	31*	45*
12	7	20 55.49	− 8 51.9	1.126	1.048	53.7	20.2	59 E	34*	40*
12	17	21 28.79	− 4 51.6	1.102	1.020	55.1	20.2	58 E	38*	36*
12	27	22 3.82	− 0 29.6	1.075	1.002	56.4	20.1	58 E	41*	32*
1	1	22 22.07	+ 1 47.9	1.061	0.996	57.0	20.1	58 E	43*	30*
1	6	22 40.87	+ 4 8.6	1.048	0.994	57.5	20.1	58 E	45*	28*
1	11	23 0.28	+ 6 31.1	1.037	0.994	57.9	20.1	59 E	47*	27*
1	16	23 20.35	+ 8 54.3	1.026	0.997	58.2	20.0	59 E	48*	26*

152754 1999 GS_6

4	21	18 43.49	−26 14.6	0.978	1.637	34.9	21.5	111 W	19*	90
4	26	18 42.88	−26 22.4	0.942	1.656	33.0	21.4	116 W	19*	90
5	1	18 40.79	−26 31.6	0.907	1.673	30.9	21.2	122 W	18	89
5	6	18 37.10	−26 42.0	0.874	1.688	28.4	21.1	127 W	18	89
5	11	18 31.75	−26 52.9	0.843	1.703	25.6	21.0	133 W	18	89
5	16	18 24.68	−27 3.4	0.815	1.716	22.4	20.8	140 W	18	89
5	21	18 15.91	−27 12.3	0.792	1.728	18.9	20.6	146 W	18	89
5	26	18 5.56	−27 18.2	0.773	1.739	15.1	20.5	153 W	18	89
5	31	17 53.88	−27 19.5	0.759	1.748	11.0	20.3	161 W	18	89
6	5	17 41.25	−27 15.1	0.752	1.757	6.9	20.1	168 W	18	89
6	10	17 28.14	−27 4.3	0.751	1.764	3.0	19.9	175 W	18	89
6	15	17 15.03	−26 47.2	0.757	1.770	3.2	20.0	174 E	18	89

152754 1999 GS_6 *(continuation)*

6	20	17 2.46	−26 24.6	0.769	1.775	7.0	20.2	168 E	19	90
6	25	16 50.87	−25 58.1	0.788	1.779	11.0	20.4	161 E	19	90
6	30	16 40.60	−25 29.7	0.813	1.782	14.7	20.6	154 E	20	89
7	5	16 31.87	−25 1.1	0.844	1.783	18.2	20.8	147 E	20	89
7	10	16 24.76	−24 34.0	0.879	1.784	21.3	21.0	140 E	20	89
7	15	16 19.27	−24 9.5	0.917	1.783	24.0	21.2	134 E	21	88
7	20	16 15.35	−23 48.4	0.960	1.781	26.5	21.4	129 E	21	88

100017 1989 TN_2

4	21	18 54.01	−13 0.6	2.211	2.690	20.9	21.5	107 W	32*	77
5	1	18 57.45	−12 18.1	2.064	2.666	19.8	21.3	116 W	33*	76
5	11	18 58.44	−11 37.7	1.927	2.641	18.2	21.1	125 W	33	76
5	21	18 56.77	−11 1.5	1.802	2.615	16.0	20.8	135 W	34	75
5	31	18 52.32	−10 32.0	1.694	2.588	13.1	20.6	145 W	34	75
6	10	18 45.28	−10 11.7	1.606	2.560	9.8	20.3	155 W	35	74
6	20	18 36.09	−10 2.5	1.541	2.532	6.6	20.1	163 W	35	74
6	30	18 25.59	−10 6.0	1.503	2.503	5.4	19.9	167 E	35	74
7	10	18 14.91	−10 22.2	1.490	2.473	7.7	20.0	161 E	35	74
7	20	18 5.23	−10 50.1	1.503	2.443	11.6	20.1	151 E	34	75
7	30	17 57.60	−11 27.6	1.538	2.411	15.4	20.3	141 E	34	75
8	9	17 52.75	−12 12.1	1.591	2.379	18.9	20.5	131 E	33	76
8	19	17 51.02	−13 0.7	1.659	2.347	21.7	20.6	121 E	32	77
8	29	17 52.50	−13 50.9	1.738	2.314	23.9	20.7	112 E	31	78
9	8	17 57.04	−14 40.2	1.823	2.280	25.4	20.9	104 E	30*	79
9	18	18 4.41	−15 26.4	1.911	2.246	26.4	21.0	96 E	29*	79*
9	28	18 14.34	−16 7.6	2.000	2.212	26.9	21.0	88 E	28*	77*
10	8	18 26.54	−16 42.0	2.087	2.177	27.0	21.1	82 E	28*	72*
10	18	18 40.76	−17 7.9	2.171	2.143	26.7	21.1	75 E	27*	66*
10	28	18 56.75	−17 24.0	2.250	2.108	26.1	21.2	69 E	26*	59*
11	7	19 14.27	−17 29.0	2.323	2.073	25.2	21.2	63 E	26*	53*
11	17	19 33.13	−17 21.9	2.390	2.038	24.2	21.2	58 E	25*	47*
11	27	19 53.14	−17 1.7	2.450	2.003	22.9	21.1	52 E	25*	40*
12	7	20 14.11	−16 28.0	2.503	1.969	21.5	21.1	47 E	24*	34*
12	17	20 35.89	−15 40.5	2.548	1.936	20.0	21.1	42 E	23*	28*
12	27	20 58.34	−14 39.1	2.586	1.903	18.3	21.0	37 E	22*	23*
1	6	21 21.33	−13 24.3	2.617	1.871	16.6	20.9	33 E	20*	18*
1	16	21 44.78	−11 56.5	2.641	1.840	14.9	20.9	29 E	18*	14*

496457 2014 QN_{297}

4	21	18 54.47	−26 43.2	1.140	1.746	33.0	21.5	109 W	18*	89
5	1	19 10.70	−26 10.5	1.033	1.720	32.1	21.2	115 W	19*	90
5	11	19 24.60	−25 30.9	0.934	1.696	30.6	20.9	121 W	19*	90
5	21	19 35.62	−24 46.5	0.844	1.673	28.3	20.6	128 W	20	89
5	31	19 43.17	−23 59.1	0.764	1.652	25.1	20.3	136 W	21	88
6	10	19 46.83	−23 10.0	0.695	1.634	21.0	19.9	145 W	22	87
6	20	19 46.31	−22 20.0	0.640	1.617	15.8	19.5	154 W	23	86
6	30	19 41.92	−21 29.2	0.600	1.603	9.6	19.1	165 W	24	85
7	5	19 38.60	−21 3.4	0.586	1.597	6.2	18.9	170 W	24	85
7	10	19 34.79	−20 37.3	0.576	1.592	2.7	18.7	176 W	24	85
7	15	19 30.75	−20 11.2	0.571	1.587	1.4	18.6	178 E	25	84
7	20	19 26.73	−19 45.2	0.570	1.583	4.8	18.8	173 E	25	84
7	25	19 23.04	−19 19.7	0.574	1.580	8.3	19.0	167 E	26	83
7	30	19 19.95	−18 54.9	0.582	1.578	11.7	19.1	162 E	26	83
8	4	19 17.66	−18 31.0	0.593	1.576	15.0	19.3	156 E	26	83
8	9	19 16.31	−18 8.3	0.609	1.575	18.0	19.4	151 E	27	82
8	19	19 16.78	−17 26.6	0.650	1.575	23.4	19.8	142 E	28	81
8	29	19 21.66	−16 48.7	0.703	1.579	27.6	20.1	134 E	28	81
9	8	19 30.59	−16 12.0	0.767	1.585	30.9	20.3	126 E	29	80
9	18	19 42.95	−15 33.3	0.839	1.594	33.3	20.6	119 E	29	80
9	28	19 58.11	−14 49.6	0.919	1.606	34.9	20.9	113 E	30	79
10	8	20 15.41	−13 58.3	1.005	1.621	35.9	21.1	108 E	31	78
10	18	20 34.29	−12 58.0	1.098	1.638	36.4	21.4	103 E	32	77

267136 2000 EF_{104}

4	21	19 8.41	−23 2.8	0.992	1.588	37.6	21.4	105 W	21*	87
4	26	19 14.82	−23 30.4	0.934	1.578	37.1	21.2	109 W	21*	88
5	1	19 20.67	−24 3.1	0.876	1.567	36.5	21.1	112 W	21*	88
5	6	19 25.90	−24 42.2	0.819	1.555	35.6	20.9	116 W	20*	89
5	11	19 30.43	−25 29.0	0.763	1.541	34.6	20.7	120 W	19*	89
5	16	19 34.12	−26 25.2	0.708	1.526	33.3	20.5	124 W	19*	90
5	21	19 36.82	−27 32.6	0.656	1.510	31.7	20.2	128 W	17	88
5	26	19 38.34	−28 53.3	0.605	1.492	29.8	20.0	133 W	16	87
5	31	19 38.44	−30 29.3	0.557	1.474	27.6	19.7	138 W	15	86
6	5	19 36.86	−32 22.8	0.511	1.454	25.1	19.4	143 W	13	84
6	10	19 33.20	−34 35.5	0.469	1.433	22.4	19.1	147 W	10	81
6	15	19 26.96	−37 8.3	0.431	1.411	19.7	18.8	152 W	8	79
6	20	19 17.53	−40 0.4	0.396	1.388	17.3	18.5	156 W	5	76
6	22	19 12.71	−41 13.9	0.384	1.378	16.7	18.4	157 W	4	75
6	24	19 7.21	−42 29.6	0.372	1.368	16.4	18.3	158 W	3	74

267136 2000 EF_{104} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
6 26	19 0.99	−43 46.8	0.361	1.358	16.4	18.2	158 W	1	72
6 28	18 54.02	−45 5.0	0.351	1.348	16.7	18.2	158 W	—	71
6 30	18 46.24	−46 23.5	0.342	1.337	17.5	18.1	157 W	—	70
7 2	18 37.62	−47 41.3	0.333	1.327	18.7	18.1	155 E	—	68
7 4	18 28.13	−48 57.6	0.325	1.316	20.2	18.1	153 E	—	67
7 6	18 17.76	−50 11.2	0.318	1.305	22.0	18.1	151 E	—	66
7 8	18 6.52	−51 21.2	0.312	1.293	24.1	18.1	149 E	—	65
7 10	17 54.44	−52 26.5	0.307	1.282	26.4	18.1	146 E	—	64
7 12	17 41.59	−53 25.9	0.302	1.270	28.9	18.1	143 E	—	63
7 14	17 28.06	−54 18.7	0.298	1.258	31.5	18.1	140 E	—	62
7 16	17 13.98	−55 4.1	0.295	1.246	34.2	18.1	136 E	—	61
7 18	16 59.51	−55 41.5	0.292	1.234	37.0	18.2	133 E	—	60
7 20	16 44.83	−56 10.8	0.290	1.222	39.7	18.2	130 E	—	60
7 22	16 30.14	−56 32.0	0.288	1.209	42.6	18.3	126 E	—	59
7 24	16 15.59	−56 45.5	0.287	1.197	45.4	18.3	123 E	—	59
7 26	16 1.37	−56 51.7	0.286	1.184	48.2	18.4	120 E	—	59
7 28	15 47.58	−56 51.2	0.286	1.171	51.0	18.4	116 E	—	59
7 30	15 34.32	−56 45.0	0.286	1.158	53.8	18.5	113 E	—	59
8 1	15 21.66	−56 33.6	0.286	1.144	56.5	18.5	110 E	—	59
8 3	15 9.63	−56 17.9	0.286	1.131	59.2	18.6	107 E	—	60
8 5	14 58.21	−55 58.5	0.286	1.117	62.0	18.6	104 E	—	60
8 7	14 47.41	−55 35.9	0.286	1.103	64.7	18.7	101 E	—	60*
8 9	14 37.18	−55 10.7	0.287	1.089	67.3	18.7	98 E	—	60*
8 11	14 27.49	−54 43.2	0.287	1.075	70.0	18.8	95 E	—	60*
8 13	14 18.27	−54 13.6	0.287	1.061	72.7	18.9	92 E	—	59*
8 15	14 9.48	−53 42.3	0.287	1.047	75.4	18.9	89 E	—	58*
8 17	14 1.04	−53 9.2	0.287	1.032	78.1	19.0	86 E	—	56*
8 19	13 52.90	−52 34.3	0.287	1.018	80.8	19.0	83 E	—	55*
8 21	13 44.99	−51 57.5	0.286	1.003	83.6	19.1	80 E	—	53*
8 23	13 37.25	−51 18.5	0.286	0.988	86.4	19.2	77 E	—	51*
8 25	13 29.62	−50 36.9	0.285	0.974	89.2	19.3	74 E	—	49*
8 27	13 22.04	−49 52.2	0.284	0.959	92.2	19.3	71 E	—	47*
8 29	13 14.49	−49 3.8	0.283	0.944	95.2	19.4	69 E	—	44*
8 31	13 6.91	−48 11.0	0.282	0.929	98.3	19.5	66 E	—	42*
9 2	12 59.31	−47 13.1	0.281	0.915	101.5	19.7	63 E	—	39*
9 4	12 51.67	−46 9.4	0.280	0.900	104.8	19.8	60 E	—	37*
9 6	12 43.99	−44 59.0	0.279	0.885	108.3	19.9	57 E	—	34*
9 8	12 36.30	−43 41.1	0.278	0.871	111.8	20.1	53 E	—	31*
9 10	12 28.64	−42 15.2	0.277	0.856	115.5	20.3	50 E	—	27*
9 12	12 21.06	−40 40.6	0.276	0.842	119.2	20.5	47 E	—	24*
9 14	12 13.60	−38 57.0	0.276	0.828	123.0	20.8	44 E	—	21*
9 16	12 6.34	−37 4.2	0.277	0.815	126.9	21.1	40 E	—	17*
9 18	11 59.34	−35 2.5	0.278	0.801	130.8	21.4	37 E	—	13*

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4 21	19 51.84	+10 18.0	2.373	2.559	23.1	21.4	89 W	51*	54
5 1	19 56.12	+11 23.5	2.227	2.537	23.3	21.3	96 W	54*	53
5 11	19 58.10	+12 25.1	2.081	2.513	23.0	21.1	103 W	56*	52
5 21	19 57.44	+13 18.4	1.937	2.486	22.3	20.9	111 W	58*	51
5 31	19 53.75	+13 57.4	1.800	2.457	21.2	20.7	119 W	59	50
6 10	19 46.78	+14 14.3	1.674	2.426	19.5	20.4	127 W	59	50
6 15	19 42.03	+14 11.8	1.616	2.410	18.5	20.3	131 W	59	50
6 20	19 36.45	+14 0.2	1.562	2.392	17.5	20.2	135 W	59	50
6 25	19 30.10	+13 38.4	1.514	2.375	16.4	20.1	139 W	59	50
6 30	19 23.07	+13 5.5	1.470	2.356	15.4	19.9	142 W	58	51
7 5	19 15.50	+12 20.6	1.433	2.337	14.6	19.8	145 W	57	52
7 10	19 7.52	+11 23.5	1.402	2.317	14.1	19.8	146 E	56	53
7 15	18 59.33	+10 14.2	1.378	2.297	14.0	19.7	147 E	55	54
7 20	18 51.12	+ 8 53.4	1.361	2.276	14.4	19.7	146 E	54	55
7 25	18 43.12	+ 7 22.1	1.351	2.255	15.3	19.7	144 E	52	57
7 30	18 35.52	+ 5 42.1	1.348	2.232	16.5	19.7	141 E	51	58
8 4	18 28.50	+ 3 55.2	1.351	2.210	18.0	19.7	138 E	49	60
8 9	18 22.22	+ 2 3.5	1.361	2.186	19.7	19.8	133 E	47	62
8 14	18 16.77	+ 0 9.1	1.377	2.162	21.4	19.8	129 E	45	64
8 19	18 12.25	− 1 46.4	1.398	2.137	23.1	19.9	124 E	43	66
8 24	18 8.71	− 3 41.2	1.424	2.112	24.7	19.9	119 E	41	68
8 29	18 6.17	− 5 34.0	1.454	2.085	26.2	20.0	114 E	39	70
9 3	18 4.62	− 7 23.9	1.486	2.058	27.5	20.1	110 E	38	71
9 8	18 4.04	− 9 10.1	1.522	2.031	28.6	20.1	105 E	36*	73
9 18	18 5.67	−12 30.2	1.596	1.974	30.4	20.2	96 E	32*	77
9 28	18 10.80	−15 32.5	1.673	1.914	31.5	20.3	88 E	29*	76*
10 8	18 19.07	−18 17.0	1.747	1.851	32.1	20.3	80 E	26*	71*
10 18	18 30.24	−20 44.5	1.815	1.785	32.1	20.3	72 E	23*	65*
10 28	18 44.08	−22 55.8	1.874	1.717	31.7	20.3	65 E	20*	58*
11 7	19 0.42	−24 51.6	1.921	1.646	31.1	20.2	59 E	18*	52*
11 17	19 19.18	−26 32.1	1.955	1.572	30.1	20.1	53 E	16*	46*
11 27	19 40.34	−27 57.2	1.973	1.496	29.1	20.0	48 E	14*	40*
12 7	20 3.88	−29 6.0	1.975	1.418	28.1	19.9	43 E	12*	36*
12 17	20 29.91	−29 56.9	1.960	1.338	27.2	19.7	39 E	10*	32*
12 27	20 58.53	−30 27.5	1.927	1.257	26.7	19.5	35 E	8*	28*
1 6	21 29.88	−30 33.7	1.877	1.176	26.8	19.3	33 E	6*	26*
1 16	22 4.16	−30 9.5	1.811	1.096	27.7	19.1	31 E	5*	25*

423829 2006 ME_{10}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	19 53.81	−25 29.5	1.388	1.790	34.0	21.4	96 W	17*	89*
5 1	20 13.52	−24 3.1	1.274	1.763	34.2	21.2	101 W	19*	88
5 11	20 31.59	−22 24.7	1.165	1.737	34.0	20.9	106 W	21*	86
5 21	20 47.71	−20 35.8	1.063	1.714	33.4	20.7	111 W	23*	85
5 31	21 1.44	−18 38.3	0.968	1.693	32.1	20.4	117 W	26*	83
6 10	21 12.39	−16 34.2	0.882	1.675	30.3	20.2	124 W	28*	81
6 20	21 20.07	−14 26.1	0.805	1.659	27.6	19.9	131 W	31	78
6 30	21 24.04	−12 17.3	0.739	1.646	24.0	19.5	139 W	33	76
7 10	21 24.11	−10 12.0	0.685	1.636	19.5	19.2	147 W	35	74
7 15	21 22.70	− 9 12.2	0.664	1.632	17.0	19.1	152 W	36	73
7 20	21 20.40	− 8 15.5	0.646	1.629	14.4	18.9	157 W	37	72
7 25	21 17.34	− 7 22.6	0.633	1.627	11.7	18.8	161 W	38	71
7 30	21 13.71	− 6 34.2	0.624	1.626	9.2	18.6	165 W	38	71
8 4	21 9.72	− 5 50.8	0.619	1.625	7.3	18.5	168 W	39	70
8 9	21 5.61	− 5 12.8	0.619	1.626	6.8	18.5	169 E	40	69
8 19	20 57.97	− 4 14.2	0.632	1.629	10.0	18.7	164 E	41	68
8 29	20 52.65	− 3 36.4	0.663	1.635	15.1	19.0	155 E	41	68
9 8	20 50.86	− 3 13.9	0.710	1.645	20.0	19.3	146 E	42	67
9 13	20 51.43	− 3 6.3	0.738	1.651	22.2	19.5	142 E	42	67
9 18	20 53.00	− 2 59.9	0.770	1.657	24.1	19.7	138 E	42	67
9 23	20 55.54	− 2 53.9	0.805	1.665	25.8	19.8	134 E	42	67
9 28	20 58.99	− 2 47.5	0.843	1.673	27.4	20.0	130 E	42	67
10 8	21 8.34	− 2 31.2	0.926	1.691	29.8	20.3	123 E	42	67
10 18	21 20.46	− 2 7.5	1.018	1.711	31.5	20.5	116 E	43	66
10 28	21 34.80	− 1 33.9	1.119	1.734	32.5	20.8	110 E	43	66
11 7	21 50.81	− 0 49.6	1.226	1.759	33.0	21.1	105 E	44	65
11 17	22 8.08	+ 0 5.5	1.340	1.786	33.1	21.3	99 E	45	63*
11 27	22 26.28	+ 1 11.1	1.460	1.815	32.9	21.5	94 E	46	59*

90147 2002 YK_{14}

4 21	19 54.06	−39 38.2	1.254	1.711	35.6	21.4	98 W	3*	76*
4 26	20 2.28	−38 58.5	1.185	1.693	35.7	21.3	101 W	4*	77
5 1	20 9.85	−38 14.4	1.117	1.674	35.8	21.1	104 W	5*	78
5 6	20 16.71	−37 25.4	1.050	1.655	35.7	21.0	107 W	6*	79
5 11	20 22.81	−36 30.9	0.983	1.635	35.4	20.8	110 W	7*	79
5 16	20 28.04	−35 30.1	0.917	1.615	35.0	20.6	114 W	8*	81
5 21	20 32.29	−34 21.7	0.852	1.594	34.4	20.4	117 W	10*	82
5 26	20 35.44	−33 4.3	0.789	1.573	33.5	20.2	121 W	12*	83
5 31	20 37.35	−31 35.6	0.727	1.551	32.3	19.9	125 W	13*	84
6 5	20 37.87	−29 52.9	0.668	1.529	30.8	19.7	129 W	15*	86
6 10	20 36.83	−27 52.9	0.611	1.506	28.9	19.4	134 W	17	88
6 15	20 34.01	−25 31.1	0.557	1.483	26.6	19.1	139 W	19	90
6 20	20 29.18	−22 42.4	0.507	1.459	23.8	18.8	145 W	22	87
6 25	20 22.17	−19 20.8	0.461	1.435	20.5	18.4	150 W	26	83
6 30	20 12.83	−15 20.6	0.420	1.411	17.0	18.1	156 W	30	79
7 5	20 1.13	−10 38.0	0.386	1.387	14.2	17.7	160 W	34	75
7 10	19 47.17	− 5 13.9	0.359	1.362	13.7	17.5	162 W	40	69
7 12	19 41.01	− 2 54.2	0.350	1.352	14.5	17.5	161 W	42	67
7 14	19 34.55	− 0 30.0	0.343	1.342	15.9	17.5	159 W	45	64
7 16	19 27.84	+ 1 57.5	0.337	1.332	17.8	17.5	156 E	47	62
7 18	19 20.92	+ 4 26.9	0.332	1.322	20.0	17.5	154 E	49	60
7 20	19 13.83	+ 6 56.9	0.329	1.312	22.5	17.6	150 E	52	57
7 22	19 6.63	+ 9 26.0	0.327	1.302	25.2	17.6	147 E	54	55
7 24	18 59.37	+11 52.5	0.326	1.292	28.0	17.7	143 E	57	52
7 26	18 52.11	+14 15.3	0.327	1.282	30.8	17.7	140 E	59	50
7 28	18 44.89	+16 33.1	0.328	1.273	33.6	17.8	136 E	62	47
7 30	18 37.78	+18 45.1	0.331	1.263	36.3	17.9	133 E	64	45
8 4	18 20.71	+23 45.5	0.341	1.238	42.8	18.1	124 E	69	40
8 9	18 5.07	+28 1.2	0.356	1.214	48.5	18.3	116 E	73	36
8 14	17 51.21	+31 34.3	0.373	1.190	53.4	18.5	109 E	77	32
8 19	17 39.28	+34 31.2	0.391	1.166	57.6	18.7	103 E	80	29
8 24	17 29.26	+36 59.2	0.410	1.144	61.0	18.8	98 E	82*	27
8 29	17 20.99	+39 5.9	0.428	1.122	63.9	19.0	94 E	83*	25
9 3	17 14.20	+40 57.2	0.445	1.101	66.4	19.1	90 E	82*	23
9 8	17 8.64	+42 37.5	0.459	1.081	68.4	19.2	86 E	80*	21*
9 13	17 4.05	+44 10.1	0.472	1.063	70.2	19.3	84 E	77*	19*
9 18	17 0.21	+45 37.6	0.482	1.046	71.7	19.3	81 E	75*	17*
9 23	16 56.90	+47 2.4	0.489	1.031	73.0	19.4	79 E	73*	14*
9 28	16 53.88	+48 26.0	0.493	1.018	74.1	19.4	78 E	71*	11*
10 3	16 50.93	+49 49.3	0.494	1.007	75.0	19.4	76 E	69*	8*
10 8	16 47.87	+51 12.8	0.491	0.998	75.9	19.4	76 E	66*	5*
10 13	16 44.56	+52 37.1	0.486	0.991	76.6	19.4	75 E	64*	1*
10 18	16 40.86	+54 3.0	0.476	0.987	77.2	19.4	75 E	62*	—
10 23	16 36.59	+55 31.6	0.464	0.986	77.6	19.3	75 E	60*	—
10 28	16 31.55	+57 4.2	0.449	0.987	77.8	19.2	76 E	57*	—
11 2	16 25.50	+58 42.1	0.430	0.990	77.8	19.2	77 E	55*	—
11 7	16 18.14	+60 27.5	0.409	0.996	77.5	19.1	79 E	52*	—

