19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7002 Bronshten									
12 23	9 22.57	+ 9 24.0	2.184	2.918	14.9	19.7	130 W	54	55
1 2	9 17.32	+ 9 37.2	2.103	2.938	12.0	19.5	142 W	55	54
1 12	9 9.84	+10 3.7	2.045	2.958	8.5	19.3	153 W	55	54
1 22	9 0.66	+10 41.6	2.014	2.977	4.8	19.1	165 W	56	53
2 1	8 50.63	+11 27.3	2.013	2.994	2.0	18.9	174 E	56	53
2 6	8 45.61	+11 51.6	2.024	3.003	2.7	19.0	172 E	57	52
2 11	8 40.76	+12 16.1	2.042	3.011	4.4	19.1	167 E	57	52
2 16	8 36.18	+12 40.3	2.068	3.019	6.2	19.3	161 E	58	51
2 21	8 31.98	+13 3.7	2.102	3.026	8.0	19.4	155 E	58	51
3 2	8 25.07	+13 46.7	2.188	3.041	11.2	19.6	143 E	59	50
3 12	8 20.50	+14 22.5	2.297	3.055	13.9	19.8	132 E	59	50
3 22	8 18.40	+14 50.1	2.424	3.067	16.0	20.0	122 E	60	49
4 1	8 18.75	+15 9.0	2.563	3.079	17.5	20.2	112 E	60	49
4 11	8 21.34	+15 19.2	2.711	3.089	18.4	20.4	103 E	60*	49
4 21	8 25.90	+15 21.0	2.863	3.099	18.9	20.5	94 E	58*	49
5 1	8 32.16	+15 14.6	3.015	3.108	18.9	20.6	86 E	53*	49
5 11	8 39.85	+15 0.5	3.166	3.115	18.5	20.7	78 E	47*	49*
5 21	8 48.71	+14 38.9	3.311	3.122	17.8	20.8	70 E	40*	48*
5 31	8 58.55	+14 10.3	3.449	3.128	16.8	20.9	63 E	33*	46*
6 10	9 9.15	+13 35.0	3.578	3.132	15.7	20.9	56 E	26*	43*
6 20	9 20.39	+12 53.5	3.697	3.136	14.3	20.9	50 E	20*	39*
6 30	9 32.12	+12 6.1	3.803	3.139	12.8	20.9	43 E	14*	35*
7 10	9 44.23	+11 13.3	3.897	3.140	11.1	20.9	37 E	9*	29*
7 20	9 56.63	+10 15.6	3.976	3.141	9.4	20.9	30 E	5*	24*
7 30	10 9.26	+ 9 13.3	4.040	3.141	7.6	20.9	24 E	2*	18*
8 9	10 22.04	+ 8 7.1	4.089	3.139	5.7	20.8	18 E	—	12*
8 19	10 34.92	+ 6 57.5	4.121	3.137	3.7	20.7	12 E	—	6*
8 29	10 47.86	+ 5 45.0	4.137	3.134	1.8	20.6	6 E	—	—
9 8	11 0.81	+ 4 30.2	4.136	3.129	0.6	20.5	2 W	—	—
9 18	11 13.74	+ 3 13.7	4.118	3.124	2.4	20.6	7 W	—	—
9 28	11 26.61	+ 1 56.1	4.083	3.118	4.3	20.7	14 W	6*	4*
10 8	11 39.36	+ 0 38.2	4.031	3.110	6.3	20.8	20 W	12*	8*
10 18	11 51.97	− 0 39.5	3.963	3.102	8.2	20.8	26 W	18*	12*
10 28	12 4.37	− 1 56.1	3.878	3.093	10.1	20.8	33 W	23*	17*
11 7	12 16.50	− 3 10.9	3.779	3.083	11.9	20.9	40 W	28*	22*
11 17	12 28.29	− 4 23.0	3.665	3.071	13.5	20.8	47 W	32*	27*
11 27	12 39.63	− 5 31.5	3.539	3.059	15.1	20.8	54 W	35*	34*
12 7	12 50.42	− 6 35.6	3.401	3.046	16.4	20.8	61 W	37*	40*
12 17	13 0.52	− 7 34.2	3.253	3.031	17.6	20.7	68 W	37*	48*
12 27	13 9.75	− 8 26.2	3.097	3.016	18.5	20.6	76 W	37	56*
1 6	13 17.93	− 9 10.4	2.936	3.000	19.0	20.5	84 W	36	63*
1 16	13 24.82	− 9 45.7	2.772	2.983	19.2	20.4	93 W	35	70*
65784 Naderayama									
12 23	9 24.81	+23 13.2	1.498	2.292	18.0	19.0	134 W	68	41
1 2	9 18.82	+24 3.3	1.448	2.324	14.0	18.8	145 W	69	40
1 12	9 9.55	+24 58.9	1.418	2.356	9.3	18.6	157 W	70	39
1 22	8 57.95	+25 51.7	1.415	2.386	4.9	18.5	168 W	71	38
1 27	8 51.70	+26 14.5	1.423	2.401	3.5	18.4	171 W	71	38
2 1	8 45.43	+26 33.6	1.439	2.416	3.8	18.5	171 E	72	37
2 6	8 39.36	+26 48.5	1.462	2.431	5.5	18.6	166 E	72	37
2 11	8 33.66	+26 59.1	1.492	2.446	7.6	18.8	161 E	72	37
2 16	8 28.50	+27 5.2	1.528	2.460	9.7	18.9	155 E	72	37
2 21	8 24.01	+27 7.0	1.571	2.474	11.7	19.1	149 E	72	37
3 2	8 17.38	+26 59.1	1.673	2.502	15.3	19.4	138 E	72	37
3 12	8 14.10	+26 38.6	1.794	2.529	18.1	19.6	128 E	72	37
3 22	8 14.06	+26 8.5	1.929	2.555	20.1	19.9	118 E	71	38
4 1	8 16.92	+25 31.1	2.074	2.580	21.5	20.1	109 E	71	38
4 11	8 22.27	+24 47.7	2.226	2.605	22.2	20.3	101 E	70*	39
4 21	8 29.64	+23 59.2	2.380	2.628	22.5	20.5	93 E	67*	40
5 1	8 38.66	+23 5.7	2.536	2.650	22.3	20.6	85 E	61*	41
5 11	8 48.97	+22 7.6	2.689	2.672	21.7	20.7	78 E	54*	42*
5 21	9 0.29	+21 5.0	2.839	2.693	20.9	20.8	71 E	46*	42*
5 31	9 12.39	+19 57.9	2.984	2.712	19.8	20.9	65 E	39*	42*
6 10	9 25.08	+18 46.5	3.121	2.731	18.5	21.0	58 E	32*	40*
6 20	9 38.21	+17 31.0	3.250	2.749	17.0	21.1	52 E	26*	38*
6 30	9 51.67	+16 11.6	3.369	2.765	15.4	21.1	46 E	20*	35*
7 10	10 5.35	+14 48.7	3.478	2.781	13.7	21.1	40 E	15*	31*
7 20	10 19.18	+13 22.7	3.574	2.796	11.9	21.1	34 E	11*	26*
7 30	10 33.12	+11 53.8	3.659	2.810	10.0	21.1	29 E	8*	21*
8 9	10 47.11	+10 22.7	3.729	2.822	8.0	21.1	23 E	5*	16*
8 19	11 1.12	+ 8 49.7	3.786	2.834	6.0	21.0	17 E	2*	11*
8 29	11 15.13	+ 7 15.2	3.828	2.845	4.0	20.9	11 E	—	5*
9 8	11 29.10	+ 5 40.0	3.856	2.854	2.0	20.8	6 E	—	—
9 18	11 43.01	+ 4 4.4	3.867	2.863	0.8	20.8	2 E	—	—
9 28	11 56.85	+ 2 29.0	3.863	2.871	2.4	20.9	7 W	1*	—
10 8	12 10.58	+ 0 54.5	3.843	2.878	4.5	21.0	13 W	7*	1*
10 18	12 24.18	− 0 38.6	3.807	2.883	6.5	21.1	19 W	12*	5*
10 28	12 37.60	− 2 9.7	3.755	2.888	8.5	21.2	25 W	18*	10*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
65784 Naderayama *(continuation)*									
11 7	12 50.80	− 3 38.1	3.688	2.892	10.4	21.2	32 W	23*	14*
11 17	13 3.72	− 5 3.2	3.606	2.894	12.2	21.2	38 W	27*	20*
11 27	13 16.28	− 6 24.4	3.510	2.896	13.9	21.2	45 W	31*	26*
12 7	13 28.38	− 7 41.0	3.401	2.896	15.5	21.2	52 W	33*	32*
12 17	13 39.90	− 8 52.4	3.280	2.896	16.9	21.2	59 W	35*	40*
12 27	13 50.71	− 9 58.0	3.149	2.895	18.1	21.1	66 W	35*	48*
1 6	14 0.62	−10 57.1	3.010	2.892	19.0	21.1	74 W	34	56*
1 16	14 9.43	−11 49.2	2.864	2.889	19.7	21.0	82 W	33	64*
157995 2000 LF_{26}									
12 23	9 24.87	+ 4 5.8	2.289	2.992	15.1	21.2	128 W	49	60
1 2	9 20.48	+ 4 14.4	2.187	2.995	12.6	21.0	138 W	49	60
1 12	9 13.88	+ 4 39.6	2.107	2.997	9.5	20.8	150 W	50	59
1 22	9 5.50	+ 5 21.1	2.052	2.999	6.2	20.6	161 W	50	59
2 1	8 56.04	+ 6 16.4	2.026	2.999	3.6	20.5	169 W	51	58
2 11	8 46.44	+ 7 21.2	2.031	2.998	4.5	20.5	166 E	52	57
2 21	8 37.64	+ 8 30.1	2.066	2.997	7.7	20.7	156 E	54	55
3 2	8 30.47	+ 9 37.9	2.129	2.994	11.0	20.9	145 E	55	54
3 12	8 25.50	+10 40.2	2.215	2.991	13.9	21.1	134 E	56	53
3 22	8 22.99	+11 34.1	2.320	2.986	16.2	21.3	123 E	57	52
4 1	8 22.96	+12 18.1	2.438	2.981	17.9	21.4	113 E	57	52
257744 2000 AD_{205}									
12 23	9 26.17	+ 4 28.4	0.897	1.686	27.6	20.6	127 W	49	60
1 2	9 11.79	+ 5 47.1	0.885	1.762	20.5	20.5	141 W	51	58
1 12	8 53.75	+ 7 34.7	0.894	1.835	12.9	20.3	155 W	53	56
1 22	8 34.28	+ 9 38.4	0.929	1.904	5.9	20.2	169 W	55	54
1 27	8 24.83	+10 41.3	0.958	1.937	4.2	20.2	172 E	56	53
2 1	8 15.99	+11 42.4	0.993	1.969	5.5	20.4	169 E	57	52
2 6	8 8.02	+12 40.3	1.036	2.001	8.1	20.7	163 E	58	51
2 11	8 1.08	+13 33.8	1.086	2.032	10.9	20.9	157 E	59	50
2 16	7 55.27	+14 22.5	1.142	2.062	13.5	21.1	151 E	59	50
2 21	7 50.64	+15 6.0	1.203	2.091	15.8	21.4	145 E	60	49
491765 2012 VU_{110}									
12 23	9 26.19	+16 9.3	1.077	1.881	23.0	21.4	132 W	61	48
1 2	9 22.02	+15 59.4	1.032	1.910	18.1	21.2	143 W	61	48
1 12	9 13.95	+16 4.0	1.004	1.940	12.4	21.0	155 W	61	48
1 22	9 3.02	+16 18.6	0.998	1.971	6.1	20.7	168 W	61	48
2 1	8 50.92	+16 37.0	1.017	2.002	0.6	20.5	179 E	62	47
2 6	8 45.06	+16 45.7	1.036	2.017	3.6	20.7	173 E	62	47
2 11	8 39.62	+16 53.1	1.061	2.033	6.6	21.0	166 E	62	47
2 16	8 34.81	+16 58.9	1.092	2.049	9.4	21.2	160 E	62	47
2 21	8 30.75	+17 2.9	1.129	2.065	12.0	21.4	154 E	62	47
2 26	8 27.55	+17 4.8	1.172	2.080	14.4	21.5	148 E	62	47
329619 2003 OS_{22}									
12 23	9 26.55	+ 8 47.9	2.390	3.106	14.2	20.9	129 W	54	55
1 2	9 21.71	+ 9 13.2	2.327	3.148	11.5	20.7	140 W	54	55
1 12	9 14.91	+ 9 51.2	2.286	3.190	8.2	20.6	152 W	55	54
1 22	9 6.67	+10 39.6	2.272	3.230	4.8	20.4	164 W	56	53
2 1	8 57.72	+11 34.4	2.288	3.270	1.8	20.3	174 W	57	52
2 11	8 48.95	+12 31.0	2.336	3.309	3.4	20.5	169 E	58	51
2 21	8 41.12	+13 25.3	2.414	3.348	6.6	20.7	157 E	58	51
3 2	8 34.88	+14 14.0	2.521	3.385	9.5	21.0	146 E	59	50
3 12	8 30.64	+14 54.9	2.651	3.422	11.9	21.2	135 E	60	49
3 22	8 28.52	+15 26.9	2.800	3.458	13.8	21.4	124 E	60	49
80098 1999 MV_1									
12 23	9 26.91	+16 11.5	1.781	2.543	16.8	20.5	132 W	61	48
1 2	9 21.38	+16 45.1	1.711	2.568	13.3	20.3	143 W	62	47
1 12	9 13.03	+17 30.1	1.663	2.591	9.0	20.1	156 W	63	46
1 22	9 2.55	+18 21.5	1.642	2.613	4.4	19.8	168 W	63	46
1 27	8 56.83	+18 47.6	1.642	2.624	2.0	19.7	175 W	64	45
2 1	8 51.01	+19 12.9	1.649	2.634	0.8	19.6	178 E	64	45
2 6	8 45.26	+19 36.8	1.665	2.644	3.0	19.8	172 E	65	44
2 11	8 39.75	+19 58.5	1.687	2.654	5.3	20.0	166 E	65	44
2 16	8 34.62	+20 17.8	1.717	2.664	7.5	20.1	159 E	65	44
2 21	8 30.00	+20 34.2	1.753	2.673	9.6	20.3	153 E	66	43
3 2	8 22.67	+20 58.3	1.845	2.691	13.3	20.6	141 E	66	43
3 12	8 18.24	+21 10.8	1.957	2.708	16.2	20.8	130 E	66	43
3 22	8 16.78	+21 12.8	2.085	2.724	18.5	21.0	120 E	66	43
4 1	8 18.12	+21 5.6	2.224	2.739	20.0	21.2	110 E	66	43
4 11	8 21.95	+20 50.0	2.371	2.753	20.9	21.4	102 E	66*	43

10502 Armaghobs

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	9 27.13	−17 9.2	1.002	1.681	31.9	17.4	116 W	28	81
12 28	9 28.22	−17 15.3	0.977	1.694	30.3	17.3	120 W	28	81
1 2	9 28.34	−17 8.9	0.953	1.708	28.6	17.2	124 W	28	81
1 7	9 27.52	−16 49.0	0.932	1.722	26.7	17.1	128 W	28	81
1 12	9 25.83	−16 14.5	0.913	1.737	24.6	17.0	133 W	29	80
1 17	9 23.34	−15 24.7	0.897	1.752	22.4	17.0	137 W	30	79
1 22	9 20.18	−14 19.2	0.885	1.768	20.0	16.9	142 W	31	78
1 27	9 16.52	−12 58.3	0.878	1.784	17.7	16.8	147 W	32	77
2 1	9 12.57	−11 23.1	0.875	1.801	15.4	16.7	151 W	34	75
2 6	9 8.56	− 9 35.8	0.878	1.818	13.5	16.7	154 E	35	74
2 11	9 4.69	− 7 39.2	0.887	1.835	12.3	16.7	157 E	37	72
2 16	9 1.16	− 5 36.3	0.902	1.853	11.8	16.7	157 E	39	70
2 21	8 58.15	− 3 30.7	0.923	1.870	12.3	16.8	156 E	41	68
2 26	8 55.80	− 1 25.7	0.950	1.888	13.5	16.9	154 E	44	65
3 2	8 54.22	+ 0 35.7	0.983	1.907	15.1	17.1	150 E	46	63
3 7	8 53.46	+ 2 31.0	1.023	1.925	16.9	17.3	146 E	48	61
3 12	8 53.55	+ 4 18.3	1.067	1.944	18.7	17.4	141 E	49	60
3 17	8 54.46	+ 5 56.7	1.116	1.962	20.4	17.6	137 E	51	58
3 22	8 56.17	+ 7 25.4	1.170	1.981	21.9	17.8	132 E	52	57
4 1	9 1.81	+ 9 53.2	1.290	2.019	24.4	18.1	123 E	55	54
4 11	9 10.02	+11 43.2	1.422	2.057	26.2	18.4	115 E	57	52
4 21	9 20.27	+12 59.6	1.563	2.095	27.3	18.7	107 E	58*	51
4 26	9 26.03	+13 26.5	1.637	2.114	27.6	18.8	104 E	58*	51
5 1	9 32.14	+13 46.7	1.712	2.133	27.7	18.9	100 E	58*	50
5 6	9 38.56	+14 0.8	1.788	2.152	27.7	19.1	97 E	56*	50
5 11	9 45.23	+14 9.2	1.865	2.171	27.7	19.2	93 E	55*	50
5 21	9 59.20	+14 10.9	2.020	2.209	27.2	19.4	87 E	50*	50
5 31	10 13.83	+13 55.4	2.175	2.246	26.5	19.5	81 E	45*	50*
6 10	10 28.91	+13 25.5	2.329	2.282	25.4	19.7	75 E	39*	50*
6 20	10 44.30	+12 43.8	2.481	2.319	24.1	19.8	69 E	34*	49*
6 30	10 59.90	+11 52.5	2.629	2.354	22.7	19.9	63 E	29*	48*
7 10	11 15.63	+10 53.5	2.771	2.389	21.1	20.0	58 E	25*	45*
7 20	11 31.44	+ 9 48.4	2.907	2.424	19.4	20.1	52 E	22*	42*
7 30	11 47.30	+ 8 38.8	3.035	2.457	17.6	20.2	47 E	19*	38*
8 9	12 3.18	+ 7 26.0	3.154	2.490	15.7	20.2	42 E	16*	33*
8 19	12 19.08	+ 6 11.2	3.264	2.522	13.8	20.3	36 E	14*	28*
8 29	12 34.99	+ 4 55.6	3.363	2.553	11.8	20.3	31 E	13*	23*
9 8	12 50.90	+ 3 40.4	3.451	2.584	9.9	20.3	26 E	11*	18*
9 18	13 6.81	+ 2 26.4	3.526	2.613	7.9	20.3	21 E	9*	13*
9 28	13 22.72	+ 1 14.7	3.588	2.642	6.1	20.3	16 E	8*	7*
10 8	13 38.62	+ 0 6.4	3.636	2.669	4.6	20.2	12 E	6*	1*
10 18	13 54.49	− 0 57.7	3.670	2.696	3.8	20.2	10 E	4*	—
10 28	14 10.31	− 1 56.7	3.690	2.722	4.1	20.3	11 E	2*	—
11 7	14 26.04	− 2 49.6	3.694	2.747	5.2	20.4	15 W	8*	—
11 17	14 41.65	− 3 35.6	3.684	2.771	6.8	20.5	19 W	13*	—
11 27	14 57.07	− 4 13.8	3.658	2.794	8.5	20.5	25 W	19*	2*
12 7	15 12.25	− 4 43.4	3.618	2.815	10.3	20.6	31 W	24*	8*
12 17	15 27.10	− 5 3.9	3.564	2.836	12.0	20.6	37 W	28*	14*
12 27	15 41.51	− 5 14.4	3.496	2.856	13.6	20.7	43 W	31*	21*
1 6	15 55.38	− 5 14.3	3.415	2.875	15.1	20.7	49 W	34*	28*
1 16	16 8.58	− 5 3.4	3.323	2.893	16.4	20.7	56 W	36*	36*