90147 2002 YK_{14} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 9	16 14.74	+61 12.6	0.400	0.999	77.3	19.0	80 E	51*	—
11 11	16 11.01	+61 59.7	0.390	1.002	77.0	18.9	80 E	50*	—
11 13	16 6.90	+62 49.1	0.380	1.006	76.6	18.9	81 E	49*	—
11 15	16 2.33	+63 41.4	0.370	1.010	76.2	18.8	83 E	48*	—
11 17	15 57.20	+64 36.8	0.359	1.014	75.7	18.7	84 E	47*	—
11 19	15 51.36	+65 35.9	0.348	1.019	75.0	18.7	85 E	46*	—
11 21	15 44.63	+66 38.9	0.337	1.024	74.3	18.6	87 W	45*	—
11 23	15 36.77	+67 46.4	0.325	1.030	73.4	18.5	88 W	47*	—
11 25	15 27.41	+68 58.5	0.314	1.036	72.4	18.4	90 W	49*	—
11 27	15 16.06	+70 15.6	0.302	1.042	71.2	18.3	92 W	51*	—
11 28	15 9.42	+70 55.9	0.296	1.045	70.6	18.2	93 W	52*	—
11 29	15 2.00	+71 37.4	0.291	1.048	69.9	18.2	94 W	52*	—
11 30	14 53.63	+72 19.9	0.285	1.051	69.1	18.1	95 W	53*	—
12 1	14 44.15	+73 3.2	0.279	1.054	68.3	18.0	96 W	54*	—
12 2	14 33.35	+73 47.1	0.273	1.058	67.4	18.0	98 W	55*	—
12 3	14 20.95	+74 31.1	0.267	1.061	66.5	17.9	99 W	55*	—
12 4	14 6.67	+75 14.6	0.262	1.065	65.5	17.8	100 W	56*	—
12 5	13 50.13	+75 56.9	0.256	1.068	64.5	17.8	102 W	56*	—
12 6	13 30.97	+76 36.6	0.251	1.072	63.3	17.7	104 W	57*	—
12 7	13 8.80	+77 12.4	0.245	1.076	62.1	17.6	105 W	57*	—
12 8	12 43.35	+77 42.2	0.240	1.079	60.8	17.5	107 W	57*	—
12 9	12 14.59	+78 3.6	0.235	1.083	59.4	17.5	109 W	57*	—
12 10	11 42.86	+78 14.0	0.229	1.087	58.0	17.4	111 W	57	—
12 11	11 9.02	+78 10.7	0.225	1.091	56.4	17.3	113 W	57	—
12 12	10 34.40	+77 51.4	0.220	1.095	54.7	17.2	115 W	57	—
12 13	10 0.53	+77 15.0	0.215	1.099	53.0	17.1	117 W	58	—
12 14	9 28.74	+76 21.2	0.211	1.103	51.1	17.0	119 W	59	—
12 15	8 59.94	+75 10.6	0.207	1.107	49.2	16.9	122 W	60	—
12 16	8 34.51	+73 44.5	0.203	1.111	47.1	16.9	124 W	61	—
12 17	8 12.40	+72 4.5	0.200	1.116	45.0	16.8	127 W	63	—
12 18	7 53.37	+70 12.1	0.197	1.120	42.7	16.7	129 W	65	—
12 19	7 37.04	+68 8.9	0.195	1.124	40.4	16.6	132 W	67	—
12 20	7 23.02	+65 56.3	0.192	1.128	38.0	16.5	135 W	69	—
12 21	7 10.95	+63 35.6	0.191	1.133	35.5	16.4	138 W	71	—
12 22	7 0.52	+61 8.3	0.189	1.137	33.0	16.4	141 W	74	3
12 23	6 51.47	+58 35.6	0.189	1.142	30.5	16.3	144 W	76	5
12 24	6 43.58	+55 58.8	0.188	1.146	28.0	16.2	147 W	79	8
12 25	6 36.67	+53 19.3	0.189	1.150	25.5	16.2	150 W	82	11
12 26	6 30.59	+50 38.3	0.189	1.155	23.0	16.1	153 W	84	13
12 27	6 25.22	+47 57.1	0.191	1.160	20.7	16.0	155 W	87	16
12 28	6 20.46	+45 16.8	0.193	1.164	18.5	16.0	158 E	90	19
12 29	6 16.22	+42 38.5	0.195	1.169	16.5	16.0	160 E	88	21
12 30	6 12.45	+40 3.2	0.198	1.173	14.7	16.0	162 E	85	24
12 31	6 9.07	+37 31.7	0.201	1.178	13.3	15.9	164 E	83	26
1 1	6 6.04	+35 4.7	0.205	1.183	12.3	16.0	165 E	80	29
1 2	6 3.33	+32 42.9	0.209	1.187	11.7	16.0	166 E	78	31
1 3	6 0.89	+30 26.5	0.214	1.192	11.6	16.0	166 E	75	34
1 4	5 58.70	+28 16.0	0.219	1.197	12.0	16.1	165 E	73	36
1 5	5 56.74	+26 11.5	0.225	1.202	12.7	16.2	164 E	71	38
1 6	5 54.97	+24 13.1	0.231	1.206	13.6	16.3	163 E	69	40
1 8	5 51.97	+20 34.6	0.244	1.216	15.8	16.5	160 E	66	43
1 10	5 49.58	+17 19.6	0.259	1.226	18.2	16.7	157 E	62	47
1 12	5 47.72	+14 26.6	0.274	1.236	20.6	17.0	154 E	59	50
1 14	5 46.30	+11 53.9	0.291	1.245	22.8	17.2	151 E	57	52
1 16	5 45.28	+ 9 39.3	0.308	1.255	24.8	17.4	148 E	55	54

368282 2002 NH_7

4 21	19 57.81	−14 44.1	1.655	1.974	30.6	21.4	93 W	27*	79*
5 1	20 14.01	−13 16.7	1.521	1.938	31.0	21.2	98 W	29*	77
5 11	20 29.00	−11 43.3	1.392	1.903	31.0	20.9	104 W	31*	76
5 21	20 42.55	−10 6.0	1.269	1.870	30.7	20.7	110 W	33*	74
5 31	20 54.35	− 8 27.6	1.153	1.837	29.8	20.4	116 W	36*	72
6 10	21 4.11	− 6 51.4	1.046	1.806	28.3	20.1	122 W	38*	71
6 20	21 11.45	− 5 21.8	0.948	1.776	26.2	19.8	129 W	40	69
6 25	21 14.09	− 4 41.2	0.903	1.762	24.9	19.7	133 W	40	69
6 30	21 16.00	− 4 4.5	0.861	1.748	23.3	19.5	137 W	41	68
7 5	21 17.16	− 3 32.3	0.822	1.735	21.6	19.3	141 W	41	68
7 10	21 17.55	− 3 5.5	0.787	1.722	19.7	19.2	145 W	42	67
7 15	21 17.17	− 2 44.9	0.755	1.710	17.6	19.0	149 W	42	67
7 20	21 16.05	− 2 31.4	0.727	1.699	15.3	18.8	154 W	42	67
7 30	21 11.96	− 2 27.8	0.683	1.678	10.8	18.5	162 W	43	66
8 9	21 6.36	− 2 55.9	0.656	1.660	8.0	18.2	167 E	42	67
8 19	21 0.73	− 3 51.8	0.648	1.645	9.7	18.3	164 E	41	68
8 24	20 58.46	− 4 27.4	0.650	1.638	11.8	18.4	161 E	41	68
8 29	20 56.83	− 5 6.0	0.656	1.633	14.3	18.5	156 E	40	69
9 3	20 56.00	− 5 45.8	0.667	1.628	16.9	18.6	152 E	39	70
9 8	20 56.06	− 6 25.3	0.681	1.624	19.5	18.7	148 E	39	70
9 13	20 57.09	− 7 3.2	0.699	1.621	21.9	18.8	143 E	38	71
9 18	20 59.13	− 7 38.2	0.720	1.618	24.1	19.0	139 E	37	72

368282 2002 NH_7 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 23	21 2.20	− 8 9.3	0.745	1.617	26.1	19.1	135 E	37	72
9 28	21 6.25	− 8 35.6	0.772	1.617	27.9	19.2	131 E	36	73
10 8	21 17.06	− 9 11.8	0.834	1.618	30.9	19.5	124 E	36	73
10 18	21 30.97	− 9 24.7	0.906	1.624	33.1	19.7	117 E	36	73
10 28	21 47.38	− 9 13.8	0.985	1.632	34.6	20.0	111 E	36	73
11 7	22 5.66	− 8 40.2	1.072	1.644	35.5	20.2	106 E	36	73
11 17	22 25.27	− 7 46.2	1.166	1.659	35.9	20.4	100 E	37	72*
11 27	22 45.82	− 6 34.3	1.265	1.677	35.8	20.6	95 E	38	68*
12 7	23 6.94	− 5 7.5	1.370	1.698	35.5	20.8	91 E	40	64*
12 17	23 28.42	− 3 28.9	1.480	1.721	34.8	21.0	86 E	42	59*
12 27	23 50.11	− 1 41.4	1.594	1.747	33.8	21.1	82 E	43	54*
1 6	0 11.87	+ 0 12.2	1.711	1.775	32.7	21.3	77 E	45	49*
1 16	0 33.67	+ 2 9.1	1.831	1.805	31.4	21.4	73 E	47*	44*

469696 2005 CO_{62}

4 21	20 16.05	−45 35.9	2.611	2.878	20.4	21.5	95 W	—	70*
4 26	20 20.82	−45 46.4	2.532	2.860	20.4	21.4	99 W	—	70*
5 1	20 25.02	−45 58.6	2.453	2.842	20.3	21.3	102 W	—	70
5 6	20 28.59	−46 12.7	2.375	2.824	20.1	21.2	106 W	—	70
5 11	20 31.49	−46 28.6	2.299	2.806	19.8	21.1	110 W	—	70
5 16	20 33.64	−46 46.4	2.224	2.788	19.4	21.0	114 W	—	69
5 21	20 34.98	−47 5.8	2.151	2.769	18.9	20.9	118 W	—	69
5 26	20 35.43	−47 26.6	2.082	2.751	18.3	20.8	122 W	—	69
5 31	20 34.93	−47 48.4	2.015	2.732	17.6	20.7	126 W	—	68
6 5	20 33.43	−48 10.6	1.951	2.713	16.7	20.6	130 W	—	68
6 10	20 30.86	−48 32.3	1.891	2.694	15.8	20.5	134 W	—	67
6 15	20 27.19	−48 52.7	1.835	2.674	14.9	20.4	138 W	—	67
6 20	20 22.41	−49 10.5	1.784	2.655	13.8	20.3	141 W	—	67
6 25	20 16.55	−49 24.5	1.738	2.635	12.8	20.2	145 W	—	67
6 30	20 9.69	−49 33.0	1.697	2.615	11.9	20.1	148 W	—	66
7 5	20 1.99	−49 34.8	1.662	2.595	11.2	20.0	150 W	—	66
7 10	19 53.63	−49 28.6	1.634	2.575	10.7	19.9	152 W	—	67
7 15	19 44.84	−49 13.3	1.611	2.555	10.7	19.8	152 W	—	67
7 20	19 35.91	−48 48.4	1.594	2.534	11.0	19.8	152 E	—	67
7 25	19 27.14	−48 13.7	1.584	2.514	11.8	19.8	150 E	—	68
7 30	19 18.82	−47 29.5	1.580	2.493	12.9	19.8	147 E	—	69
8 4	19 11.21	−46 36.8	1.583	2.472	14.2	19.9	143 E	—	69
8 9	19 4.48	−45 36.7	1.590	2.451	15.6	19.9	139 E	—	70
8 14	18 58.77	−44 30.7	1.604	2.430	17.1	20.0	135 E	—	71
8 19	18 54.19	−43 20.0	1.622	2.409	18.5	20.0	131 E	2	73
8 24	18 50.76	−42 6.2	1.645	2.388	19.9	20.1	126 E	3	74
8 29	18 48.48	−40 50.6	1.672	2.367	21.2	20.1	122 E	4	75
9 3	18 47.31	−39 34.1	1.702	2.345	22.4	20.2	118 E	5	76
9 8	18 47.19	−38 17.6	1.735	2.324	23.5	20.2	113 E	7	78
9 13	18 48.05	−37 1.7	1.771	2.302	24.4	20.3	109 E	8	79
9 18	18 49.82	−35 46.8	1.808	2.281	25.2	20.3	105 E	9	80
9 23	18 52.44	−34 33.0	1.848	2.259	25.9	20.4	101 E	10	81
9 28	18 55.83	−33 20.5	1.888	2.238	26.4	20.4	97 E	12	83
10 3	18 59.91	−32 9.2	1.929	2.216	26.8	20.5	93 E	13	83*
10 8	19 4.62	−30 59.1	1.970	2.195	27.1	20.5	89 E	14*	82*
10 18	19 15.70	−28 41.3	2.053	2.152	27.3	20.5	82 E	16*	76*
10 28	19 28.67	−26 25.3	2.133	2.109	27.1	20.6	75 E	18*	69*
11 7	19 43.17	−24 8.9	2.209	2.067	26.5	20.6	69 E	20*	61*
11 17	19 58.92	−21 50.0	2.280	2.025	25.7	20.6	63 E	22*	54*
11 27	20 15.71	−19 26.8	2.344	1.985	24.6	20.6	57 E	24*	46*
12 7	20 33.34	−16 57.7	2.401	1.945	23.3	20.5	51 E	25*	39*
12 17	20 51.70	−14 21.4	2.450	1.906	21.9	20.5	46 E	26*	32*
12 27	21 10.67	−11 36.9	2.490	1.869	20.4	20.5	41 E	26*	25*
1 6	21 30.18	− 8 43.5	2.523	1.834	18.8	20.4	37 E	26*	19*
1 16	21 50.21	− 5 41.1	2.548	1.800	17.2	20.3	33 E	24*	13*

329342 2001 OL_{100}

4 21	20 32.10	−16 57.3	1.684	1.883	32.1	21.4	85 W	22*	77*
5 1	20 52.73	−15 52.6	1.557	1.849	33.0	21.2	90 W	23*	79*
5 11	21 12.80	−14 44.8	1.434	1.816	33.7	21.0	94 W	25*	79
5 21	21 32.20	−13 36.3	1.317	1.784	34.1	20.8	99 W	27*	78
5 31	21 50.74	−12 30.3	1.206	1.755	34.1	20.5	104 W	29*	77
6 10	22 8.24	−11 30.1	1.101	1.728	33.7	20.3	109 W	31*	76
6 20	22 24.43	−10 39.6	1.004	1.703	32.8	20.0	115 W	33*	75
6 30	22 38.96	−10 3.4	0.915	1.681	31.3	19.8	121 W	35*	74
7 10	22 51.43	− 9 45.7	0.835	1.662	29.1	19.5	127 W	35	74
7 20	23 1.36	− 9 50.6	0.765	1.646	26.0	19.2	135 W	35	74
7 30	23 8.26	−10 20.8	0.706	1.634	22.1	18.9	143 W	35	74
8 9	23 11.86	−11 15.3	0.660	1.625	17.3	18.6	152 W	34	75
8 14	23 12.40	−11 50.2	0.643	1.622	14.6	18.4	156 W	33	76
8 19	23 12.14	−12 28.8	0.629	1.620	11.8	18.3	161 W	33	76
8 24	23 11.19	−13 9.4	0.620	1.618	9.0	18.1	165 W	32	77
8 29	23 9.70	−13 49.9	0.615	1.618	6.6	18.0	169 W	31	78
9 3	23 7.84	−14 28.4	0.614	1.619	5.2	17.9	172 W	31	78
9 8	23 5.81	−15 3.0	0.618	1.620	5.8	18.0	171 E	30	79

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
329342 2001 OL_{100} *(continuation)*									
9 13	23 3.80	−15 31.9	0.626	1.623	7.9	18.1	167 E	29	80
9 18	23 2.03	−15 53.9	0.639	1.627	10.5	18.3	163 E	29	80
9 23	23 0.70	−16 7.8	0.656	1.631	13.3	18.4	158 E	29	80
9 28	22 59.97	−16 13.2	0.678	1.636	15.9	18.6	153 E	29	80
10 8	23 0.65	−15 58.3	0.732	1.650	20.7	18.9	144 E	29	80
10 18	23 4.45	−15 12.3	0.800	1.666	24.6	19.3	136 E	30	79
10 28	23 11.32	−13 59.9	0.880	1.686	27.6	19.6	128 E	31	78
11 2	23 15.78	−13 15.5	0.925	1.697	28.8	19.7	125 E	32	77
11 7	23 20.83	−12 26.6	0.971	1.709	29.8	19.9	121 E	33	76
11 12	23 26.43	−11 33.9	1.021	1.721	30.6	20.0	118 E	33	76
11 17	23 32.51	−10 37.7	1.072	1.734	31.3	20.2	114 E	34	75
11 27	23 45.94	− 8 37.1	1.182	1.762	32.1	20.5	108 E	36	73
12 7	0 0.69	− 6 28.5	1.299	1.791	32.5	20.7	102 E	39	70*
12 17	0 16.48	− 4 14.9	1.422	1.823	32.4	20.9	97 E	41	66*
12 27	0 33.08	− 1 58.6	1.551	1.857	32.0	21.2	91 E	43	61*
1 6	0 50.30	+ 0 18.0	1.684	1.891	31.2	21.4	86 E	45	55*
145857 1999 EY_2									
4 21	20 44.64	− 3 23.9	3.104	3.071	18.7	21.5	79 W	33*	64*
5 1	20 52.02	− 2 37.4	2.944	3.048	19.3	21.3	86 W	36*	66*
5 11	20 58.02	− 1 54.4	2.782	3.024	19.5	21.2	94 W	38*	66
5 21	21 2.44	− 1 17.1	2.620	2.999	19.3	21.1	102 W	41*	65
5 31	21 5.07	− 0 48.2	2.463	2.974	18.6	20.9	110 W	43*	65
6 10	21 5.69	− 0 30.6	2.313	2.947	17.5	20.7	119 W	44*	65
6 20	21 4.13	− 0 27.3	2.173	2.919	15.8	20.5	129 W	45	64
6 30	21 0.30	− 0 41.8	2.049	2.890	13.5	20.2	139 W	44	65
7 10	20 54.29	− 1 16.4	1.944	2.860	10.7	20.0	149 W	44	65
7 20	20 46.38	− 2 12.6	1.861	2.830	7.7	19.8	158 W	43	66
7 30	20 37.18	− 3 29.5	1.805	2.798	5.4	19.6	165 E	42	67
8 9	20 27.52	− 5 3.3	1.777	2.765	5.8	19.5	164 E	40	69
8 14	20 22.82	− 5 54.7	1.773	2.748	7.1	19.6	160 E	39	70
8 19	20 18.37	− 6 48.0	1.777	2.732	8.7	19.6	156 E	38	71
8 24	20 14.28	− 7 42.3	1.787	2.714	10.5	19.7	151 E	37	72
8 29	20 10.67	− 8 36.7	1.803	2.697	12.3	19.8	145 E	36	73
9 3	20 7.62	− 9 30.3	1.826	2.679	14.0	19.8	140 E	35	74
9 8	20 5.18	−10 22.4	1.853	2.661	15.6	19.9	135 E	35	74
9 18	20 2.34	−12 0.1	1.922	2.625	18.4	20.1	125 E	33	76
9 28	20 2.35	−13 26.3	2.004	2.588	20.6	20.2	115 E	32	77
10 8	20 5.17	−14 39.0	2.096	2.550	22.2	20.3	105 E	30	79
10 18	20 10.62	−15 37.6	2.193	2.511	23.2	20.4	97 E	29	79*
10 28	20 18.49	−16 21.8	2.291	2.471	23.7	20.5	88 E	29	76*
11 7	20 28.48	−16 51.9	2.388	2.431	23.7	20.5	81 E	28	69*
11 17	20 40.34	−17 8.1	2.480	2.389	23.3	20.6	73 E	28*	61*
11 27	20 53.83	−17 10.9	2.566	2.348	22.6	20.6	66 E	28*	54*
12 7	21 8.70	−17 0.7	2.643	2.305	21.6	20.6	59 E	27*	47*
12 17	21 24.79	−16 38.0	2.712	2.262	20.4	20.5	53 E	26*	40*
12 27	21 41.91	−16 3.4	2.769	2.219	18.9	20.5	47 E	25*	33*
1 6	21 59.94	−15 17.4	2.816	2.175	17.3	20.4	41 E	23*	28*
1 16	22 18.76	−14 20.7	2.851	2.131	15.6	20.4	36 E	20*	23*
167671 2004 FR_4									
4 21	20 52.72	−43 30.6	1.696	1.943	31.1	21.4	88 W	—	69*
5 1	21 10.35	−43 17.6	1.591	1.939	31.2	21.3	94 W	—	71*
5 11	21 25.32	−43 10.2	1.486	1.934	31.0	21.1	100 W	—	73*
5 21	21 37.18	−43 11.5	1.382	1.928	30.3	20.9	106 W	—	73
5 31	21 45.28	−43 23.2	1.281	1.921	29.0	20.7	113 W	—	73
6 10	21 48.87	−43 45.3	1.184	1.913	27.2	20.5	121 W	—	72
6 15	21 48.70	−43 59.5	1.138	1.908	26.0	20.4	125 W	1*	72
6 20	21 47.03	−44 14.9	1.095	1.904	24.6	20.2	129 W	1*	72
6 25	21 43.77	−44 30.3	1.054	1.899	23.1	20.1	133 W	—	71
6 30	21 38.84	−44 43.9	1.017	1.893	21.4	20.0	137 W	—	71
7 5	21 32.22	−44 53.6	0.983	1.888	19.6	19.8	142 W	—	71
7 10	21 23.96	−44 57.1	0.953	1.882	17.8	19.7	146 W	—	71
7 15	21 14.19	−44 51.6	0.928	1.876	16.0	19.6	149 W	—	71
7 20	21 3.18	−44 34.5	0.908	1.870	14.5	19.5	153 W	—	71
7 25	20 51.34	−44 3.6	0.894	1.863	13.5	19.4	155 W	1	72
7 30	20 39.17	−43 17.5	0.885	1.856	13.2	19.4	155 W	2	73
8 4	20 27.20	−42 16.3	0.883	1.850	13.8	19.4	154 E	3	74
8 9	20 15.92	−41 1.1	0.886	1.842	15.1	19.4	152 E	4	75
8 14	20 5.72	−39 33.9	0.895	1.835	17.0	19.5	148 E	5	76
8 19	19 56.92	−37 57.6	0.910	1.827	19.1	19.6	144 E	7	78
8 24	19 49.70	−36 15.1	0.930	1.819	21.3	19.7	139 E	9	80
8 29	19 44.13	−34 29.2	0.955	1.811	23.4	19.8	134 E	11	82
9 3	19 40.16	−32 42.6	0.983	1.803	25.5	19.9	130 E	12	83
9 8	19 37.72	−30 56.9	1.016	1.795	27.4	20.0	125 E	14	85
9 13	19 36.69	−29 13.6	1.052	1.786	29.1	20.1	120 E	16	87
9 18	19 36.95	−27 33.3	1.090	1.778	30.5	20.3	116 E	17	88
9 23	19 38.39	−25 56.4	1.130	1.769	31.8	20.4	112 E	19	90

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
167671 2004 FR_4 *(continuation)*									
9 28	19 40.86	−24 23.1	1.172	1.760	32.8	20.5	108 E	21	88
10 3	19 44.25	−22 53.1	1.216	1.750	33.7	20.5	104 E	22	87
10 8	19 48.45	−21 26.1	1.260	1.741	34.4	20.6	100 E	24	85
10 13	19 53.37	−20 1.7	1.304	1.732	34.9	20.7	97 E	25	84*
10 18	19 58.94	−18 39.6	1.349	1.722	35.3	20.8	93 E	26	81*
10 23	20 5.09	−17 19.1	1.394	1.713	35.5	20.8	90 E	28	78*
10 28	20 11.75	−16 0.0	1.439	1.703	35.6	20.9	87 E	29	74*
11 2	20 18.86	−14 41.7	1.483	1.693	35.6	21.0	84 E	30	70*
11 7	20 26.37	−13 23.9	1.526	1.683	35.5	21.0	81 E	32	67*
11 12	20 34.25	−12 6.2	1.568	1.674	35.4	21.0	78 E	33	63*
11 17	20 42.47	−10 48.3	1.610	1.664	35.1	21.1	75 E	34*	59*
11 22	20 51.01	− 9 29.8	1.650	1.654	34.8	21.1	73 E	35*	55*
11 27	20 59.82	− 8 10.7	1.688	1.644	34.4	21.1	70 E	37*	51*
12 2	21 8.89	− 6 50.5	1.726	1.634	34.0	21.2	68 E	38*	47*
12 7	21 18.20	− 5 29.3	1.762	1.624	33.5	21.2	66 E	39*	44*
12 12	21 27.74	− 4 6.7	1.796	1.615	33.0	21.2	63 E	40*	40*
12 17	21 37.51	− 2 42.8	1.829	1.605	32.5	21.2	61 E	41*	37*
12 22	21 47.49	− 1 17.4	1.860	1.595	31.9	21.2	59 E	41*	33*
12 27	21 57.69	+ 0 9.5	1.890	1.586	31.3	21.2	57 E	42*	30*
1 1	22 8.09	+ 1 38.0	1.918	1.577	30.8	21.2	55 E	42*	27*
1 6	22 18.70	+ 3 7.9	1.944	1.567	30.2	21.2	53 E	42*	24*
1 11	22 29.53	+ 4 39.2	1.969	1.558	29.6	21.2	51 E	41*	21*
1 16	22 40.58	+ 6 11.9	1.992	1.550	29.0	21.2	50 E	41*	19*
301910 1998 YM_8									
4 21	21 2.01	−39 52.6	3.349	3.416	17.0	21.5	85 W	—	70*
5 1	21 9.72	−39 56.4	3.185	3.389	17.3	21.4	93 W	—	74*
5 11	21 15.62	−40 8.6	3.021	3.360	17.2	21.2	101 W	1*	76
5 21	21 19.43	−40 29.5	2.862	3.331	16.7	21.1	109 W	2*	76
5 31	21 20.80	−40 58.8	2.709	3.300	15.8	20.9	117 W	3*	75
6 10	21 19.43	−41 35.0	2.568	3.269	14.5	20.7	126 W	3*	74
6 20	21 15.02	−42 14.8	2.441	3.238	12.9	20.5	135 W	3	74
6 30	21 7.45	−42 53.1	2.333	3.205	11.0	20.4	143 W	2	73
7 5	21 2.52	−43 9.7	2.287	3.188	10.0	20.3	147 W	2	73
7 10	20 56.89	−43 23.2	2.247	3.172	9.1	20.2	151 W	2	73
7 15	20 50.66	−43 32.8	2.213	3.155	8.3	20.1	153 W	1	72
7 20	20 43.93	−43 37.5	2.186	3.137	7.8	20.0	155 W	1	72
7 25	20 36.86	−43 36.6	2.166	3.120	7.7	20.0	156 W	1	72
7 30	20 29.62	−43 29.6	2.153	3.102	8.0	20.0	155 E	2	73
8 4	20 22.39	−43 16.0	2.146	3.085	8.6	20.0	153 E	2	73
8 9	20 15.35	−42 56.0	2.147	3.067	9.5	20.0	150 E	2	73
8 14	20 8.67	−42 29.8	2.153	3.048	10.6	20.1	146 E	3	74
8 19	20 2.50	−41 57.7	2.167	3.030	11.8	20.1	142 E	3	74
8 24	19 56.98	−41 20.6	2.186	3.011	13.1	20.2	138 E	4	75
8 29	19 52.20	−40 39.0	2.210	2.993	14.3	20.2	133 E	4	75
9 3	19 48.22	−39 53.8	2.240	2.974	15.4	20.3	128 E	5	76
9 8	19 45.08	−39 5.9	2.274	2.954	16.5	20.3	124 E	6	77
9 18	19 41.30	−37 24.2	2.353	2.916	18.3	20.4	114 E	8	79
9 28	19 40.76	−35 38.6	2.443	2.876	19.6	20.5	105 E	9	80
10 8	19 43.14	−33 51.8	2.540	2.836	20.5	20.6	97 E	11	82
10 18	19 48.07	−32 5.1	2.641	2.795	20.9	20.7	88 E	13	81*
10 28	19 55.18	−30 18.8	2.740	2.753	20.8	20.7	80 E	15	74*
11 7	20 4.11	−28 32.3	2.836	2.711	20.4	20.7	73 E	16*	66*
11 17	20 14.55	−26 44.8	2.926	2.668	19.7	20.8	65 E	18*	58*
11 27	20 26.24	−24 55.3	3.008	2.624	18.6	20.7	58 E	19*	50*
12 7	20 38.96	−23 2.7	3.080	2.580	17.3	20.7	51 E	20*	42*
12 17	20 52.53	−21 6.1	3.141	2.536	15.8	20.7	45 E	20*	34*
12 27	21 6.79	−19 4.7	3.189	2.491	14.1	20.6	38 E	19*	27*
1 6	21 21.60	−16 57.7	3.224	2.446	12.3	20.5	32 E	17*	20*
1 16	21 36.90	−14 44.6	3.246	2.400	10.3	20.4	26 E	15*	14*
349366 2007 VB_{227}									
4 21	21 3.38	−19 58.9	1.983	2.038	28.9	21.4	79 W	16*	73*
5 1	21 22.50	−19 20.4	1.846	2.006	30.0	21.2	84 W	17*	77*
5 11	21 41.10	−18 44.0	1.712	1.975	30.8	21.1	89 W	18*	81*
5 21	21 59.07	−18 12.0	1.580	1.943	31.3	20.9	95 W	20*	82
5 31	22 16.25	−17 47.7	1.453	1.913	31.5	20.7	100 W	21*	82
6 10	22 32.51	−17 34.0	1.331	1.882	31.2	20.4	106 W	23*	82
6 20	22 47.59	−17 34.6	1.215	1.853	30.6	20.2	112 W	25*	82
6 30	23 1.18	−17 53.3	1.107	1.824	29.4	19.9	118 W	26*	82
7 10	23 12.89	−18 33.2	1.008	1.797	27.6	19.6	125 W	26*	83
7 20	23 22.23	−19 36.8	0.920	1.771	25.1	19.3	132 W	25	84
7 30	23 28.64	−21 4.1	0.844	1.747	22.0	19.0	140 W	24	85
8 4	23 30.60	−21 55.5	0.811	1.735	20.3	18.8	144 W	23	86
8 9	23 31.66	−22 50.8	0.781	1.724	18.5	18.7	147 W	22	87
8 14	23 31.80	−23 48.6	0.756	1.714	16.7	18.6	151 W	21	88
8 19	23 31.01	−24 47.1	0.735	1.703	15.0	18.4	154 W	20	89
8 24	23 29.34	−25 44.0	0.718	1.694	13.7	18.3	157 W	19	90
8 29	23 26.92	−26 36.7	0.705	1.685	12.9	18.2	158 W	18	89
9 3	23 23.89	−27 22.9	0.697	1.677	12.7	18.2	158 W	18	89

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
349366 2007 VB_{227} *(continuation)*									
9 8	23 20.45	−28 0.2	0.693	1.669	13.4	18.2	157 W	17	88
9 13	23 16.82	−28 26.7	0.693	1.662	14.7	18.2	155 E	17	88
9 18	23 13.25	−28 41.1	0.698	1.655	16.4	18.3	152 E	16	87
9 23	23 10.02	−28 42.4	0.707	1.649	18.4	18.4	149 E	16	87
9 28	23 7.35	−28 30.6	0.719	1.644	20.4	18.5	145 E	16	87
10 3	23 5.42	−28 6.3	0.735	1.640	22.5	18.6	141 E	17	88
10 8	23 4.34	−27 30.3	0.755	1.636	24.5	18.7	137 E	17	88
10 13	23 4.20	−26 43.6	0.777	1.633	26.3	18.8	133 E	18	89
10 18	23 5.02	−25 47.5	0.802	1.630	28.0	18.9	130 E	19	90
10 23	23 6.82	−24 43.0	0.830	1.629	29.6	19.0	126 E	20	89
10 28	23 9.55	−23 31.5	0.860	1.628	30.9	19.2	123 E	21	88
11 2	23 13.15	−22 14.1	0.893	1.628	32.1	19.3	119 E	23	86
11 7	23 17.54	−20 51.6	0.927	1.629	33.1	19.4	116 E	24	85
11 12	23 22.65	−19 25.1	0.963	1.630	33.9	19.5	113 E	26	83
11 17	23 28.43	−17 55.0	1.001	1.632	34.6	19.6	110 E	27	82
11 22	23 34.80	−16 22.2	1.041	1.635	35.2	19.7	107 E	29	80
11 27	23 41.69	−14 47.2	1.083	1.639	35.6	19.8	105 E	30	79
12 2	23 49.04	−13 10.6	1.125	1.643	35.9	19.9	102 E	32	77
12 7	23 56.79	−11 32.8	1.170	1.648	36.1	20.0	99 E	33	75*
12 17	0 13.35	− 8 15.4	1.262	1.660	36.2	20.2	94 E	37	69*
12 27	0 31.08	− 4 57.7	1.360	1.675	36.0	20.4	90 E	40	63*
1 6	0 49.75	− 1 42.6	1.461	1.692	35.4	20.5	85 E	43	57*
1 16	1 9.20	+ 1 27.9	1.567	1.711	34.6	20.7	81 E	46	51*
380729 2005 RX_{30}									
4 21	21 14.80	−14 53.3	2.400	2.341	24.4	21.5	75 W	20*	68*
5 1	21 29.11	−13 19.1	2.246	2.304	25.5	21.3	80 W	22*	72*
5 11	21 42.53	−11 41.3	2.091	2.267	26.4	21.2	87 W	25*	75*
5 21	21 54.90	−10 1.0	1.938	2.229	27.0	21.0	93 W	28*	74
5 31	22 6.04	− 8 19.1	1.788	2.191	27.2	20.8	99 W	31*	72
6 10	22 15.72	− 6 36.8	1.642	2.153	27.0	20.6	106 W	35*	71
6 20	22 23.68	− 4 55.6	1.502	2.115	26.3	20.3	113 W	39*	69
6 30	22 29.55	− 3 17.4	1.370	2.078	25.0	20.0	120 W	42*	67
7 10	22 32.98	− 1 44.4	1.247	2.040	23.0	19.7	128 W	43	66
7 20	22 33.59	− 0 19.6	1.137	2.004	20.3	19.4	137 W	45	64
7 30	22 31.10	+ 0 53.3	1.042	1.967	16.8	19.1	146 W	46	63
8 9	22 25.53	+ 1 50.2	0.964	1.932	12.6	18.7	155 W	47	62
8 19	22 17.31	+ 2 27.4	0.905	1.898	8.6	18.4	164 W	47	62
8 29	22 7.52	+ 2 42.9	0.867	1.864	7.2	18.2	167 E	48	61
9 8	21 57.77	+ 2 38.6	0.851	1.833	10.4	18.2	161 E	48	61
9 13	21 53.45	+ 2 30.7	0.850	1.817	12.8	18.3	156 E	48	61
9 18	21 49.78	+ 2 20.0	0.854	1.802	15.4	18.4	151 E	47	62
9 23	21 46.92	+ 2 7.9	0.863	1.788	18.0	18.5	147 E	47	62
9 28	21 45.02	+ 1 55.3	0.876	1.774	20.5	18.6	142 E	47	62
10 3	21 44.14	+ 1 43.4	0.892	1.761	22.9	18.7	137 E	47	62
10 8	21 44.33	+ 1 33.0	0.912	1.748	25.0	18.8	132 E	47	62
10 13	21 45.58	+ 1 24.9	0.934	1.736	27.0	18.9	128 E	46	63
10 18	21 47.90	+ 1 19.8	0.959	1.724	28.7	19.0	124 E	46	63
10 28	21 55.56	+ 1 20.4	1.014	1.703	31.6	19.1	116 E	46	63
11 7	22 6.83	+ 1 37.4	1.076	1.685	33.8	19.3	109 E	47	62
11 17	22 21.18	+ 2 11.5	1.143	1.669	35.3	19.5	103 E	47	62*
11 27	22 38.12	+ 3 2.8	1.213	1.657	36.2	19.6	97 E	48	59*
12 7	22 57.15	+ 4 9.9	1.286	1.648	36.7	19.7	92 E	49	55*
12 17	23 17.89	+ 5 30.9	1.362	1.643	36.7	19.8	87 E	51	50*
12 27	23 40.03	+ 7 3.6	1.441	1.641	36.5	20.0	83 E	52	46*
1 6	0 3.27	+ 8 45.0	1.522	1.643	35.9	20.1	79 E	54*	41*
1 16	0 27.43	+10 32.2	1.605	1.648	35.2	20.2	75 E	55*	37*
310458 2000 QA_{180}									
4 21	21 15.77	−39 0.5	2.860	2.904	20.1	21.5	82 W	—	68*
5 1	21 26.64	−39 7.6	2.721	2.894	20.4	21.4	90 W	—	73*
5 11	21 35.74	−39 24.6	2.582	2.883	20.4	21.3	97 W	—	76*
5 21	21 42.78	−39 52.9	2.445	2.870	20.0	21.1	104 W	1*	76
5 31	21 47.38	−40 33.2	2.314	2.857	19.2	21.0	112 W	2*	75
6 10	21 49.17	−41 24.8	2.190	2.843	17.9	20.8	120 W	3*	75
6 20	21 47.71	−42 25.6	2.078	2.827	16.3	20.6	129 W	2*	74
6 30	21 42.64	−43 30.8	1.982	2.811	14.3	20.4	137 W	1	72
7 5	21 38.71	−44 2.7	1.940	2.802	13.3	20.3	141 W	1	72
7 10	21 33.86	−44 32.8	1.904	2.794	12.3	20.3	144 W	—	71
7 15	21 28.14	−44 59.6	1.873	2.784	11.3	20.2	147 W	—	71
7 20	21 21.64	−45 21.9	1.849	2.775	10.6	20.1	150 W	—	71
7 25	21 14.50	−45 38.5	1.830	2.766	10.1	20.1	152 W	—	70
7 30	21 6.91	−45 48.0	1.818	2.756	9.9	20.0	152 W	—	70
8 4	20 59.07	−45 49.9	1.812	2.746	10.2	20.0	151 W	—	70
8 9	20 51.20	−45 43.6	1.812	2.735	10.8	20.1	150 E	—	70
8 14	20 43.54	−45 29.0	1.819	2.725	11.7	20.1	147 E	—	71
8 19	20 36.29	−45 6.3	1.831	2.714	12.7	20.1	144 E	—	71
8 24	20 29.67	−44 36.1	1.850	2.703	13.9	20.2	140 E	—	71
8 29	20 23.82	−43 59.2	1.874	2.692	15.2	20.3	136 E	1	72