90075 2002 VU_{94}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	9 27.66	+ 1 45.8	1.642	2.357	19.8	19.2	126 W	47	62
1 2	9 24.23	+ 0 54.4	1.485	2.296	17.4	18.9	136 W	46	63
1 12	9 17.26	+ 0 18.9	1.346	2.232	14.2	18.5	146 W	45	64
1 22	9 6.66	+ 0 4.6	1.229	2.166	10.5	18.1	156 W	45	64
2 1	8 52.89	+ 0 16.0	1.137	2.098	7.9	17.7	163 E	45	64
2 11	8 37.16	+ 0 54.7	1.072	2.028	9.4	17.6	160 E	46	63
2 16	8 29.12	+ 1 23.5	1.050	1.993	11.7	17.6	156 E	46	63
2 21	8 21.29	+ 1 57.7	1.034	1.956	14.4	17.6	151 E	47	62
2 26	8 13.94	+ 2 36.2	1.024	1.919	17.3	17.7	145 E	48	61
3 2	8 7.32	+ 3 17.8	1.019	1.882	20.3	17.7	139 E	48	61
3 7	8 1.61	+ 4 1.2	1.019	1.844	23.2	17.8	133 E	49	60
3 12	7 56.95	+ 4 45.1	1.023	1.806	26.0	17.8	127 E	50	59
3 17	7 53.43	+ 5 28.7	1.030	1.767	28.7	17.9	121 E	50	59
3 22	7 51.12	+ 6 11.1	1.039	1.727	31.2	17.9	116 E	51	58
4 1	7 50.16	+ 7 29.5	1.060	1.647	35.6	18.0	106 E	52	57
4 11	7 53.93	+ 8 36.2	1.082	1.566	39.4	18.0	97 E	53*	55
4 21	8 2.04	+ 9 29.0	1.099	1.484	42.6	18.0	90 E	51*	55
5 1	8 14.14	+10 6.6	1.108	1.401	45.5	18.0	83 E	47*	54*
5 11	8 29.88	+10 28.0	1.107	1.318	48.3	17.9	77 E	42*	53*
5 21	8 48.97	+10 32.7	1.095	1.237	51.0	17.8	72 E	37*	51*
5 31	9 11.31	+10 20.1	1.070	1.158	54.0	17.7	67 E	32*	50*
6 10	9 36.79	+ 9 50.4	1.032	1.085	57.2	17.6	64 E	28*	49*
6 20	10 5.44	+ 9 3.9	0.983	1.020	61.0	17.5	61 E	25*	49*
6 30	10 37.44	+ 8 1.5	0.922	0.966	65.1	17.4	60 E	23*	48*
7 10	11 13.02	+ 6 44.8	0.854	0.927	69.5	17.2	59 E	22*	48*
7 20	11 52.64	+ 5 15.3	0.783	0.907	73.5	17.1	59 E	22*	49*

90075 2002 VU_{94} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 30	12 37.05	+ 3 33.2	0.713	0.907	76.6	17.0	60 E	24*	50*
8 9	13 27.03	+ 1 38.0	0.651	0.927	77.8	16.9	63 E	26*	52*
8 19	14 23.18	− 0 30.6	0.604	0.966	76.5	16.8	68 E	30*	56*
8 24	14 53.43	− 1 38.6	0.589	0.991	74.8	16.7	71 E	31*	58*
8 29	15 24.79	− 2 47.0	0.581	1.019	72.5	16.7	74 E	33*	61*
9 3	15 56.82	− 3 53.5	0.579	1.051	69.7	16.7	78 E	35*	63*
9 8	16 28.97	− 4 55.5	0.586	1.085	66.6	16.7	81 E	36*	65*
9 13	17 0.64	− 5 50.7	0.600	1.120	63.4	16.7	84 E	37*	67*
9 18	17 31.29	− 6 37.4	0.622	1.158	60.1	16.7	87 E	37*	69*
9 28	18 27.97	− 7 41.7	0.688	1.236	54.1	16.9	92 E	37*	71*
10 8	19 17.26	− 8 8.7	0.781	1.317	49.1	17.2	95 E	37	72*
10 18	19 59.44	− 8 5.5	0.894	1.400	45.1	17.5	95 E	37	72*
10 23	20 18.22	− 7 54.9	0.958	1.441	43.4	17.7	95 E	37	71*
10 28	20 35.68	− 7 39.3	1.026	1.483	41.9	17.8	94 E	37	70*
11 2	20 51.97	− 7 19.4	1.097	1.524	40.5	18.0	94 E	38	70*
11 7	21 7.24	− 6 55.9	1.171	1.565	39.2	18.2	92 E	38	68*
11 12	21 21.61	− 6 29.3	1.249	1.606	38.0	18.3	91 E	39	67*
11 17	21 35.22	− 5 59.8	1.329	1.647	36.9	18.5	89 E	39	65*
11 27	22 0.53	− 4 53.8	1.495	1.727	34.7	18.8	86 E	40	61*
12 7	22 23.78	− 3 40.2	1.667	1.805	32.7	19.1	81 E	41	56*
12 17	22 45.46	− 2 20.9	1.845	1.881	30.6	19.3	77 E	43	50*
12 27	23 5.93	− 0 57.3	2.024	1.956	28.5	19.5	72 E	44*	45*
1 6	23 25.44	+ 0 29.2	2.204	2.028	26.5	19.7	67 E	44*	39*
1 16	23 44.20	+ 1 57.7	2.382	2.098	24.3	19.9	61 E	44*	34*

349063 2006 *XA*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	9 29.39	− 0 36.7	0.636	1.441	34.3	18.5	124 W	44	65
12 28	9 37.55	− 3 32.0	0.579	1.404	34.6	18.3	126 W	41	68
1 2	9 45.95	− 6 48.9	0.527	1.367	35.1	18.0	127 W	38	71
1 7	9 54.77	−10 30.6	0.478	1.330	35.8	17.8	128 W	34	75
1 12	10 4.25	−14 40.4	0.434	1.295	37.0	17.5	128 W	30	79
1 17	10 14.70	−19 21.5	0.395	1.260	38.8	17.3	127 W	26	83
1 22	10 26.59	−24 35.7	0.360	1.226	41.1	17.1	125 W	20	89
1 27	10 40.59	−30 23.0	0.329	1.194	44.2	17.0	122 W	15	86
2 1	10 57.77	−36 39.4	0.305	1.163	48.0	16.9	119 W	8	79
2 3	11 5.87	−39 16.4	0.296	1.151	49.7	16.8	117 W	6	77
2 5	11 14.86	−41 55.6	0.288	1.139	51.5	16.8	115 W	3	74
2 7	11 24.90	−44 36.1	0.282	1.128	53.4	16.8	113 W	—	71
2 9	11 36.18	−47 16.4	0.276	1.117	55.3	16.8	111 W	—	69
2 11	11 48.91	−49 54.8	0.271	1.106	57.3	16.8	109 W	—	66
2 13	12 3.34	−52 29.3	0.266	1.096	59.3	16.8	107 W	—	64
2 15	12 19.71	−54 57.5	0.263	1.086	61.4	16.8	105 W	—	61
2 17	12 38.29	−57 16.7	0.260	1.077	63.4	16.8	103 W	—	59
2 19	12 59.31	−59 23.8	0.258	1.068	65.3	16.8	101 W	—	57
2 21	13 22.91	−61 15.7	0.257	1.059	67.2	16.8	99 W	—	55
2 22	13 35.68	−62 4.9	0.257	1.055	68.2	16.9	98 W	—	54
2 23	13 49.05	−62 49.1	0.257	1.052	69.1	16.9	97 W	—	53
2 24	14 3.00	−63 27.9	0.257	1.048	69.9	16.9	96 W	—	53
2 25	14 17.44	−64 1.0	0.257	1.044	70.8	16.9	95 W	—	52
2 26	14 32.31	−64 28.1	0.257	1.041	71.6	16.9	94 W	—	52
2 27	14 47.48	−64 49.1	0.258	1.037	72.4	17.0	93 W	—	51
2 28	15 2.85	−65 3.9	0.259	1.034	73.2	17.0	92 W	—	51
2 29	15 18.29	−65 12.4	0.259	1.031	73.9	17.0	92 W	—	51
3 1	15 33.66	−65 14.8	0.260	1.028	74.6	17.0	91 W	—	51
3 2	15 48.84	−65 11.2	0.261	1.025	75.3	17.1	90 W	—	51
3 3	16 3.71	−65 1.9	0.263	1.022	75.9	17.1	89 W	—	51
3 4	16 18.16	−64 47.2	0.264	1.020	76.5	17.1	89 W	—	51
3 5	16 32.12	−64 27.5	0.265	1.017	77.0	17.1	88 W	—	52*
3 6	16 45.51	−64 3.3	0.267	1.015	77.5	17.2	87 W	—	52*
3 7	16 58.30	−63 34.9	0.269	1.013	78.0	17.2	87 W	—	52*
3 8	17 10.45	−63 2.8	0.270	1.011	78.4	17.2	86 W	—	53*
3 9	17 21.97	−62 27.5	0.272	1.009	78.8	17.2	86 W	—	53*
3 10	17 32.84	−61 49.3	0.274	1.007	79.2	17.3	85 W	—	53*
3 11	17 43.09	−61 8.6	0.276	1.006	79.5	17.3	85 W	—	54*
3 12	17 52.73	−60 25.9	0.278	1.004	79.8	17.3	84 W	—	54*
3 13	18 1.80	−59 41.4	0.281	1.003	80.0	17.3	84 W	—	55*
3 14	18 10.32	−58 55.4	0.283	1.002	80.3	17.4	83 W	—	55*
3 15	18 18.33	−58 8.2	0.285	1.001	80.4	17.4	83 W	—	56*
3 16	18 25.85	−57 20.1	0.288	1.001	80.6	17.4	83 W	—	56*
3 17	18 32.92	−56 31.2	0.290	1.000	80.7	17.4	83 W	—	57*
3 18	18 39.57	−55 41.8	0.293	1.000	80.7	17.5	82 W	—	57*
3 19	18 45.83	−54 52.0	0.295	0.999	80.8	17.5	82 W	—	58*
3 20	18 51.73	−54 1.9	0.298	0.999	80.8	17.5	82 W	—	58*
3 21	18 57.30	−53 11.7	0.300	0.999	80.7	17.5	82 W	—	59*
3 22	19 2.55	−52 21.5	0.303	1.000	80.7	17.5	82 W	—	59*
3 24	19 12.21	−50 41.3	0.308	1.001	80.5	17.6	82 W	—	61*
3 26	19 20.87	−49 2.0	0.314	1.002	80.1	17.6	82 W	—	62*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
349063 2006 *XA* *(continuation)*									
3 28	19 28.68	−47 24.1	0.319	1.005	79.7	17.6	82 W	—	63*
3 30	19 35.74	−45 47.7	0.325	1.007	79.2	17.6	82 W	—	65*
4 1	19 42.15	−44 13.3	0.331	1.011	78.5	17.7	83 W	—	66*
4 3	19 47.99	−42 40.8	0.336	1.015	77.8	17.7	83 W	—	67*
4 5	19 53.32	−41 10.5	0.342	1.020	77.1	17.7	83 W	—	69*
4 7	19 58.20	−39 42.4	0.347	1.025	76.2	17.7	84 W	1*	70*
4 9	20 2.68	−38 16.5	0.353	1.031	75.3	17.7	85 W	3*	72*
4 11	20 6.79	−36 52.7	0.358	1.037	74.4	17.7	86 W	4*	73*
4 16	20 15.60	−33 33.1	0.371	1.056	71.8	17.8	88 W	7*	78*
4 21	20 22.54	−30 26.7	0.383	1.077	68.9	17.8	90 W	10*	82*
4 26	20 27.79	−27 32.9	0.393	1.102	65.8	17.8	93 W	14*	87*
5 1	20 31.46	−24 50.9	0.403	1.128	62.5	17.8	97 W	17*	89
5 6	20 33.60	−22 20.1	0.412	1.157	59.0	17.8	100 W	20*	86
5 11	20 34.24	−19 59.9	0.420	1.188	55.4	17.8	105 W	23*	84
5 21	20 31.01	−15 50.7	0.435	1.254	47.5	17.8	114 W	28*	80
5 31	20 21.84	−12 23.3	0.452	1.324	39.0	17.7	125 W	33*	76
6 10	20 7.63	− 9 40.4	0.474	1.397	30.1	17.7	136 W	35	74
6 15	19 59.12	− 8 36.6	0.489	1.434	25.6	17.7	142 W	36	73
6 20	19 50.05	− 7 45.0	0.507	1.472	21.3	17.7	148 W	37	72
6 25	19 40.75	− 7 5.6	0.529	1.509	17.2	17.7	154 W	38	71
6 30	19 31.61	− 6 37.9	0.555	1.547	13.7	17.8	159 W	38	71
7 5	19 22.94	− 6 20.9	0.586	1.585	11.2	17.8	162 W	39	70
7 10	19 15.00	− 6 13.4	0.621	1.623	10.0	18.0	164 E	39	70
7 15	19 7.98	− 6 14.2	0.661	1.660	10.3	18.2	163 E	39	70
7 20	19 2.01	− 6 21.7	0.706	1.698	11.7	18.4	160 E	39	70
7 25	18 57.17	− 6 34.5	0.756	1.735	13.6	18.7	156 E	38	71
7 30	18 53.49	− 6 51.2	0.809	1.772	15.6	18.9	152 E	38	71
8 4	18 50.94	− 7 10.6	0.868	1.808	17.5	19.2	148 E	38	71
8 9	18 49.44	− 7 31.6	0.930	1.844	19.2	19.4	143 E	37	72
8 14	18 48.92	− 7 53.5	0.996	1.880	20.8	19.7	139 E	37	72
8 19	18 49.32	− 8 15.4	1.065	1.916	22.1	19.9	134 E	37	72
8 29	18 52.54	− 8 57.4	1.214	1.985	24.2	20.3	126 E	36	73
9 8	18 58.47	− 9 34.3	1.373	2.054	25.6	20.7	118 E	35	74
9 18	19 6.55	−10 4.0	1.541	2.120	26.3	21.1	111 E	35	74
9 28	19 16.35	−10 25.3	1.717	2.185	26.4	21.4	104 E	35	74
277353 2005 TE_{105}									
12 23	9 30.11	+14 14.0	2.015	2.755	15.8	21.5	130 W	59	50
1 2	9 24.98	+14 25.8	1.928	2.768	12.7	21.3	142 W	59	50
1 12	9 17.24	+14 48.6	1.863	2.779	9.0	21.1	154 W	60	49
1 22	9 7.45	+15 19.4	1.824	2.790	4.8	20.8	166 W	60	49
2 1	8 56.49	+15 54.2	1.814	2.799	0.5	20.5	178 W	61	48
2 11	8 45.52	+16 28.0	1.836	2.808	4.2	20.8	168 E	61	48
2 21	8 35.68	+16 57.0	1.886	2.815	8.4	21.1	155 E	62	47
3 2	8 27.87	+17 18.8	1.963	2.822	12.1	21.3	143 E	62	47
159781 2003 MZ_7									
12 23	9 30.37	− 0 10.4	1.800	2.490	19.0	19.6	124 W	45	64
1 2	9 25.38	− 0 44.7	1.738	2.528	16.0	19.5	135 W	44	65
1 12	9 17.79	− 0 57.8	1.695	2.565	12.6	19.3	145 W	44	65
1 22	9 8.28	− 0 48.6	1.675	2.602	9.1	19.2	155 W	44	65
2 1	8 57.80	− 0 18.3	1.682	2.637	6.5	19.1	162 W	45	64
2 6	8 52.58	+ 0 3.5	1.696	2.655	6.2	19.1	163 E	45	64
2 11	8 47.55	+ 0 28.8	1.717	2.672	6.6	19.2	162 E	45	64
2 16	8 42.85	+ 0 56.8	1.745	2.689	7.7	19.3	159 E	46	63
2 21	8 38.59	+ 1 26.6	1.780	2.706	9.1	19.4	154 E	46	63
2 26	8 34.87	+ 1 57.4	1.821	2.722	10.6	19.5	150 E	47	62
3 2	8 31.76	+ 2 28.4	1.869	2.739	12.1	19.7	145 E	47	62
3 12	8 27.52	+ 3 28.3	1.981	2.771	14.8	19.9	135 E	48	61
3 22	8 25.95	+ 4 22.1	2.110	2.802	17.0	20.2	125 E	49	60
4 1	8 26.94	+ 5 7.0	2.254	2.832	18.6	20.4	116 E	50	59
4 11	8 30.23	+ 5 41.5	2.408	2.862	19.6	20.6	107 E	51	58
4 21	8 35.50	+ 6 5.2	2.567	2.890	20.1	20.8	98 E	50*	58
5 1	8 42.43	+ 6 18.0	2.730	2.918	20.2	20.9	90 E	47*	58
5 11	8 50.74	+ 6 20.2	2.892	2.945	19.9	21.0	83 E	41*	57*
5 21	9 0.15	+ 6 12.5	3.053	2.970	19.3	21.2	76 E	35*	56*
5 31	9 10.45	+ 5 55.4	3.208	2.995	18.4	21.3	69 E	29*	54*
6 10	9 21.45	+ 5 29.5	3.357	3.019	17.3	21.3	62 E	22*	51*
6 20	9 32.99	+ 4 55.7	3.498	3.042	16.0	21.4	56 E	16*	47*
6 30	9 44.96	+ 4 14.4	3.629	3.064	14.6	21.4	49 E	11*	42*
7 10	9 57.23	+ 3 26.6	3.750	3.085	13.0	21.5	43 E	6*	37*
7 20	10 9.73	+ 2 32.7	3.858	3.105	11.3	21.5	37 E	2*	31*
7 30	10 22.38	+ 1 33.5	3.952	3.124	9.6	21.5	31 E	—	25*
8 9	10 35.13	+ 0 29.7	4.033	3.142	7.8	21.5	25 E	—	18*
8 19	10 47.93	− 0 38.1	4.098	3.159	6.0	21.4	19 E	—	12*
8 29	11 0.73	− 1 49.2	4.148	3.175	4.3	21.4	13 E	—	6*
9 8	11 13.49	− 3 3.1	4.181	3.190	2.8	21.3	9 E	—	—
9 18	11 26.18	− 4 19.0	4.198	3.204	2.3	21.3	7 W	—	—

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
159781 2003 MZ_7 *(continuation)*									
9 28	11 38.75	− 5 36.4	4.197	3.217	3.3	21.4	11 W	—	4*
10 8	11 51.16	− 6 54.6	4.179	3.230	4.8	21.5	16 W	4*	9*
719 Albert									
12 23	9 31.11	+ 2 38.6	2.866	3.529	13.1	21.3	125 W	48	61
1 2	9 26.10	+ 2 46.1	2.784	3.562	11.0	21.2	136 W	48	61
1 12	9 19.36	+ 3 7.3	2.725	3.595	8.4	21.0	148 W	48	61
1 22	9 11.30	+ 3 41.5	2.692	3.626	5.7	20.9	159 W	49	60
2 1	9 2.51	+ 4 26.5	2.690	3.656	3.5	20.8	167 W	49	60
2 11	8 53.71	+ 5 19.2	2.719	3.685	3.6	20.8	166 E	50	59
2 21	8 45.60	+ 6 15.6	2.780	3.713	5.8	21.0	158 E	51	58
3 2	8 38.78	+ 7 11.8	2.870	3.740	8.3	21.2	147 E	52	57
3 12	8 33.65	+ 8 4.5	2.986	3.766	10.5	21.4	136 E	53	56
136582 1992 *BA*									
12 23	9 31.18	+ 1 13.0	0.590	1.406	35.0	20.9	125 W	46	63
12 28	9 33.78	+ 1 26.9	0.556	1.403	32.9	20.7	129 W	46	63
1 2	9 35.23	+ 1 55.1	0.524	1.399	30.3	20.5	134 W	47	62
1 7	9 35.45	+ 2 39.6	0.494	1.396	27.4	20.3	139 W	48	61
1 12	9 34.35	+ 3 42.3	0.467	1.392	23.9	20.1	145 W	49	60
1 17	9 31.90	+ 5 4.4	0.442	1.387	20.1	19.8	151 W	50	59
1 22	9 28.10	+ 6 46.6	0.421	1.383	15.7	19.6	158 W	52	57
1 27	9 23.04	+ 8 48.0	0.404	1.379	10.9	19.3	165 W	54	55
2 1	9 16.97	+11 5.7	0.392	1.374	5.9	19.0	172 W	56	53
2 6	9 10.22	+13 35.0	0.384	1.370	1.9	18.7	177 E	59	50
2 11	9 3.19	+16 9.7	0.381	1.365	5.7	18.9	172 E	61	48
2 16	8 56.34	+18 43.0	0.382	1.360	11.1	19.2	165 E	64	45
2 21	8 50.11	+21 8.9	0.388	1.355	16.3	19.4	157 E	66	43
2 26	8 44.97	+23 22.1	0.398	1.350	21.2	19.6	150 E	68	41
3 2	8 41.23	+25 19.6	0.411	1.345	25.7	19.8	144 E	70	39
3 7	8 39.13	+26 59.8	0.427	1.340	29.8	20.0	138 E	72	37
3 12	8 38.73	+28 22.9	0.445	1.335	33.3	20.2	132 E	73	36
3 17	8 40.01	+29 29.4	0.466	1.330	36.5	20.3	127 E	74	35
3 22	8 42.92	+30 20.3	0.487	1.325	39.2	20.5	123 E	75	34
3 27	8 47.36	+30 57.0	0.510	1.320	41.6	20.7	119 E	76	33
4 1	8 53.20	+31 20.4	0.533	1.315	43.6	20.8	115 E	76	33
4 6	9 0.28	+31 31.8	0.556	1.310	45.3	20.9	111 E	77	32
4 11	9 8.42	+31 32.1	0.580	1.305	46.8	21.1	108 E	77	32
4 16	9 17.47	+31 22.0	0.603	1.301	48.1	21.2	105 E	76	33
4 21	9 27.31	+31 2.1	0.627	1.296	49.1	21.3	103 E	76	33
4 26	9 37.82	+30 32.9	0.650	1.292	50.0	21.4	100 E	75*	33
5 1	9 48.90	+29 55.1	0.672	1.287	50.8	21.5	98 E	74*	34
161634 2005 YN_{277}									
12 23	9 32.23	+13 21.0	1.849	2.588	17.1	21.1	129 W	58	51
1 2	9 27.35	+13 33.9	1.773	2.611	13.7	20.9	141 W	59	50
1 12	9 19.73	+13 59.6	1.719	2.633	9.8	20.7	153 W	59	50
1 22	9 9.98	+14 34.8	1.689	2.653	5.3	20.5	165 W	60	49
1 27	9 4.58	+14 54.6	1.685	2.664	3.0	20.4	172 W	60	49
2 1	8 59.05	+15 14.9	1.689	2.674	0.9	20.2	178 W	60	49
2 6	8 53.53	+15 35.0	1.700	2.683	1.9	20.3	175 E	61	48
2 11	8 48.18	+15 54.4	1.718	2.693	4.2	20.5	169 E	61	48
2 16	8 43.14	+16 12.5	1.744	2.702	6.4	20.7	162 E	61	48
2 21	8 38.55	+16 29.0	1.777	2.711	8.5	20.8	156 E	61	48
2 26	8 34.50	+16 43.5	1.816	2.720	10.5	20.9	150 E	62	47
3 2	8 31.08	+16 55.9	1.862	2.728	12.3	21.1	144 E	62	47
3 7	8 28.34	+17 5.9	1.913	2.737	13.9	21.2	139 E	62	47
3 12	8 26.31	+17 13.6	1.968	2.745	15.3	21.3	133 E	62	47
3 17	8 25.00	+17 19.0	2.028	2.753	16.6	21.4	128 E	62	47
110325 2001 SZ_{285}									
12 23	9 32.72	+35 9.6	2.775	3.523	11.7	20.2	133 W	80	29
1 2	9 27.64	+36 29.7	2.691	3.525	9.7	20.0	143 W	81	28
1 12	9 20.16	+37 48.9	2.631	3.527	7.6	19.9	152 W	83	26
1 22	9 10.69	+39 0.1	2.599	3.527	6.2	19.8	157 W	84	25
1 27	9 5.43	+39 30.7	2.594	3.527	6.0	19.8	158 W	85	24
2 1	9 0.00	+39 56.9	2.597	3.527	6.2	19.8	157 W	85	24
2 6	8 54.51	+40 18.2	2.607	3.527	6.7	19.8	155 E	85	24
2 11	8 49.10	+40 34.3	2.625	3.526	7.6	19.9	152 E	86	23
2 16	8 43.91	+40 45.2	2.649	3.525	8.6	19.9	148 E	86	23
2 21	8 39.05	+40 50.9	2.680	3.524	9.6	20.0	143 E	86	23
2 26	8 34.63	+40 51.5	2.717	3.523	10.7	20.1	139 E	86	23
3 2	8 30.74	+40 47.5	2.760	3.521	11.7	20.2	134 E	86	23
3 7	8 27.44	+40 39.3	2.808	3.520	12.6	20.2	129 E	86	23
3 12	8 24.78	+40 27.5	2.860	3.518	13.5	20.3	124 E	85	24
3 22	8 21.42	+39 54.5	2.975	3.513	14.9	20.4	115 E	85	24
4 1	8 20.68	+39 12.1	3.101	3.508	15.9	20.5	106 E	84	25
4 11	8 22.39	+38 23.1	3.234	3.501	16.5	20.7	97 E	83*	26
4 21	8 26.26	+37 29.4	3.369	3.494	16.7	20.7	89 E	77*	27

110325 2001 SZ_{285} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	8 32.00	+36 32.4	3.502	3.486	16.6	20.8	81 E	69*	27
5 11	8 39.32	+35 32.6	3.632	3.477	16.1	20.9	73 E	61*	28*
5 21	8 47.95	+34 30.6	3.755	3.467	15.5	20.9	66 E	52*	28*
5 31	8 57.65	+33 26.3	3.870	3.457	14.5	20.9	59 E	45*	28*
6 10	9 8.21	+32 20.1	3.973	3.445	13.5	21.0	52 E	38*	26*
6 20	9 19.46	+31 11.8	4.065	3.433	12.2	21.0	46 E	31*	24*
6 30	9 31.27	+30 1.5	4.144	3.420	10.9	20.9	39 E	26*	21*
7 10	9 43.50	+28 49.5	4.208	3.405	9.5	20.9	33 E	21*	18*
7 20	9 56.06	+27 35.7	4.257	3.390	8.0	20.9	28 E	17*	13*
7 30	10 8.88	+26 20.6	4.291	3.375	6.6	20.8	22 E	14*	8*
8 9	10 21.86	+25 4.3	4.308	3.358	5.3	20.7	18 E	11*	3*
8 19	10 34.96	+23 47.3	4.309	3.340	4.4	20.7	15 E	9*	—
8 29	10 48.14	+22 30.0	4.294	3.322	4.2	20.6	14 E	6*	—
9 8	11 1.33	+21 13.0	4.262	3.302	4.7	20.6	16 W	6*	—
9 18	11 14.51	+19 56.7	4.214	3.282	5.8	20.7	19 W	12*	—
9 28	11 27.63	+18 42.0	4.149	3.261	7.2	20.7	24 W	17*	—
10 8	11 40.64	+17 29.5	4.069	3.239	8.8	20.7	30 W	23*	—
10 18	11 53.51	+16 20.0	3.974	3.216	10.4	20.7	36 W	30*	4*
10 28	12 6.18	+15 14.5	3.865	3.193	12.0	20.7	42 W	36*	8*
11 7	12 18.57	+14 14.0	3.743	3.168	13.5	20.6	48 W	42*	13*
11 17	12 30.62	+13 19.4	3.609	3.143	14.9	20.6	55 W	47*	18*
11 27	12 42.21	+12 32.0	3.464	3.116	16.2	20.5	61 W	51*	23*
12 7	12 53.25	+11 53.0	3.311	3.089	17.3	20.5	69 W	55*	29*
12 17	13 3.58	+11 23.5	3.151	3.061	18.2	20.4	76 W	56*	35*
12 27	13 13.03	+11 5.0	2.986	3.032	18.8	20.2	83 W	56	42*
1 6	13 21.38	+10 58.5	2.819	3.003	19.1	20.1	91 W	56	47*
1 16	13 28.40	+11 5.2	2.652	2.972	19.1	20.0	99 W	56	51*

22807 1999 RK_7

12 23	9 33.42	+17 26.9	1.835	2.584	16.8	19.5	130 W	62	47
1 2	9 28.65	+17 56.7	1.753	2.599	13.5	19.3	142 W	63	46
1 12	9 20.98	+18 37.3	1.693	2.612	9.5	19.1	154 W	64	45
1 22	9 10.98	+19 24.0	1.658	2.625	5.0	18.8	166 W	64	45
1 27	9 5.40	+19 47.8	1.652	2.631	2.8	18.7	173 W	65	44
2 1	8 59.64	+20 10.7	1.653	2.637	1.1	18.6	177 W	65	44
2 6	8 53.86	+20 32.0	1.661	2.643	2.6	18.7	173 E	66	43
2 11	8 48.24	+20 51.1	1.677	2.648	4.8	18.8	167 E	66	43
2 16	8 42.93	+21 7.6	1.700	2.653	7.0	19.0	161 E	66	43
2 21	8 38.07	+21 21.3	1.730	2.658	9.1	19.1	155 E	66	43
3 2	8 30.15	+21 39.3	1.809	2.667	13.0	19.4	143 E	67	42
3 12	8 25.08	+21 45.4	1.909	2.675	16.1	19.6	132 E	67	42
3 22	8 23.03	+21 40.8	2.025	2.682	18.5	19.8	121 E	67	42
4 1	8 23.87	+21 26.8	2.153	2.688	20.2	20.0	112 E	66	43
4 11	8 27.33	+21 4.6	2.288	2.693	21.3	20.2	103 E	66*	43
4 21	8 33.03	+20 35.0	2.427	2.697	21.8	20.3	94 E	64*	43
5 1	8 40.63	+19 58.4	2.567	2.700	21.9	20.5	87 E	58*	44
5 11	8 49.78	+19 15.3	2.704	2.702	21.5	20.6	79 E	52*	45*
5 21	9 0.19	+18 25.7	2.838	2.703	20.9	20.7	72 E	45*	45*
5 31	9 11.62	+17 30.0	2.965	2.703	19.9	20.7	65 E	37*	44*
6 10	9 23.86	+16 28.4	3.084	2.702	18.8	20.8	59 E	30*	42*
6 20	9 36.74	+15 21.0	3.194	2.701	17.4	20.8	53 E	24*	40*
6 30	9 50.14	+14 8.2	3.295	2.698	15.9	20.8	47 E	19*	36*
7 10	10 3.94	+12 50.3	3.384	2.694	14.2	20.8	41 E	14*	32*
7 20	10 18.06	+11 27.7	3.461	2.689	12.4	20.8	35 E	10*	27*
7 30	10 32.44	+10 0.8	3.526	2.683	10.6	20.7	29 E	7*	22*
8 9	10 47.02	+ 8 30.0	3.577	2.677	8.6	20.7	23 E	4*	17*
8 19	11 1.77	+ 6 55.8	3.615	2.669	6.6	20.6	18 E	1*	12*
8 29	11 16.67	+ 5 18.7	3.639	2.660	4.6	20.5	12 E	—	6*
9 8	11 31.68	+ 3 39.4	3.649	2.651	2.5	20.4	7 E	—	—
9 18	11 46.81	+ 1 58.3	3.645	2.640	0.4	20.2	1 E	—	—
9 28	12 2.04	+ 0 16.1	3.626	2.628	1.8	20.3	5 W	—	—
10 8	12 17.35	− 1 26.6	3.593	2.616	3.9	20.4	10 W	4*	—
10 18	12 32.75	− 3 9.2	3.545	2.602	6.1	20.5	16 W	9*	4*
10 28	12 48.20	− 4 50.9	3.484	2.588	8.2	20.5	22 W	14*	8*
11 7	13 3.70	− 6 31.0	3.410	2.573	10.3	20.6	28 W	18*	13*
11 17	13 19.22	− 8 8.9	3.322	2.556	12.3	20.6	33 W	22*	18*
11 27	13 34.73	− 9 43.9	3.223	2.539	14.3	20.6	39 W	26*	23*
12 7	13 50.16	−11 15.3	3.112	2.521	16.2	20.5	45 W	28*	29*
12 17	14 5.48	−12 42.4	2.991	2.502	18.0	20.5	52 W	29*	36*
12 27	14 20.56	−14 4.5	2.861	2.482	19.6	20.4	58 W	30*	43*
1 6	14 35.33	−15 21.2	2.723	2.462	21.1	20.4	64 W	29*	50*
1 16	14 49.64	−16 32.0	2.579	2.440	22.4	20.3	71 W	28*	58*

259145 2002 XM_{82}

12 23	9 34.62	+13 43.7	0.927	1.726	26.3	19.8	129 W	59	50
1 2	9 32.14	+12 39.3	0.873	1.741	21.5	19.6	139 W	58	51
1 12	9 25.15	+11 51.0	0.833	1.758	15.8	19.3	151 W	57	52
1 22	9 14.44	+11 18.8	0.812	1.776	9.3	19.0	163 W	56	53
1 27	9 8.18	+11 8.2	0.809	1.785	6.1	18.9	169 W	56	53
2 1	9 1.68	+11 0.7	0.813	1.795	3.6	18.8	173 W	56	53

259145 2002 XM_{82} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 6	8 55.24	+10 55.8	0.822	1.804	3.8	18.8	173 E	56	53
2 11	8 49.15	+10 52.8	0.837	1.814	6.4	19.0	168 E	56	53
2 16	8 43.65	+10 51.2	0.858	1.824	9.4	19.2	162 E	56	53
2 21	8 38.93	+10 50.4	0.884	1.834	12.4	19.4	157 E	56	53
3 2	8 32.41	+10 49.1	0.951	1.854	17.7	19.8	145 E	56	53
3 12	8 30.12	+10 45.2	1.036	1.875	22.0	20.1	135 E	56	53
3 22	8 31.86	+10 36.1	1.133	1.896	25.3	20.4	126 E	56	53
4 1	8 37.15	+10 20.0	1.242	1.917	27.6	20.7	117 E	55	54
4 11	8 45.36	+ 9 55.3	1.357	1.938	29.2	21.0	110 E	55	54
4 21	8 55.89	+ 9 21.7	1.478	1.959	30.0	21.2	103 E	54*	55
5 1	9 8.24	+ 8 38.7	1.603	1.981	30.4	21.4	96 E	51*	55

37117 Narcissus

12 23	9 35.06	− 1 32.8	3.281	3.900	12.3	19.5	123 W	43	66
1 2	9 32.51	− 2 2.4	3.209	3.940	10.6	19.4	133 W	43	66
1 12	9 28.54	− 2 19.5	3.156	3.981	8.7	19.3	142 W	43	66
1 22	9 23.45	− 2 23.7	3.127	4.022	6.6	19.2	152 W	43	66
2 1	9 17.69	− 2 15.3	3.125	4.063	4.9	19.1	160 W	43	66
2 11	9 11.77	− 1 56.0	3.152	4.104	4.1	19.1	163 E	43	66
2 21	9 6.22	− 1 28.1	3.208	4.146	4.9	19.2	159 E	44	65
3 2	9 1.50	− 0 54.7	3.292	4.188	6.5	19.4	151 E	44	65
3 12	8 57.97	− 0 19.0	3.403	4.231	8.3	19.6	142 E	45	64
3 22	8 55.85	+ 0 16.0	3.536	4.273	9.9	19.7	133 E	45	64
4 1	8 55.25	+ 0 48.0	3.688	4.316	11.2	19.9	123 E	46	63
4 11	8 56.14	+ 1 15.0	3.856	4.359	12.1	20.1	114 E	46	63
4 21	8 58.43	+ 1 35.9	4.034	4.402	12.7	20.2	105 E	46*	62
5 1	9 2.02	+ 1 50.1	4.219	4.445	13.0	20.3	96 E	44*	62
5 11	9 6.73	+ 1 57.0	4.407	4.488	13.0	20.4	88 E	40*	62
5 21	9 12.42	+ 1 56.8	4.595	4.532	12.7	20.5	80 E	34*	61*
5 31	9 18.93	+ 1 49.6	4.780	4.575	12.2	20.6	72 E	27*	59*
6 10	9 26.11	+ 1 35.6	4.959	4.618	11.5	20.7	65 E	20*	55*
6 20	9 33.84	+ 1 15.3	5.130	4.662	10.6	20.8	57 E	14*	50*
6 30	9 42.01	+ 0 49.1	5.291	4.706	9.6	20.8	50 E	8*	44*
7 10	9 50.50	+ 0 17.5	5.439	4.749	8.4	20.8	43 E	3*	37*
7 20	9 59.22	− 0 19.1	5.574	4.793	7.2	20.9	36 E	—	30*
7 30	10 8.10	− 1 0.2	5.693	4.836	5.9	20.9	30 E	—	23*
8 9	10 17.04	− 1 45.2	5.796	4.880	4.7	20.9	23 E	—	15*
8 19	10 26.00	− 2 33.6	5.880	4.923	3.5	20.8	17 E	—	8*
8 29	10 34.88	− 3 24.9	5.947	4.967	2.6	20.8	13 E	—	1*
9 8	10 43.64	− 4 18.6	5.993	5.010	2.3	20.8	12 W	—	4*
9 18	10 52.20	− 5 14.2	6.021	5.054	2.8	20.9	14 W	—	8*
9 28	11 0.49	− 6 11.0	6.028	5.097	3.8	21.0	20 W	5*	13*
10 8	11 8.44	− 7 8.5	6.016	5.140	5.0	21.1	26 W	11*	18*
10 18	11 15.98	− 8 6.1	5.984	5.184	6.1	21.1	34 W	18*	24*
10 28	11 23.03	− 9 3.1	5.935	5.227	7.2	21.2	41 W	23*	29*
11 7	11 29.48	− 9 58.9	5.868	5.270	8.1	21.2	49 W	28*	35*
11 17	11 35.26	−10 52.7	5.786	5.313	9.0	21.2	57 W	31*	42*
11 27	11 40.25	−11 43.7	5.691	5.355	9.6	21.3	65 W	33*	49*
12 7	11 44.36	−12 31.0	5.586	5.398	10.1	21.2	74 W	32	57*
12 17	11 47.48	−13 13.8	5.473	5.441	10.3	21.2	83 W	32	66*
12 27	11 49.53	−13 50.8	5.358	5.483	10.3	21.2	92 W	31	74*
1 6	11 50.44	−14 21.2	5.243	5.525	10.0	21.2	102 W	31	78
1 16	11 50.17	−14 43.8	5.134	5.568	9.5	21.1	111 W	30	79

164466 2006 DS_{156}

12 23	9 35.40	+22 41.9	2.314	3.054	14.0	21.1	131 W	68	41
1 2	9 30.42	+23 16.3	2.221	3.060	11.3	21.0	143 W	68	41
1 12	9 22.93	+23 56.4	2.151	3.065	8.1	20.8	154 W	69	40
1 22	9 13.42	+24 37.1	2.107	3.070	4.7	20.6	165 W	70	39
2 1	9 2.68	+25 13.0	2.094	3.073	2.6	20.4	172 W	70	39
2 6	8 57.17	+25 27.6	2.100	3.074	3.3	20.5	170 E	70	39
2 11	8 51.77	+25 39.4	2.112	3.076	4.8	20.6	165 E	71	38
2 16	8 46.59	+25 48.0	2.133	3.076	6.5	20.7	159 E	71	38
2 21	8 41.75	+25 53.4	2.160	3.077	8.2	20.8	154 E	71	38
2 26	8 37.38	+25 55.5	2.194	3.077	9.9	20.9	148 E	71	38
3 2	8 33.55	+25 54.5	2.235	3.078	11.4	21.0	142 E	71	38
3 7	8 30.33	+25 50.6	2.281	3.078	12.8	21.1	137 E	71	38
3 12	8 27.75	+25 43.9	2.332	3.077	14.1	21.2	131 E	71	38
3 17	8 25.84	+25 34.8	2.387	3.077	15.2	21.3	126 E	71	38
3 22	8 24.60	+25 23.4	2.446	3.076	16.2	21.4	121 E	70	39
3 27	8 24.02	+25 10.1	2.508	3.075	17.0	21.4	116 E	70	39

511243 2014 BS_{32}

12 23	9 35.58	+30 0.3	0.951	1.770	24.2	21.0	132 W	75	34
12 28	9 34.19	+30 13.2	0.904	1.759	22.2	20.8	137 W	75	34
1 2	9 31.31	+30 28.1	0.860	1.747	19.9	20.6	143 W	75	34
1 7	9 26.90	+30 43.6	0.821	1.736	17.4	20.4	148 W	76	33
1 12	9 20.95	+30 58.0	0.786	1.723	14.6	20.2	154 W	76	33
1 17	9 13.50	+31 9.4	0.756	1.711	11.8	20.0	159 W	76	33
1 22	9 4.73	+31 15.5	0.731	1.698	9.3	19.8	164 W	76	33