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
310458 2000 QA_{180} *(continuation)*									
9 3	20 18.85	−43 16.7	1.903	2.680	16.4	20.3	132 E	2	73
9 8	20 14.81	−42 29.4	1.936	2.668	17.5	20.4	127 E	3	74
9 13	20 11.75	−41 38.4	1.974	2.656	18.6	20.5	123 E	3	74
9 18	20 9.65	−40 44.6	2.015	2.644	19.5	20.5	118 E	4	75
9 23	20 8.50	−39 48.7	2.059	2.632	20.4	20.6	114 E	5	76
9 28	20 8.26	−38 51.3	2.106	2.619	21.1	20.6	110 E	6	77
10 3	20 8.87	−37 52.9	2.154	2.606	21.7	20.7	105 E	7	78
10 8	20 10.25	−36 54.0	2.205	2.593	22.2	20.8	101 E	8	79
10 13	20 12.37	−35 54.7	2.256	2.579	22.6	20.8	97 E	9	80
10 18	20 15.15	−34 55.2	2.309	2.566	22.8	20.9	93 E	10	81*
10 23	20 18.54	−33 55.5	2.361	2.552	22.9	20.9	89 E	11	81*
10 28	20 22.49	−32 55.8	2.414	2.538	23.0	20.9	86 E	12	79*
11 2	20 26.93	−31 55.9	2.466	2.523	22.9	21.0	82 E	13	76*
11 7	20 31.81	−30 55.9	2.518	2.509	22.7	21.0	78 E	14	72*
11 12	20 37.10	−29 55.6	2.569	2.494	22.5	21.0	75 E	15	68*
11 17	20 42.76	−28 54.9	2.619	2.479	22.2	21.0	71 E	16*	64*
11 22	20 48.74	−27 53.8	2.667	2.464	21.7	21.0	68 E	17*	61*
11 27	20 55.01	−26 52.2	2.713	2.449	21.3	21.1	64 E	18*	57*
12 2	21 1.54	−25 49.9	2.757	2.433	20.7	21.1	61 E	19*	53*
12 7	21 8.31	−24 46.8	2.800	2.417	20.1	21.1	57 E	19*	49*
12 12	21 15.28	−23 43.0	2.840	2.401	19.4	21.1	54 E	20*	45*
12 17	21 22.44	−22 38.2	2.878	2.385	18.7	21.0	51 E	20*	41*
12 22	21 29.77	−21 32.4	2.913	2.369	18.0	21.0	48 E	20*	37*
12 27	21 37.25	−20 25.6	2.945	2.352	17.1	21.0	45 E	20*	34*
1 1	21 44.86	−19 17.6	2.975	2.336	16.3	21.0	42 E	20*	31*
1 6	21 52.59	−18 8.6	3.002	2.319	15.4	21.0	39 E	20*	27*
1 11	22 0.44	−16 58.3	3.026	2.302	14.5	20.9	36 E	19*	24*
1 16	22 8.38	−15 46.8	3.047	2.285	13.5	20.9	33 E	18*	21*
238453 2004 QF									
4 21	21 20.40	+26 6.6	2.015	1.849	29.8	21.4	66 W	51*	34*
5 1	21 39.77	+28 17.0	1.943	1.833	30.8	21.4	69 W	53*	34*
5 11	21 58.34	+30 23.0	1.865	1.815	31.8	21.3	71 W	56*	33*
5 21	22 16.06	+32 22.9	1.782	1.798	32.8	21.2	74 W	58*	32*
5 31	22 32.81	+34 14.3	1.692	1.779	33.8	21.1	78 W	62*	30
6 10	22 48.44	+35 54.4	1.596	1.761	34.8	21.0	81 W	66*	28
6 20	23 2.78	+37 20.6	1.494	1.742	35.6	20.8	86 W	71*	27
6 30	23 15.51	+38 28.3	1.386	1.722	36.2	20.7	90 W	77*	26
7 10	23 26.32	+39 11.7	1.272	1.703	36.5	20.5	96 W	82*	25
7 15	23 30.86	+39 22.0	1.214	1.693	36.4	20.3	98 W	84*	25
7 20	23 34.74	+39 22.8	1.155	1.684	36.3	20.2	102 W	84	25
7 25	23 37.86	+39 12.4	1.095	1.674	35.9	20.1	105 W	84	25
7 30	23 40.19	+38 48.5	1.035	1.664	35.3	19.9	109 W	84	25
8 4	23 41.64	+38 8.6	0.976	1.655	34.5	19.8	112 W	83	26
8 9	23 42.17	+37 9.5	0.917	1.646	33.4	19.6	117 W	82	27
8 14	23 41.71	+35 47.5	0.860	1.636	31.8	19.4	122 W	81	28
8 19	23 40.23	+33 57.7	0.804	1.627	29.9	19.2	127 W	79	30
8 24	23 37.76	+31 35.2	0.752	1.618	27.4	18.9	133 W	77	32
8 29	23 34.38	+28 34.8	0.704	1.609	24.3	18.7	139 W	74	35
9 3	23 30.21	+24 52.3	0.661	1.600	20.6	18.4	146 W	70	39
9 8	23 25.43	+20 25.4	0.625	1.591	16.4	18.2	153 W	65	44
9 13	23 20.27	+15 15.8	0.598	1.583	12.0	17.9	161 E	60	49
9 18	23 15.02	+ 9 30.8	0.580	1.575	8.4	17.7	167 E	55	54
9 20	23 12.97	+ 7 5.8	0.576	1.572	7.8	17.6	168 E	52	57
9 22	23 10.96	+ 4 38.4	0.573	1.568	8.0	17.6	167 E	50	59
9 24	23 9.04	+ 2 9.7	0.573	1.565	8.8	17.7	166 E	47	62
9 26	23 7.21	− 0 18.9	0.574	1.562	10.3	17.7	164 E	45	64
9 28	23 5.49	− 2 46.3	0.577	1.559	12.0	17.8	161 E	42	67
9 30	23 3.89	− 5 11.3	0.582	1.556	13.9	17.9	158 E	40	69
10 2	23 2.42	− 7 33.0	0.588	1.553	15.9	18.0	155 E	37	72
10 4	23 1.11	− 9 50.3	0.596	1.550	17.9	18.1	152 E	35	74
10 6	22 59.95	−12 2.6	0.605	1.547	19.9	18.2	148 E	33	76
10 8	22 58.97	−14 9.2	0.616	1.545	21.8	18.2	145 E	31	78
10 13	22 57.27	−18 58.4	0.648	1.538	26.2	18.5	137 E	26	83
10 18	22 56.75	−23 6.7	0.688	1.531	29.9	18.7	130 E	22	87
10 23	22 57.45	−26 34.9	0.732	1.525	33.0	18.9	123 E	18	89
10 28	22 59.32	−29 26.7	0.780	1.519	35.5	19.1	117 E	16	87
11 2	23 2.32	−31 46.3	0.830	1.514	37.4	19.3	112 E	13	84
11 7	23 6.37	−33 38.2	0.882	1.509	38.9	19.5	107 E	11	82
11 12	23 11.37	−35 6.4	0.935	1.504	39.9	19.6	103 E	10	81
11 17	23 17.26	−36 14.4	0.988	1.500	40.6	19.8	99 E	9	80
11 22	23 23.97	−37 5.1	1.040	1.497	41.1	19.9	95 E	8	79
11 27	23 31.39	−37 41.0	1.091	1.493	41.3	20.0	92 E	7	78
12 2	23 39.46	−38 4.2	1.141	1.491	41.4	20.1	89 E	7	78*
12 7	23 48.09	−38 16.2	1.189	1.488	41.3	20.2	86 E	7	77*
12 12	23 57.24	−38 18.4	1.235	1.487	41.1	20.2	83 E	7	75*
12 17	0 6.86	−38 11.7	1.279	1.485	40.9	20.3	81 E	7	74*
12 22	0 16.90	−37 57.1	1.321	1.484	40.5	20.4	79 E	7	72*
12 27	0 27.32	−37 35.3	1.360	1.484	40.2	20.4	77 E	7	70*
1 1	0 38.09	−37 7.0	1.397	1.484	39.8	20.5	75 E	8	69*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
238453 2004 *QF* *(continuation)*									
1 6	0 49.17	−36 32.7	1.431	1.485	39.4	20.5	73 E	8	67*
1 11	1 0.54	−35 52.6	1.463	1.486	38.9	20.5	72 E	9	66*
1 16	1 12.19	−35 7.2	1.493	1.488	38.5	20.6	70 E	10	64*
368531 2003 WN_{82}									
4 21	21 23.61	− 5 8.8	1.921	1.834	30.9	21.4	70 W	27*	60*
5 1	21 45.93	− 3 2.4	1.791	1.787	32.7	21.2	73 W	29*	62*
5 11	22 8.57	− 0 48.3	1.665	1.740	34.4	21.0	77 W	31*	62*
5 21	22 31.63	+ 1 31.9	1.543	1.694	36.1	20.9	80 W	33*	62*
5 31	22 55.21	+ 3 55.9	1.426	1.650	37.6	20.7	83 W	36*	60*
6 10	23 19.45	+ 6 20.8	1.316	1.607	39.1	20.5	86 W	40*	58
6 20	23 44.49	+ 8 43.3	1.212	1.567	40.4	20.3	89 W	43*	55
6 25	23 57.33	+ 9 52.3	1.162	1.548	41.1	20.2	90 W	46*	54
6 30	0 10.40	+10 58.9	1.115	1.529	41.6	20.1	92 W	48*	53
7 5	0 23.71	+12 2.5	1.069	1.512	42.2	20.0	93 W	50*	52
7 10	0 37.26	+13 2.5	1.025	1.495	42.7	19.9	94 W	52*	51
7 15	0 51.05	+13 58.0	0.983	1.479	43.2	19.8	95 W	54*	50
7 20	1 5.05	+14 48.2	0.942	1.465	43.6	19.7	97 W	56*	49
7 25	1 19.23	+15 32.2	0.904	1.451	43.9	19.6	98 W	58*	48
7 30	1 33.56	+16 9.2	0.867	1.438	44.1	19.5	99 W	59*	48
8 4	1 48.00	+16 38.3	0.832	1.427	44.3	19.4	101 W	60*	47
8 9	2 2.47	+16 58.8	0.799	1.417	44.4	19.3	102 W	61*	47
8 14	2 16.91	+17 9.9	0.768	1.408	44.3	19.2	104 W	62*	47
8 19	2 31.19	+17 11.0	0.738	1.401	44.2	19.1	105 W	62*	47
8 24	2 45.22	+17 1.4	0.711	1.395	43.9	19.0	107 W	62	47
8 29	2 58.87	+16 40.8	0.685	1.390	43.5	18.9	109 W	62	47
9 3	3 12.03	+16 9.2	0.661	1.387	42.9	18.8	111 W	61	48
9 8	3 24.57	+15 26.6	0.638	1.386	42.1	18.7	113 W	60	49
9 18	3 47.17	+13 29.4	0.599	1.387	40.0	18.5	117 W	58	51
9 28	4 5.57	+10 54.7	0.567	1.394	37.1	18.3	123 W	56	53
10 8	4 18.96	+ 7 52.6	0.543	1.407	33.3	18.1	129 W	53	56
10 13	4 23.56	+ 6 15.7	0.534	1.416	31.2	18.0	133 W	51	58
10 18	4 26.71	+ 4 37.7	0.528	1.425	28.8	17.9	136 W	50	59
10 23	4 28.43	+ 3 1.4	0.524	1.437	26.4	17.9	140 W	48	61
10 28	4 28.82	+ 1 29.5	0.523	1.449	23.9	17.8	144 W	46	63
11 2	4 27.98	+ 0 4.9	0.526	1.462	21.6	17.8	147 W	45	64
11 7	4 26.10	− 1 10.0	0.532	1.477	19.4	17.8	150 W	44	65
11 12	4 23.39	− 2 12.9	0.541	1.493	17.5	17.8	153 W	43	66
11 17	4 20.10	− 3 2.0	0.555	1.509	16.2	17.8	155 W	42	67
11 22	4 16.54	− 3 36.2	0.572	1.527	15.6	17.9	155 W	41	68
11 27	4 12.99	− 3 55.1	0.593	1.545	15.7	18.0	155 W	41	68
12 2	4 9.71	− 3 59.4	0.619	1.564	16.4	18.1	153 E	41	68
12 7	4 6.89	− 3 50.1	0.648	1.584	17.5	18.3	151 E	41	68
12 12	4 4.70	− 3 28.8	0.681	1.604	18.9	18.5	148 E	42	67
12 17	4 3.26	− 2 57.0	0.718	1.625	20.4	18.6	145 E	42	67
12 22	4 2.64	− 2 16.6	0.759	1.646	21.9	18.8	141 E	43	66
12 27	4 2.87	− 1 29.5	0.804	1.668	23.4	19.0	138 E	44	65
1 1	4 3.95	− 0 37.3	0.852	1.691	24.7	19.2	134 E	44	65
1 6	4 5.83	+ 0 18.4	0.903	1.713	25.9	19.4	131 E	45	64
1 11	4 8.48	+ 1 16.5	0.957	1.736	26.9	19.6	127 E	46	63
1 16	4 11.85	+ 2 15.8	1.014	1.759	27.8	19.8	123 E	47	62
261934 2006 MK_8									
4 21	22 0.90	−15 39.0	2.219	1.999	26.9	21.4	64 W	13*	58*
5 1	22 22.73	−15 5.0	2.085	1.962	28.6	21.3	69 W	14*	63*
5 11	22 44.80	−14 34.2	1.952	1.925	30.2	21.2	73 W	14*	67*
5 21	23 7.16	−14 8.8	1.821	1.889	31.6	21.0	78 W	15*	71*
5 31	23 29.81	−13 51.3	1.693	1.853	32.8	20.9	82 W	17*	74*
6 10	23 52.79	−13 44.4	1.570	1.818	33.9	20.7	87 W	18*	77*
6 20	0 16.07	−13 50.9	1.453	1.785	34.7	20.5	91 W	20*	78*
6 30	0 39.57	−14 13.8	1.344	1.753	35.3	20.3	95 W	22*	78
7 10	1 3.18	−14 55.6	1.242	1.722	35.7	20.1	99 W	24*	79
7 20	1 26.66	−15 58.5	1.149	1.693	35.8	19.9	103 W	25*	80
7 30	1 49.67	−17 23.8	1.066	1.667	35.7	19.7	106 W	26*	81
8 4	2 0.86	−18 14.7	1.027	1.655	35.6	19.6	108 W	26*	82
8 9	2 11.76	−19 10.9	0.992	1.643	35.4	19.5	110 W	25*	83
8 14	2 22.30	−20 12.1	0.959	1.632	35.2	19.4	112 W	25*	84
8 19	2 32.37	−21 17.9	0.928	1.622	35.0	19.3	113 W	24*	85
8 24	2 41.87	−22 27.6	0.900	1.612	34.7	19.2	115 W	23	86
8 29	2 50.73	−23 40.2	0.874	1.603	34.3	19.2	117 W	21	88
9 3	2 58.85	−24 54.8	0.850	1.595	33.9	19.1	118 W	20	89
9 8	3 6.13	−26 10.3	0.828	1.588	33.5	19.0	119 W	19	90
9 13	3 12.44	−27 25.5	0.809	1.582	33.1	18.9	121 W	18	89
9 18	3 17.69	−28 38.8	0.792	1.577	32.6	18.9	122 W	16	87
9 23	3 21.79	−29 48.4	0.776	1.572	32.1	18.8	124 W	15	86
9 28	3 24.68	−30 52.4	0.763	1.569	31.6	18.7	125 W	14	85
10 3	3 26.33	−31 48.6	0.752	1.566	31.1	18.7	126 W	13	84
10 8	3 26.71	−32 35.3	0.742	1.564	30.5	18.6	127 W	12	83
10 13	3 25.85	−33 10.0	0.735	1.564	30.0	18.6	128 W	12	83

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
261934 2006 MK_8 *(continuation)*									
10 18	3 23.83	−33 30.7	0.729	1.564	29.5	18.6	129 W	11	82
10 23	3 20.81	−33 35.0	0.726	1.565	29.1	18.5	130 W	11	82
10 28	3 16.99	−33 21.5	0.725	1.567	28.7	18.5	131 W	12	83
11 2	3 12.64	−32 48.9	0.727	1.570	28.3	18.5	131 W	12	83
11 7	3 8.01	−31 56.9	0.731	1.574	28.1	18.5	132 W	13	84
11 12	3 3.37	−30 45.5	0.738	1.579	28.0	18.6	132 E	14	85
11 17	2 59.01	−29 15.5	0.748	1.584	28.0	18.6	131 E	16	87
11 22	2 55.16	−27 28.5	0.761	1.591	28.1	18.7	131 E	18	89
11 27	2 52.03	−25 26.7	0.777	1.598	28.4	18.7	130 E	20	89
12 2	2 49.72	−23 12.8	0.797	1.607	28.8	18.8	128 E	22	87
12 7	2 48.30	−20 49.5	0.821	1.616	29.3	18.9	127 E	24	85
12 12	2 47.82	−18 19.6	0.848	1.626	29.8	19.0	125 E	27	82
12 17	2 48.28	−15 45.4	0.879	1.636	30.4	19.1	123 E	29	80
12 22	2 49.67	−13 9.4	0.913	1.647	30.9	19.2	121 E	32	77
12 27	2 51.93	−10 33.7	0.951	1.659	31.5	19.3	118 E	34	75
1 1	2 55.01	− 8 0.1	0.992	1.672	32.0	19.5	116 E	37	72
1 6	2 58.85	− 5 29.9	1.036	1.685	32.5	19.6	113 E	40	69
1 11	3 3.38	− 3 4.1	1.084	1.699	32.8	19.7	110 E	42	67
1 16	3 8.58	− 0 43.4	1.134	1.713	33.1	19.8	108 E	44	65
488645 2003 *OV*									
4 21	22 1.06	− 8 24.9	1.318	1.222	46.4	21.2	62 W	19*	55*
4 26	22 23.80	− 5 49.3	1.234	1.145	49.9	21.0	60 W	19*	53*
5 1	22 49.06	− 2 50.2	1.159	1.064	53.7	20.8	58 W	19*	51*
5 6	23 17.20	+ 0 33.2	1.095	0.981	57.8	20.6	55 W	19*	47*
5 11	23 48.58	+ 4 18.5	1.045	0.895	62.2	20.5	52 W	19*	43*
5 16	0 23.39	+ 8 19.2	1.014	0.806	66.4	20.3	47 W	18*	38*
5 21	1 1.62	+12 22.9	1.003	0.714	69.9	20.1	41 W	16*	32*
5 23	1 17.82	+13 57.7	1.005	0.676	71.0	20.0	39 W	16*	30*
5 25	1 34.50	+15 29.1	1.011	0.638	71.8	20.0	37 W	15*	27*
5 27	1 51.62	+16 56.1	1.021	0.600	72.1	19.9	34 W	14*	25*
5 29	2 9.16	+18 17.5	1.035	0.562	72.0	19.7	32 W	13*	23*
5 31	2 27.10	+19 32.3	1.053	0.525	71.2	19.6	29 W	12*	20*
6 5	3 13.60	+22 5.2	1.114	0.434	65.5	19.1	23 W	9*	14*
6 10	4 2.57	+23 40.3	1.195	0.360	52.2	18.5	16 W	5*	8*
6 15	4 53.82	+24 8.6	1.282	0.324	30.3	17.8	9 W	—	2*
6 20	5 44.80	+23 29.1	1.358	0.345	6.9	17.3	2 W	—	—
6 22	6 4.19	+22 57.6	1.383	0.367	1.4	17.1	1 E	—	—
6 24	6 22.73	+22 19.3	1.407	0.395	7.2	17.7	3 E	—	—
6 26	6 40.36	+21 35.7	1.430	0.427	12.1	18.1	5 E	—	—
6 28	6 57.05	+20 48.1	1.453	0.461	15.8	18.4	7 E	—	1*
6 30	7 12.85	+19 57.5	1.476	0.498	18.7	18.7	9 E	—	3*
7 2	7 27.80	+19 4.7	1.499	0.535	20.8	18.9	11 E	—	5*
7 4	7 41.94	+18 10.5	1.523	0.573	22.3	19.2	12 E	—	6*
7 6	7 55.33	+17 15.4	1.548	0.611	23.4	19.4	14 E	—	8*
7 8	8 8.03	+16 19.9	1.574	0.649	24.1	19.6	15 E	—	9*
7 10	8 20.08	+15 24.4	1.601	0.686	24.5	19.7	16 E	—	10*
7 15	8 47.67	+13 7.3	1.672	0.779	24.6	20.1	19 E	—	13*
7 20	9 12.14	+10 55.2	1.748	0.869	23.9	20.4	20 E	—	14*
7 25	9 34.03	+ 8 49.5	1.828	0.956	22.7	20.7	21 E	—	15*
7 30	9 53.78	+ 6 50.9	1.911	1.040	21.3	20.9	22 E	—	16*
8 4	10 11.73	+ 4 59.5	1.996	1.122	19.8	21.1	22 E	—	16*
8 9	10 28.19	+ 3 14.9	2.081	1.200	18.2	21.3	22 E	—	16*
8 14	10 43.38	+ 1 36.8	2.167	1.276	16.6	21.5	21 E	—	15*
163902 2003 SW_{222}									
4 21	22 25.23	− 3 8.3	2.301	1.901	25.5	21.5	54 W	19*	47*
5 1	22 43.51	− 0 16.4	2.188	1.877	27.4	21.4	59 W	22*	50*
5 11	23 1.58	+ 2 43.8	2.072	1.851	29.1	21.3	63 W	25*	52*
5 21	23 19.51	+ 5 52.3	1.955	1.824	30.8	21.2	67 W	29*	53*
5 31	23 37.34	+ 9 9.1	1.836	1.796	32.4	21.1	72 W	34*	53*
6 10	23 55.15	+12 34.0	1.718	1.766	33.8	20.9	76 W	39*	51*
6 20	0 13.02	+16 7.2	1.601	1.735	35.2	20.8	80 W	45*	48
6 30	0 31.00	+19 48.4	1.486	1.704	36.4	20.6	84 W	52*	44
7 10	0 49.20	+23 37.4	1.375	1.671	37.4	20.4	87 W	59*	40
7 20	1 7.73	+27 33.7	1.267	1.638	38.3	20.2	91 W	67*	36
7 30	1 26.64	+31 36.3	1.164	1.604	39.1	20.0	95 W	74*	32
8 4	1 36.29	+33 39.5	1.114	1.587	39.4	19.9	96 W	77*	30
8 9	1 46.09	+35 43.8	1.066	1.570	39.7	19.8	98 W	80*	28
8 14	1 56.05	+37 48.8	1.019	1.553	40.0	19.7	100 W	83	26
8 19	2 6.17	+39 54.1	0.974	1.536	40.2	19.6	101 W	85	24
8 24	2 16.47	+41 59.2	0.930	1.519	40.4	19.4	103 W	87	22
8 29	2 26.96	+44 3.7	0.887	1.502	40.6	19.3	105 W	89	20
9 3	2 37.66	+46 7.0	0.846	1.485	40.7	19.2	106 W	89	18
9 8	2 48.58	+48 8.5	0.807	1.469	40.8	19.1	108 W	87	16
9 13	2 59.69	+50 7.5	0.769	1.452	40.9	18.9	109 W	85	14
9 18	3 10.97	+52 3.1	0.732	1.436	40.9	18.8	111 W	83	12
9 23	3 22.38	+53 54.3	0.696	1.420	40.9	18.7	112 W	81	10

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	163902 2003 SW_{222} *(continuation)*								
	h m	° ′			°	m	°	°	°
9 28	3 33.88	+55 40.0	0.662	1.405	40.8	18.5	114 W	79	8
10 3	3 45.42	+57 19.4	0.629	1.390	40.7	18.4	115 W	78	7
10 8	3 56.86	+58 51.3	0.598	1.375	40.5	18.3	117 W	76	5
10 13	4 8.02	+60 14.4	0.567	1.361	40.3	18.1	118 W	75	4
10 18	4 18.67	+61 27.3	0.537	1.347	39.9	18.0	120 W	74	3
10 23	4 28.55	+62 28.2	0.509	1.334	39.4	17.8	122 W	73	2
10 28	4 37.41	+63 15.4	0.482	1.322	38.8	17.7	124 W	72	1
11 2	4 44.95	+63 47.0	0.455	1.311	38.0	17.5	126 W	71	—
11 7	4 50.83	+64 0.7	0.430	1.300	37.0	17.3	128 W	71	—
11 12	4 54.81	+63 53.4	0.406	1.290	35.7	17.2	130 W	71	—
11 17	4 56.79	+63 21.3	0.383	1.281	34.2	17.0	133 W	72	1
11 22	4 56.93	+62 20.0	0.361	1.274	32.4	16.8	136 W	73	2
11 27	4 55.65	+60 45.6	0.342	1.267	30.3	16.6	140 W	74	3
11 29	4 54.84	+59 57.6	0.335	1.264	29.4	16.5	141 W	75	4
12 1	4 53.93	+59 3.4	0.328	1.262	28.4	16.4	142 W	76	5
12 3	4 52.94	+58 3.0	0.322	1.260	27.4	16.4	144 W	77	6
12 5	4 51.92	+56 56.1	0.316	1.258	26.4	16.3	145 W	78	7
12 7	4 50.90	+55 42.8	0.310	1.256	25.4	16.2	147 E	79	8
12 9	4 49.92	+54 23.0	0.305	1.255	24.3	16.1	148 E	81	10
12 11	4 49.00	+52 56.8	0.300	1.253	23.3	16.1	150 E	82	11
12 13	4 48.19	+51 24.5	0.297	1.252	22.4	16.0	151 E	84	13
12 15	4 47.52	+49 46.4	0.293	1.251	21.5	16.0	152 E	85	14
12 17	4 47.01	+48 3.0	0.291	1.250	20.8	15.9	153 E	87	16
12 19	4 46.67	+46 15.0	0.288	1.250	20.2	15.9	154 E	89	18
12 21	4 46.53	+44 22.9	0.287	1.249	19.7	15.9	155 E	89	20
12 23	4 46.59	+42 27.6	0.287	1.249	19.5	15.9	155 E	87	22
12 25	4 46.86	+40 29.9	0.287	1.249	19.6	15.9	155 E	85	24
12 27	4 47.34	+38 30.7	0.287	1.249	19.8	15.9	155 E	84	25
12 29	4 48.01	+36 31.0	0.289	1.249	20.3	15.9	154 E	82	27
12 31	4 48.89	+34 31.5	0.291	1.250	20.9	15.9	153 E	80	29
1 2	4 49.96	+32 33.1	0.294	1.250	21.8	16.0	152 E	78	31
1 4	4 51.21	+30 36.7	0.298	1.251	22.7	16.0	151 E	76	33
1 6	4 52.64	+28 42.8	0.302	1.252	23.8	16.1	149 E	74	35
1 8	4 54.25	+26 52.2	0.308	1.254	25.0	16.2	147 E	72	37
1 10	4 56.02	+25 5.3	0.313	1.255	26.1	16.3	146 E	70	39
1 12	4 57.95	+23 22.7	0.320	1.257	27.3	16.3	144 E	68	41
1 14	5 0.04	+21 44.6	0.327	1.258	28.5	16.4	142 E	67	42
1 16	5 2.28	+20 11.2	0.335	1.260	29.7	16.5	141 E	65	44
	367638 2009 WR_6								
5 1	0 50.29	+21 57.4	2.089	1.256	20.1	21.5	25 W	16*	12*
5 6	1 8.11	+23 53.9	2.076	1.245	20.5	21.5	26 W	16*	12*
5 11	1 26.50	+25 44.2	2.065	1.235	20.8	21.5	26 W	16*	11*
5 16	1 45.47	+27 27.2	2.056	1.227	21.0	21.4	26 W	17*	11*
5 21	2 4.99	+29 1.7	2.049	1.219	21.2	21.4	26 W	17*	10*
5 26	2 25.04	+30 26.3	2.043	1.213	21.3	21.4	26 W	17*	10*
5 31	2 45.56	+31 40.1	2.040	1.209	21.3	21.4	26 W	17*	9*
6 5	3 6.47	+32 42.0	2.038	1.205	21.3	21.4	26 W	17*	9*
6 10	3 27.67	+33 31.5	2.038	1.203	21.3	21.4	25 W	17*	8*
6 15	3 49.06	+34 7.8	2.039	1.203	21.2	21.4	25 W	17*	8*
6 20	4 10.52	+34 30.8	2.041	1.204	21.1	21.4	25 W	17*	8*
6 25	4 31.89	+34 40.4	2.044	1.206	21.1	21.4	25 W	17*	7*
6 30	4 53.06	+34 36.9	2.048	1.210	21.0	21.4	25 W	17*	7*
7 5	5 13.90	+34 20.5	2.053	1.215	21.0	21.4	25 W	18*	7*
7 10	5 34.30	+33 52.0	2.057	1.221	21.0	21.4	25 W	18*	7*
7 15	5 54.18	+33 12.2	2.062	1.229	21.1	21.5	26 W	18*	8*
7 20	6 13.47	+32 21.8	2.067	1.238	21.2	21.5	26 W	18*	8*
	512234 2015 VO_{66}								
5 1	1 16.18	+ 3 32.5	0.962	0.383	85.6	21.4	22 W	—	16*
5 3	1 24.65	+ 3 58.1	1.019	0.390	77.3	21.3	22 W	—	16*
5 5	1 33.52	+ 4 33.2	1.075	0.401	69.6	21.2	22 W	—	16*
5 7	1 42.63	+ 5 15.3	1.129	0.416	62.7	21.2	21 W	—	15*
5 9	1 51.85	+ 6 2.3	1.182	0.434	56.5	21.2	21 W	—	15*
5 11	2 1.09	+ 6 52.5	1.231	0.455	51.1	21.2	21 W	—	14*
5 13	2 10.26	+ 7 44.3	1.278	0.478	46.4	21.3	20 W	—	14*
5 15	2 19.33	+ 8 36.7	1.323	0.502	42.4	21.4	20 W	—	13*
5 17	2 28.25	+ 9 28.8	1.366	0.527	38.9	21.4	19 W	—	13*
	398188 Agni								
5 1	1 17.95	+ 3 33.1	1.724	0.874	25.5	21.5	22 W	—	16*
5 6	1 39.89	+ 5 17.3	1.708	0.848	25.3	21.4	21 W	—	15*
5 11	2 2.55	+ 7 2.4	1.693	0.822	25.0	21.3	20 W	—	14*
5 16	2 26.00	+ 8 47.4	1.681	0.796	24.4	21.2	19 W	—	13*
5 21	2 50.29	+10 31.0	1.670	0.770	23.5	21.1	18 W	—	12*
5 26	3 15.46	+12 12.0	1.661	0.744	22.3	20.9	16 W	—	10*
5 31	3 41.54	+13 48.6	1.654	0.719	20.7	20.8	15 W	—	8*
6 5	4 8.54	+15 19.2	1.649	0.696	18.7	20.7	13 W	—	7*
6 10	4 36.44	+16 41.7	1.646	0.675	16.3	20.5	11 W	—	5*
6 15	5 5.19	+17 54.0	1.644	0.658	13.5	20.3	9 W	—	3*
6 20	5 34.69	+18 54.2	1.643	0.643	10.4	20.2	7 W	—	—