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
511243 2014 BS_{32} *(continuation)*									
1 27	8 54.91	+31 13.9	0.712	1.685	7.8	19.6	167 W	76	33
2 1	8 44.46	+31 2.6	0.699	1.672	8.1	19.6	166 E	76	33
2 6	8 33.89	+30 40.7	0.691	1.658	10.3	19.7	162 E	76	33
2 11	8 23.68	+30 8.0	0.690	1.644	13.5	19.8	157 E	75	34
2 16	8 14.30	+29 25.3	0.693	1.630	16.9	19.9	151 E	74	35
2 21	8 6.11	+28 34.3	0.702	1.616	20.4	20.0	145 E	74	35
2 26	7 59.41	+27 36.9	0.715	1.602	23.8	20.1	139 E	73	36
3 2	7 54.35	+26 34.8	0.732	1.587	26.9	20.2	134 E	72	37
3 7	7 50.96	+25 30.0	0.752	1.572	29.7	20.4	128 E	70	39
3 12	7 49.21	+24 23.8	0.774	1.557	32.3	20.5	123 E	69	40
3 17	7 48.99	+23 16.9	0.797	1.542	34.6	20.6	118 E	68	41
3 22	7 50.20	+22 9.9	0.823	1.527	36.7	20.7	114 E	67	42
3 27	7 52.72	+21 3.1	0.849	1.512	38.4	20.8	110 E	66	43
4 1	7 56.42	+19 56.3	0.875	1.496	40.0	20.9	106 E	65	44
4 6	8 1.18	+18 49.5	0.902	1.481	41.3	20.9	102 E	64	45
4 11	8 6.88	+17 42.3	0.928	1.466	42.5	21.0	99 E	62*	46
4 16	8 13.40	+16 34.5	0.954	1.451	43.5	21.1	96 E	60*	47
4 21	8 20.67	+15 25.8	0.979	1.436	44.3	21.1	93 E	58*	49
4 26	8 28.61	+14 15.8	1.003	1.421	45.1	21.2	90 E	55*	50
5 1	8 37.16	+13 4.2	1.027	1.407	45.7	21.2	87 E	52*	51
5 6	8 46.24	+11 50.7	1.049	1.392	46.2	21.3	85 E	49*	52*
5 11	8 55.81	+10 35.2	1.071	1.378	46.7	21.3	83 E	46*	53*
5 16	9 5.82	+ 9 17.4	1.091	1.365	47.0	21.3	81 E	42*	55*
5 21	9 16.25	+ 7 57.4	1.110	1.351	47.3	21.4	79 E	39*	56*
5 26	9 27.07	+ 6 34.8	1.128	1.339	47.6	21.4	77 E	36*	57*
5 31	9 38.26	+ 5 9.6	1.145	1.326	47.8	21.4	76 E	33*	58*
6 5	9 49.80	+ 3 41.9	1.160	1.314	47.9	21.4	74 E	29*	58*
6 10	10 1.67	+ 2 11.8	1.175	1.303	48.0	21.4	73 E	26*	59*
6 15	10 13.87	+ 0 39.3	1.188	1.293	48.1	21.4	71 E	24*	60*
6 20	10 26.41	− 0 55.4	1.201	1.283	48.2	21.4	70 E	21*	60*
6 25	10 39.29	− 2 32.1	1.213	1.274	48.2	21.5	69 E	18*	60*
6 30	10 52.52	− 4 10.7	1.224	1.266	48.2	21.5	68 E	16*	60*
7 5	11 6.10	− 5 50.7	1.235	1.259	48.1	21.5	67 E	14*	60*
7 10	11 20.04	− 7 31.8	1.245	1.252	48.1	21.5	66 E	12*	60*
7 15	11 34.36	− 9 13.5	1.255	1.247	48.0	21.5	66 E	11*	59*
7 20	11 49.08	−10 55.4	1.264	1.242	47.8	21.5	65 E	9*	59*
7 25	12 4.22	−12 36.9	1.274	1.239	47.7	21.5	64 E	8*	58*
7 30	12 19.79	−14 17.5	1.284	1.236	47.5	21.5	64 E	7*	58*
143527 2003 EN_{16}									
12 23	9 36.00	−38 31.9	0.441	1.148	57.4	19.1	100 W	6	77
12 28	9 39.95	−38 30.8	0.441	1.166	55.3	19.1	103 W	6	77
1 2	9 42.49	−38 12.8	0.440	1.184	52.9	19.0	106 W	7	78
1 7	9 43.65	−37 35.9	0.438	1.204	50.3	19.0	110 W	7	78
1 12	9 43.51	−36 38.2	0.435	1.224	47.4	18.9	114 W	8	79
1 17	9 42.16	−35 17.6	0.432	1.246	44.2	18.9	118 W	10	81
1 22	9 39.75	−33 31.9	0.429	1.269	40.7	18.8	123 W	11	82
1 27	9 36.52	−31 19.8	0.428	1.292	37.0	18.7	128 W	14	85
2 1	9 32.80	−28 41.4	0.428	1.315	33.2	18.6	133 W	16	87
2 6	9 28.93	−25 39.0	0.432	1.340	29.3	18.6	138 W	19	90
2 11	9 25.21	−22 17.0	0.439	1.364	25.6	18.6	143 E	23	86
2 16	9 21.91	−18 41.5	0.450	1.389	22.4	18.6	148 E	26	83
2 21	9 19.26	−14 59.9	0.466	1.414	20.0	18.6	151 E	30	79
2 26	9 17.45	−11 19.7	0.487	1.439	18.7	18.7	152 E	34	75
3 2	9 16.59	− 7 48.2	0.513	1.464	18.6	18.8	152 E	37	72
3 7	9 16.73	− 4 31.2	0.545	1.489	19.5	19.0	150 E	40	69
3 12	9 17.85	− 1 32.3	0.581	1.514	21.0	19.3	147 E	43	66
3 17	9 19.88	+ 1 6.7	0.623	1.539	22.8	19.5	143 E	46	63
3 22	9 22.76	+ 3 25.4	0.668	1.564	24.7	19.7	139 E	48	61
3 27	9 26.43	+ 5 24.2	0.718	1.588	26.4	20.0	135 E	50	59
4 1	9 30.81	+ 7 4.3	0.771	1.613	27.9	20.2	131 E	52	57
4 6	9 35.82	+ 8 27.2	0.827	1.637	29.3	20.4	127 E	53	56
4 11	9 41.34	+ 9 34.6	0.886	1.660	30.4	20.6	123 E	55	54
4 16	9 47.33	+10 28.1	0.947	1.684	31.3	20.9	119 E	55	54
4 21	9 53.70	+11 9.3	1.011	1.707	32.1	21.0	116 E	56	53
4 26	10 0.41	+11 39.5	1.077	1.729	32.6	21.2	112 E	57	52
5 1	10 7.41	+12 0.1	1.144	1.751	33.0	21.4	109 E	57*	52
185746 1999 LO_1									
12 23	9 37.28	+19 20.4	1.335	2.108	20.9	20.5	130 W	64	45
1 2	9 32.26	+20 15.3	1.288	2.147	16.5	20.3	142 W	65	44
1 12	9 23.60	+21 22.0	1.260	2.186	11.5	20.1	154 W	66	43
1 22	9 12.17	+22 31.8	1.256	2.223	6.1	19.9	166 W	68	41
1 27	9 5.84	+23 4.7	1.264	2.242	3.7	19.8	171 W	68	41
2 1	8 59.41	+23 34.7	1.279	2.261	2.7	19.8	174 W	69	40
2 6	8 53.10	+24 0.8	1.301	2.279	4.1	19.9	170 E	69	40
2 11	8 47.12	+24 22.5	1.330	2.297	6.4	20.1	165 E	69	40
2 16	8 41.65	+24 39.5	1.365	2.315	8.8	20.3	159 E	70	39
2 21	8 36.84	+24 51.8	1.407	2.332	11.1	20.5	153 E	70	39

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
185746 1999 LO_1 *(continuation)*									
3 2	8 29.62	+25 2.8	1.508	2.366	15.1	20.8	142 E	70	39
3 12	8 25.88	+24 58.2	1.628	2.400	18.2	21.1	131 E	70	39
3 22	8 25.52	+24 41.1	1.763	2.432	20.5	21.4	121 E	70	39
4 1	8 28.21	+24 14.0	1.909	2.464	22.1	21.6	112 E	69	40
455322 2002 NX_{18}									
12 23	9 38.70	+ 9 32.1	0.862	1.651	28.6	19.3	127 W	55	54
1 2	9 30.31	+10 21.6	0.862	1.729	21.9	19.2	139 W	55	54
1 12	9 18.03	+11 34.1	0.878	1.808	14.6	19.1	152 W	57	52
1 22	9 3.60	+12 59.1	0.915	1.886	7.2	19.0	166 W	58	51
1 27	8 56.25	+13 42.4	0.944	1.924	3.7	18.9	173 W	59	50
2 1	8 49.19	+14 24.2	0.978	1.963	1.7	18.9	177 E	59	50
2 6	8 42.66	+15 3.3	1.020	2.001	3.9	19.2	172 E	60	49
2 11	8 36.85	+15 38.9	1.067	2.039	6.8	19.5	166 E	61	48
2 21	8 27.84	+16 38.0	1.181	2.113	12.0	20.0	154 E	62	47
3 2	8 22.65	+17 20.1	1.317	2.187	16.1	20.5	142 E	62	47
3 12	8 21.15	+17 46.3	1.472	2.258	19.2	20.9	132 E	63	46
3 22	8 22.86	+17 58.6	1.640	2.329	21.2	21.2	122 E	63	46
38063 1999 FH									
12 23	9 39.66	− 0 13.3	2.372	3.014	16.0	19.5	122 W	45	64
1 2	9 36.40	− 0 26.1	2.254	3.008	13.9	19.4	133 W	45	64
1 12	9 30.87	− 0 21.6	2.155	3.001	11.3	19.2	143 W	45	64
1 22	9 23.37	+ 0 1.6	2.079	2.993	8.4	18.9	154 W	45	64
2 1	9 14.45	+ 0 43.2	2.030	2.985	5.6	18.8	163 W	46	63
2 11	9 4.96	+ 1 40.6	2.010	2.975	4.8	18.7	165 E	47	62
2 16	9 0.30	+ 2 13.7	2.012	2.970	5.6	18.7	163 E	47	62
2 21	8 55.84	+ 2 48.9	2.020	2.964	6.9	18.8	159 E	48	61
2 26	8 51.70	+ 3 25.4	2.036	2.959	8.4	18.9	154 E	48	61
3 2	8 47.98	+ 4 2.4	2.059	2.953	10.0	19.0	149 E	49	60
3 7	8 44.76	+ 4 39.2	2.088	2.947	11.5	19.1	144 E	50	59
3 12	8 42.09	+ 5 15.1	2.123	2.940	13.0	19.1	138 E	50	59
3 22	8 38.56	+ 6 22.4	2.208	2.927	15.6	19.3	128 E	51	58
4 1	8 37.56	+ 7 20.9	2.309	2.913	17.7	19.5	118 E	52	57
4 11	8 39.01	+ 8 8.5	2.421	2.898	19.2	19.6	108 E	53	56
4 21	8 42.71	+ 8 44.5	2.539	2.881	20.1	19.7	100 E	53*	55
5 1	8 48.44	+ 9 8.6	2.661	2.864	20.6	19.8	91 E	50*	55
5 11	8 55.91	+ 9 21.0	2.781	2.846	20.6	19.9	83 E	45*	55*
5 21	9 4.87	+ 9 22.1	2.899	2.827	20.3	20.0	76 E	38*	54*
5 31	9 15.11	+ 9 12.5	3.011	2.808	19.7	20.0	69 E	32*	52*
6 10	9 26.39	+ 8 52.7	3.116	2.787	18.8	20.1	62 E	26*	49*
6 20	9 38.57	+ 8 23.5	3.212	2.765	17.6	20.1	55 E	20*	45*
6 30	9 51.50	+ 7 45.4	3.298	2.743	16.3	20.1	49 E	14*	41*
7 10	10 5.04	+ 6 59.0	3.372	2.720	14.8	20.0	43 E	10*	36*
7 20	10 19.13	+ 6 5.2	3.435	2.695	13.2	20.0	37 E	6*	31*
7 30	10 33.68	+ 5 4.5	3.485	2.670	11.4	19.9	31 E	3*	25*
8 9	10 48.64	+ 3 57.7	3.522	2.645	9.6	19.9	26 E	1*	20*
8 19	11 3.96	+ 2 45.4	3.546	2.618	7.6	19.8	20 E	—	14*
8 29	11 19.62	+ 1 28.4	3.556	2.591	5.6	19.7	15 E	—	8*
9 8	11 35.60	+ 0 7.5	3.552	2.562	3.6	19.5	9 E	—	3*
9 18	11 51.90	− 1 16.5	3.535	2.534	1.6	19.4	4 E	—	—
9 28	12 8.51	− 2 42.7	3.504	2.504	1.0	19.3	3 W	—	—
10 8	12 25.44	− 4 10.2	3.461	2.474	3.0	19.4	8 W	—	—
10 18	12 42.69	− 5 38.1	3.404	2.443	5.2	19.4	13 W	5*	3*
10 28	13 0.28	− 7 5.3	3.335	2.411	7.4	19.5	18 W	10*	7*
11 7	13 18.22	− 8 30.6	3.255	2.379	9.6	19.5	23 W	15*	10*
11 17	13 36.51	− 9 52.9	3.163	2.346	11.7	19.5	29 W	19*	15*
11 27	13 55.15	−11 10.9	3.061	2.313	13.9	19.4	34 W	22*	19*
12 7	14 14.15	−12 23.4	2.951	2.279	16.0	19.4	40 W	24*	24*
12 17	14 33.48	−13 28.9	2.832	2.245	18.0	19.4	45 W	26*	30*
12 27	14 53.11	−14 26.0	2.706	2.211	20.0	19.3	50 W	27*	36*
1 6	15 12.99	−15 13.3	2.574	2.177	21.9	19.2	56 W	28*	42*
1 16	15 33.07	−15 49.3	2.438	2.142	23.7	19.1	61 W	28*	48*
203117 2000 SN_{218}									
12 23	9 40.04	+12 23.6	2.239	2.942	15.4	21.4	127 W	57	52
1 2	9 36.05	+12 57.2	2.150	2.960	12.7	21.3	139 W	58	51
1 12	9 29.68	+13 43.9	2.081	2.977	9.3	21.1	151 W	59	50
1 22	9 21.33	+14 40.8	2.038	2.993	5.5	20.9	163 W	60	49
2 1	9 11.71	+15 43.0	2.025	3.008	1.4	20.6	176 W	61	48
2 11	9 1.78	+16 44.9	2.043	3.022	2.7	20.7	172 E	62	47
2 21	8 52.54	+17 41.3	2.091	3.035	6.7	21.0	159 E	63	46
3 2	8 44.86	+18 28.7	2.167	3.047	10.2	21.3	147 E	63	46
3 12	8 39.35	+19 4.9	2.268	3.058	13.1	21.5	136 E	64	45
68548 2001 XR_{31}									
12 23	9 40.64	+13 6.5	1.571	2.306	19.8	20.3	127 W	58	51
1 2	9 31.40	+12 27.0	1.493	2.330	15.9	20.1	140 W	57	52
1 12	9 18.56	+11 57.6	1.436	2.352	11.2	19.8	152 W	57	52
1 22	9 2.99	+11 37.0	1.406	2.372	6.0	19.6	165 W	57	52

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
68548 2001 XR_{31} *(continuation)*									
1 27	8 54.63	+11 29.2	1.403	2.381	3.6	19.5	171 W	56	53
2 1	8 46.18	+11 22.8	1.408	2.389	2.6	19.4	174 E	56	53
2 6	8 37.89	+11 17.4	1.420	2.397	4.2	19.5	170 E	56	53
2 11	8 29.98	+11 12.6	1.441	2.405	6.6	19.7	164 E	56	53
2 21	8 16.04	+11 4.4	1.505	2.418	11.4	20.0	151 E	56	53
3 2	8 5.43	+10 56.5	1.594	2.429	15.6	20.3	139 E	56	53
3 12	7 58.62	+10 47.6	1.704	2.438	18.9	20.6	127 E	56	53
3 22	7 55.49	+10 36.7	1.828	2.444	21.3	20.8	117 E	56	53
4 1	7 55.71	+10 22.5	1.960	2.449	22.9	21.0	107 E	55	54
4 11	7 58.79	+10 3.9	2.097	2.451	23.9	21.2	98 E	55*	54
4 21	8 4.25	+ 9 40.3	2.235	2.452	24.2	21.3	90 E	51*	54
5 1	8 11.68	+ 9 10.6	2.370	2.450	24.1	21.4	82 E	46*	55*
449120 2012 YP_1									
12 23	9 41.67	− 6 38.3	0.884	1.607	32.5	19.0	119 W	38	71
12 28	9 44.73	− 5 36.6	0.851	1.616	30.6	18.9	123 W	39	70
1 2	9 46.83	− 4 18.9	0.821	1.625	28.4	18.8	128 W	41	68
1 7	9 47.97	− 2 44.3	0.794	1.636	25.8	18.6	134 W	42	67
1 12	9 48.13	− 0 52.2	0.770	1.647	22.8	18.5	140 W	44	65
1 17	9 47.34	+ 1 16.8	0.751	1.659	19.5	18.4	146 W	46	63
1 22	9 45.66	+ 3 41.3	0.736	1.671	15.9	18.2	152 W	49	60
1 27	9 43.19	+ 6 18.8	0.727	1.684	12.0	18.1	159 W	51	58
2 1	9 40.11	+ 9 5.0	0.725	1.698	7.9	17.9	166 W	54	55
2 6	9 36.63	+11 55.0	0.729	1.712	3.8	17.7	173 W	57	52
2 11	9 32.99	+14 43.2	0.740	1.727	0.4	17.5	179 E	60	49
2 16	9 29.41	+17 24.6	0.758	1.742	4.4	17.9	172 E	62	47
2 21	9 26.13	+19 54.7	0.783	1.758	8.2	18.2	165 E	65	44
2 26	9 23.37	+22 10.3	0.815	1.774	11.7	18.4	159 E	67	42
3 2	9 21.30	+24 9.6	0.852	1.790	14.8	18.6	152 E	69	40
3 12	9 19.69	+27 17.3	0.942	1.824	20.1	19.1	141 E	72	37
3 22	9 21.65	+29 22.3	1.049	1.859	24.0	19.5	131 E	74	35
4 1	9 27.05	+30 34.4	1.169	1.895	26.7	19.8	122 E	76	33
4 6	9 30.90	+30 54.1	1.232	1.914	27.6	20.0	118 E	76	33
4 11	9 35.40	+31 4.5	1.298	1.932	28.4	20.1	114 E	76	33
4 16	9 40.49	+31 6.8	1.365	1.951	28.9	20.3	110 E	76	33
4 21	9 46.09	+31 1.8	1.433	1.969	29.3	20.4	106 E	76	33
4 26	9 52.14	+30 50.3	1.503	1.988	29.5	20.6	103 E	76	33
5 1	9 58.59	+30 33.1	1.574	2.007	29.7	20.7	100 E	75*	33
5 6	10 5.36	+30 10.9	1.645	2.026	29.6	20.8	97 E	74*	34
5 11	10 12.41	+29 44.1	1.716	2.045	29.5	20.9	94 E	71*	34
5 16	10 19.69	+29 13.4	1.788	2.064	29.3	21.0	91 E	69*	35
5 21	10 27.16	+28 39.1	1.860	2.083	29.0	21.1	88 E	66*	35
5 26	10 34.80	+28 1.6	1.932	2.102	28.7	21.2	85 E	62*	36
5 31	10 42.57	+27 21.2	2.004	2.121	28.3	21.3	82 E	59*	37
6 5	10 50.44	+26 38.4	2.076	2.140	27.8	21.4	80 E	56*	37
6 10	10 58.40	+25 53.3	2.147	2.159	27.3	21.5	77 E	53*	38
475 Ocllo									
12 23	9 42.47	+40 22.2	2.408	3.144	13.6	17.1	131 W	85	24
12 28	9 39.87	+41 4.1	2.378	3.158	12.6	17.0	136 W	86	23
1 2	9 36.49	+41 45.6	2.354	3.171	11.5	17.0	140 W	87	22
1 7	9 32.36	+42 25.6	2.335	3.185	10.4	16.9	144 W	87	22
1 12	9 27.55	+43 3.0	2.323	3.198	9.4	16.9	148 W	88	21
1 17	9 22.15	+43 36.8	2.317	3.211	8.6	16.8	151 W	89	20
1 22	9 16.28	+44 5.9	2.318	3.223	8.1	16.8	152 W	89	20
1 27	9 10.08	+44 29.5	2.326	3.236	7.9	16.8	153 W	89	20
2 1	9 3.71	+44 46.8	2.342	3.248	8.0	16.9	153 W	90	19
2 6	8 57.37	+44 57.7	2.364	3.260	8.5	16.9	151 E	90	19
2 11	8 51.21	+45 1.9	2.393	3.272	9.2	17.0	148 E	90	19
2 16	8 45.39	+44 59.7	2.429	3.283	10.1	17.0	144 E	90	19
2 21	8 40.05	+44 51.3	2.471	3.294	11.0	17.1	141 E	90	19
2 26	8 35.30	+44 37.5	2.518	3.306	11.9	17.2	136 E	90	19
3 2	8 31.23	+44 18.7	2.572	3.316	12.9	17.3	132 E	89	20
3 7	8 27.89	+43 55.6	2.629	3.327	13.7	17.4	127 E	89	20
3 12	8 25.29	+43 29.1	2.692	3.337	14.5	17.5	123 E	88	21
3 22	8 22.34	+42 28.0	2.826	3.358	15.7	17.6	114 E	87	22
4 1	8 22.22	+41 19.5	2.972	3.377	16.6	17.8	105 E	86	23
4 11	8 24.61	+40 6.8	3.125	3.395	17.0	17.9	97 E	85*	24
4 21	8 29.13	+38 51.7	3.280	3.413	17.1	18.0	89 E	79*	25
5 1	8 35.43	+37 35.4	3.435	3.429	16.9	18.1	81 E	70*	26
5 11	8 43.16	+36 18.4	3.587	3.445	16.4	18.2	74 E	62*	27*
5 21	8 52.03	+35 0.9	3.734	3.460	15.6	18.3	67 E	53*	28*
5 31	9 1.82	+33 42.8	3.873	3.474	14.6	18.3	60 E	46*	28*
6 10	9 12.30	+32 24.4	4.002	3.487	13.5	18.4	53 E	38*	27*
6 20	9 23.31	+31 5.4	4.120	3.499	12.2	18.4	47 E	32*	25*
6 30	9 34.72	+29 45.9	4.226	3.511	10.8	18.4	40 E	26*	22*
7 10	9 46.40	+28 26.0	4.317	3.521	9.3	18.4	34 E	21*	18*
7 20	9 58.27	+27 5.8	4.394	3.531	7.8	18.4	28 E	17*	14*
7 30	10 10.26	+25 45.6	4.455	3.539	6.3	18.4	23 E	14*	9*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
475 Ocllo *(continuation)*									
8 9	10 22.28	+24 25.6	4.500	3.547	5.0	18.3	18 E	11*	4*
8 19	10 34.28	+23 6.2	4.527	3.554	4.0	18.3	14 E	8*	—
8 29	10 46.23	+21 47.7	4.537	3.560	3.7	18.3	13 E	6*	—
9 8	10 58.05	+20 30.8	4.529	3.565	4.2	18.3	15 W	6*	—
9 18	11 9.71	+19 15.8	4.504	3.570	5.3	18.3	19 W	12*	—
9 28	11 21.14	+18 3.4	4.460	3.573	6.7	18.4	25 W	18*	—
10 8	11 32.31	+16 54.3	4.399	3.575	8.2	18.4	31 W	24*	2*
10 18	11 43.14	+15 49.2	4.322	3.577	9.7	18.5	37 W	31*	7*
10 28	11 53.55	+14 49.0	4.228	3.578	11.1	18.5	44 W	37*	11*
11 7	12 3.46	+13 54.6	4.120	3.578	12.4	18.5	51 W	44*	16*
11 17	12 12.77	+13 6.7	3.998	3.577	13.6	18.4	58 W	49*	22*
11 27	12 21.34	+12 26.5	3.865	3.575	14.6	18.4	66 W	54*	28*
12 7	12 29.03	+11 55.0	3.721	3.572	15.3	18.3	74 W	56*	34*
12 17	12 35.68	+11 33.1	3.571	3.569	15.8	18.3	82 W	57	40*
12 27	12 41.09	+11 21.8	3.417	3.564	16.0	18.2	91 W	56	46*
1 6	12 45.05	+11 21.7	3.262	3.559	15.8	18.1	99 W	56	50*
1 16	12 47.33	+11 33.3	3.111	3.553	15.2	17.9	109 W	57	52*
5626 1991 *FE*									
12 23	9 42.67	+ 6 5.9	0.690	1.486	33.1	15.6	124 W	51	58
1 2	9 39.32	+ 6 28.4	0.679	1.542	26.6	15.5	135 W	51	58
1 12	9 31.11	+ 7 26.6	0.680	1.600	19.2	15.4	148 W	52	57
1 22	9 19.44	+ 8 52.8	0.697	1.658	11.4	15.2	161 W	54	55
1 27	9 12.97	+ 9 42.3	0.714	1.688	7.5	15.1	167 W	55	54
2 1	9 6.50	+10 33.4	0.736	1.717	4.2	15.1	173 W	56	53
2 6	9 0.34	+11 24.0	0.763	1.747	3.3	15.1	174 E	56	53
2 11	8 54.74	+12 12.4	0.797	1.777	5.6	15.4	170 E	57	52
2 16	8 49.89	+12 57.3	0.836	1.806	8.6	15.7	164 E	58	51
2 21	8 45.92	+13 37.8	0.880	1.836	11.5	15.9	158 E	59	50
3 2	8 40.97	+14 43.6	0.984	1.894	16.6	16.4	147 E	60	49
3 12	8 39.99	+15 28.5	1.106	1.952	20.4	16.9	137 E	60	49
3 22	8 42.53	+15 53.9	1.243	2.009	23.3	17.3	127 E	61	48
4 1	8 48.03	+16 1.9	1.391	2.065	25.1	17.7	119 E	61	48
4 11	8 55.88	+15 54.8	1.549	2.120	26.3	18.0	111 E	61	48
4 21	9 5.52	+15 34.7	1.713	2.174	26.8	18.3	103 E	60*	48
5 1	9 16.54	+15 3.1	1.881	2.227	26.7	18.5	96 E	58*	49
5 11	9 28.57	+14 21.5	2.052	2.278	26.3	18.7	89 E	53*	50
5 21	9 41.33	+13 31.3	2.224	2.328	25.6	18.9	83 E	47*	50
5 31	9 54.63	+12 33.5	2.395	2.377	24.5	19.1	77 E	41*	51*
6 10	10 8.29	+11 29.3	2.562	2.424	23.3	19.3	71 E	34*	51*
6 20	10 22.20	+10 19.5	2.726	2.470	21.8	19.4	65 E	29*	50*
6 30	10 36.27	+ 9 4.9	2.884	2.514	20.3	19.5	59 E	23*	47*
7 10	10 50.44	+ 7 46.5	3.035	2.557	18.5	19.6	53 E	19*	44*
7 20	11 4.66	+ 6 25.0	3.178	2.598	16.7	19.7	47 E	15*	39*
7 30	11 18.90	+ 5 1.1	3.310	2.638	14.8	19.7	42 E	11*	35*
8 9	11 33.13	+ 3 35.4	3.432	2.677	12.8	19.8	36 E	8*	29*
8 19	11 47.34	+ 2 8.6	3.542	2.714	10.8	19.8	30 E	6*	24*
8 29	12 1.52	+ 0 41.5	3.639	2.750	8.7	19.8	24 E	4*	18*
9 8	12 15.65	− 0 45.5	3.722	2.784	6.6	19.8	18 E	1*	12*
9 18	12 29.73	− 2 11.7	3.790	2.817	4.4	19.7	12 E	—	6*
9 28	12 43.73	− 3 36.4	3.842	2.848	2.3	19.7	6 E	—	—
10 8	12 57.63	− 4 59.1	3.877	2.878	0.4	19.5	1 E	—	—
10 18	13 11.43	− 6 19.3	3.896	2.907	2.1	19.7	6 W	—	—
10 28	13 25.07	− 7 36.2	3.897	2.934	4.1	19.9	12 W	6*	1*
11 7	13 38.52	− 8 49.3	3.881	2.960	6.2	20.0	19 W	11*	6*
11 17	13 51.72	− 9 58.1	3.847	2.984	8.2	20.1	25 W	16*	11*
11 27	14 4.60	−11 1.9	3.797	3.007	10.0	20.1	32 W	21*	17*
12 7	14 17.07	−12 0.3	3.730	3.029	11.8	20.2	39 W	25*	23*
12 17	14 29.04	−12 52.9	3.647	3.049	13.5	20.2	46 W	27*	30*
12 27	14 40.36	−13 38.9	3.550	3.068	14.9	20.2	53 W	29*	38*
1 6	14 50.90	−14 18.2	3.439	3.085	16.2	20.2	61 W	30*	46*
1 16	15 0.48	−14 50.2	3.318	3.102	17.2	20.2	69 W	30*	55*
13551 Gadsden									
12 23	9 42.74	+16 50.7	1.114	1.888	24.2	19.0	128 W	62	47
1 2	9 46.92	+16 5.0	0.991	1.838	21.3	18.6	137 W	61	48
1 12	9 47.63	+15 26.7	0.883	1.790	17.4	18.2	147 W	60	49
1 22	9 44.54	+14 55.6	0.792	1.743	12.4	17.7	158 W	60	49
2 1	9 37.73	+14 29.7	0.720	1.698	6.2	17.2	169 W	59	50
2 6	9 33.22	+14 17.4	0.692	1.676	2.7	16.9	175 W	59	50
2 11	9 28.21	+14 4.7	0.668	1.655	1.0	16.7	178 E	59	50
2 16	9 22.95	+13 50.9	0.651	1.635	4.7	16.8	172 E	59	50
2 21	9 17.73	+13 35.5	0.638	1.615	8.5	17.0	166 E	59	50
2 26	9 12.87	+13 18.0	0.630	1.596	12.3	17.0	160 E	58	51
3 2	9 8.67	+12 58.0	0.626	1.578	16.0	17.1	154 E	58	51
3 7	9 5.40	+12 35.2	0.627	1.561	19.6	17.2	148 E	58	51
3 12	9 3.24	+12 9.6	0.631	1.544	22.9	17.3	143 E	57	52
3 22	9 2.67	+11 9.7	0.649	1.515	28.7	17.5	133 E	56	53
4 1	9 7.39	+ 9 58.0	0.676	1.491	33.5	17.7	125 E	55	54

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	13551 Gadsden					*(continuation)*			
	h m	° ′			°	m	°	°	°
4 11	9 17.11	+ 8 33.6	0.710	1.471	37.2	17.9	118 E	54	55
4 21	9 31.12	+ 6 56.4	0.749	1.457	39.9	18.1	112 E	52	57
5 1	9 48.72	+ 5 5.9	0.792	1.449	41.8	18.2	107 E	50*	59
5 11	10 9.15	+ 3 2.6	0.840	1.447	42.9	18.4	103 E	46*	61
5 21	10 31.75	+ 0 48.3	0.892	1.451	43.5	18.5	99 E	42*	63
5 31	10 55.99	− 1 35.0	0.949	1.461	43.7	18.7	96 E	37*	66
6 10	11 21.39	− 4 4.2	1.013	1.476	43.4	18.8	93 E	32*	68
6 20	11 47.60	− 6 35.8	1.083	1.497	42.7	19.0	91 E	28*	71
6 30	12 14.34	− 9 6.5	1.160	1.523	41.9	19.2	89 E	24*	73*
7 10	12 41.38	−11 33.1	1.245	1.553	40.8	19.3	86 E	21*	75*
7 20	13 8.56	−13 52.5	1.337	1.588	39.5	19.5	84 E	19*	75*
7 30	13 35.77	−16 2.5	1.437	1.626	38.1	19.7	81 E	17*	74*
8 9	14 2.92	−18 1.2	1.544	1.667	36.6	19.8	78 E	15*	72*
8 19	14 29.93	−19 47.2	1.658	1.710	34.9	20.0	75 E	14*	69*
8 29	14 56.77	−21 19.6	1.779	1.756	33.2	20.2	72 E	14*	66*
9 8	15 23.37	−22 37.7	1.904	1.803	31.4	20.3	69 E	13*	63*
9 18	15 49.70	−23 41.3	2.033	1.852	29.5	20.5	65 E	13*	59*
9 28	16 15.70	−24 30.4	2.165	1.901	27.6	20.6	61 E	13*	55*
10 8	16 41.31	−25 5.0	2.299	1.952	25.5	20.7	57 E	13*	51*
10 18	17 6.50	−25 25.6	2.434	2.002	23.5	20.8	53 E	13*	47*
10 28	17 31.20	−25 32.5	2.567	2.053	21.3	21.0	49 E	13*	42*
11 7	17 55.35	−25 26.5	2.698	2.104	19.2	21.0	44 E	12*	38*
11 17	18 18.91	−25 8.3	2.824	2.155	17.0	21.1	40 E	12*	32*
11 27	18 41.83	−24 38.7	2.946	2.206	14.7	21.2	35 E	12*	27*
12 7	19 4.08	−23 58.6	3.060	2.256	12.5	21.2	30 E	11*	21*
12 17	19 25.62	−23 9.1	3.166	2.306	10.2	21.3	24 E	9*	16*
12 27	19 46.44	−22 11.1	3.262	2.355	7.9	21.3	19 E	7*	10*
1 6	20 6.51	−21 5.8	3.348	2.404	5.6	21.3	14 E	4*	5*
1 16	20 25.84	−19 54.1	3.421	2.452	3.3	21.2	8 E	—	1*
	360337 2001 UR_1								
12 23	9 43.00	+46 48.8	2.779	3.498	12.4	21.1	130 W	88	17
12 28	9 40.46	+47 41.8	2.750	3.508	11.6	21.0	134 W	87	16
1 2	9 37.13	+48 33.8	2.726	3.518	10.8	21.0	138 W	86	15
1 7	9 33.03	+49 23.7	2.709	3.527	10.1	21.0	141 W	86	15
1 12	9 28.21	+50 10.5	2.697	3.536	9.5	20.9	143 W	85	14
1 17	9 22.75	+50 53.1	2.693	3.545	9.1	20.9	145 W	84	13
1 22	9 16.75	+51 30.5	2.695	3.554	8.9	20.9	146 W	83	12
1 27	9 10.36	+52 1.8	2.704	3.562	8.9	20.9	146 W	83	12
2 1	9 3.74	+52 26.3	2.719	3.571	9.1	20.9	145 W	83	12
2 6	8 57.08	+52 43.7	2.742	3.579	9.5	21.0	143 E	82	11
2 11	8 50.55	+52 54.0	2.770	3.587	10.1	21.0	140 E	82	11
2 16	8 44.32	+52 57.2	2.805	3.594	10.7	21.1	137 E	82	11
2 21	8 38.54	+52 53.8	2.845	3.602	11.4	21.2	134 E	82	11
2 26	8 33.35	+52 44.2	2.891	3.609	12.1	21.2	130 E	82	11
3 2	8 28.85	+52 29.1	2.942	3.616	12.8	21.3	126 E	83	12
3 7	8 25.10	+52 9.3	2.997	3.622	13.4	21.4	122 E	83	12
3 12	8 22.13	+51 45.4	3.055	3.629	14.0	21.4	118 E	83	12
3 17	8 19.96	+51 18.3	3.117	3.635	14.5	21.5	114 E	84	13
	157111 2004 LU_{23}								
12 23	9 43.39	+ 8 29.7	2.013	2.702	17.3	21.1	125 W	53	56
1 2	9 39.34	+ 8 34.0	1.931	2.728	14.4	20.9	136 W	54	55
1 12	9 32.71	+ 8 53.6	1.870	2.753	10.9	20.7	148 W	54	55
1 22	9 23.96	+ 9 26.9	1.832	2.777	7.0	20.5	160 W	54	55
2 1	9 13.87	+10 10.6	1.822	2.800	3.0	20.3	171 W	55	54
2 6	9 8.66	+10 34.8	1.829	2.812	2.0	20.3	174 E	56	53
2 11	9 3.52	+10 59.6	1.843	2.823	2.9	20.4	172 E	56	53
2 16	8 58.58	+11 24.5	1.864	2.833	4.8	20.5	166 E	56	53
2 21	8 53.97	+11 48.8	1.893	2.844	6.7	20.7	160 E	57	52
2 26	8 49.80	+12 12.0	1.929	2.854	8.6	20.8	154 E	57	52
3 2	8 46.16	+12 33.7	1.972	2.864	10.4	20.9	149 E	58	51
3 7	8 43.11	+12 53.5	2.020	2.874	12.0	21.0	143 E	58	51
3 12	8 40.69	+13 11.1	2.074	2.884	13.5	21.2	137 E	58	51
3 17	8 38.92	+13 26.5	2.133	2.893	14.8	21.3	132 E	58	51
3 22	8 37.81	+13 39.4	2.196	2.902	16.0	21.4	127 E	59	50
3 27	8 37.35	+13 49.9	2.262	2.911	17.0	21.5	122 E	59	50
	190346 1998 UG_{33}								
12 23	9 43.76	+24 4.1	1.835	2.577	17.1	20.8	130 W	69	40
1 2	9 39.27	+25 2.8	1.765	2.602	13.8	20.6	141 W	70	39
1 12	9 31.70	+26 8.6	1.716	2.625	10.1	20.4	152 W	71	38
1 22	9 21.59	+27 13.9	1.692	2.648	6.3	20.2	163 W	72	37
1 27	9 15.87	+27 43.8	1.690	2.659	4.8	20.2	167 W	73	36
2 1	9 9.94	+28 10.5	1.696	2.669	4.2	20.2	169 W	73	36
2 6	9 3.96	+28 33.2	1.710	2.680	4.7	20.2	167 E	74	35
2 11	8 58.12	+28 51.3	1.730	2.690	6.1	20.3	163 E	74	35
2 16	8 52.58	+29 4.7	1.758	2.700	7.8	20.4	158 E	74	35
2 21	8 47.48	+29 13.2	1.793	2.710	9.6	20.6	153 E	74	35
2 26	8 42.95	+29 16.9	1.834	2.719	11.4	20.7	147 E	74	35

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	190346 1998 UG_{33}					*(continuation)*			
	h m	° ′			°	m	°	°	°
3 2	8 39.10	+29 16.1	1.881	2.729	13.0	20.8	142 E	74	35
3 7	8 35.98	+29 11.2	1.933	2.738	14.5	20.9	136 E	74	35
3 12	8 33.62	+29 2.8	1.990	2.747	15.8	21.0	131 E	74	35
3 17	8 32.04	+28 51.1	2.050	2.755	17.0	21.2	126 E	74	35
3 22	8 31.21	+28 36.7	2.115	2.764	18.0	21.3	121 E	74	35
3 27	8 31.11	+28 19.8	2.182	2.772	18.8	21.4	116 E	73	36
4 1	8 31.73	+28 0.9	2.252	2.780	19.5	21.5	112 E	73	36
	232368 2003 AZ_2								
12 23	9 44.42	+ 3 4.4	0.957	1.703	29.1	20.6	123 W	48	61
12 28	9 43.94	+ 4 5.4	0.916	1.709	26.9	20.5	128 W	49	60
1 2	9 42.27	+ 5 20.5	0.877	1.714	24.3	20.3	134 W	50	59
1 7	9 39.37	+ 6 50.4	0.842	1.719	21.3	20.1	141 W	52	57
1 12	9 35.22	+ 8 35.1	0.812	1.723	18.0	20.0	147 W	54	55
1 17	9 29.85	+10 33.8	0.787	1.727	14.3	19.8	154 W	56	53
1 22	9 23.34	+12 44.3	0.767	1.730	10.2	19.6	162 W	58	51
1 27	9 15.88	+15 3.5	0.755	1.732	6.0	19.4	169 W	60	49
2 1	9 7.73	+17 26.9	0.750	1.734	1.7	19.1	177 W	62	47
2 6	8 59.23	+19 49.6	0.752	1.736	3.1	19.2	175 E	65	44
2 11	8 50.76	+22 6.7	0.761	1.737	7.4	19.4	167 E	67	42
2 16	8 42.67	+24 14.3	0.777	1.737	11.6	19.7	159 E	69	40
2 21	8 35.31	+26 9.5	0.800	1.737	15.4	19.9	152 E	71	38
2 26	8 28.98	+27 50.7	0.828	1.736	19.0	20.1	145 E	73	36
3 2	8 23.90	+29 17.5	0.862	1.735	22.1	20.2	139 E	74	35
3 7	8 20.18	+30 30.5	0.899	1.733	24.9	20.4	133 E	76	33
3 12	8 17.87	+31 30.6	0.940	1.730	27.3	20.6	127 E	77	32
3 17	8 16.94	+32 19.1	0.983	1.727	29.3	20.7	122 E	77	32
3 22	8 17.35	+32 57.3	1.028	1.724	31.1	20.9	117 E	78	31
3 27	8 19.03	+33 26.3	1.075	1.720	32.5	21.0	112 E	78	31
4 1	8 21.87	+33 47.2	1.122	1.715	33.7	21.1	108 E	79	30
4 6	8 25.77	+34 0.8	1.170	1.710	34.6	21.2	104 E	79	30
4 11	8 30.62	+34 7.9	1.217	1.704	35.4	21.3	100 E	79	30
4 16	8 36.31	+34 8.9	1.265	1.698	36.0	21.4	96 E	79*	30
	307070 2002 AV_{31}								
12 23	9 44.70	− 4 45.5	0.296	1.156	48.1	20.2	119 W	40	69
12 28	9 44.56	− 1 2.1	0.288	1.175	42.8	20.0	126 W	44	65
1 2	9 42.61	+ 3 7.7	0.282	1.194	37.0	19.8	133 W	48	61
1 7	9 38.81	+ 7 39.8	0.280	1.213	30.6	19.7	141 W	53	56
1 12	9 33.24	+12 26.0	0.280	1.233	24.0	19.5	149 W	57	52
1 14	9 30.56	+14 21.8	0.282	1.240	21.4	19.5	153 W	59	50
1 16	9 27.63	+16 17.2	0.284	1.248	18.8	19.4	156 W	61	48
1 18	9 24.49	+18 11.2	0.287	1.256	16.2	19.4	159 W	63	46
1 20	9 21.17	+20 2.9	0.291	1.264	13.8	19.3	162 W	65	44
1 22	9 17.69	+21 51.5	0.295	1.271	11.7	19.3	165 W	67	42
1 24	9 14.09	+23 36.0	0.300	1.279	9.8	19.3	167 W	69	40
1 26	9 10.42	+25 15.9	0.307	1.287	8.6	19.3	169 W	70	39
1 28	9 6.72	+26 50.4	0.313	1.294	8.0	19.3	169 W	72	37
1 30	9 3.02	+28 19.3	0.321	1.302	8.3	19.4	169 W	73	36
2 1	8 59.38	+29 42.1	0.330	1.309	9.3	19.5	168 W	75	34
2 6	8 50.77	+32 41.8	0.354	1.328	13.0	19.8	162 E	78	31
2 11	8 43.25	+35 3.1	0.383	1.346	17.2	20.2	156 E	80	29
2 16	8 37.19	+36 49.6	0.415	1.364	21.1	20.5	150 E	82	27
2 21	8 32.80	+38 5.7	0.451	1.382	24.5	20.8	145 E	83	26
2 26	8 30.18	+38 56.4	0.490	1.399	27.4	21.1	139 E	84	25
3 2	8 29.30	+39 26.4	0.531	1.415	29.9	21.4	135 E	84	25
	159929 2005 UK								
12 23	9 44.83	−60 31.7	1.652	1.844	32.1	21.3	85 W	—	55
12 28	9 48.56	−62 45.3	1.617	1.818	32.6	21.2	85 W	—	53
1 2	9 51.51	−64 54.7	1.582	1.791	33.2	21.2	85 W	—	51
1 7	9 53.52	−66 59.2	1.546	1.765	33.7	21.1	85 W	—	49
1 12	9 54.40	−68 58.3	1.510	1.738	34.4	21.0	86 W	—	47
1 17	9 53.88	−70 51.1	1.473	1.710	35.0	20.9	86 W	—	45
1 22	9 51.65	−72 36.8	1.435	1.683	35.7	20.9	86 W	—	43
1 27	9 47.34	−74 14.4	1.395	1.655	36.4	20.8	86 W	—	42
2 1	9 40.60	−75 42.6	1.354	1.627	37.2	20.7	87 W	—	40
2 6	9 31.08	−77 0.1	1.311	1.599	38.0	20.6	87 W	—	39
2 11	9 18.59	−78 5.5	1.267	1.572	38.9	20.5	88 E	—	38
2 16	9 3.19	−78 57.2	1.220	1.544	39.8	20.4	88 E	—	37
2 21	8 45.49	−79 33.6	1.170	1.516	40.7	20.3	89 E	—	36
2 22	8 41.78	−79 38.9	1.160	1.510	40.9	20.3	89 E	—	36
2 23	8 38.04	−79 43.6	1.150	1.505	41.1	20.3	89 E	—	36
2 24	8 34.28	−79 47.6	1.140	1.499	41.3	20.3	89 E	—	36
2 25	8 30.53	−79 50.9	1.129	1.494	41.5	20.3	89 E	—	36
2 26	8 26.79	−79 53.5	1.119	1.488	41.7	20.2	90 E	—	36
2 27	8 23.08	−79 55.5	1.108	1.482	41.9	20.2	90 E	—	36
2 28	8 19.42	−79 56.8	1.098	1.477	42.1	20.2	90 E	—	36
2 29	8 15.83	−79 57.4	1.087	1.471	42.3	20.2	90 E	—	36
3 1	8 12.32	−79 57.3	1.076	1.466	42.5	20.1	90 E	—	36