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	398188 Agni *(continuation)*								
	h m	° ′			°	m	°	°	°
6 25	6 4.78	+19 40.1	1.642	0.634	7.3	20.0	5 W	—	—
6 30	6 35.27	+20 10.0	1.642	0.629	4.9	19.9	3 W	—	—
7 5	7 5.93	+20 22.7	1.641	0.629	5.1	19.9	3 E	—	—
7 10	7 36.49	+20 17.4	1.641	0.634	7.7	20.0	5 E	—	—
7 15	8 6.72	+19 54.1	1.641	0.644	11.0	20.2	7 E	—	1*
7 20	8 36.39	+19 13.3	1.641	0.658	14.2	20.4	9 E	—	3*
7 25	9 5.31	+18 16.3	1.642	0.676	17.1	20.5	11 E	—	5*
7 30	9 33.35	+17 4.7	1.644	0.697	19.6	20.7	13 E	2*	6*
8 4	10 0.41	+15 40.5	1.647	0.720	21.8	20.8	15 E	3*	8*
8 9	10 26.48	+14 5.7	1.652	0.745	23.6	21.0	17 E	4*	10*
8 14	10 51.57	+12 22.3	1.658	0.770	24.9	21.1	19 E	5*	11*
8 19	11 15.70	+10 32.4	1.666	0.797	26.0	21.2	20 E	6*	13*
8 24	11 38.93	+ 8 37.8	1.675	0.823	26.8	21.3	21 E	7*	14*
8 29	12 1.34	+ 6 40.4	1.687	0.849	27.3	21.4	23 E	8*	15*
9 3	12 22.99	+ 4 41.5	1.699	0.874	27.5	21.5	24 E	8*	16*
	326332 2000 GS_{146}								
5 1	1 27.43	−16 1.7	2.158	1.454	23.5	21.5	35 W	—	22*
5 11	1 49.39	−11 54.6	2.118	1.432	24.6	21.4	36 W	—	25*
5 21	2 10.89	− 7 45.7	2.070	1.407	25.9	21.4	37 W	—	29*
5 31	2 32.21	− 3 34.2	2.015	1.381	27.4	21.3	39 W	—	32*
6 10	2 53.67	+ 0 41.5	1.952	1.354	29.2	21.3	41 W	—	35*
6 20	3 15.64	+ 5 3.4	1.882	1.325	31.2	21.2	43 W	6*	36*
6 30	3 38.54	+ 9 33.7	1.805	1.296	33.4	21.1	45 W	13*	37*
7 10	4 2.94	+14 14.4	1.723	1.265	35.8	21.1	47 W	20*	36*
7 20	4 29.59	+19 6.7	1.638	1.235	38.3	21.0	49 W	27*	34*
7 30	4 59.47	+24 9.8	1.554	1.205	40.8	20.9	51 W	34*	30*
8 9	5 33.91	+29 18.6	1.474	1.176	43.2	20.8	53 W	41*	26*
8 19	6 14.54	+34 20.5	1.402	1.148	45.4	20.7	54 W	45*	21*
8 29	7 2.96	+38 52.1	1.343	1.123	47.3	20.6	55 W	48*	15*
9 8	7 59.90	+42 18.1	1.301	1.100	48.7	20.5	55 W	49*	9*
9 18	9 3.53	+43 59.3	1.279	1.080	49.5	20.5	55 W	48*	3*
9 20	9 16.65	+44 4.4	1.278	1.077	49.6	20.4	55 W	47*	2*
9 22	9 29.78	+44 4.2	1.277	1.073	49.6	20.4	55 W	47*	1*
9 24	9 42.86	+43 58.6	1.276	1.070	49.7	20.4	54 W	46*	—
9 26	9 55.85	+43 47.8	1.277	1.067	49.7	20.4	54 W	46*	—
9 28	10 8.70	+43 31.9	1.278	1.065	49.6	20.4	54 W	45*	—
10 3	10 39.90	+42 31.0	1.285	1.059	49.4	20.4	53 W	44*	—
10 8	11 9.35	+41 3.0	1.296	1.054	49.0	20.4	53 W	43*	—
10 13	11 36.71	+39 12.6	1.310	1.050	48.5	20.4	52 W	42*	—
10 18	12 1.86	+37 4.9	1.327	1.048	47.8	20.4	51 W	41*	—
10 23	12 24.83	+34 44.7	1.347	1.047	47.1	20.4	50 W	40*	—
10 28	12 45.77	+32 15.9	1.368	1.048	46.3	20.4	50 W	40*	—
11 2	13 4.91	+29 41.8	1.389	1.049	45.4	20.5	49 W	39*	—
11 7	13 22.45	+27 4.8	1.411	1.052	44.6	20.5	48 W	39*	—
11 12	13 38.63	+24 27.0	1.431	1.057	43.7	20.5	48 W	39*	—
11 17	13 53.63	+21 49.7	1.450	1.062	43.0	20.5	47 W	40*	—
11 22	14 7.65	+19 13.8	1.467	1.069	42.3	20.5	47 W	40*	—
11 27	14 20.82	+16 39.7	1.482	1.077	41.7	20.5	47 W	40*	1*
12 2	14 33.29	+14 7.9	1.494	1.086	41.2	20.6	47 W	41*	4*
12 7	14 45.19	+11 38.2	1.503	1.096	40.9	20.6	47 W	41*	7*
12 12	14 56.61	+ 9 10.8	1.509	1.106	40.7	20.6	47 W	41*	10*
12 17	15 7.63	+ 6 45.4	1.511	1.118	40.6	20.6	48 W	40*	13*
12 22	15 18.33	+ 4 21.8	1.509	1.130	40.7	20.7	48 W	40*	17*
12 27	15 28.77	+ 1 59.7	1.504	1.143	40.8	20.7	49 W	39*	20*
1 1	15 39.01	− 0 21.4	1.495	1.157	41.1	20.7	51 W	38*	24*
1 6	15 49.10	− 2 41.8	1.482	1.170	41.5	20.7	52 W	37*	28*
1 11	15 59.09	− 5 2.1	1.466	1.185	41.9	20.7	54 W	36*	33*
1 16	16 9.00	− 7 22.7	1.447	1.199	42.4	20.7	55 W	34*	37*
	138893 2000 YH_{66}								
5 1	1 30.57	+ 9 59.4	0.834	0.311	115.4	19.7	16 W	1*	10*
5 3	1 26.66	+11 19.1	0.890	0.329	101.4	19.1	19 W	3*	12*
5 5	1 25.64	+12 39.3	0.948	0.353	89.5	18.9	20 W	5*	13*
5 7	1 26.81	+13 57.1	1.005	0.381	79.6	18.8	22 W	7*	14*
5 9	1 29.54	+15 11.1	1.061	0.413	71.6	18.8	23 W	8*	15*
5 11	1 33.33	+16 20.5	1.113	0.447	65.1	18.9	24 W	9*	15*
5 13	1 37.84	+17 25.5	1.163	0.482	59.7	19.0	24 W	10*	16*
5 15	1 42.81	+18 26.0	1.211	0.517	55.4	19.1	25 W	10*	16*
5 17	1 48.09	+19 22.4	1.255	0.552	51.8	19.2	25 W	11*	16*
5 19	1 53.55	+20 15.0	1.297	0.587	48.7	19.3	26 W	12*	16*
5 21	1 59.11	+21 4.1	1.337	0.622	46.2	19.5	26 W	12*	16*
5 26	2 13.15	+22 53.5	1.427	0.707	41.5	19.7	28 W	14*	17*
5 31	2 27.04	+24 26.9	1.505	0.788	38.4	20.0	29 W	15*	17*
6 5	2 40.58	+25 47.4	1.573	0.865	36.3	20.2	30 W	17*	18*
6 10	2 53.69	+26 57.4	1.632	0.938	34.8	20.5	32 W	18*	18*
6 15	3 6.35	+27 58.6	1.683	1.007	33.9	20.7	34 W	20*	19*
6 20	3 18.57	+28 52.4	1.726	1.073	33.3	20.8	35 W	22*	20*
6 25	3 30.34	+29 40.0	1.761	1.135	32.9	21.0	37 W	24*	20*
6 30	3 41.68	+30 22.1	1.790	1.195	32.7	21.1	39 W	26*	21*

138893 2000 YH_{66} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 5	3 52.58	+30 59.5	1.812	1.251	32.7	21.3	42 W	28*	22*
7 10	4 3.07	+31 32.8	1.828	1.305	32.8	21.4	44 W	31*	22*
7 15	4 13.15	+32 2.6	1.838	1.356	32.9	21.5	46 W	34*	23*

234037 1998 VG_{57}

5 1	2 24.56	+14 4.9	2.753	1.746	1.4	21.5	2 W	—	—
5 11	2 50.26	+16 13.3	2.705	1.703	3.3	21.5	5 W	—	—
5 21	3 17.28	+18 13.0	2.655	1.661	5.1	21.5	8 W	—	2*
5 31	3 45.68	+20 1.2	2.604	1.621	6.9	21.5	11 W	—	5*
6 10	4 15.46	+21 34.3	2.553	1.583	8.6	21.5	13 W	1*	6*
6 20	4 46.58	+22 49.1	2.502	1.549	10.2	21.5	16 W	3*	8*
6 30	5 18.89	+23 42.1	2.454	1.518	11.8	21.5	18 W	6*	9*
7 10	5 52.18	+24 10.4	2.408	1.491	13.3	21.4	20 W	8*	10*
7 20	6 26.15	+24 11.9	2.366	1.469	14.7	21.4	22 W	11*	11*
7 30	7 0.43	+23 45.3	2.328	1.451	16.0	21.4	23 W	13*	11*
8 9	7 34.62	+22 50.8	2.293	1.439	17.3	21.4	25 W	16*	11*
8 19	8 8.38	+21 29.7	2.263	1.432	18.4	21.4	27 W	18*	12*
8 29	8 41.38	+19 44.6	2.237	1.430	19.6	21.4	28 W	20*	12*
9 8	9 13.39	+17 39.2	2.213	1.434	20.6	21.4	30 W	22*	13*
9 18	9 44.27	+15 17.5	2.193	1.444	21.7	21.5	32 W	24*	14*
9 28	10 13.93	+12 43.9	2.174	1.459	22.7	21.5	34 W	26*	15*

344151 2000 SV_4

5 1	2 36.13	+14 37.3	2.719	1.712	0.5	21.4	1 E	—	—
5 11	3 0.57	+16 57.1	2.740	1.732	1.7	21.6	3 W	—	—
5 21	3 25.17	+19 3.7	2.755	1.753	3.7	21.8	6 W	—	—
5 31	3 49.93	+20 56.3	2.764	1.774	5.6	21.9	10 W	—	3*
6 10	4 14.80	+22 34.4	2.766	1.795	7.6	22.0	14 W	2*	6*

145963 1999 YC_7

5 1	2 39.10	+31 44.9	3.831	2.881	5.8	21.5	17 E	8*	—
5 11	2 56.46	+32 52.4	3.829	2.868	5.4	21.4	15 W	8*	—
5 21	3 14.22	+33 57.6	3.812	2.853	5.6	21.4	16 W	10*	—
5 31	3 32.35	+34 59.5	3.781	2.838	6.5	21.4	19 W	12*	—
6 10	3 50.79	+35 57.6	3.737	2.822	7.8	21.5	22 W	15*	3*
6 20	4 9.52	+36 51.2	3.679	2.805	9.2	21.5	26 W	19*	6*
6 30	4 28.45	+37 39.9	3.609	2.787	10.8	21.5	31 W	23*	9*
7 10	4 47.51	+38 23.4	3.526	2.768	12.4	21.5	36 W	28*	11*
7 20	5 6.62	+39 1.6	3.433	2.748	14.0	21.5	41 W	33*	13*
7 30	5 25.66	+39 34.4	3.328	2.727	15.6	21.4	46 W	39*	15*
8 9	5 44.50	+40 2.2	3.214	2.705	17.1	21.4	52 W	44*	16*
8 19	6 3.02	+40 25.4	3.091	2.683	18.5	21.3	57 W	50*	17*
8 29	6 21.03	+40 44.7	2.959	2.659	19.8	21.3	63 W	56*	18*
9 8	6 38.36	+41 1.1	2.821	2.635	20.9	21.2	69 W	63*	19*
9 18	6 54.81	+41 15.7	2.678	2.609	21.9	21.1	75 W	69*	19*
9 28	7 10.10	+41 30.1	2.530	2.583	22.6	21.0	82 W	75*	20*
10 8	7 23.97	+41 45.8	2.379	2.557	23.0	20.8	89 W	82*	20*
10 18	7 36.04	+42 4.6	2.228	2.529	23.1	20.7	96 W	87	21*
10 28	7 45.89	+42 28.1	2.079	2.501	22.8	20.5	103 W	87	21*
11 2	7 49.83	+42 42.0	2.006	2.486	22.4	20.4	107 W	88	21*
11 7	7 53.01	+42 57.4	1.934	2.471	22.0	20.3	111 W	88	21*
11 12	7 55.36	+43 14.3	1.864	2.457	21.4	20.1	115 W	88	21
11 17	7 56.79	+43 32.6	1.796	2.442	20.6	20.0	120 W	89	20
11 22	7 57.21	+43 51.9	1.731	2.426	19.7	19.9	124 W	89	20
11 27	7 56.56	+44 11.8	1.669	2.411	18.7	19.8	129 W	89	20
12 2	7 54.76	+44 31.6	1.611	2.396	17.5	19.6	133 W	90	19
12 7	7 51.76	+44 50.3	1.557	2.380	16.2	19.5	138 W	90	19
12 12	7 47.54	+45 6.7	1.507	2.364	14.7	19.4	142 W	90	19
12 17	7 42.12	+45 19.3	1.462	2.348	13.3	19.3	147 W	90	19
12 22	7 35.57	+45 26.7	1.423	2.332	11.9	19.1	151 W	90	19
12 27	7 28.08	+45 27.2	1.390	2.316	10.6	19.0	154 W	90	19
1 1	7 19.85	+45 19.4	1.364	2.300	9.8	18.9	157 W	90	19
1 6	7 11.15	+45 2.2	1.344	2.283	9.5	18.9	157 W	90	19
1 11	7 2.33	+44 35.1	1.330	2.267	9.9	18.8	157 E	90	19
1 16	6 53.71	+43 58.2	1.324	2.250	11.0	18.9	154 E	89	20

19356 1997 GH_3

5 1	2 40.95	+14 20.7	3.320	2.313	0.8	21.4	2 E	—	—
5 11	2 59.62	+15 39.9	3.253	2.247	1.7	21.3	4 W	—	—
5 21	3 19.30	+16 55.1	3.175	2.179	3.9	21.4	8 W	—	2*
5 31	3 40.04	+18 5.1	3.086	2.110	6.1	21.3	13 W	—	7*
6 10	4 1.93	+19 8.2	2.988	2.039	8.4	21.3	17 W	1*	10*
6 20	4 25.06	+20 2.7	2.881	1.968	10.7	21.2	21 W	5*	14*
6 30	4 49.51	+20 46.7	2.769	1.896	13.0	21.2	25 W	8*	16*
7 10	5 15.38	+21 17.7	2.652	1.822	15.4	21.1	28 W	12*	19*
7 20	5 42.74	+21 33.2	2.532	1.749	17.7	21.0	32 W	16*	20*
7 30	6 11.65	+21 30.3	2.412	1.675	20.0	20.8	34 W	20*	21*
8 9	6 42.13	+21 6.0	2.293	1.601	22.3	20.7	37 W	23*	22*
8 19	7 14.18	+20 16.9	2.177	1.528	24.6	20.6	39 W	27*	23*
8 29	7 47.75	+19 0.2	2.068	1.456	26.8	20.4	41 W	29*	23*
9 8	8 22.71	+17 13.5	1.967	1.387	28.9	20.2	42 W	31*	23*

19356 1997 GH_3 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 18	8 58.95	+14 55.4	1.877	1.322	30.8	20.1	42 W	32*	23*
9 28	9 36.23	+12 6.7	1.799	1.262	32.6	20.0	43 W	32*	23*
10 8	10 14.37	+ 8 50.1	1.736	1.208	34.0	19.8	43 W	32*	23*
10 13	10 33.70	+ 7 2.9	1.711	1.184	34.6	19.8	42 W	32*	22*
10 18	10 53.15	+ 5 11.1	1.689	1.163	35.1	19.7	42 W	32*	22*
10 23	11 12.71	+ 3 15.7	1.671	1.144	35.5	19.7	42 W	31*	22*
10 28	11 32.34	+ 1 18.0	1.657	1.128	35.8	19.6	42 W	30*	23*
11 2	11 52.02	− 0 40.9	1.647	1.115	36.0	19.6	41 W	30*	23*
11 7	12 11.72	− 2 39.4	1.641	1.105	36.1	19.6	41 W	29*	23*
11 12	12 31.43	− 4 36.4	1.638	1.098	36.0	19.5	41 W	28*	23*
11 17	12 51.10	− 6 30.6	1.638	1.095	35.9	19.5	41 W	27*	23*
11 22	13 10.70	− 8 20.6	1.641	1.095	35.8	19.5	40 W	27*	24*
11 27	13 30.20	−10 5.5	1.647	1.099	35.5	19.5	40 W	26*	24*
12 2	13 49.56	−11 44.2	1.654	1.106	35.2	19.6	40 W	25*	25*
12 7	14 8.76	−13 16.1	1.664	1.117	35.0	19.6	41 W	24*	26*
12 17	14 46.47	−15 57.1	1.687	1.147	34.4	19.7	41 W	23*	28*
12 27	15 22.99	−18 5.6	1.712	1.188	33.9	19.8	42 W	22*	30*
1 6	15 57.99	−19 41.5	1.737	1.238	33.6	19.9	44 W	21*	33*
1 16	16 31.17	−20 46.6	1.759	1.296	33.4	20.0	46 W	20*	37*

288132 2003 WO_{84}

5 1	2 42.17	+19 33.1	2.664	1.662	3.0	21.4	5 E	—	—
5 11	3 9.98	+21 17.4	2.657	1.650	2.1	21.4	3 W	—	—
5 21	3 38.56	+22 46.4	2.648	1.640	2.5	21.4	4 W	—	—
5 31	4 7.83	+23 57.9	2.636	1.631	3.7	21.4	6 W	—	—
6 10	4 37.64	+24 49.6	2.622	1.624	5.2	21.5	8 W	—	—

307227 2002 GE_{123}

5 1	2 44.66	+14 0.1	2.834	1.828	1.6	21.4	3 E	—	—
5 11	3 9.32	+15 37.0	2.806	1.797	1.3	21.3	2 W	—	—
5 21	3 34.89	+17 4.0	2.773	1.767	2.9	21.4	5 W	—	—
5 31	4 1.34	+18 19.1	2.736	1.739	4.7	21.4	8 W	—	2*
6 10	4 28.64	+19 20.1	2.696	1.711	6.5	21.4	11 W	—	5*
6 20	4 56.73	+20 5.0	2.654	1.686	8.3	21.4	14 W	—	7*
6 30	5 25.50	+20 32.1	2.610	1.662	10.1	21.4	17 W	2*	10*
7 10	5 54.78	+20 39.8	2.564	1.640	11.8	21.4	19 W	5*	12*
7 20	6 24.43	+20 27.4	2.518	1.621	13.5	21.4	22 W	8*	13*
7 30	6 54.24	+19 54.2	2.472	1.604	15.2	21.4	24 W	12*	14*
8 9	7 24.00	+19 0.6	2.426	1.590	16.8	21.4	27 W	15*	16*
8 19	7 53.56	+17 47.5	2.381	1.579	18.3	21.4	29 W	18*	17*
8 29	8 22.73	+16 16.2	2.335	1.571	19.8	21.4	32 W	21*	18*
9 8	8 51.40	+14 28.9	2.291	1.566	21.3	21.4	34 W	24*	19*
9 18	9 19.47	+12 27.9	2.246	1.565	22.7	21.4	37 W	27*	20*
9 28	9 46.87	+10 16.0	2.201	1.567	24.1	21.4	40 W	29*	22*
10 8	10 13.57	+ 7 56.0	2.156	1.572	25.4	21.4	43 W	32*	23*
10 18	10 39.58	+ 5 30.9	2.109	1.580	26.7	21.4	45 W	34*	25*
10 28	11 4.86	+ 3 3.8	2.062	1.591	28.0	21.4	49 W	36*	28*
11 7	11 29.44	+ 0 37.5	2.012	1.606	29.1	21.4	52 W	37*	30*
11 17	11 53.29	− 1 45.4	1.959	1.623	30.2	21.4	56 W	38*	34*
11 27	12 16.39	− 4 2.2	1.904	1.642	31.2	21.4	60 W	38*	38*
12 7	12 38.67	− 6 10.6	1.846	1.664	32.1	21.4	64 W	38*	43*
12 17	13 0.04	− 8 8.5	1.783	1.688	32.8	21.4	68 W	37*	48*
12 27	13 20.35	− 9 54.1	1.718	1.714	33.3	21.3	73 W	35	54*
1 6	13 39.43	−11 25.7	1.648	1.741	33.6	21.3	78 W	34	61*
1 16	13 57.00	−12 42.0	1.576	1.770	33.6	21.2	84 W	32	67*

229835 2009 QA_{31}

5 1	2 53.47	+20 39.7	3.085	2.090	3.5	21.5	7 E	1*	—
5 11	3 14.87	+22 31.4	3.127	2.122	2.2	21.5	5 E	—	—
5 21	3 36.32	+24 12.2	3.160	2.155	2.5	21.5	5 W	—	—
5 31	3 57.80	+25 42.1	3.184	2.187	4.0	21.7	9 W	2*	—
6 10	4 19.23	+27 0.8	3.197	2.219	5.9	21.8	13 W	5*	3*