159929 2005 *UK* *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 2	8 8.90	−79 56.6	1.065	1.460	42.7	20.1	90 E	—	36
3 3	8 5.59	−79 55.2	1.054	1.455	42.9	20.1	91 E	—	36
3 4	8 2.40	−79 53.2	1.043	1.449	43.2	20.1	91 E	—	36
3 5	7 59.34	−79 50.5	1.032	1.444	43.4	20.0	91 E	—	36
3 6	7 56.44	−79 47.2	1.021	1.439	43.6	20.0	91 E	—	36
3 7	7 53.69	−79 43.3	1.009	1.433	43.8	20.0	91 E	—	36
3 8	7 51.11	−79 38.8	0.998	1.428	44.0	20.0	92 E	—	36
3 9	7 48.71	−79 33.6	0.986	1.422	44.2	19.9	92 E	—	36
3 10	7 46.50	−79 27.9	0.974	1.417	44.5	19.9	92 E	—	37
3 11	7 44.47	−79 21.5	0.963	1.412	44.7	19.9	92 E	—	37
3 12	7 42.64	−79 14.5	0.951	1.406	44.9	19.8	93 E	—	37
3 14	7 39.59	−78 58.7	0.927	1.396	45.3	19.8	93 E	—	37
3 16	7 37.37	−78 40.5	0.903	1.385	45.8	19.7	94 E	—	37
3 18	7 36.01	−78 19.9	0.878	1.374	46.2	19.7	94 E	—	38
3 20	7 35.51	−77 56.7	0.853	1.364	46.7	19.6	95 E	—	38
3 22	7 35.87	−77 30.8	0.828	1.354	47.1	19.5	95 E	—	38
3 24	7 37.07	−77 2.2	0.803	1.344	47.6	19.5	96 E	—	39
3 26	7 39.10	−76 30.5	0.777	1.333	48.0	19.4	97 E	—	39
3 28	7 41.91	−75 55.5	0.751	1.323	48.4	19.3	97 E	—	40
3 30	7 45.50	−75 17.0	0.725	1.314	48.8	19.2	98 E	—	41
4 1	7 49.80	−74 34.4	0.698	1.304	49.2	19.1	99 E	—	41
4 3	7 54.79	−73 47.2	0.672	1.294	49.6	19.0	100 E	—	42
4 5	8 0.41	−72 54.8	0.645	1.285	50.0	19.0	100 E	—	43
4 7	8 6.62	−71 56.5	0.619	1.276	50.3	18.9	101 E	—	44
4 9	8 13.36	−70 51.4	0.592	1.267	50.6	18.8	102 E	—	45
4 11	8 20.59	−69 38.4	0.566	1.258	50.9	18.6	103 E	—	46
4 13	8 28.25	−68 16.2	0.539	1.249	51.1	18.5	104 E	—	48
4 15	8 36.29	−66 43.4	0.513	1.240	51.3	18.4	105 E	—	49
4 17	8 44.65	−64 58.3	0.487	1.232	51.5	18.3	106 E	—	51
4 19	8 53.29	−62 58.9	0.462	1.224	51.6	18.2	107 E	—	53
4 21	9 2.15	−60 43.1	0.438	1.216	51.6	18.0	108 E	—	55
4 23	9 11.17	−58 8.4	0.414	1.209	51.6	17.9	110 E	—	58
4 25	9 20.31	−55 12.1	0.391	1.201	51.6	17.8	111 E	—	61
4 27	9 29.51	−51 51.4	0.369	1.194	51.5	17.6	112 E	—	64
4 29	9 38.73	−48 3.7	0.350	1.187	51.4	17.5	113 E	—	68
5 1	9 47.92	−43 46.7	0.331	1.181	51.4	17.4	114 E	1*	72
5 6	10 10.54	−30 52.6	0.297	1.165	51.8	17.1	115 E	14*	85
5 11	10 32.27	−15 31.4	0.283	1.152	53.6	17.0	113 E	29*	80
5 16	10 52.85	+ 0 6.5	0.293	1.141	56.9	17.2	109 E	44*	64
5 21	11 12.17	+13 39.2	0.323	1.132	60.5	17.5	103 E	57*	50
5 26	11 30.24	+24 9.7	0.368	1.125	63.2	17.8	98 E	66*	40
5 31	11 47.13	+31 55.7	0.423	1.120	64.7	18.2	93 E	72*	32
6 2	11 53.58	+34 25.1	0.447	1.119	65.0	18.3	91 E	74*	30
6 4	11 59.86	+36 37.1	0.471	1.118	65.1	18.4	90 E	75*	27
6 6	12 5.98	+38 34.1	0.496	1.118	65.2	18.5	89 E	75*	25
6 8	12 11.96	+40 17.9	0.521	1.118	65.1	18.6	87 E	75*	24
6 10	12 17.79	+41 50.3	0.546	1.118	64.9	18.7	86 E	75*	22
6 12	12 23.50	+43 12.7	0.571	1.119	64.7	18.8	85 E	75*	21
6 14	12 29.09	+44 26.4	0.596	1.120	64.3	18.9	84 E	75*	20
6 16	12 34.57	+45 32.5	0.621	1.122	64.0	19.0	83 E	74*	18
6 18	12 39.96	+46 31.8	0.646	1.123	63.5	19.1	82 E	74*	17
6 20	12 45.26	+47 25.1	0.671	1.126	63.1	19.1	81 E	73*	17
6 22	12 50.49	+48 13.2	0.695	1.128	62.5	19.2	80 E	73*	16
6 24	12 55.65	+48 56.6	0.719	1.131	62.0	19.3	79 E	72*	15
6 26	13 0.75	+49 35.8	0.742	1.135	61.4	19.3	79 E	72*	14
6 28	13 5.80	+50 11.3	0.766	1.139	60.9	19.4	78 E	71*	14
6 30	13 10.81	+50 43.4	0.788	1.143	60.3	19.4	77 E	71*	13
7 5	13 23.20	+51 51.0	0.843	1.154	58.8	19.6	76 E	70*	12
7 10	13 35.48	+52 43.3	0.894	1.168	57.2	19.7	75 E	69*	11
7 15	13 47.78	+53 23.0	0.941	1.184	55.8	19.8	74 E	68*	11
7 20	14 0.21	+53 52.1	0.985	1.201	54.3	19.8	74 E	68*	10
7 25	14 12.88	+54 12.0	1.025	1.220	52.9	19.9	73 E	67*	10
7 30	14 25.87	+54 23.9	1.061	1.240	51.6	20.0	73 E	67*	10*
8 4	14 39.23	+54 28.4	1.092	1.262	50.4	20.1	73 E	67*	9*
8 9	14 53.03	+54 26.0	1.121	1.285	49.3	20.1	74 E	68*	9*
8 14	15 7.33	+54 16.7	1.145	1.308	48.2	20.2	74 E	68*	10*
8 19	15 22.17	+54 0.8	1.167	1.333	47.2	20.2	75 E	69*	10*
8 24	15 37.58	+53 38.0	1.186	1.359	46.2	20.3	76 E	69*	10*
8 29	15 53.55	+53 8.5	1.202	1.385	45.3	20.3	77 E	70*	10*
9 3	16 10.07	+52 32.0	1.216	1.411	44.4	20.4	78 E	71*	11*
9 8	16 27.10	+51 48.1	1.228	1.438	43.5	20.4	79 E	73*	11*
9 13	16 44.60	+50 56.5	1.240	1.466	42.7	20.5	81 E	74*	12*
9 18	17 2.50	+49 57.1	1.251	1.493	41.8	20.5	82 E	75*	13*
9 23	17 20.74	+48 49.9	1.262	1.521	41.0	20.5	84 E	77*	14*
9 28	17 39.19	+47 35.0	1.274	1.549	40.1	20.6	85 E	78*	15*
10 3	17 57.75	+46 12.7	1.287	1.577	39.3	20.6	86 E	80*	16*
10 8	18 16.31	+44 43.6	1.303	1.605	38.5	20.6	87 E	81*	17*
10 13	18 34.77	+43 8.3	1.321	1.633	37.7	20.7	88 E	82*	18*
10 18	18 53.05	+41 28.0	1.342	1.660	36.9	20.7	89 E	83*	20*

159929 2005 *UK* *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 23	19 11.05	+39 44.1	1.367	1.688	36.1	20.8	90 E	83*	21*
10 28	19 28.69	+37 58.1	1.396	1.715	35.4	20.8	90 E	82*	22*
11 2	19 45.91	+36 11.5	1.430	1.743	34.7	20.9	90 E	81*	23*
11 7	20 2.67	+34 25.7	1.467	1.770	34.1	21.0	90 E	79*	24*
11 12	20 18.94	+32 42.2	1.510	1.796	33.4	21.1	89 E	77*	25*
11 17	20 34.71	+31 2.3	1.557	1.823	32.8	21.1	89 E	76*	26*
11 22	20 49.98	+29 27.2	1.608	1.849	32.2	21.2	87 E	74*	26*
11 27	21 4.74	+27 57.7	1.664	1.875	31.7	21.3	86 E	73*	26*
12 2	21 19.01	+26 34.5	1.723	1.900	31.1	21.4	84 E	71*	26*
12 7	21 32.81	+25 17.8	1.786	1.926	30.5	21.5	83 E	70*	26*

369993 1999 RO_{37}

12 23	9 45.24	− 5 27.2	0.839	1.568	33.5	19.5	118 W	40	69
12 28	9 46.57	− 4 36.8	0.815	1.586	31.2	19.4	123 W	40	69
1 2	9 46.77	− 3 32.3	0.794	1.604	28.6	19.3	129 W	41	68
1 7	9 45.86	− 2 13.3	0.775	1.623	25.6	19.2	134 W	43	66
1 12	9 43.87	− 0 39.6	0.760	1.642	22.4	19.1	140 W	44	65
1 17	9 40.87	+ 1 7.8	0.748	1.661	18.9	18.9	147 W	46	63
1 22	9 36.99	+ 3 7.4	0.742	1.681	15.1	18.8	154 W	48	61
1 27	9 32.40	+ 5 16.5	0.741	1.701	11.2	18.7	160 W	50	59
2 1	9 27.36	+ 7 31.5	0.746	1.721	7.2	18.6	167 W	53	56
2 6	9 22.14	+ 9 48.0	0.757	1.741	3.6	18.4	174 W	55	54
2 11	9 17.00	+12 2.0	0.776	1.761	2.8	18.5	175 E	57	52
2 16	9 12.19	+14 9.4	0.801	1.781	5.8	18.7	170 E	59	50
2 21	9 7.95	+16 7.4	0.832	1.801	9.2	19.0	163 E	61	48
2 26	9 4.45	+17 53.9	0.869	1.821	12.4	19.2	157 E	63	46
3 2	9 1.84	+19 27.6	0.912	1.841	15.3	19.5	151 E	64	45
3 12	8 59.51	+21 56.4	1.013	1.881	20.2	19.9	139 E	67	42
3 22	9 0.97	+23 37.7	1.131	1.921	23.8	20.3	129 E	69	40
4 1	9 5.87	+24 38.8	1.260	1.960	26.2	20.7	120 E	70	39
4 11	9 13.63	+25 7.3	1.399	1.999	27.8	21.0	112 E	70	39
4 21	9 23.63	+25 9.7	1.543	2.037	28.6	21.2	104 E	70	39
5 1	9 35.39	+24 51.0	1.692	2.074	28.8	21.5	97 E	68*	39

121863 2000 CO_{75}

12 23	9 45.60	+ 1 56.7	1.426	2.118	23.2	19.7	122 W	47	62
1 2	9 43.13	+ 1 53.2	1.363	2.152	19.7	19.5	132 W	47	62
1 12	9 37.37	+ 2 15.9	1.316	2.186	15.5	19.3	144 W	47	62
1 22	9 28.87	+ 3 5.0	1.288	2.219	10.8	19.2	155 W	48	61
1 27	9 23.87	+ 3 38.4	1.283	2.236	8.4	19.1	161 W	49	60
2 1	9 18.61	+ 4 16.7	1.284	2.252	6.2	19.0	166 W	49	60
2 6	9 13.25	+ 4 58.8	1.293	2.268	4.7	18.9	169 E	50	59
2 11	9 8.00	+ 5 43.5	1.308	2.284	4.7	19.0	169 E	51	58
2 16	9 3.02	+ 6 29.4	1.330	2.300	6.0	19.1	166 E	51	58
2 21	8 58.46	+ 7 15.4	1.359	2.316	8.0	19.3	161 E	52	57
2 26	8 54.47	+ 8 0.4	1.394	2.332	10.1	19.4	156 E	53	56
3 2	8 51.14	+ 8 43.4	1.436	2.347	12.2	19.6	150 E	54	55
3 7	8 48.55	+ 9 23.6	1.483	2.362	14.1	19.7	145 E	54	55
3 12	8 46.73	+10 0.5	1.535	2.377	15.9	19.9	139 E	55	54
3 22	8 45.41	+11 3.1	1.653	2.407	18.8	20.2	129 E	56	53
4 1	8 47.04	+11 49.8	1.786	2.436	21.0	20.4	119 E	57	52
4 11	8 51.31	+12 20.7	1.928	2.464	22.4	20.7	110 E	57	52
4 21	8 57.80	+12 36.7	2.078	2.491	23.2	20.9	102 E	57*	51
5 1	9 6.13	+12 39.0	2.231	2.518	23.5	21.1	94 E	55*	51
5 11	9 15.94	+12 28.7	2.386	2.543	23.4	21.2	87 E	50*	52
5 21	9 26.91	+12 7.2	2.540	2.568	22.8	21.4	80 E	44*	52*
5 31	9 38.81	+11 35.5	2.692	2.592	22.0	21.5	73 E	38*	51*

1170 Siva

12 23	9 47.60	+58 21.2	0.956	1.738	26.8	14.7	127 W	77	6
12 28	9 44.03	+58 55.2	0.947	1.750	25.4	14.7	130 W	76	5
1 2	9 38.19	+59 22.1	0.941	1.763	24.1	14.7	133 W	76	5
1 7	9 30.26	+59 38.8	0.938	1.777	22.9	14.6	135 W	75	4
1 12	9 20.61	+59 42.8	0.939	1.791	21.8	14.6	137 W	75	4
1 14	9 16.37	+59 40.3	0.941	1.797	21.4	14.6	138 W	75	4
1 16	9 11.98	+59 35.2	0.943	1.803	21.1	14.6	139 W	75	4
1 18	9 7.47	+59 27.5	0.945	1.809	20.8	14.6	139 W	76	5
1 20	9 2.90	+59 17.0	0.949	1.815	20.5	14.6	140 W	76	5
1 22	8 58.29	+59 3.8	0.953	1.820	20.3	14.6	140 W	76	5
1 24	8 53.70	+58 47.9	0.958	1.827	20.2	14.7	140 W	76	5
1 26	8 49.18	+58 29.2	0.964	1.833	20.1	14.7	140 W	77	6
1 28	8 44.76	+58 7.8	0.970	1.839	20.0	14.7	140 W	77	6
1 30	8 40.49	+57 43.8	0.977	1.845	20.0	14.7	140 E	77	6
2 1	8 36.39	+57 17.4	0.985	1.851	20.0	14.7	140 E	78	7
2 6	8 27.08	+56 1.5	1.008	1.867	20.3	14.8	139 E	79	8
2 11	8 19.34	+54 33.8	1.036	1.883	20.9	14.9	137 E	80	9
2 16	8 13.28	+52 57.1	1.069	1.900	21.6	15.0	135 E	82	11
2 21	8 8.91	+51 14.0	1.106	1.916	22.4	15.1	132 E	84	13

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1170 Siva *(continuation)*									
2 26	8 6.17	+49 27.1	1.147	1.933	23.3	15.3	129 E	86	15
3 2	8 4.92	+47 38.5	1.193	1.950	24.2	15.4	126 E	87	16
3 7	8 4.99	+45 49.8	1.242	1.967	25.0	15.5	123 E	89	18
3 12	8 6.21	+44 2.2	1.295	1.985	25.8	15.7	120 E	89	20
3 17	8 8.42	+42 16.7	1.352	2.002	26.5	15.8	116 E	87	22
3 22	8 11.47	+40 33.7	1.411	2.020	27.0	15.9	113 E	86	23
3 27	8 15.26	+38 53.5	1.473	2.037	27.5	16.0	110 E	84	25
4 1	8 19.67	+37 16.2	1.538	2.055	27.8	16.2	106 E	82	27
4 6	8 24.60	+35 41.8	1.604	2.073	28.1	16.3	103 E	81	28
4 11	8 29.96	+34 10.2	1.673	2.091	28.2	16.4	100 E	79	30
4 16	8 35.68	+32 41.2	1.743	2.108	28.2	16.5	97 E	77*	31
4 21	8 41.70	+31 14.7	1.814	2.126	28.2	16.6	93 E	74*	33
5 1	8 54.48	+28 28.2	1.960	2.162	27.7	16.8	87 E	67*	36
5 11	9 7.97	+25 48.9	2.108	2.197	27.0	17.0	81 E	59*	38
5 21	9 21.91	+23 15.4	2.257	2.232	26.1	17.1	76 E	52*	41*
5 31	9 36.17	+20 46.3	2.405	2.267	24.8	17.3	70 E	44*	42*
6 10	9 50.61	+18 20.7	2.551	2.302	23.4	17.4	64 E	36*	43*
6 20	10 5.15	+15 57.8	2.692	2.336	21.9	17.5	59 E	30*	43*
6 30	10 19.74	+13 37.0	2.829	2.370	20.2	17.6	53 E	23*	41*
7 10	10 34.33	+11 17.8	2.959	2.403	18.4	17.6	48 E	18*	38*
7 20	10 48.90	+ 9 0.1	3.082	2.435	16.5	17.7	43 E	14*	35*
7 30	11 3.45	+ 6 43.6	3.195	2.467	14.5	17.7	37 E	10*	31*
8 9	11 17.95	+ 4 28.2	3.299	2.498	12.4	17.8	32 E	6*	26*
8 19	11 32.41	+ 2 14.1	3.392	2.528	10.3	17.8	27 E	3*	21*
8 29	11 46.83	+ 0 1.1	3.473	2.557	8.2	17.7	21 E	1*	15*
9 8	12 1.21	− 2 10.5	3.542	2.586	6.1	17.7	16 E	—	10*
9 18	12 15.54	− 4 20.6	3.597	2.614	4.0	17.7	10 E	—	4*
9 28	12 29.83	− 6 29.2	3.637	2.641	2.0	17.6	5 E	—	—
10 8	12 44.06	− 8 35.9	3.664	2.668	1.4	17.6	4 W	—	—
10 18	12 58.22	−10 40.6	3.675	2.693	3.1	17.7	8 W	—	2*
10 28	13 12.28	−12 43.2	3.671	2.718	5.1	17.8	14 W	4*	6*
11 7	13 26.21	−14 43.4	3.651	2.741	7.1	18.0	20 W	9*	11*
11 17	13 39.97	−16 41.3	3.616	2.764	9.1	18.0	26 W	12*	16*
11 27	13 53.49	−18 36.5	3.566	2.786	11.0	18.1	33 W	16*	22*
12 7	14 6.70	−20 29.2	3.502	2.807	12.8	18.1	39 W	18*	29*
12 17	14 19.49	−22 19.4	3.424	2.827	14.4	18.2	46 W	19*	36*
12 27	14 31.73	−24 7.1	3.333	2.846	15.9	18.2	53 W	19*	43*
1 6	14 43.28	−25 52.7	3.230	2.864	17.3	18.2	60 W	19*	51*
1 16	14 53.94	−27 36.4	3.119	2.881	18.3	18.1	67 W	17*	60*
192507 1998 MQ_{37}									
12 23	9 49.17	+11 38.1	2.020	2.707	17.3	21.0	125 W	57	52
1 2	9 45.08	+11 37.0	1.930	2.725	14.5	20.8	136 W	57	52
1 12	9 38.28	+11 48.7	1.859	2.743	11.0	20.6	148 W	57	52
1 22	9 29.18	+12 11.5	1.813	2.759	6.9	20.4	160 W	57	52
2 1	9 18.55	+12 41.9	1.795	2.775	2.6	20.2	173 W	58	51
2 6	9 12.99	+12 58.6	1.797	2.782	1.1	20.1	177 E	58	51
2 11	9 7.48	+13 15.3	1.807	2.789	2.4	20.2	173 E	58	51
2 16	9 2.14	+13 31.7	1.825	2.796	4.5	20.3	167 E	59	50
2 21	8 57.11	+13 47.2	1.850	2.803	6.6	20.5	161 E	59	50
3 2	8 48.46	+14 14.0	1.920	2.815	10.5	20.7	149 E	59	50
3 12	8 42.23	+14 33.4	2.014	2.827	13.8	21.0	137 E	60	49
3 22	8 38.69	+14 44.6	2.128	2.837	16.4	21.2	127 E	60	49
4 1	8 37.89	+14 47.1	2.257	2.847	18.3	21.4	117 E	60	49
488883 2005 SK_{222}									
12 23	9 51.09	+ 6 54.0	1.643	2.327	20.8	21.4	123 W	52	57
1 2	9 48.50	+ 7 14.5	1.570	2.358	17.6	21.3	134 W	52	57
1 12	9 42.86	+ 7 56.3	1.513	2.388	13.6	21.1	145 W	53	56
1 22	9 34.59	+ 8 57.3	1.479	2.418	8.9	20.9	158 W	54	55
2 1	9 24.54	+10 12.5	1.471	2.447	4.1	20.6	170 W	55	54
2 11	9 13.95	+11 34.2	1.491	2.474	2.3	20.6	174 E	57	52
2 21	9 4.13	+12 54.0	1.540	2.502	6.7	20.9	163 E	58	51
3 2	8 56.20	+14 5.1	1.617	2.528	11.0	21.2	151 E	59	50
1627 Ivar									
12 23	9 51.69	+11 49.7	1.903	2.590	18.2	17.2	125 W	57	52
1 2	9 48.32	+12 28.0	1.786	2.583	15.4	17.0	136 W	57	52
1 12	9 41.87	+13 24.9	1.689	2.574	11.8	16.8	148 W	58	51
1 22	9 32.54	+14 38.0	1.615	2.563	7.4	16.6	160 W	60	49
1 27	9 26.97	+15 18.9	1.588	2.557	5.0	16.4	167 W	60	49
2 1	9 20.97	+16 1.5	1.569	2.551	2.5	16.3	174 W	61	48
2 6	9 14.70	+16 44.6	1.558	2.544	0.3	16.2	179 E	62	47
2 11	9 8.32	+17 27.2	1.554	2.536	2.8	16.3	173 E	62	47
2 16	9 2.02	+18 8.3	1.558	2.528	5.4	16.4	166 E	63	46
2 21	8 55.97	+18 46.8	1.570	2.520	7.9	16.5	160 E	64	45
2 26	8 50.36	+19 22.1	1.589	2.511	10.3	16.5	153 E	64	45
3 2	8 45.31	+19 53.7	1.614	2.502	12.5	16.6	147 E	65	44

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1627 Ivar *(continuation)*									
3 12	8 37.39	+20 44.6	1.681	2.483	16.5	16.8	135 E	66	43
3 22	8 32.72	+21 19.1	1.766	2.461	19.7	16.9	124 E	66	43
4 1	8 31.42	+21 38.4	1.863	2.438	22.1	17.1	113 E	67	42
4 11	8 33.32	+21 44.0	1.968	2.413	23.8	17.2	104 E	67	42
4 21	8 38.05	+21 37.4	2.075	2.387	24.8	17.3	95 E	65*	42
5 1	8 45.25	+21 19.6	2.182	2.358	25.3	17.4	87 E	60*	43
5 11	8 54.53	+20 51.6	2.285	2.328	25.3	17.5	80 E	54*	43*
5 21	9 5.55	+20 13.7	2.382	2.296	24.9	17.5	73 E	47*	43*
5 31	9 18.04	+19 26.3	2.471	2.262	24.2	17.6	66 E	40*	42*
6 10	9 31.74	+18 29.7	2.552	2.226	23.3	17.6	60 E	33*	41*
6 20	9 46.48	+17 24.2	2.622	2.189	22.1	17.6	54 E	27*	39*
6 30	10 2.12	+16 9.9	2.682	2.150	20.8	17.6	49 E	22*	36*
7 10	10 18.53	+14 47.2	2.730	2.109	19.3	17.5	43 E	18*	33*
7 20	10 35.66	+13 16.2	2.766	2.067	17.7	17.5	38 E	14*	30*
7 30	10 53.45	+11 37.2	2.791	2.023	16.1	17.4	33 E	11*	26*
8 9	11 11.88	+ 9 50.8	2.804	1.977	14.3	17.3	29 E	9*	22*
8 19	11 30.97	+ 7 57.1	2.806	1.930	12.5	17.2	24 E	7*	17*
8 29	11 50.76	+ 5 56.9	2.796	1.881	10.7	17.1	20 E	5*	13*
9 8	12 11.29	+ 3 50.7	2.776	1.830	8.8	17.0	16 E	4*	9*
9 18	12 32.65	+ 1 39.1	2.747	1.779	7.0	16.9	13 E	3*	5*
9 28	12 54.94	− 0 36.8	2.708	1.726	5.3	16.8	9 E	1*	2*
10 8	13 18.29	− 2 55.8	2.662	1.673	3.9	16.6	7 E	—	—
10 18	13 42.84	− 5 16.7	2.609	1.619	3.1	16.5	5 E	—	—
10 28	14 8.75	− 7 37.5	2.551	1.565	3.5	16.4	5 W	—	—
11 7	14 36.21	− 9 55.8	2.489	1.510	4.6	16.3	7 W	1*	—
11 17	15 5.39	−12 8.9	2.425	1.456	6.1	16.2	9 W	3*	—
11 27	15 36.45	−14 13.0	2.360	1.403	7.6	16.1	11 W	5*	—
12 7	16 9.52	−16 4.0	2.297	1.352	9.1	16.0	13 W	6*	—
12 12	16 26.84	−16 53.0	2.267	1.328	9.8	15.9	13 W	6*	1*
12 17	16 44.66	−17 36.9	2.237	1.304	10.5	15.9	14 W	7*	2*
12 22	17 2.98	−18 14.9	2.209	1.281	11.1	15.8	15 W	7*	3*
12 27	17 21.78	−18 46.4	2.182	1.259	11.7	15.8	15 W	7*	4*
1 1	17 41.02	−19 10.8	2.157	1.239	12.3	15.7	16 W	7*	5*
1 6	18 0.67	−19 27.6	2.134	1.219	12.8	15.7	16 W	6*	6*
1 11	18 20.67	−19 36.1	2.113	1.201	13.2	15.6	16 W	6*	7*
1 16	18 40.97	−19 36.0	2.095	1.185	13.6	15.6	16 W	6*	8*
347505 1999 CM_4									
12 23	9 51.79	+11 7.6	1.414	2.129	22.5	19.9	124 W	56	53
12 28	9 53.73	+11 54.0	1.347	2.111	21.2	19.7	129 W	57	52
1 2	9 54.97	+12 50.2	1.283	2.092	19.7	19.5	134 W	58	51
1 7	9 55.46	+13 56.6	1.224	2.073	17.9	19.4	140 W	59	50
1 12	9 55.15	+15 13.6	1.169	2.054	15.9	19.2	145 W	60	49
1 22	9 52.04	+18 18.8	1.075	2.017	11.1	18.8	157 W	63	46
2 1	9 45.67	+21 58.3	1.007	1.980	6.3	18.4	167 W	67	42
2 11	9 36.74	+25 54.3	0.966	1.943	5.8	18.2	168 W	71	38
2 16	9 31.71	+27 50.9	0.957	1.925	8.2	18.3	164 E	73	36
2 21	9 26.60	+29 42.3	0.953	1.907	11.1	18.4	158 E	75	34
2 26	9 21.67	+31 25.7	0.957	1.889	14.2	18.5	152 E	76	33
3 2	9 17.20	+32 58.9	0.966	1.872	17.2	18.6	146 E	78	31
3 7	9 13.41	+34 20.7	0.980	1.854	20.0	18.7	140 E	79	30
3 12	9 10.52	+35 30.5	0.998	1.837	22.6	18.8	135 E	81	28
3 17	9 8.65	+36 28.2	1.020	1.821	25.0	18.9	129 E	81	28
3 22	9 7.92	+37 14.2	1.045	1.804	27.2	19.0	124 E	82	27
3 27	9 8.39	+37 49.2	1.072	1.788	29.1	19.1	119 E	83	26
4 1	9 10.07	+38 14.0	1.101	1.772	30.7	19.2	115 E	83	26
4 6	9 12.94	+38 29.2	1.132	1.757	32.2	19.3	111 E	83	26
4 11	9 16.92	+38 35.8	1.163	1.742	33.4	19.3	107 E	84	25
4 16	9 21.95	+38 34.2	1.194	1.728	34.4	19.4	103 E	84	25
4 21	9 27.96	+38 25.0	1.225	1.714	35.3	19.5	100 E	83	26
4 26	9 34.86	+38 8.5	1.257	1.700	36.0	19.5	97 E	83*	26
5 1	9 42.56	+37 45.1	1.288	1.688	36.6	19.6	94 E	81*	26
5 6	9 50.97	+37 15.1	1.318	1.675	37.0	19.6	91 E	78*	27
5 11	10 0.00	+36 38.8	1.348	1.664	37.4	19.7	89 E	75*	27
5 16	10 9.57	+35 56.2	1.377	1.653	37.6	19.7	86 E	72*	28
5 21	10 19.61	+35 7.6	1.406	1.643	37.8	19.7	84 E	69*	29
5 26	10 30.06	+34 13.0	1.433	1.634	37.9	19.8	82 E	66*	30
5 31	10 40.85	+33 12.8	1.460	1.625	37.9	19.8	80 E	63*	31
6 5	10 51.93	+32 7.0	1.486	1.617	37.9	19.8	78 E	60*	32
6 10	11 3.24	+30 55.9	1.512	1.610	37.8	19.9	76 E	57*	33
6 15	11 14.74	+29 39.7	1.537	1.604	37.7	19.9	75 E	54*	34*
6 20	11 26.41	+28 18.6	1.562	1.599	37.5	19.9	73 E	52*	36*
6 25	11 38.21	+26 52.9	1.587	1.594	37.3	19.9	72 E	49*	37*
6 30	11 50.12	+25 22.9	1.611	1.591	37.0	19.9	70 E	47*	38*
7 5	12 2.11	+23 49.0	1.636	1.588	36.7	20.0	69 E	45*	39*
7 10	12 14.16	+22 11.5	1.660	1.586	36.4	20.0	68 E	43*	41*
7 15	12 26.27	+20 30.9	1.685	1.585	36.1	20.0	67 E	41*	42*
7 20	12 38.43	+18 47.5	1.710	1.585	35.7	20.0	65 E	40*	42*
7 25	12 50.64	+17 1.7	1.736	1.586	35.2	20.0	64 E	38*	43*
7 30	13 2.88	+15 14.2	1.763	1.588	34.8	20.1	63 E	37*	44*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	347505 1999 CM_4							*(continuation)*	
	h m	° ′			°	m	°	°	°
8 4	13 15.16	+13 25.3	1.790	1.591	34.3	20.1	62 E	35*	44*
8 9	13 27.47	+11 35.7	1.818	1.595	33.8	20.1	61 E	34*	45*
8 14	13 39.82	+ 9 45.7	1.847	1.600	33.2	20.1	60 E	33*	45*
8 19	13 52.21	+ 7 55.9	1.878	1.605	32.6	20.2	59 E	32*	45*
8 29	14 17.14	+ 4 19.0	1.942	1.619	31.3	20.2	56 E	29*	44*
9 8	14 42.26	+ 0 48.9	2.010	1.636	29.9	20.3	54 E	27*	43*
9 18	15 7.59	− 2 30.7	2.084	1.656	28.3	20.3	51 E	26*	41*
9 28	15 33.16	− 5 36.8	2.162	1.678	26.6	20.4	49 E	24*	39*
10 8	15 58.93	− 8 26.5	2.244	1.703	24.8	20.5	46 E	22*	36*
10 18	16 24.88	−10 58.1	2.328	1.731	22.9	20.5	43 E	21*	33*
10 28	16 50.97	−13 9.9	2.415	1.760	20.9	20.6	39 E	19*	30*
11 7	17 17.11	−15 1.3	2.502	1.792	18.8	20.6	36 E	17*	26*
11 17	17 43.22	−16 32.1	2.589	1.824	16.6	20.7	32 E	16*	22*
11 27	18 9.19	−17 42.6	2.673	1.858	14.4	20.7	28 E	14*	17*
12 7	18 34.90	−18 33.4	2.754	1.893	12.1	20.7	24 E	12*	13*
12 17	19 0.26	−19 5.8	2.830	1.929	9.7	20.7	19 E	9*	9*
12 27	19 25.16	−19 21.2	2.900	1.966	7.4	20.7	15 E	6*	5*
1 6	19 49.51	−19 21.3	2.963	2.003	5.0	20.7	10 E	3*	1*
1 16	20 13.25	−19 8.0	3.017	2.040	2.7	20.6	6 E	—	—
	101961 1999 RL_{39}								
12 23	9 52.06	+19 49.4	1.855	2.569	17.8	20.2	127 W	65	44
1 2	9 49.01	+20 48.0	1.770	2.585	14.8	20.0	138 W	66	43
1 12	9 42.91	+21 59.3	1.705	2.600	11.1	19.8	149 W	67	42
1 22	9 34.11	+23 16.9	1.664	2.614	7.1	19.6	161 W	68	41
1 27	9 28.93	+23 55.5	1.654	2.620	5.1	19.5	166 W	69	40
2 1	9 23.41	+24 32.6	1.651	2.627	3.6	19.4	170 W	70	39
2 6	9 17.71	+25 7.0	1.655	2.633	3.4	19.4	171 W	70	39
2 11	9 12.02	+25 37.9	1.667	2.639	4.6	19.5	167 E	71	38
2 16	9 6.49	+26 4.6	1.686	2.645	6.5	19.6	162 E	71	38
2 21	9 1.28	+26 26.6	1.713	2.650	8.4	19.8	157 E	71	38
2 26	8 56.54	+26 43.8	1.746	2.656	10.4	19.9	151 E	72	37
3 2	8 52.40	+26 56.2	1.785	2.661	12.2	20.0	145 E	72	37
3 12	8 46.20	+27 7.1	1.879	2.670	15.4	20.3	134 E	72	37
3 22	8 43.01	+27 2.1	1.991	2.679	18.0	20.5	124 E	72	37
4 1	8 42.84	+26 43.8	2.115	2.686	19.8	20.7	114 E	72	37
4 11	8 45.44	+26 14.9	2.249	2.693	21.0	20.8	105 E	71	38
4 21	8 50.44	+25 37.1	2.387	2.698	21.7	21.0	97 E	70*	38
5 1	8 57.48	+24 51.8	2.526	2.703	21.9	21.1	89 E	65*	39
5 11	9 6.20	+23 59.8	2.664	2.706	21.7	21.2	82 E	58*	40
5 21	9 16.28	+23 1.8	2.799	2.709	21.1	21.3	74 E	50*	41*
5 31	9 27.46	+21 58.0	2.928	2.711	20.2	21.4	68 E	43*	41*
6 10	9 39.51	+20 48.9	3.050	2.711	19.2	21.5	61 E	36*	40*
6 20	9 52.24	+19 34.8	3.164	2.711	17.9	21.5	55 E	30*	38*
	47581 2000 AN_{178}								
12 23	9 53.01	+ 3 31.5	1.987	2.632	18.7	19.9	121 W	49	60
1 2	9 50.13	+ 3 24.2	1.893	2.649	16.1	19.8	132 W	48	61
1 12	9 44.57	+ 3 35.5	1.816	2.666	12.9	19.6	143 W	49	60
1 22	9 36.65	+ 4 5.6	1.761	2.681	9.2	19.4	154 W	49	60
2 1	9 27.03	+ 4 52.7	1.732	2.696	5.3	19.2	165 W	50	59
2 6	9 21.90	+ 5 21.4	1.728	2.703	3.9	19.1	169 W	50	59
2 11	9 16.73	+ 5 52.6	1.732	2.710	3.5	19.1	170 E	51	58
2 16	9 11.67	+ 6 25.4	1.743	2.716	4.5	19.2	168 E	51	58
2 21	9 6.85	+ 6 59.0	1.761	2.722	6.1	19.3	163 E	52	57
2 26	9 2.41	+ 7 32.7	1.787	2.728	8.0	19.4	157 E	53	56
3 2	8 58.45	+ 8 5.7	1.820	2.734	9.9	19.5	152 E	53	56
3 12	8 52.28	+ 9 7.0	1.903	2.744	13.3	19.8	141 E	54	55
3 22	8 48.74	+ 9 59.1	2.007	2.754	16.1	20.0	130 E	55	54
4 1	8 47.90	+10 40.1	2.127	2.763	18.3	20.2	120 E	56	53
4 11	8 49.64	+11 9.0	2.258	2.770	19.8	20.4	110 E	56	53
4 21	8 53.68	+11 25.9	2.396	2.777	20.8	20.5	101 E	56*	53
5 1	8 59.71	+11 31.1	2.538	2.783	21.2	20.7	93 E	53*	52
5 11	9 7.42	+11 25.4	2.680	2.787	21.2	20.8	85 E	48*	53
5 21	9 16.51	+11 9.5	2.820	2.791	20.8	20.9	78 E	42*	52*
5 31	9 26.76	+10 44.0	2.955	2.793	20.1	21.0	71 E	35*	51*
6 10	9 37.94	+10 9.6	3.084	2.795	19.1	21.0	64 E	28*	49*
6 20	9 49.87	+ 9 27.2	3.205	2.795	17.9	21.1	58 E	22*	46*
6 30	10 2.42	+ 8 37.3	3.316	2.795	16.5	21.1	51 E	17*	42*
7 10	10 15.45	+ 7 40.6	3.416	2.794	14.9	21.1	45 E	12*	38*
7 20	10 28.88	+ 6 38.0	3.506	2.791	13.3	21.1	39 E	8*	32*
7 30	10 42.64	+ 5 29.9	3.582	2.788	11.5	21.1	33 E	5*	27*
8 9	10 56.66	+ 4 17.1	3.645	2.783	9.6	21.1	27 E	2*	21*
8 19	11 10.90	+ 3 0.3	3.695	2.778	7.7	21.0	21 E	—	15*
8 29	11 25.33	+ 1 40.2	3.730	2.771	5.6	20.9	16 E	—	10*
9 8	11 39.92	+ 0 17.6	3.751	2.764	3.6	20.8	10 E	—	4*
9 18	11 54.65	− 1 7.0	3.756	2.755	1.6	20.7	4 E	—	—
9 28	12 9.49	− 2 32.8	3.747	2.746	0.8	20.6	2 W	—	—