453207 2008 GO_{115}

5 1	2 54.65	+16 20.8	2.791	1.790	2.9	21.4	5 E	—	—
5 11	3 20.54	+17 47.5	2.746	1.737	1.2	21.2	2 E	—	—
5 21	3 47.82	+19 3.6	2.697	1.686	0.9	21.0	1 W	—	—
5 31	4 16.50	+20 5.9	2.646	1.636	2.5	21.1	4 W	—	—
6 10	4 46.53	+20 51.1	2.594	1.590	4.2	21.1	7 W	—	1*
6 20	5 17.80	+21 16.2	2.543	1.547	5.8	21.0	9 W	—	3*
6 30	5 50.14	+21 18.4	2.494	1.508	7.3	21.0	11 W	—	4*
7 10	6 23.27	+20 55.3	2.448	1.474	8.7	21.0	13 W	1*	6*
7 20	6 56.92	+20 5.7	2.407	1.445	10.0	21.0	14 W	3*	7*
7 30	7 30.74	+18 49.5	2.371	1.421	11.2	20.9	16 W	5*	8*
8 9	8 4.41	+17 7.9	2.340	1.405	12.4	20.9	17 W	7*	9*
8 19	8 37.64	+15 3.2	2.316	1.395	13.4	20.9	19 W	8*	9*
8 29	9 10.21	+12 39.0	2.297	1.392	14.3	20.9	20 W	10*	10*
9 8	9 41.96	+ 9 59.5	2.284	1.396	15.3	21.0	21 W	12*	11*
9 18	10 12.80	+ 7 9.2	2.276	1.407	16.2	21.0	23 W	14*	12*
9 28	10 42.70	+ 4 12.8	2.272	1.425	17.1	21.1	25 W	15*	13*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
453207 2008 GO_{115} *(continuation)*									
10 8	11 11.65	+ 1 14.9	2.270	1.449	18.1	21.1	27 W	17*	14*
10 18	11 39.70	− 1 40.8	2.270	1.479	19.0	21.2	29 W	19*	16*
10 28	12 6.86	− 4 30.7	2.269	1.515	20.1	21.3	32 W	21*	18*
11 7	12 33.16	− 7 11.9	2.267	1.554	21.1	21.4	34 W	22*	20*
11 17	12 58.62	− 9 42.2	2.262	1.598	22.2	21.5	38 W	24*	23*
216115 2006 SU_{19}									
5 1	3 5.39	+16 13.4	2.215	1.224	6.4	21.5	8 E	—	—
5 6	3 21.24	+17 16.9	2.171	1.175	5.9	21.3	7 E	—	—
5 11	3 37.98	+18 18.0	2.125	1.126	5.5	21.1	6 E	—	—
5 16	3 55.69	+19 15.9	2.078	1.077	5.3	21.0	6 E	—	—
5 21	4 14.47	+20 9.7	2.030	1.026	5.2	20.8	5 E	—	—
5 26	4 34.40	+20 58.0	1.980	0.976	5.4	20.7	5 E	—	—
5 31	4 55.55	+21 39.3	1.930	0.926	5.9	20.5	5 E	—	—
6 5	5 18.00	+22 11.9	1.880	0.876	6.8	20.4	6 E	—	—
6 10	5 41.79	+22 33.8	1.829	0.828	8.0	20.3	7 E	—	—
6 15	6 6.93	+22 42.8	1.778	0.783	9.8	20.2	8 E	—	1*
6 20	6 33.41	+22 36.6	1.728	0.740	12.2	20.1	9 E	—	2*
6 25	7 1.12	+22 13.0	1.677	0.703	15.3	20.0	11 E	—	4*
6 30	7 29.89	+21 29.9	1.628	0.672	19.0	20.0	12 E	—	6*
7 5	7 59.51	+20 26.0	1.579	0.648	23.4	20.0	15 E	1*	8*
7 10	8 29.68	+19 0.8	1.531	0.635	28.2	20.0	17 E	2*	10*
7 15	9 0.11	+17 14.8	1.486	0.632	33.0	20.1	20 E	3*	13*
7 20	9 30.52	+15 9.7	1.444	0.640	37.7	20.1	23 E	4*	16*
7 25	10 0.66	+12 48.1	1.407	0.658	41.8	20.3	26 E	5*	19*
7 30	10 30.36	+10 13.1	1.376	0.685	45.0	20.4	28 E	6*	22*
8 4	10 59.50	+ 7 28.6	1.353	0.719	47.4	20.5	31 E	7*	25*
8 9	11 28.00	+ 4 38.5	1.338	0.759	48.8	20.7	34 E	8*	28*
8 14	11 55.83	+ 1 46.8	1.332	0.803	49.4	20.8	37 E	9*	31*
8 19	12 22.93	− 1 2.6	1.335	0.849	49.3	20.9	40 E	10*	33*
8 24	12 49.27	− 3 46.3	1.348	0.898	48.6	21.0	42 E	11*	35*
8 29	13 14.79	− 6 21.3	1.368	0.948	47.5	21.2	44 E	11*	38*
9 3	13 39.48	− 8 45.4	1.397	0.998	46.2	21.3	46 E	12*	39*
9 8	14 3.31	−10 57.2	1.433	1.049	44.6	21.4	47 E	12*	41*
445657 2011 UZ_{70}									
5 1	3 17.98	+16 5.7	2.759	1.779	6.1	21.4	11 E	2*	3*
5 11	3 43.06	+18 26.7	2.748	1.751	4.2	21.3	7 E	—	—
5 21	4 9.33	+20 36.4	2.733	1.725	2.4	21.1	4 E	—	—
5 31	4 36.77	+22 32.1	2.716	1.703	0.7	21.0	1 E	—	—
6 10	5 5.34	+24 11.3	2.698	1.683	1.3	21.0	2 W	—	—
6 20	5 34.94	+25 31.7	2.678	1.668	3.1	21.1	5 W	—	—
6 30	6 5.41	+26 31.2	2.658	1.656	4.8	21.1	8 W	1*	—
7 10	6 36.51	+27 8.2	2.637	1.648	6.5	21.2	11 W	4*	—
7 20	7 7.97	+27 21.9	2.617	1.645	8.1	21.2	13 W	6*	1*
7 30	7 39.50	+27 12.1	2.598	1.645	9.8	21.3	16 W	9*	2*
8 9	8 10.77	+26 39.7	2.578	1.650	11.3	21.3	19 W	12*	2*
8 19	8 41.53	+25 46.5	2.559	1.658	12.9	21.4	21 W	15*	3*
8 29	9 11.53	+24 34.7	2.540	1.671	14.3	21.4	24 W	18*	4*
347584 2001 EH_{18}									
5 1	3 33.31	+ 3 34.0	3.983	3.046	6.1	21.5	19 E	—	12*
5 11	3 46.22	+ 5 3.7	3.980	3.018	5.1	21.4	15 E	—	7*
5 21	3 59.49	+ 6 27.6	3.962	2.989	4.6	21.4	14 E	—	2*
5 31	4 13.06	+ 7 45.5	3.927	2.959	5.1	21.3	15 W	—	4*
6 10	4 26.88	+ 8 57.5	3.877	2.928	6.1	21.4	18 W	—	10*
6 20	4 40.90	+10 3.6	3.812	2.896	7.6	21.4	22 W	—	16*
6 30	4 55.06	+11 3.9	3.732	2.864	9.3	21.4	27 W	—	21*
7 10	5 9.30	+11 58.7	3.638	2.831	11.1	21.4	32 W	7*	25*
7 20	5 23.56	+12 48.4	3.530	2.797	12.9	21.3	38 W	13*	29*
7 30	5 37.77	+13 33.5	3.410	2.762	14.6	21.3	43 W	21*	33*
8 9	5 51.84	+14 14.6	3.278	2.726	16.4	21.2	49 W	28*	35*
8 19	6 5.70	+14 52.6	3.135	2.690	18.0	21.2	55 W	35*	38*
8 29	6 19.24	+15 28.8	2.982	2.653	19.5	21.1	61 W	42*	40*
9 8	6 32.33	+16 4.6	2.822	2.615	20.9	21.0	68 W	48*	41*
9 18	6 44.84	+16 42.0	2.655	2.577	22.1	20.8	75 W	54*	43*
9 28	6 56.58	+17 23.3	2.483	2.538	23.0	20.7	82 W	59*	44*
10 8	7 7.36	+18 11.7	2.309	2.498	23.6	20.5	89 W	63*	44*
10 18	7 16.90	+19 10.9	2.135	2.458	23.7	20.3	97 W	64	44*
10 28	7 24.87	+20 25.4	1.963	2.417	23.4	20.1	105 W	65	44*
11 7	7 30.87	+22 0.5	1.797	2.376	22.4	19.8	114 W	67	42
11 12	7 32.97	+22 57.5	1.717	2.355	21.7	19.7	118 W	68	41
11 17	7 34.37	+24 1.8	1.641	2.335	20.7	19.5	123 W	69	40
11 22	7 35.00	+25 13.8	1.568	2.314	19.6	19.4	128 W	70	39
11 27	7 34.77	+26 34.1	1.499	2.293	18.2	19.2	134 W	72	37
12 7	7 31.43	+29 39.7	1.376	2.251	14.8	18.9	144 W	75	34
12 17	7 23.74	+33 14.8	1.278	2.209	10.8	18.5	155 W	78	31
12 27	7 11.52	+37 7.0	1.208	2.167	7.7	18.2	163 W	82	27

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
347584 2001 EH_{18} *(continuation)*									
1 1	7 3.87	+39 3.3	1.185	2.146	7.5	18.2	164 W	84	25
1 6	6 55.40	+40 55.7	1.170	2.126	8.5	18.2	161 E	86	23
1 11	6 46.35	+42 41.3	1.163	2.105	10.4	18.2	157 E	88	21
1 16	6 37.08	+44 17.7	1.163	2.084	12.8	18.3	152 E	89	20
376788 2000 RV_{37}									
5 1	3 49.12	+27 21.1	1.672	0.821	26.6	21.3	21 E	15*	4*
5 6	4 11.90	+27 42.9	1.619	0.773	28.5	21.1	21 E	15*	5*
5 11	4 35.92	+27 47.7	1.561	0.725	30.9	21.0	22 E	14*	6*
5 16	5 1.10	+27 31.7	1.499	0.679	34.1	20.9	22 E	14*	8*
5 21	5 27.25	+26 51.4	1.431	0.635	38.2	20.7	23 E	14*	10*
5 26	5 54.06	+25 43.0	1.358	0.595	43.5	20.6	24 E	13*	12*
5 31	6 21.11	+24 3.9	1.280	0.562	50.0	20.5	25 E	12*	14*
6 5	6 47.85	+21 53.0	1.196	0.538	57.6	20.5	27 E	11*	17*
6 10	7 13.75	+19 11.7	1.108	0.526	66.1	20.6	28 E	10*	20*
6 15	7 38.37	+16 4.0	1.018	0.527	74.8	20.7	30 E	8*	23*
6 20	8 1.57	+12 35.1	0.928	0.541	83.1	20.8	32 E	5*	25*
6 25	8 23.57	+ 8 49.9	0.841	0.566	90.4	21.0	34 E	3*	28*
6 30	8 44.85	+ 4 51.6	0.759	0.600	96.1	21.1	36 E	1*	30*
7 5	9 6.16	+ 0 40.9	0.684	0.641	100.2	21.2	38 E	—	32*
7 10	9 28.42	− 3 42.9	0.617	0.685	102.5	21.3	41 E	—	35*
7 15	9 52.65	− 8 21.4	0.558	0.732	103.2	21.2	45 E	—	37*
7 20	10 20.02	−13 14.9	0.507	0.780	102.2	21.1	49 E	—	41*
7 25	10 51.74	−18 19.2	0.466	0.828	99.6	20.9	54 E	—	45*
7 30	11 28.88	−23 22.4	0.436	0.876	95.6	20.7	59 E	—	49*
8 4	12 11.96	−28 2.3	0.417	0.922	90.4	20.5	65 E	—	55*
8 9	13 0.27	−31 49.6	0.411	0.968	84.5	20.4	72 E	—	61*
8 11	13 20.57	−32 59.8	0.412	0.985	82.0	20.3	74 E	—	63*
8 13	13 41.10	−33 56.5	0.414	1.003	79.6	20.3	77 E	—	65*
8 15	14 1.63	−34 39.3	0.419	1.020	77.2	20.2	79 E	—	67*
8 17	14 21.90	−35 8.4	0.426	1.037	74.8	20.2	81 E	—	70*
8 19	14 41.70	−35 24.7	0.434	1.053	72.6	20.2	83 E	2*	72*
8 21	15 0.84	−35 29.2	0.445	1.070	70.4	20.3	85 E	3*	73*
8 23	15 19.16	−35 23.3	0.456	1.086	68.4	20.3	87 E	4*	75*
8 25	15 36.58	−35 8.6	0.469	1.102	66.5	20.3	88 E	5*	77*
8 27	15 53.04	−34 46.6	0.483	1.117	64.7	20.4	90 E	7*	78*
8 29	16 8.52	−34 18.9	0.499	1.133	63.1	20.4	91 E	8*	79*
8 31	16 23.04	−33 46.6	0.516	1.148	61.5	20.5	92 E	9*	81*
9 2	16 36.64	−33 11.0	0.533	1.162	60.1	20.5	93 E	10*	82*
9 4	16 49.36	−32 33.1	0.552	1.177	58.8	20.6	93 E	11*	83*
9 6	17 1.27	−31 53.6	0.571	1.191	57.6	20.6	94 E	12*	84*
9 8	17 12.43	−31 13.2	0.591	1.205	56.5	20.7	94 E	13*	84*
9 10	17 22.90	−30 32.4	0.612	1.218	55.5	20.8	94 E	14*	85*
9 12	17 32.75	−29 51.6	0.633	1.231	54.6	20.8	95 E	15*	86*
9 14	17 42.04	−29 11.2	0.655	1.244	53.7	20.9	95 E	15*	87*
9 16	17 50.82	−28 31.2	0.678	1.257	52.9	21.0	95 E	16*	87*
9 18	17 59.14	−27 51.9	0.701	1.270	52.1	21.1	95 E	17*	88*
9 23	18 18.23	−26 17.3	0.760	1.299	50.4	21.2	94 E	19*	88*
9 28	18 35.32	−24 48.0	0.821	1.328	48.9	21.4	93 E	20*	87*
10 3	18 50.85	−23 24.2	0.883	1.354	47.6	21.6	92 E	22*	85*
10 8	19 5.17	−22 5.1	0.947	1.379	46.4	21.7	90 E	23*	82*
310560 2001 QL_{142}									
5 1	3 56.65	+ 3 30.8	2.405	1.534	15.2	21.5	23 E	—	17*
5 11	4 20.60	+ 4 55.6	2.407	1.509	14.0	21.4	21 E	—	15*
5 21	4 45.27	+ 6 10.8	2.398	1.478	12.9	21.3	19 E	—	12*
5 31	5 10.77	+ 7 15.5	2.377	1.441	12.1	21.2	17 E	—	9*
6 10	5 37.24	+ 8 9.1	2.346	1.397	11.5	21.1	16 E	—	6*
6 20	6 4.82	+ 8 50.9	2.305	1.347	11.1	20.9	15 E	—	3*
6 30	6 33.69	+ 9 20.0	2.254	1.290	10.9	20.8	14 W	—	1*
7 10	7 4.04	+ 9 35.7	2.195	1.226	10.8	20.6	13 W	—	3*
7 20	7 36.17	+ 9 37.3	2.128	1.155	10.8	20.4	12 W	—	4*
7 30	8 10.39	+ 9 23.7	2.054	1.077	10.6	20.2	11 W	—	4*
8 9	8 47.11	+ 8 54.1	1.975	0.992	10.2	19.9	10 W	—	3*
8 19	9 26.90	+ 8 7.2	1.892	0.901	9.1	19.6	8 W	—	2*
8 29	10 10.41	+ 7 1.2	1.805	0.806	6.9	19.1	5 W	—	—
9 8	10 58.43	+ 5 33.3	1.715	0.709	2.9	18.5	2 W	—	—
9 13	11 24.39	+ 4 39.7	1.669	0.663	1.3	18.2	1 W	—	—
9 18	11 51.78	+ 3 38.5	1.622	0.620	4.7	18.2	3 E	—	—
9 23	12 20.63	+ 2 28.7	1.573	0.583	9.7	18.2	6 E	—	—
9 28	12 50.89	+ 1 8.7	1.522	0.553	15.9	18.3	9 E	2*	—
10 3	13 22.44	− 0 22.8	1.470	0.533	23.0	18.4	12 E	5*	3*
10 8	13 55.05	− 2 6.8	1.416	0.526	30.5	18.5	15 E	7*	6*
10 13	14 28.42	− 4 3.6	1.363	0.532	37.8	18.6	19 E	10*	9*
10 18	15 2.29	− 6 11.5	1.314	0.550	44.2	18.8	23 E	12*	13*
10 23	15 36.43	− 8 27.0	1.270	0.579	49.3	19.0	26 E	14*	16*
10 28	16 10.68	−10 45.4	1.235	0.616	52.9	19.1	30 E	15*	20*
11 2	16 44.88	−13 0.8	1.211	0.658	55.0	19.3	33 E	17*	23*
11 7	17 18.86	−15 7.1	1.197	0.704	55.8	19.5	36 E	18*	26*
11 12	17 52.35	−16 59.1	1.195	0.752	55.7	19.6	39 E	18*	29*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
310560 2001 QL_{142} *(continuation)*									
11 17	18 25.08	−18 32.9	1.203	0.800	54.8	19.7	41 E	19*	32*
11 22	18 56.74	−19 46.1	1.221	0.848	53.4	19.8	44 E	19*	34*
11 27	19 27.07	−20 38.4	1.248	0.895	51.7	19.9	45 E	20*	36*
12 2	19 55.86	−21 10.7	1.282	0.942	49.8	20.1	47 E	20*	37*
12 7	20 23.03	−21 24.8	1.322	0.987	47.9	20.2	48 E	20*	38*
12 12	20 48.54	−21 23.1	1.367	1.030	45.9	20.3	49 E	21*	38*
12 17	21 12.43	−21 8.0	1.416	1.072	44.0	20.4	49 E	21*	38*
12 22	21 34.79	−20 42.0	1.468	1.112	42.1	20.5	49 E	22*	38*
12 27	21 55.73	−20 7.0	1.522	1.150	40.3	20.6	49 E	22*	38*
1 1	22 15.37	−19 25.0	1.577	1.187	38.5	20.7	49 E	22*	37*
1 6	22 33.86	−18 37.4	1.633	1.222	36.9	20.8	48 E	23*	37*
1 11	22 51.32	−17 45.4	1.690	1.255	35.3	20.9	47 E	23*	36*
1 16	23 7.89	−16 50.1	1.746	1.286	33.7	21.0	47 E	23*	35*
162186 1999 OP_3									
5 1	4 19.87	+39 56.9	4.285	3.496	9.3	21.5	34 E	28*	2*
5 11	4 34.69	+39 50.7	4.308	3.452	8.0	21.4	28 E	22*	—
5 21	4 50.03	+39 44.7	4.313	3.406	6.7	21.3	23 E	17*	—
5 31	5 5.81	+39 38.1	4.301	3.360	5.7	21.3	19 E	12*	—
6 10	5 21.94	+39 29.8	4.272	3.312	5.0	21.2	17 E	8*	—
6 20	5 38.36	+39 19.2	4.225	3.262	5.0	21.1	16 W	9*	—
6 30	5 54.98	+39 5.7	4.162	3.212	5.7	21.1	18 W	12*	—
7 10	6 11.73	+38 48.8	4.081	3.160	6.8	21.1	22 W	16*	—
7 20	6 28.55	+38 28.2	3.985	3.106	8.3	21.0	26 W	20*	2*
7 30	6 45.34	+38 3.7	3.873	3.052	10.0	21.0	31 W	25*	5*
8 9	7 2.04	+37 35.1	3.747	2.996	11.7	21.0	37 W	30*	8*
8 19	7 18.55	+37 2.6	3.607	2.938	13.4	20.9	42 W	36*	10*
8 29	7 34.80	+36 26.2	3.454	2.879	15.1	20.8	48 W	42*	13*
9 8	7 50.69	+35 46.3	3.290	2.819	16.8	20.7	54 W	48*	15*
9 18	8 6.14	+35 3.2	3.116	2.757	18.4	20.6	60 W	54*	17*
9 28	8 21.00	+34 17.4	2.934	2.693	19.9	20.5	66 W	60*	20*
10 8	8 35.18	+33 29.6	2.744	2.628	21.3	20.3	73 W	66*	22*
10 18	8 48.50	+32 40.4	2.549	2.562	22.5	20.2	79 W	71*	24*
10 28	9 0.77	+31 50.6	2.351	2.494	23.4	19.9	86 W	75*	27*
11 7	9 11.74	+31 0.9	2.151	2.425	24.1	19.7	94 W	76	30*
11 17	9 21.10	+30 11.9	1.952	2.354	24.3	19.4	101 W	75	32*
11 27	9 28.40	+29 24.0	1.757	2.281	24.1	19.1	109 W	74	34*
12 2	9 31.12	+29 0.4	1.661	2.245	23.8	19.0	113 W	74	35*
12 7	9 33.11	+28 37.0	1.568	2.208	23.2	18.8	118 W	74	35
12 12	9 34.27	+28 13.5	1.476	2.170	22.5	18.6	122 W	73	36
12 17	9 34.50	+27 49.6	1.388	2.132	21.6	18.4	127 W	73	36
12 22	9 33.69	+27 24.9	1.302	2.094	20.3	18.2	132 W	72	37
12 27	9 31.71	+26 58.7	1.220	2.056	18.9	18.0	137 W	72	37
1 1	9 28.46	+26 29.9	1.143	2.017	17.0	17.7	143 W	71	38
1 6	9 23.83	+25 57.5	1.070	1.978	14.9	17.5	149 W	71	38
1 11	9 17.70	+25 20.1	1.002	1.939	12.4	17.2	155 W	70	39
1 16	9 10.06	+24 35.8	0.941	1.899	9.5	16.9	161 W	70	39
481542 2007 RF_5									
5 1	4 30.55	+42 18.8	1.851	1.210	30.1	21.5	37 E	31*	2*
5 6	4 50.76	+42 29.1	1.837	1.183	30.2	21.4	36 E	30*	3*
5 11	5 11.57	+42 27.5	1.821	1.155	30.3	21.3	35 E	29*	3*
5 16	5 32.88	+42 12.7	1.803	1.126	30.6	21.3	34 E	28*	4*
5 21	5 54.57	+41 43.6	1.783	1.095	30.8	21.2	34 E	27*	5*
5 26	6 16.50	+40 58.9	1.760	1.064	31.2	21.1	33 E	27*	6*
5 31	6 38.51	+39 57.7	1.735	1.031	31.7	21.0	32 E	25*	7*
6 5	7 0.45	+38 39.0	1.709	0.998	32.2	20.9	32 E	24*	8*
6 10	7 22.16	+37 2.1	1.681	0.964	32.8	20.8	31 E	23*	10*
6 15	7 43.51	+35 6.5	1.651	0.930	33.6	20.7	30 E	22*	11*
6 20	8 4.40	+32 51.9	1.619	0.895	34.5	20.6	30 E	20*	13*
6 25	8 24.74	+30 18.3	1.585	0.861	35.5	20.5	29 E	18*	14*
6 30	8 44.45	+27 25.6	1.550	0.827	36.8	20.4	29 E	16*	16*
7 10	9 21.88	+20 44.9	1.474	0.763	40.1	20.2	29 E	12*	19*
7 20	9 56.68	+12 55.7	1.390	0.709	44.7	20.1	29 E	7*	22*
7 30	10 29.21	+4 9.3	1.296	0.671	50.8	20.0	31 E	2*	25*
8 4	10 44.84	−0 30.0	1.246	0.660	54.3	20.0	32 E	—	26*
8 9	11 0.27	−5 16.4	1.194	0.656	58.1	20.0	33 E	—	27*
8 14	11 15.72	−10 7.3	1.141	0.659	61.8	20.0	35 E	—	27*
8 19	11 31.52	−15 0.0	1.088	0.667	65.4	20.0	37 E	—	28*
8 24	11 48.08	−19 52.4	1.034	0.682	68.7	20.1	39 E	—	28*
8 29	12 5.91	−24 42.1	0.982	0.702	71.5	20.1	41 E	—	29*
9 3	12 25.68	−29 27.0	0.931	0.726	73.8	20.1	44 E	—	30*
9 8	12 48.21	−34 3.6	0.884	0.754	75.4	20.2	46 E	—	31*
9 10	12 58.21	−35 51.0	0.866	0.766	75.9	20.2	48 E	—	32*
9 12	13 8.87	−37 35.8	0.849	0.779	76.3	20.2	49 E	—	33*
9 14	13 20.28	−39 17.6	0.833	0.791	76.5	20.2	50 E	—	33*
9 16	13 32.50	−40 55.7	0.817	0.804	76.7	20.2	51 E	—	34*
9 18	13 45.60	−42 29.3	0.802	0.817	76.7	20.2	52 E	—	35*
9 20	13 59.63	−43 57.5	0.789	0.831	76.6	20.2	54 E	—	36*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
481542 2007 RF_5 *(continuation)*									
9 22	14 14.65	−45 19.4	0.776	0.844	76.4	20.2	55 E	—	37*
9 24	14 30.67	−46 33.7	0.765	0.858	76.2	20.1	56 E	—	39*
9 26	14 47.70	−47 39.3	0.754	0.872	75.8	20.1	57 E	—	40*
9 28	15 5.68	−48 34.9	0.745	0.885	75.3	20.1	59 E	—	41*
9 30	15 24.52	−49 19.3	0.737	0.899	74.7	20.1	60 E	—	43*
10 2	15 44.08	−49 51.5	0.730	0.913	74.1	20.1	61 E	—	45*
10 4	16 4.19	−50 10.5	0.725	0.927	73.4	20.1	63 E	—	46*
10 6	16 24.60	−50 15.8	0.721	0.941	72.6	20.1	64 E	—	48*
10 8	16 45.07	−50 7.2	0.719	0.954	71.8	20.1	65 E	—	50*
10 10	17 5.34	−49 44.8	0.718	0.968	70.9	20.1	66 E	—	52*
10 12	17 25.17	−49 9.2	0.718	0.982	69.9	20.1	68 E	—	54*
10 14	17 44.37	−48 21.4	0.720	0.995	69.0	20.1	69 E	—	55*
10 16	18 2.77	−47 22.4	0.724	1.009	68.0	20.1	70 E	—	57*
10 18	18 20.26	−46 13.7	0.729	1.022	67.0	20.1	71 E	—	59*
10 20	18 36.77	−44 56.7	0.735	1.035	65.9	20.1	72 E	—	61*
10 22	18 52.29	−43 32.9	0.743	1.048	64.9	20.2	73 E	1*	63*
10 24	19 6.83	−42 3.7	0.752	1.061	63.9	20.2	73 E	3*	64*
10 26	19 20.41	−40 30.4	0.762	1.074	62.9	20.2	74 E	4*	66*
10 28	19 33.09	−38 54.2	0.773	1.086	61.9	20.2	75 E	6*	67*
10 30	19 44.93	−37 16.1	0.786	1.099	60.9	20.3	75 E	8*	68*
11 1	19 56.00	−35 37.1	0.800	1.111	60.0	20.3	76 E	9*	69*
11 3	20 6.35	−33 57.9	0.815	1.123	59.0	20.3	76 E	11*	70*
11 5	20 16.06	−32 19.1	0.831	1.135	58.1	20.4	77 E	13	70*
11 7	20 25.18	−30 41.2	0.847	1.147	57.3	20.4	77 E	14	71*
11 12	20 45.79	−26 43.1	0.893	1.175	55.2	20.5	77 E	18	70*
11 17	21 3.86	−22 57.3	0.942	1.203	53.2	20.6	77 E	22	69*
11 22	21 19.98	−19 25.4	0.996	1.228	51.4	20.7	77 E	26	66*
11 27	21 34.59	−16 7.5	1.052	1.253	49.8	20.9	76 E	29	63*
12 2	21 48.04	−13 3.0	1.109	1.277	48.2	21.0	75 E	32	59*
12 7	22 0.59	−10 10.9	1.168	1.299	46.7	21.1	74 E	35	55*
12 12	22 12.45	− 7 29.7	1.228	1.319	45.3	21.2	72 E	38*	51*
12 17	22 23.78	− 4 58.3	1.289	1.339	43.9	21.3	71 E	40*	48*
12 22	22 34.71	− 2 35.4	1.349	1.357	42.6	21.4	69 E	42*	44*
12 27	22 45.32	− 0 19.8	1.408	1.374	41.4	21.5	67 E	44*	40*
20429 1998 YN_1									
5 1	4 37.35	+24 6.0	2.362	1.578	18.9	21.4	30 E	21*	15*
5 11	5 3.24	+25 1.1	2.346	1.514	17.5	21.3	27 E	17*	13*
5 21	5 30.97	+25 41.3	2.318	1.447	16.2	21.1	23 E	13*	11*
5 31	6 0.58	+26 3.0	2.280	1.378	15.0	20.9	21 E	10*	9*
6 10	6 32.10	+26 2.1	2.233	1.307	14.0	20.7	18 E	8*	8*
6 20	7 5.52	+25 34.0	2.178	1.235	13.3	20.5	16 E	6*	7*
6 30	7 40.79	+24 33.9	2.117	1.163	12.9	20.3	15 E	4*	6*
7 10	8 17.75	+22 56.9	2.051	1.092	12.9	20.1	14 E	3*	6*
7 20	8 56.27	+20 38.9	1.983	1.024	13.5	19.9	14 E	3*	6*
7 30	9 36.14	+17 36.8	1.915	0.961	14.7	19.7	14 E	2*	7*
8 9	10 17.17	+13 49.9	1.849	0.908	16.7	19.6	15 E	2*	8*
8 19	10 59.24	+ 9 20.8	1.788	0.866	19.3	19.5	16 E	2*	10*
8 24	11 20.64	+ 6 52.5	1.760	0.851	20.8	19.5	17 E	3*	11*
8 29	11 42.28	+ 4 16.8	1.735	0.841	22.4	19.5	19 E	3*	12*
9 3	12 4.16	+ 1 35.3	1.712	0.835	24.1	19.5	20 E	3*	14*
9 8	12 26.28	− 1 9.9	1.692	0.834	25.7	19.5	21 E	3*	15*
9 13	12 48.68	− 3 56.7	1.676	0.838	27.2	19.6	22 E	3*	16*
9 18	13 11.35	− 6 42.6	1.664	0.847	28.5	19.6	24 E	3*	18*
9 23	13 34.30	− 9 25.1	1.656	0.861	29.7	19.7	25 E	4*	19*
9 28	13 57.51	−12 1.8	1.653	0.878	30.6	19.7	27 E	4*	20*
10 3	14 20.98	−14 30.2	1.654	0.900	31.2	19.8	28 E	4*	22*
10 8	14 44.67	−16 48.2	1.661	0.924	31.6	19.9	29 E	5*	23*
10 13	15 8.53	−18 53.9	1.672	0.952	31.7	20.0	30 E	5*	24*
10 18	15 32.47	−20 45.9	1.689	0.981	31.6	20.0	31 E	5*	25*
10 23	15 56.42	−22 23.0	1.710	1.013	31.3	20.1	32 E	6*	26*
10 28	16 20.24	−23 44.7	1.736	1.046	30.8	20.2	33 E	6*	26*
11 2	16 43.82	−24 50.6	1.766	1.080	30.1	20.3	33 E	7*	27*
11 7	17 7.06	−25 41.2	1.799	1.115	29.3	20.4	33 E	7*	27*
11 12	17 29.83	−26 16.9	1.837	1.151	28.4	20.5	34 E	8*	27*
11 17	17 52.04	−26 38.6	1.877	1.187	27.4	20.6	34 E	8*	27*
11 22	18 13.61	−26 47.4	1.921	1.223	26.4	20.6	33 E	9*	27*
11 27	18 34.48	−26 44.4	1.967	1.259	25.2	20.7	33 E	9*	26*
12 2	18 54.59	−26 31.0	2.014	1.295	24.1	20.8	32 E	9*	25*
12 7	19 13.94	−26 8.2	2.063	1.331	22.9	20.9	32 E	10*	24*
12 12	19 32.53	−25 37.4	2.114	1.366	21.7	21.0	31 E	10*	23*
12 17	19 50.36	−24 59.5	2.165	1.401	20.5	21.0	30 E	10*	22*
12 22	20 7.46	−24 15.7	2.217	1.435	19.3	21.1	29 E	11*	20*
12 27	20 23.85	−23 26.9	2.269	1.469	18.0	21.2	28 E	11*	19*
1 1	20 39.57	−22 33.9	2.321	1.503	16.8	21.2	26 E	10*	17*
1 6	20 54.66	−21 37.4	2.372	1.535	15.6	21.3	25 E	10*	16*
1 11	21 9.16	−20 38.0	2.422	1.567	14.3	21.3	23 E	10*	14*
1 16	21 23.11	−19 36.3	2.472	1.599	13.1	21.3	22 E	9*	13*

438908 2009 *XO*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	5 57.49	+22 12.9	0.053	0.973	129.0	19.7	49 E	34*	29*
5 2	6 14.44	+21 50.5	0.047	0.980	126.3	19.2	52 E	35*	31*
5 3	6 36.53	+21 11.2	0.040	0.986	122.3	18.5	56 E	38*	34*
5 4	7 5.94	+20 1.3	0.034	0.993	116.5	17.8	62 E	41*	39*
5 5	7 45.53	+17 56.5	0.029	0.999	108.0	16.9	70 E	46*	44*
5 6	8 37.91	+14 19.7	0.025	1.006	96.1	16.0	82 E	50*	50*
5 7	9 42.34	+ 8 43.8	0.023	1.013	80.5	15.1	98 E	51*	55
5 8	10 51.22	+ 1 48.4	0.023	1.019	63.1	14.6	116 E	47	62
5 9	11 53.44	− 4 39.3	0.025	1.026	47.3	14.3	132 E	40	69
5 10	12 42.91	− 9 30.1	0.029	1.033	35.2	14.3	144 E	35	74
5 11	13 19.96	−12 46.7	0.034	1.041	26.6	14.5	152 E	32	77
5 12	13 47.43	−14 57.3	0.040	1.048	20.7	14.6	159 E	30	79
5 13	14 8.05	−16 25.8	0.047	1.055	16.5	14.8	163 E	29	80
5 14	14 23.88	−17 27.6	0.053	1.062	13.6	15.0	166 E	28	81
5 15	14 36.29	−18 12.3	0.060	1.070	11.6	15.2	168 E	27	82
5 16	14 46.24	−18 45.6	0.067	1.077	10.1	15.4	169 E	26	83
5 17	14 54.35	−19 11.0	0.074	1.085	9.1	15.6	170 E	26	83
5 18	15 1.09	−19 31.0	0.081	1.092	8.4	15.8	171 E	25	84
5 19	15 6.76	−19 46.9	0.089	1.100	8.0	16.0	171 E	25	84
5 20	15 11.59	−19 59.9	0.096	1.107	7.8	16.2	171 E	25	84
5 21	15 15.76	−20 10.6	0.104	1.115	7.7	16.4	172 E	25	84
5 22	15 19.39	−20 19.5	0.111	1.123	7.7	16.5	171 E	25	84
5 23	15 22.59	−20 27.1	0.119	1.130	7.8	16.7	171 E	25	84
5 24	15 25.43	−20 33.6	0.127	1.138	8.0	16.9	171 E	24	85
5 25	15 27.96	−20 39.2	0.135	1.146	8.2	17.0	171 E	24	85
5 26	15 30.25	−20 44.0	0.143	1.154	8.5	17.2	170 E	24	85
5 27	15 32.32	−20 48.4	0.151	1.162	8.9	17.3	170 E	24	85
5 28	15 34.21	−20 52.2	0.159	1.170	9.3	17.5	169 E	24	85
5 29	15 35.95	−20 55.6	0.167	1.178	9.7	17.6	169 E	24	85
5 30	15 37.56	−20 58.7	0.175	1.186	10.1	17.7	168 E	24	85
5 31	15 39.06	−21 1.6	0.183	1.194	10.5	17.9	168 E	24	85
6 2	15 41.78	−21 6.6	0.200	1.210	11.4	18.1	166 E	24	85
6 4	15 44.20	−21 10.9	0.217	1.226	12.4	18.4	165 E	24	85
6 6	15 46.40	−21 14.7	0.235	1.242	13.3	18.6	164 E	24	85
6 8	15 48.44	−21 18.2	0.253	1.258	14.3	18.8	162 E	24	85
6 10	15 50.35	−21 21.5	0.271	1.274	15.3	19.0	161 E	24	85
6 15	15 54.79	−21 29.0	0.319	1.315	17.6	19.5	157 E	24	85
6 20	15 59.04	−21 36.4	0.369	1.356	19.8	20.0	153 E	23	86
6 25	16 3.34	−21 44.1	0.422	1.396	21.7	20.4	149 E	23	86
6 30	16 7.83	−21 52.4	0.478	1.437	23.5	20.8	146 E	23	86
7 5	16 12.56	−22 1.3	0.536	1.477	25.0	21.1	142 E	23	86
7 10	16 17.56	−22 10.7	0.597	1.516	26.4	21.5	138 E	23	86

137126 1999 *CF*$_9$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	6 41.66	+21 23.5	1.683	1.447	36.6	21.4	59 E	41*	36*
5 11	7 2.52	+21 27.2	1.674	1.356	37.1	21.3	54 E	35*	34*
5 21	7 25.81	+21 16.6	1.650	1.261	37.8	21.1	50 E	30*	33*
5 31	7 51.56	+20 48.3	1.608	1.165	38.9	20.9	46 E	25*	32*
6 10	8 19.82	+19 59.0	1.549	1.068	40.7	20.7	43 E	21*	31*
6 20	8 50.71	+18 44.7	1.473	0.973	43.4	20.5	41 E	18*	30*
6 30	9 24.33	+17 0.9	1.380	0.883	47.4	20.2	40 E	16*	30*
7 5	9 42.18	+15 56.8	1.327	0.842	50.0	20.1	39 E	15*	30*
7 10	10 0.74	+14 43.8	1.270	0.804	53.1	20.0	39 E	15*	30*
7 15	10 20.00	+13 21.7	1.209	0.771	56.7	19.9	39 E	14*	31*
7 20	10 39.96	+11 49.9	1.145	0.744	60.7	19.8	40 E	14*	31*
7 25	11 0.63	+10 8.4	1.079	0.724	65.1	19.8	40 E	14*	32*
7 30	11 22.01	+ 8 16.8	1.011	0.712	69.7	19.7	41 E	14*	33*
8 4	11 44.17	+ 6 14.9	0.943	0.709	74.3	19.7	42 E	14*	35*
8 9	12 7.24	+ 4 2.1	0.876	0.714	78.5	19.7	44 E	15*	36*
8 14	12 31.45	+ 1 37.5	0.812	0.728	82.1	19.7	45 E	15*	38*
8 19	12 57.13	− 0 59.7	0.751	0.749	84.8	19.7	48 E	16*	40*
8 29	13 54.58	− 6 52.5	0.649	0.812	86.7	19.7	53 E	17*	46*
9 8	15 2.68	−13 16.3	0.582	0.892	83.4	19.5	62 E	19*	55*
9 18	16 21.03	−19 0.6	0.561	0.982	75.8	19.4	71 E	20*	65*
9 20	16 37.37	−19 55.8	0.563	1.001	74.0	19.3	73 E	20*	67*
9 22	16 53.73	−20 44.9	0.566	1.020	72.2	19.3	75 E	21*	69*
9 24	17 10.00	−21 27.5	0.572	1.039	70.3	19.3	77 E	21*	71*
9 26	17 26.09	−22 3.4	0.580	1.059	68.4	19.3	79 E	21*	73*
9 28	17 41.91	−22 32.7	0.589	1.078	66.6	19.4	81 E	21*	74*
10 3	18 19.73	−23 17.8	0.620	1.126	62.2	19.4	85 E	21*	78*
10 8	18 54.44	−23 28.1	0.662	1.175	58.2	19.5	88 E	21*	81*
10 13	19 25.67	−23 11.6	0.711	1.223	54.7	19.7	90 E	22	83*
10 18	19 53.48	−22 36.0	0.768	1.271	51.6	19.9	91 E	22	83*
10 23	20 18.19	−21 47.8	0.830	1.318	49.0	20.0	92 E	23	83*
10 28	20 40.18	−20 51.5	0.898	1.365	46.6	20.2	92 E	24	83*
11 2	20 59.86	−19 50.5	0.970	1.411	44.6	20.4	92 E	25	81*
11 7	21 17.63	−18 46.7	1.046	1.457	42.8	20.6	91 E	26	80*
11 12	21 33.81	−17 41.6	1.125	1.501	41.2	20.8	90 E	27	78*

137126 1999 *CF*$_9$ *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
11 17	21 48.68	−16 36.0	1.206	1.545	39.8	20.9	89 E	28	75*
11 22	22 2.48	−15 30.3	1.290	1.588	38.4	21.1	87 E	29	73*
11 27	22 15.39	−14 25.0	1.375	1.631	37.1	21.3	86 E	31	70*
12 2	22 27.54	−13 20.1	1.462	1.672	35.9	21.4	84 E	32	67*

403775 2011 *HS*$_4$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	9 37.11	+43 58.5	0.209	1.031	77.8	20.4	91 E	83*	20
5 2	9 52.31	+42 2.6	0.216	1.042	75.0	20.4	93 E	84*	22
5 3	10 5.65	+40 8.2	0.224	1.052	72.5	20.4	95 E	84*	24
5 4	10 17.41	+38 16.9	0.233	1.063	70.2	20.4	97 E	83*	26
5 5	10 27.81	+36 29.8	0.242	1.073	68.1	20.5	99 E	81*	28
5 6	10 37.06	+34 47.5	0.251	1.084	66.2	20.5	101 E	80*	29
5 7	10 45.32	+33 10.3	0.261	1.094	64.5	20.6	102 E	78	31
5 8	10 52.74	+31 38.2	0.272	1.104	62.9	20.6	103 E	77	32
5 9	10 59.44	+30 11.3	0.283	1.114	61.5	20.7	104 E	75	34
5 10	11 5.52	+28 49.2	0.294	1.123	60.2	20.7	105 E	74	35
5 11	11 11.07	+27 31.9	0.305	1.133	59.0	20.8	106 E	73	36
5 13	11 20.85	+25 10.0	0.328	1.152	56.9	20.9	107 E	70	39
5 15	11 29.23	+23 3.5	0.352	1.170	55.1	21.1	108 E	68	41
5 17	11 36.53	+21 10.1	0.377	1.188	53.7	21.2	109 E	66*	43
5 19	11 42.98	+19 28.1	0.402	1.205	52.5	21.4	109 E	64*	45
5 21	11 48.77	+17 55.6	0.428	1.222	51.4	21.5	109 E	63*	46

419880 2011 *AH*$_{37}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	15 25.66	− 7 57.0	2.945	3.929	3.7	25.2	165 W	37	72
5 11	15 16.59	− 7 25.6	2.958	3.956	2.7	25.1	170 W	38	71
5 21	15 7.67	− 7 0.0	3.003	3.982	4.3	25.3	163 E	38	71
5 31	14 59.48	− 6 42.1	3.077	4.006	6.6	25.5	153 E	38	71
6 10	14 52.51	− 6 33.0	3.178	4.030	8.9	25.6	142 E	38	71

410088 2007 *EJ*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	15 27.64	−16 32.3	2.858	3.846	3.4	23.5	167 W	28	81
5 11	15 18.17	−16 5.7	2.859	3.868	0.6	23.3	178 W	29	80
5 21	15 8.79	−15 39.0	2.892	3.889	2.9	23.6	169 E	29	80
5 31	15 0.15	−15 14.5	2.955	3.910	5.8	23.8	157 E	30	79
6 10	14 52.79	−14 54.6	3.047	3.928	8.3	24.0	146 E	30	79

497096 2004 *BW*$_1$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	15 28.57	−15 46.4	1.880	2.870	4.6	23.1	167 W	29	80
5 11	15 17.39	−15 10.9	1.818	2.827	1.1	22.7	177 W	30	79
5 21	15 5.59	−14 33.9	1.786	2.783	4.5	22.9	168 E	30	79
5 31	14 54.30	−13 59.3	1.782	2.737	8.9	23.0	155 E	31	78
6 10	14 44.56	−13 31.7	1.805	2.690	13.0	23.2	144 E	31	78

364877 2008 *EM*$_9$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	15 28.87	−18 40.2	2.639	3.626	3.8	22.6	166 W	26	83
5 11	15 17.06	−17 48.6	2.618	3.628	0.3	22.3	179 W	27	82
5 21	15 5.27	−16 54.2	2.630	3.627	3.2	22.5	168 E	28	81
5 31	14 54.32	−16 0.9	2.675	3.625	6.5	22.7	156 E	29	80
6 10	14 44.87	−15 12.6	2.749	3.621	9.5	22.9	144 E	30	79

518678 2008 *UZ*$_{94}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	15 28.88	−31 38.0	2.477	3.438	6.0	22.5	159 W	13	84
5 6	15 23.26	−31 4.1	2.455	3.436	4.7	22.4	164 W	14	85
5 11	15 17.54	−30 26.4	2.441	3.434	3.7	22.4	167 W	15	86
5 16	15 11.83	−29 45.2	2.434	3.431	3.4	22.3	168 E	15	86
5 21	15 6.25	−29 1.2	2.436	3.428	4.0	22.4	166 E	16	87
5 26	15 0.91	−28 15.1	2.445	3.424	5.1	22.4	162 E	17	88
5 31	14 55.91	−27 27.7	2.462	3.421	6.5	22.5	157 E	18	89

509191 2006 *OC*$_5$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	15 33.21	−12 35.4	2.725	3.709	3.9	24.6	165 W	32	77
5 11	15 23.78	−11 55.2	2.677	3.683	1.8	24.4	173 W	33	76
5 21	15 14.03	−11 16.7	2.661	3.655	3.5	24.5	167 E	34	75
5 31	15 4.70	−10 42.6	2.675	3.626	6.5	24.6	156 E	34	75
6 10	14 56.44	−10 15.7	2.717	3.595	9.3	24.8	145 E	35	74

380240 2001 *UA*$_2$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	15 33.37	−14 16.5	1.954	2.940	4.9	22.3	166 W	31	78
5 6	15 28.90	−13 40.4	1.925	2.926	3.2	22.2	171 W	31	78
5 11	15 24.21	−13 3.7	1.904	2.911	1.9	22.1	174 W	32	77
5 16	15 19.41	−12 27.0	1.889	2.895	2.5	22.1	173 E	33	76
5 21	15 14.62	−11 51.0	1.883	2.880	4.3	22.2	168 E	33	76
5 26	15 9.96	−11 16.5	1.883	2.864	6.2	22.2	162 E	34	75
5 31	15 5.55	−10 44.1	1.890	2.848	8.2	22.3	156 E	34	75
6 5	15 1.50	−10 14.4	1.904	2.832	10.1	22.4	151 E	35	74
6 10	14 57.89	− 9 47.9	1.923	2.816	11.9	22.5	145 E	35	74

369057 2008 DK_5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	15 33.57	−25 59.7	1.381	2.361	7.5	24.4	162 W	19	90
5 6	15 24.76	−25 35.7	1.379	2.375	5.0	24.3	168 W	19	90
5 11	15 15.87	−25 7.4	1.384	2.389	3.1	24.2	173 W	20	89
5 16	15 7.15	−24 35.3	1.397	2.402	3.3	24.3	172 E	20	89
5 21	14 58.82	−24 0.7	1.417	2.415	5.4	24.4	167 E	21	88
5 26	14 51.09	−23 24.8	1.445	2.426	7.7	24.6	161 E	22	87
5 31	14 44.13	−22 48.9	1.480	2.437	10.1	24.7	155 E	22	87

497164 2004 RR_{324}

5 1	15 35.84	−26 1.9	2.783	3.753	4.8	23.2	162 W	19	90
5 11	15 27.11	−25 31.2	2.750	3.752	2.3	23.0	172 W	19	90
5 21	15 18.18	−24 53.4	2.746	3.749	2.4	23.0	171 E	20	89
5 31	15 9.78	−24 11.2	2.773	3.746	5.1	23.2	161 E	21	88
6 10	15 2.52	−23 28.4	2.828	3.742	7.8	23.4	150 E	22	87

368153 1995 UX_1

5 1	15 36.27	−33 22.4	2.604	3.552	6.4	22.6	157 W	12	83
5 6	15 31.20	−33 24.2	2.571	3.541	5.3	22.5	161 W	12	83
5 11	15 25.90	−33 22.6	2.546	3.529	4.5	22.5	164 W	12	83
5 16	15 20.47	−33 17.5	2.529	3.517	4.1	22.4	166 E	12	83
5 21	15 15.02	−33 9.0	2.519	3.505	4.4	22.4	165 E	12	83
5 26	15 9.69	−32 57.6	2.516	3.492	5.2	22.4	162 E	12	83
5 31	15 4.57	−32 43.5	2.520	3.480	6.3	22.5	158 E	12	83

464831 2005 AR_{20}

5 1	15 38.76	−10 23.6	1.931	2.911	5.7	22.4	163 W	35	74
5 11	15 29.00	− 9 49.4	1.920	2.922	3.1	22.3	171 W	35	74
5 21	15 19.07	− 9 21.1	1.938	2.932	4.6	22.4	167 E	36	73
5 31	15 9.92	− 9 1.9	1.985	2.942	7.9	22.6	156 E	36	73
6 10	15 2.32	− 8 53.8	2.057	2.950	11.2	22.8	146 E	36	73

357117 2001 WG_{23}

5 1	15 42.58	−40 7.5	3.570	4.477	6.3	22.8	151 W	5	76
5 6	15 37.89	−40 12.5	3.552	4.483	5.6	22.8	154 W	5	76
5 11	15 33.05	−40 14.1	3.541	4.489	5.0	22.7	157 W	5	76
5 16	15 28.13	−40 12.3	3.537	4.495	4.7	22.7	159 E	5	76
5 21	15 23.22	−40 7.3	3.540	4.500	4.6	22.7	159 E	5	76
5 26	15 18.41	−39 59.1	3.550	4.506	4.8	22.7	158 E	5	76
5 31	15 13.80	−39 48.2	3.568	4.511	5.3	22.8	156 E	5	76

505169 2012 SQ_{56}

5 1	15 43.78	−34 20.2	3.719	4.652	5.2	24.3	155 W	11	82
5 6	15 39.27	−34 24.2	3.699	4.656	4.4	24.3	159 W	11	82
5 11	15 34.61	−34 25.7	3.686	4.660	3.7	24.2	163 W	11	82
5 16	15 29.87	−34 24.5	3.680	4.663	3.3	24.2	165 E	11	82
5 21	15 25.14	−34 21.0	3.683	4.666	3.3	24.2	165 E	11	82
5 26	15 20.49	−34 15.1	3.693	4.669	3.7	24.2	163 E	11	82
5 31	15 16.00	−34 7.2	3.710	4.672	4.4	24.3	159 E	11	82

506490 2003 UO_{27}

5 1	15 46.14	−17 2.3	2.832	3.805	4.6	22.4	162 W	28	81
5 11	15 37.46	−16 52.7	2.781	3.787	1.6	22.1	174 W	28	81
5 21	15 28.31	−16 42.0	2.761	3.769	1.8	22.1	173 E	28	81
5 31	15 19.38	−16 32.0	2.772	3.750	4.8	22.3	162 E	28	81
6 10	15 11.32	−16 24.6	2.812	3.729	7.7	22.5	151 E	29	80

162011 Konnohmaru

5 1	15 46.15	−18 37.7	3.527	4.498	3.9	22.9	162 W	26	83
5 11	15 38.42	−18 15.6	3.486	4.491	1.4	22.7	174 W	27	82
5 21	15 30.39	−17 51.8	3.475	4.483	1.3	22.6	174 E	27	82
5 31	15 22.59	−17 28.0	3.495	4.475	3.8	22.8	163 E	28	81
6 10	15 15.51	−17 6.1	3.545	4.465	6.2	23.0	152 E	28	81

496872 2000 SH_5

5 1	15 48.33	−56 23.1	2.861	3.656	11.0	23.2	136 W	—	60
5 6	15 41.54	−56 35.8	2.833	3.654	10.5	23.1	139 W	—	59
5 11	15 34.37	−56 41.8	2.811	3.651	10.0	23.1	141 W	—	59
5 16	15 26.98	−56 40.8	2.795	3.648	9.7	23.1	142 E	—	59
5 21	15 19.57	−56 32.9	2.784	3.645	9.6	23.1	143 E	—	59
5 26	15 12.33	−56 18.1	2.780	3.642	9.6	23.1	143 E	—	60
5 31	15 5.45	−55 57.0	2.783	3.638	9.8	23.1	142 E	—	60

495848 2002 QD_7

5 1	15 48.53	−10 38.7	2.683	3.651	5.1	23.4	161 W	34	75
5 11	15 39.42	− 9 47.0	2.623	3.621	2.9	23.2	170 W	35	74
5 21	15 29.75	− 8 57.8	2.594	3.589	3.5	23.2	168 E	36	73
5 31	15 20.24	− 8 14.5	2.596	3.556	6.2	23.3	158 E	37	72
6 10	15 11.61	− 7 39.9	2.627	3.522	9.0	23.4	147 E	37	72

497503 2006 BL_6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	15 48.75	−55 55.0	2.905	3.703	10.8	22.6	137 W	—	60
5 6	15 42.07	−56 4.4	2.875	3.699	10.2	22.6	139 W	—	60
5 11	15 35.03	−56 7.2	2.851	3.696	9.8	22.6	142 W	—	60
5 16	15 27.79	−56 3.3	2.833	3.692	9.5	22.5	143 E	—	60
5 21	15 20.53	−55 52.5	2.822	3.687	9.3	22.5	144 E	—	60
5 26	15 13.44	−55 35.0	2.816	3.683	9.3	22.5	144 E	—	60
5 31	15 6.70	−55 11.4	2.817	3.678	9.5	22.5	143 E	—	61

65407 2002 RP_{120}

5 1	15 53.16	+ 5 57.7	32.022	32.908	0.8	27.6	151 W	51	58
5 11	15 51.95	+ 6 2.3	32.030	32.942	0.8	27.5	154 W	51	58
5 21	15 50.70	+ 6 5.6	32.064	32.975	0.8	27.6	154 E	51	58
5 31	15 49.45	+ 6 7.5	32.126	33.008	0.9	27.6	150 E	51	58
6 10	15 48.25	+ 6 8.0	32.213	33.042	1.0	27.6	144 E	51	58

429584 2011 EU_{29}

5 1	15 54.46	−17 21.9	3.045	4.009	4.8	25.6	160 W	28	81
5 11	15 45.39	−16 50.1	3.029	4.032	2.0	25.5	172 W	28	81
5 21	15 36.06	−16 17.5	3.046	4.054	1.3	25.4	175 E	29	80
5 31	15 27.12	−15 46.2	3.093	4.075	4.1	25.7	163 E	29	80
6 10	15 19.12	−15 18.6	3.171	4.095	6.7	25.9	152 E	30	79

331510 2000 AE_6

5 1	15 55.38	− 5 45.9	3.119	4.070	5.4	23.5	158 W	39	70
5 11	15 47.62	− 5 15.2	3.070	4.053	3.8	23.3	165 W	40	69
5 21	15 39.38	− 4 50.5	3.051	4.035	3.9	23.3	164 E	40	69
5 31	15 31.23	− 4 33.8	3.062	4.016	5.6	23.4	157 E	40	69
6 10	15 23.74	− 4 26.5	3.101	3.996	7.8	23.5	148 E	41	68

249615 1999 TB_5

5 1	15 57.34	+ 8 33.1	1.716	2.629	11.5	23.0	149 W	54	55
5 6	15 52.06	+ 9 38.7	1.716	2.638	11.0	23.0	150 W	55	54
5 11	15 46.55	+10 37.8	1.722	2.647	10.9	23.0	150 W	56	53
5 16	15 40.93	+11 29.5	1.735	2.655	11.2	23.0	149 W	56	53
5 21	15 35.35	+12 13.0	1.755	2.663	11.8	23.1	147 E	57	52
5 26	15 29.94	+12 47.9	1.780	2.671	12.7	23.1	145 E	58	51
5 31	15 24.84	+13 14.2	1.812	2.678	13.7	23.2	141 E	58	51
6 5	15 20.15	+13 31.9	1.849	2.685	14.8	23.3	137 E	59	50

24443 2000 OG

5 1	15 58.38	+ 7 39.6	3.233	4.130	7.2	22.6	149 W	53	56
5 11	15 49.50	+ 8 37.1	3.195	4.114	6.6	22.5	152 W	54	55
5 21	15 40.13	+ 9 20.9	3.187	4.097	7.0	22.5	150 E	54	55
5 31	15 30.85	+ 9 48.6	3.207	4.079	8.2	22.6	145 E	55	54
6 10	15 22.26	+ 9 59.3	3.255	4.059	9.8	22.6	137 E	55	54

429382 2010 NW_{117}

5 1	15 59.06	−21 54.7	2.518	3.476	6.1	23.4	159 W	23	86
5 11	15 49.61	−21 23.2	2.457	3.457	2.8	23.1	171 W	24	85
5 21	15 39.43	−20 45.9	2.426	3.437	0.9	22.9	177 E	24	85
5 31	15 29.35	−20 5.6	2.426	3.416	4.3	23.2	165 E	25	84
6 10	15 20.18	−19 25.5	2.455	3.394	7.7	23.4	153 E	26	83

469796 2005 SD

5 1	15 59.10	−46 17.0	3.680	4.534	7.5	22.8	144 W	—	70
5 6	15 54.62	−46 17.3	3.642	4.526	6.9	22.7	148 W	—	70
5 11	15 49.90	−46 13.6	3.612	4.519	6.3	22.6	151 W	—	70
5 16	15 45.02	−46 6.0	3.588	4.511	5.9	22.6	153 W	—	70
5 21	15 40.08	−45 54.3	3.571	4.503	5.6	22.6	154 E	—	70
5 26	15 35.16	−45 38.8	3.561	4.495	5.6	22.6	154 E	—	70
5 31	15 30.38	−45 19.6	3.558	4.487	5.8	22.6	153 E	—	71
6 5	15 25.82	−44 57.2	3.561	4.479	6.2	22.6	151 E	—	71

455426 2003 MT_9

5 1	16 0.09	−20 17.8	1.981	2.943	7.1	23.0	159 W	25	84
5 6	15 52.04	−19 50.2	1.997	2.985	4.8	22.9	166 W	25	84
5 11	15 43.99	−19 21.3	2.022	3.026	2.6	22.8	172 W	26	83
5 16	15 36.11	−18 51.6	2.055	3.066	0.3	22.7	179 W	26	83
5 21	15 28.54	−18 21.9	2.097	3.106	1.9	22.9	174 E	27	82
5 26	15 21.41	−17 52.8	2.148	3.145	3.9	23.1	168 E	27	82
5 31	15 14.83	−17 24.9	2.207	3.183	5.9	23.3	161 E	28	81
6 5	15 8.87	−16 58.9	2.273	3.221	7.7	23.5	155 E	28	81

317212 2002 CW_{46}

5 1	16 2.17	−39 34.7	1.549	2.467	12.2	22.3	149 W	5	76
5 6	15 55.15	−39 43.9	1.524	2.467	10.7	22.2	153 W	5	76
5 11	15 47.57	−39 45.9	1.506	2.466	9.3	22.2	157 W	5	76
5 16	15 39.63	−39 40.3	1.494	2.466	8.3	22.1	159 W	5	76
5 21	15 31.59	−39 27.1	1.488	2.465	8.0	22.1	160 E	6	77
5 26	15 23.70	−39 6.7	1.489	2.463	8.4	22.1	159 E	6	77
5 31	15 16.21	−38 40.0	1.497	2.461	9.4	22.2	157 E	6	77

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
317212 2002 CW_{46} *(continuation)*									
6 5	15 9.32	−38 8.1	1.512	2.459	10.8	22.2	153 E	7	78
6 10	15 3.20	−37 32.5	1.532	2.456	12.5	22.3	149 E	7	78
6 15	14 57.96	−36 54.6	1.558	2.453	14.1	22.4	144 E	8	79
405793 2006 AU_{80}									
5 1	16 6.75	−12 34.1	1.650	2.608	8.6	22.4	157 W	32	77
5 11	15 57.06	−12 3.2	1.593	2.589	4.8	22.1	168 W	33	76
5 21	15 46.10	−11 35.3	1.563	2.568	3.4	22.0	171 E	33	76
5 31	15 35.04	−11 14.2	1.561	2.547	6.8	22.1	163 E	34	75
6 10	15 25.08	−11 3.2	1.585	2.525	11.0	22.3	152 E	34	75
366597 2002 VU_{107}									
5 1	16 12.40	−26 38.4	1.942	2.883	8.7	22.1	154 W	18	89
5 11	16 3.26	−26 12.7	1.870	2.859	5.1	21.9	166 W	19	90
5 21	15 52.80	−25 35.7	1.825	2.834	1.9	21.6	175 W	19	90
5 31	15 42.09	−24 49.6	1.809	2.809	4.3	21.7	168 E	20	89
6 10	15 32.27	−23 58.7	1.820	2.782	8.3	21.9	157 E	21	88
6 20	15 24.25	−23 8.0	1.857	2.755	12.1	22.1	145 E	22	87
515718 2014 UQ_{194}									
5 1	16 13.15	−28 23.6	4.955	5.873	4.4	21.8	153 W	17	88
5 11	16 7.70	−28 30.3	4.905	5.880	2.8	21.7	163 W	16	87
5 21	16 1.81	−28 32.8	4.885	5.887	1.5	21.6	171 W	16	87
5 31	15 55.84	−28 31.4	4.894	5.894	1.8	21.6	169 E	16	87
6 10	15 50.16	−28 26.9	4.934	5.901	3.3	21.7	160 E	17	88
6 20	15 45.09	−28 20.4	5.002	5.907	4.9	21.9	150 E	17	88
382674 2002 TH_{224}									
5 1	16 17.62	−14 19.1	1.372	2.324	10.6	21.6	155 W	31	78
5 6	16 12.67	−13 39.6	1.355	2.330	8.3	21.5	161 W	31	78
5 11	16 7.25	−12 59.9	1.343	2.335	6.1	21.4	166 W	32	77
5 16	16 1.53	−12 20.9	1.338	2.341	4.2	21.3	170 W	33	76
5 21	15 55.67	−11 43.2	1.340	2.345	3.7	21.2	171 W	33	76
5 26	15 49.87	−11 8.0	1.348	2.350	4.8	21.3	169 E	34	75
5 31	15 44.29	−10 35.8	1.363	2.354	6.9	21.4	164 E	34	75
6 5	15 39.10	−10 7.5	1.385	2.358	9.1	21.6	158 E	35	74
6 10	15 34.42	− 9 43.5	1.413	2.362	11.3	21.7	153 E	35	74
6 15	15 30.35	− 9 24.1	1.446	2.365	13.4	21.8	147 E	36	73
6 20	15 26.97	− 9 9.5	1.484	2.368	15.4	22.0	142 E	36	73
306778 2001 DF_{92}									
5 1	16 19.09	−49 31.5	2.946	3.768	10.0	22.0	139 W	—	66
5 6	16 13.69	−49 45.3	2.919	3.774	9.3	21.9	143 W	—	66
5 11	16 7.88	−49 54.0	2.899	3.779	8.6	21.9	146 W	—	66
5 16	16 1.77	−49 57.4	2.885	3.784	8.0	21.9	149 W	—	66
5 21	15 55.49	−49 55.3	2.877	3.789	7.6	21.8	150 W	—	66
5 26	15 49.21	−49 47.7	2.876	3.794	7.4	21.8	151 E	—	66
5 31	15 43.06	−49 34.8	2.882	3.798	7.5	21.8	151 E	—	66
6 5	15 37.19	−49 17.1	2.894	3.803	7.8	21.9	149 E	—	67
6 10	15 31.71	−48 55.2	2.913	3.807	8.3	21.9	147 E	—	67
6 15	15 26.72	−48 29.6	2.938	3.811	8.9	21.9	144 E	—	68
6 20	15 22.31	−48 1.2	2.970	3.814	9.6	22.0	141 E	—	68
366451 2002 AN_{18}									
5 1	16 20.19	+12 1.8	2.852	3.700	9.6	22.3	142 W	57	52
5 11	16 12.51	+12 43.6	2.822	3.702	8.8	22.3	146 W	58	51
5 21	16 4.12	+13 7.8	2.817	3.704	8.7	22.3	147 W	58	51
5 31	15 55.63	+13 12.0	2.838	3.704	9.3	22.3	144 E	58	51
6 10	15 47.69	+12 55.9	2.883	3.704	10.5	22.4	138 E	58	51
345853 2007 PU_{11}									
5 1	16 21.36	−11 52.9	3.221	4.148	6.2	22.3	154 W	33	76
5 11	16 14.30	−11 11.0	3.149	4.128	4.0	22.1	164 W	34	75
5 21	16 6.45	−10 30.7	3.106	4.106	2.5	22.0	170 W	34	75
5 31	15 58.37	− 9 54.2	3.094	4.083	3.6	22.0	165 E	35	74
6 10	15 50.62	− 9 23.7	3.112	4.060	5.8	22.2	156 E	36	73
6 20	15 43.72	− 9 0.7	3.157	4.035	8.2	22.3	145 E	36	73
2202 Pele									
5 1	16 21.91	− 9 40.4	2.111	3.044	8.6	21.7	153 W	35	74
5 11	16 12.99	− 8 49.1	2.030	3.009	5.7	21.5	163 W	36	73
5 21	16 2.69	− 8 1.2	1.977	2.973	4.2	21.3	168 W	37	72
5 31	15 51.87	− 7 20.7	1.953	2.936	6.0	21.4	162 E	38	71
6 10	15 41.51	− 6 51.2	1.958	2.898	9.3	21.5	153 E	38	71
6 20	15 32.49	− 6 35.0	1.988	2.857	12.7	21.6	142 E	38	71
37329 2001 QW_{108}									
5 1	16 24.84	+16 27.6	2.935	3.747	10.3	22.2	138 W	61	48
5 11	16 16.93	+17 7.4	2.914	3.758	9.6	22.1	142 W	62	47
5 21	16 8.30	+17 27.4	2.918	3.769	9.5	22.1	142 W	62	47
5 31	15 59.60	+17 25.7	2.946	3.778	10.0	22.2	140 E	62	47

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
37329 2001 QW_{108} *(continuation)*									
6 10	15 51.45	+17 2.3	2.998	3.786	10.9	22.3	135 E	62	47
6 20	15 44.38	+16 19.1	3.071	3.794	12.0	22.4	129 E	61	48
385580 2004 XO_{14}									
5 1	16 25.61	+10 51.2	3.242	4.084	8.7	22.3	142 W	56	53
5 11	16 18.30	+11 31.5	3.192	4.072	7.9	22.2	146 W	57	52
5 21	16 10.22	+11 57.2	3.169	4.059	7.7	22.2	148 W	57	52
5 31	16 1.91	+12 5.7	3.171	4.046	8.2	22.2	145 E	57	52
6 10	15 53.94	+11 56.3	3.200	4.031	9.3	22.3	140 E	57	52
6 20	15 46.81	+11 29.7	3.252	4.015	10.7	22.4	133 E	56	53
464652 2001 GE_4									
5 1	16 26.17	−17 12.6	1.679	2.616	10.1	21.8	153 W	28	81
5 11	16 15.67	−16 57.4	1.671	2.659	5.7	21.6	165 W	28	81
5 21	16 4.25	−16 41.6	1.690	2.700	1.7	21.4	175 W	28	81
5 31	15 53.11	−16 27.4	1.737	2.740	4.0	21.7	169 E	29	80
6 10	15 43.32	−16 17.5	1.813	2.779	7.9	22.0	158 E	29	80
6 20	15 35.63	−16 13.8	1.913	2.817	11.5	22.3	147 E	29	80
399814 2005 SE_{133}									
5 1	16 28.64	−19 51.3	1.123	2.068	13.1	21.3	152 W	25	84
5 11	16 21.11	−19 13.8	1.052	2.041	8.0	20.9	164 W	26	83
5 21	16 11.01	−18 29.4	1.004	2.015	2.4	20.5	175 W	27	82
5 31	15 59.78	−17 42.0	0.980	1.988	4.4	20.5	171 E	27	82
6 10	15 49.17	−16 57.8	0.979	1.962	10.5	20.8	159 E	28	81
6 20	15 40.76	−16 23.1	0.999	1.936	16.3	21.0	148 E	29	80
6 30	15 35.72	−16 3.1	1.036	1.910	21.3	21.2	137 E	29	80
7 10	15 34.57	−15 59.7	1.087	1.884	25.4	21.4	127 E	29*	80
482391 2012 AN_{23}									
5 1	16 31.12	−18 48.5	1.488	2.423	11.4	22.5	152 W	26	83
5 6	16 25.73	−18 22.3	1.468	2.432	9.0	22.4	158 W	27	82
5 11	16 19.82	−17 54.8	1.454	2.441	6.6	22.2	164 W	27	82
5 16	16 13.54	−17 26.3	1.447	2.449	4.1	22.1	170 W	28	81
5 21	16 7.07	−16 57.4	1.447	2.457	2.0	22.0	175 W	28	81
5 26	16 0.59	−16 28.8	1.453	2.464	2.2	22.0	175 E	29	80
5 31	15 54.29	−16 1.2	1.467	2.471	4.4	22.2	169 E	29	80
6 5	15 48.33	−15 35.2	1.488	2.477	6.8	22.3	163 E	29	80
6 10	15 42.86	−15 11.5	1.516	2.483	9.1	22.5	157 E	30	79
376944 2002 DP_3									
5 1	16 32.24	−20 36.2	2.946	3.860	7.2	22.3	151 W	24	85
5 11	16 24.24	−20 30.8	2.884	3.860	4.4	22.1	163 W	24	85
5 21	16 15.26	−20 22.6	2.851	3.860	1.4	21.9	175 W	25	84
5 31	16 5.96	−20 12.5	2.849	3.858	1.7	21.9	174 E	25	84
6 10	15 57.02	−20 1.8	2.877	3.855	4.7	22.1	162 E	25	84
6 20	15 49.06	−19 52.1	2.934	3.852	7.4	22.3	151 E	25	84
465271 2007 TF_{107}									
5 1	16 32.64	−49 59.4	2.060	2.885	13.6	22.4	138 W	—	66
5 6	16 26.48	−50 28.5	2.037	2.893	12.6	22.3	141 W	—	66
5 11	16 19.60	−50 50.9	2.020	2.901	11.7	22.3	144 W	—	65
5 16	16 12.18	−51 5.9	2.008	2.909	10.9	22.2	147 W	—	65
5 21	16 4.42	−51 13.1	2.003	2.916	10.3	22.2	149 W	—	65
5 26	15 56.56	−51 12.1	2.003	2.923	10.0	22.2	150 E	—	65
5 31	15 48.84	−51 3.3	2.010	2.930	10.1	22.2	150 E	—	65
6 5	15 41.48	−50 47.3	2.024	2.937	10.4	22.2	149 E	—	65
6 10	15 34.69	−50 24.8	2.043	2.944	11.0	22.3	147 E	—	66
6 15	15 28.61	−49 57.0	2.068	2.950	11.7	22.3	144 E	—	66
6 20	15 23.36	−49 25.0	2.099	2.956	12.6	22.4	141 E	—	67
450807 2007 UC_9									
5 1	16 34.78	−38 24.8	3.932	4.788	7.0	22.0	145 W	7	78
5 11	16 27.99	−38 46.3	3.851	4.775	5.4	21.9	153 W	6	77
5 21	16 20.22	−38 58.4	3.796	4.761	4.1	21.8	160 W	6	77
5 31	16 11.99	−39 0.4	3.771	4.747	3.7	21.7	162 E	6	77
6 10	16 3.92	−38 52.7	3.774	4.732	4.6	21.8	158 E	6	77
6 20	15 56.56	−38 36.9	3.805	4.717	6.1	21.8	151 E	6	77
153452 2001 QQ_{286}									
5 1	16 38.49	+ 8 16.1	2.577	3.422	10.6	21.4	141 W	53	56
5 6	16 35.08	+ 8 56.8	2.557	3.425	9.9	21.4	144 W	54	55
5 11	16 31.35	+ 9 34.1	2.542	3.429	9.4	21.3	146 W	55	54
5 16	16 27.37	+10 7.1	2.534	3.432	9.0	21.3	148 W	55	54
5 21	16 23.20	+10 35.5	2.533	3.435	8.9	21.3	148 W	56	53
5 26	16 18.95	+10 58.8	2.538	3.438	9.0	21.3	148 W	56	53
5 31	16 14.70	+11 16.7	2.549	3.441	9.4	21.3	147 E	56	53
6 5	16 10.53	+11 28.9	2.567	3.443	9.9	21.4	144 E	56	53
6 10	16 6.54	+11 35.7	2.591	3.446	10.5	21.4	142 E	57	52
6 15	16 2.79	+11 37.0	2.620	3.448	11.3	21.5	139 E	57	52
6 20	15 59.35	+11 33.0	2.655	3.449	12.0	21.5	135 E	57	52
6 25	15 56.27	+11 24.1	2.695	3.451	12.8	21.6	131 E	56	53