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	47581 2000 AN_{178}							*(continuation)*	
	h m	° ′			°	m	°	°	°
10 8	12 24.44	− 3 58.9	3.722	2.735	2.8	20.7	8 W	1*	—
10 18	12 39.48	− 5 24.6	3.682	2.724	4.9	20.8	14 W	6*	4*
10 28	12 54.58	− 6 49.1	3.627	2.711	7.0	20.9	20 W	11*	8*
11 7	13 9.71	− 8 11.6	3.558	2.698	9.1	20.9	26 W	16*	12*
11 17	13 24.84	− 9 31.3	3.474	2.683	11.2	20.9	32 W	20*	17*
11 27	13 39.93	−10 47.2	3.377	2.668	13.1	20.9	38 W	24*	22*
12 7	13 54.91	−11 58.6	3.268	2.651	15.0	20.9	44 W	27*	28*
12 17	14 9.72	−13 4.6	3.148	2.634	16.8	20.9	51 W	29*	35*
12 27	14 24.24	−14 4.2	3.017	2.616	18.4	20.8	57 W	29*	42*
1 6	14 38.37	−14 56.7	2.878	2.597	19.8	20.8	64 W	30*	49*
1 16	14 51.95	−15 41.4	2.731	2.576	21.1	20.7	71 W	29*	57*
	278462 2007 TD_{160}								
12 23	9 53.06	− 0 37.2	2.478	3.079	16.2	21.3	119 W	44	65
1 2	9 50.18	− 1 2.6	2.360	3.079	14.3	21.1	129 W	44	65
1 12	9 45.05	− 1 12.4	2.259	3.077	11.9	20.9	140 W	44	65
1 22	9 37.90	− 1 4.9	2.180	3.075	9.1	20.7	151 W	44	65
2 1	9 29.23	− 0 39.8	2.127	3.072	6.3	20.6	160 W	44	65
2 11	9 19.79	+ 0 1.1	2.103	3.068	4.7	20.5	165 E	45	64
2 21	9 10.48	+ 0 54.2	2.109	3.062	6.0	20.5	161 E	46	63
3 2	9 2.18	+ 1 54.4	2.145	3.056	8.7	20.7	152 E	47	62
3 12	8 55.62	+ 2 56.1	2.207	3.049	11.7	20.9	142 E	48	61
3 22	8 51.26	+ 3 54.6	2.291	3.041	14.3	21.0	131 E	49	60
4 1	8 49.30	+ 4 46.2	2.393	3.032	16.4	21.2	121 E	50	59
4 11	8 49.73	+ 5 28.6	2.507	3.022	18.0	21.3	112 E	50	59
4 21	8 52.37	+ 6 0.4	2.630	3.011	19.0	21.5	103 E	51*	58
	248918 2006 VU_{123}								
12 23	9 53.83	+17 21.5	1.757	2.465	18.9	20.6	126 W	62	47
1 2	9 50.45	+18 11.4	1.699	2.509	15.5	20.5	137 W	63	46
1 12	9 44.08	+19 13.8	1.660	2.552	11.5	20.3	149 W	64	45
1 22	9 35.23	+20 22.8	1.645	2.595	7.2	20.2	161 W	65	44
1 27	9 30.14	+20 57.4	1.648	2.616	5.0	20.1	167 W	66	43
2 1	9 24.81	+21 30.7	1.658	2.637	3.0	20.0	172 W	67	42
2 6	9 19.40	+22 1.8	1.675	2.658	2.3	20.0	174 W	67	42
2 11	9 14.08	+22 29.8	1.700	2.678	3.5	20.1	170 E	67	42
2 16	9 8.98	+22 54.4	1.732	2.699	5.4	20.3	165 E	68	41
2 21	9 4.26	+23 15.0	1.772	2.719	7.4	20.5	159 E	68	41
2 26	9 0.03	+23 31.6	1.818	2.739	9.3	20.6	153 E	69	40
3 2	8 56.38	+23 44.0	1.870	2.759	11.1	20.8	148 E	69	40
3 7	8 53.39	+23 52.5	1.928	2.778	12.7	20.9	142 E	69	40
3 12	8 51.08	+23 57.2	1.991	2.798	14.1	21.0	137 E	69	40
3 17	8 49.47	+23 58.4	2.059	2.817	15.4	21.2	131 E	69	40
3 22	8 48.54	+23 56.4	2.130	2.836	16.5	21.3	126 E	69	40
3 27	8 48.30	+23 51.5	2.206	2.855	17.4	21.4	121 E	69	40
	31869 2000 EF_{101}								
12 23	9 53.93	+22 44.9	2.082	2.788	16.3	19.1	127 W	68	41
1 2	9 51.26	+23 31.6	1.966	2.775	13.8	18.9	138 W	69	40
1 12	9 45.65	+24 28.5	1.871	2.760	10.6	18.6	149 W	69	40
1 22	9 37.30	+25 30.5	1.799	2.744	7.1	18.4	160 W	71	38
1 27	9 32.27	+26 1.1	1.774	2.736	5.4	18.3	165 W	71	38
2 1	9 26.81	+26 30.2	1.756	2.728	4.2	18.2	168 W	72	37
2 6	9 21.09	+26 56.7	1.745	2.719	4.0	18.1	169 W	72	37
2 11	9 15.26	+27 19.8	1.742	2.710	5.0	18.2	166 E	72	37
2 16	9 9.47	+27 38.8	1.746	2.701	6.6	18.3	162 E	73	36
2 21	9 3.91	+27 53.3	1.757	2.692	8.5	18.4	156 E	73	36
2 26	8 58.73	+28 3.0	1.775	2.682	10.4	18.5	151 E	73	36
3 2	8 54.07	+28 7.9	1.799	2.673	12.2	18.5	145 E	73	36
3 7	8 50.05	+28 8.2	1.828	2.663	14.0	18.6	140 E	73	36
3 12	8 46.74	+28 4.1	1.863	2.653	15.6	18.7	134 E	73	36
3 22	8 42.41	+27 44.4	1.945	2.632	18.4	18.9	124 E	73	36
4 1	8 41.25	+27 11.8	2.041	2.610	20.5	19.0	114 E	72	37
4 11	8 43.10	+26 28.8	2.144	2.587	22.0	19.2	105 E	71	38
4 21	8 47.62	+25 37.4	2.251	2.564	22.9	19.3	96 E	70*	38
5 1	8 54.48	+24 38.7	2.360	2.539	23.4	19.4	88 E	64*	39
5 11	9 3.29	+23 33.1	2.466	2.514	23.4	19.5	81 E	57*	40*
5 21	9 13.73	+22 21.2	2.568	2.488	23.0	19.5	74 E	50*	41*
5 31	9 25.52	+21 2.7	2.665	2.462	22.4	19.6	67 E	42*	41*
6 10	9 38.41	+19 37.9	2.754	2.435	21.4	19.6	61 E	35*	41*
6 20	9 52.21	+18 6.8	2.835	2.407	20.3	19.6	55 E	29*	39*
6 30	10 6.78	+16 29.4	2.907	2.378	19.0	19.6	50 E	23*	37*
7 10	10 21.98	+14 45.8	2.969	2.349	17.6	19.5	44 E	18*	34*
7 20	10 37.74	+12 56.3	3.021	2.319	16.0	19.5	39 E	14*	30*
7 30	10 53.99	+11 1.2	3.063	2.289	14.3	19.4	34 E	11*	26*
8 9	11 10.69	+ 9 0.8	3.094	2.258	12.5	19.4	29 E	8*	22*
8 19	11 27.82	+ 6 55.6	3.114	2.227	10.6	19.3	24 E	6*	17*
8 29	11 45.38	+ 4 46.0	3.125	2.196	8.7	19.2	19 E	4*	13*
9 8	12 3.38	+ 2 32.8	3.125	2.164	6.7	19.1	14 E	2*	8*
9 18	12 21.84	+ 0 16.5	3.115	2.132	4.7	18.9	10 E	—	4*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		31869 2000 EF_{101} *(continuation)*							
	h m	° ′			°	m	°	°	°
9 28	12 40.81	− 2 2.0	3.095	2.100	2.7	18.7	6 E	—	—
10 8	13 0.31	− 4 21.8	3.067	2.068	1.0	18.6	2 E	—	—
10 18	13 20.42	− 6 42.0	3.029	2.036	2.0	18.6	4 W	—	—
10 28	13 41.19	− 9 1.3	2.984	2.005	4.0	18.7	8 W	2*	—
11 7	14 2.67	−11 18.4	2.931	1.974	6.1	18.7	12 W	5*	2*
11 17	14 24.94	−13 32.0	2.871	1.943	8.3	18.7	16 W	8*	5*
11 27	14 48.05	−15 40.3	2.805	1.913	10.5	18.7	21 W	11*	9*
12 7	15 12.04	−17 41.8	2.734	1.884	12.6	18.7	25 W	13*	13*
12 17	15 36.96	−19 34.5	2.659	1.856	14.7	18.7	29 W	14*	18*
12 27	16 2.80	−21 16.5	2.579	1.829	16.8	18.7	33 W	15*	23*
1 6	16 29.55	−22 45.8	2.498	1.803	18.9	18.6	36 W	15*	27*
1 16	16 57.16	−24 0.7	2.414	1.779	20.9	18.6	40 W	15*	32*
		5642 Bobbywilliams							
12 23	9 55.15	+13 12.1	2.088	2.763	17.1	18.8	124 W	58	51
1 2	9 49.19	+12 36.2	2.000	2.788	14.3	18.6	136 W	58	51
1 12	9 40.47	+12 9.1	1.933	2.813	10.8	18.5	148 W	57	52
1 22	9 29.46	+11 49.6	1.891	2.836	6.8	18.3	160 W	57	52
2 1	9 17.03	+11 35.8	1.879	2.858	2.7	18.0	172 W	57	52
2 11	9 4.36	+11 25.4	1.899	2.879	2.8	18.1	172 E	56	53
2 21	8 52.61	+11 16.2	1.950	2.899	6.7	18.4	160 E	56	53
3 2	8 42.78	+11 6.5	2.031	2.918	10.4	18.6	148 E	56	53
3 12	8 35.51	+10 55.0	2.137	2.936	13.5	18.9	136 E	56	53
3 22	8 31.00	+10 40.8	2.262	2.954	16.0	19.1	125 E	56	53
4 1	8 29.24	+10 23.0	2.402	2.970	17.7	19.3	115 E	55	54
4 11	8 29.99	+10 1.2	2.551	2.985	18.8	19.5	106 E	55	54
4 21	8 32.94	+ 9 34.8	2.706	2.999	19.4	19.6	97 E	53*	54
5 1	8 37.77	+ 9 3.4	2.862	3.012	19.5	19.8	89 E	49*	55
5 11	8 44.16	+ 8 26.6	3.016	3.023	19.3	19.9	81 E	42*	55*
5 21	8 51.84	+ 7 44.2	3.166	3.034	18.6	20.0	73 E	35*	54*
5 31	9 0.58	+ 6 56.1	3.309	3.044	17.7	20.0	66 E	28*	52*
6 10	9 10.16	+ 6 2.2	3.443	3.053	16.6	20.1	59 E	21*	49*
6 20	9 20.43	+ 5 2.6	3.568	3.061	15.3	20.1	53 E	14*	45*
6 30	9 31.24	+ 3 57.2	3.680	3.068	13.9	20.2	46 E	8*	40*
7 10	9 42.47	+ 2 46.4	3.780	3.073	12.3	20.2	40 E	3*	34*
7 20	9 54.03	+ 1 30.2	3.866	3.078	10.7	20.2	34 E	—	28*
7 30	10 5.86	+ 0 8.7	3.937	3.082	9.0	20.1	28 E	—	22*
8 9	10 17.86	− 1 17.6	3.992	3.084	7.4	20.1	23 E	—	15*
8 19	10 30.01	− 2 48.6	4.032	3.086	5.8	20.0	18 E	—	9*
8 29	10 42.23	− 4 24.1	4.056	3.086	4.6	20.0	14 E	—	3*
9 8	10 54.49	− 6 3.7	4.064	3.086	3.9	20.0	12 W	—	2*
9 18	11 6.76	− 7 47.1	4.054	3.084	4.3	20.0	13 W	—	6*
9 28	11 18.97	− 9 34.2	4.029	3.082	5.3	20.0	17 W	—	11*
10 8	11 31.10	−11 24.5	3.987	3.078	6.8	20.1	21 W	4*	15*
10 18	11 43.10	−13 17.8	3.929	3.074	8.4	20.1	27 W	9*	20*
10 28	11 54.90	−15 13.9	3.856	3.068	10.1	20.1	33 W	14*	25*
11 7	12 6.44	−17 12.5	3.769	3.061	11.7	20.1	39 W	17*	30*
11 17	12 17.63	−19 13.3	3.668	3.054	13.3	20.1	45 W	20*	36*
11 27	12 28.37	−21 16.0	3.555	3.045	14.8	20.1	52 W	21*	42*
12 7	12 38.54	−23 20.4	3.431	3.035	16.1	20.1	59 W	21*	49*
12 17	12 47.97	−25 26.3	3.298	3.024	17.2	20.0	65 W	20*	57*
12 27	12 56.46	−27 33.1	3.157	3.012	18.1	19.9	73 W	17	65*
1 6	13 3.79	−29 40.4	3.012	2.999	18.8	19.8	80 W	15	74*
1 16	13 9.65	−31 47.4	2.864	2.986	19.2	19.7	87 W	13	81*
		58050 2002 *YA*							
12 23	9 55.59	+13 38.3	1.981	2.662	17.8	18.8	124 W	59	50
1 2	9 48.88	+12 47.3	1.908	2.701	14.7	18.7	136 W	58	51
1 12	9 39.37	+12 4.7	1.856	2.739	11.0	18.5	148 W	57	52
1 22	9 27.65	+11 29.6	1.830	2.776	6.9	18.3	160 W	56	53
2 1	9 14.72	+11 0.7	1.834	2.813	2.8	18.2	172 W	56	53
2 11	9 1.83	+10 36.2	1.871	2.849	3.1	18.2	171 E	56	53
2 21	8 50.14	+10 14.9	1.938	2.885	6.9	18.6	159 E	55	54
3 2	8 40.58	+ 9 55.2	2.035	2.919	10.5	18.8	147 E	55	54
3 12	8 33.69	+ 9 35.8	2.156	2.953	13.5	19.1	136 E	55	54
3 22	8 29.61	+ 9 15.7	2.297	2.986	15.8	19.3	125 E	54	55
4 1	8 28.21	+ 8 53.6	2.452	3.018	17.4	19.6	115 E	54	55
4 11	8 29.25	+ 8 28.8	2.617	3.049	18.4	19.8	106 E	53	56
4 21	8 32.37	+ 8 0.4	2.788	3.080	18.9	19.9	97 E	52*	56
5 1	8 37.25	+ 7 27.7	2.960	3.109	18.9	20.1	89 E	47*	57
5 11	8 43.59	+ 6 50.3	3.131	3.138	18.5	20.2	81 E	41*	57*
5 21	8 51.10	+ 6 8.0	3.298	3.166	17.9	20.3	74 E	34*	56*
5 31	8 59.57	+ 5 20.5	3.459	3.193	16.9	20.4	67 E	26*	54*
6 10	9 8.80	+ 4 27.6	3.611	3.219	15.8	20.5	60 E	19*	50*
6 20	9 18.61	+ 3 29.6	3.753	3.245	14.5	20.5	53 E	13*	46*
6 30	9 28.89	+ 2 26.3	3.884	3.269	13.0	20.6	47 E	7*	40*
7 10	9 39.50	+ 1 18.0	4.002	3.293	11.5	20.6	40 E	1*	34*
7 20	9 50.37	+ 0 4.9	4.106	3.316	9.9	20.6	34 E	—	28*
7 30	10 1.40	− 1 12.9	4.195	3.338	8.3	20.6	29 E	—	21*
8 9	10 12.53	− 2 35.2	4.268	3.359	6.8	20.6	23 E	—	15*
8 19	10 23.70	− 4 1.6	4.324	3.379	5.4	20.6	18 E	—	8*
8 29	10 34.86	− 5 31.9	4.364	3.398	4.4	20.5	15 E	—	1*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		58050 2002 *YA* *(continuation)*							
	h m	° ′			°	m	°	°	°
9 8	10 45.93	− 7 5.8	4.387	3.417	4.0	20.5	14 W	—	4*
9 18	10 56.88	− 8 43.1	4.392	3.435	4.5	20.6	16 W	—	9*
9 28	11 7.64	−10 23.4	4.380	3.451	5.6	20.6	19 W	—	13*
10 8	11 18.16	−12 6.5	4.350	3.467	6.9	20.7	25 W	6*	18*
10 18	11 28.35	−13 52.0	4.304	3.482	8.4	20.8	31 W	11*	23*
10 28	11 38.15	−15 39.6	4.241	3.496	9.8	20.8	37 W	16*	28*
11 7	11 47.44	−17 29.1	4.163	3.510	11.2	20.8	43 W	19*	34*
11 17	11 56.12	−19 19.9	4.071	3.522	12.5	20.8	50 W	22*	41*
11 27	12 4.05	−21 11.7	3.967	3.534	13.6	20.8	57 W	22*	48*
12 7	12 11.07	−23 3.9	3.852	3.545	14.6	20.8	65 W	22*	55*
12 17	12 16.99	−24 55.9	3.728	3.555	15.3	20.8	72 W	20	64*
12 27	12 21.58	−26 46.5	3.598	3.564	15.8	20.7	80 W	18	73*
1 6	12 24.63	−28 34.5	3.465	3.572	16.0	20.6	88 W	16	82*
1 16	12 25.87	−30 18.0	3.333	3.579	15.8	20.5	96 W	15	86
		246162 2007 *QR*							
12 23	9 56.85	+26 14.2	2.049	2.758	16.5	20.4	127 W	71	38
1 2	9 52.44	+26 55.9	1.974	2.784	13.7	20.3	138 W	72	37
1 12	9 45.05	+27 42.5	1.920	2.809	10.4	20.1	149 W	73	36
1 22	9 35.16	+28 27.5	1.890	2.833	7.0	20.0	160 W	73	36
1 27	9 29.53	+28 47.1	1.886	2.845	5.5	19.9	164 W	74	35
2 1	9 23.63	+29 3.7	1.889	2.857	4.6	19.9	167 W	74	35
2 6	9 17.63	+29 16.5	1.900	2.868	4.6	19.9	167 W	74	35
2 11	9 11.70	+29 25.1	1.918	2.879	5.4	20.0	164 E	74	35
2 16	9 5.98	+29 29.3	1.943	2.890	6.8	20.1	160 E	74	35
2 21	9 0.62	+29 29.0	1.976	2.901	8.4	20.2	155 E	74	35
2 26	8 55.75	+29 24.3	2.015	2.912	10.0	20.3	149 E	74	35
3 2	8 51.47	+29 15.6	2.061	2.922	11.5	20.4	144 E	74	35
3 12	8 44.94	+28 47.5	2.169	2.942	14.2	20.6	133 E	74	35
3 22	8 41.26	+28 8.2	2.295	2.961	16.3	20.8	123 E	73	36
4 1	8 40.38	+27 20.7	2.435	2.979	17.9	21.0	114 E	72	37
4 11	8 42.07	+26 27.2	2.584	2.996	18.9	21.2	105 E	71	38
4 21	8 45.96	+25 29.3	2.738	3.013	19.4	21.4	96 E	69*	39
5 1	8 51.72	+24 27.7	2.894	3.028	19.4	21.5	88 E	64*	40
		38066 1999 FO_{19}							
12 23	9 57.33	+12 41.1	2.147	2.812	17.0	20.2	124 W	58	51
1 2	9 54.24	+12 48.5	2.023	2.801	14.5	20.0	134 W	58	51
1 12	9 48.38	+13 9.2	1.919	2.789	11.3	19.7	146 W	58	51
1 22	9 39.93	+13 41.4	1.837	2.776	7.5	19.5	158 W	59	50
2 1	9 29.45	+14 21.7	1.784	2.761	3.1	19.2	171 W	59	50
2 6	9 23.74	+14 43.2	1.768	2.754	0.8	19.0	178 W	60	49
2 11	9 17.89	+15 4.8	1.761	2.746	1.5	19.0	176 E	60	49
2 16	9 12.08	+15 25.7	1.760	2.737	3.9	19.2	169 E	60	49
2 21	9 6.44	+15 45.5	1.768	2.728	6.1	19.3	163 E	61	48
2 26	9 1.13	+16 3.4	1.783	2.719	8.4	19.4	156 E	61	48
3 2	8 56.28	+16 19.2	1.804	2.710	10.4	19.5	150 E	61	48
3 12	8 48.37	+16 43.3	1.866	2.690	14.2	19.7	138 E	62	47
3 22	8 43.26	+16 56.6	1.947	2.669	17.3	19.9	127 E	62	47
4 1	8 41.15	+16 59.3	2.042	2.647	19.7	20.1	117 E	62	47
4 11	8 41.93	+16 51.8	2.147	2.623	21.4	20.2	107 E	62	47
4 21	8 45.35	+16 34.8	2.257	2.599	22.5	20.3	98 E	61*	47
5 1	8 51.10	+16 8.7	2.368	2.572	23.1	20.4	90 E	56*	48
5 11	8 58.84	+15 33.9	2.477	2.545	23.2	20.5	82 E	50*	48*
5 21	9 8.25	+14 50.6	2.582	2.517	22.9	20.6	75 E	43*	48*
5 31	9 19.09	+13 59.0	2.680	2.487	22.2	20.6	68 E	36*	48*
6 10	9 31.11	+12 59.3	2.770	2.456	21.3	20.6	62 E	29*	46*
6 20	9 44.13	+11 51.7	2.850	2.423	20.2	20.6	55 E	23*	43*
6 30	9 58.02	+10 36.2	2.921	2.390	18.9	20.6	50 E	18*	40*
7 10	10 12.63	+ 9 13.1	2.980	2.355	17.4	20.5	44 E	13*	36*
7 20	10 27.90	+ 7 42.8	3.028	2.319	15.8	20.5	38 E	9*	32*
7 30	10 43.77	+ 6 5.6	3.064	2.282	14.1	20.4	33 E	6*	27*
8 9	11 0.19	+ 4 21.7	3.088	2.244	12.3	20.3	28 E	3*	22*
8 19	11 17.16	+ 2 31.8	3.101	2.205	10.3	20.2	23 E	1*	17*
8 29	11 34.69	+ 0 36.2	3.101	2.165	8.4	20.1	18 E	—	12*
9 8	11 52.78	− 1 24.4	3.091	2.124	6.4	20.0	14 E	—	7*
9 18	12 11.48	− 3 29.3	3.069	2.082	4.3	19.8	9 E	—	3*
9 28	12 30.85	− 5 37.7	3.037	2.040	2.3	19.6	5 E	—	—
10 8	12 50.96	− 7 48.6	2.994	1.996	1.1	19.4	2 W	—	—
10 18	13 11.90	−10 1.0	2.943	1.952	2.5	19.5	5 W	—	—
10 28	13 33.75	−12 13.4	2.884	1.908	4.6	19.5	9 W	1*	1*
11 7	13 56.64	−14 24.2	2.817	1.864	6.8	19.5	13 W	4*	4*
11 17	14 20.68	−16 31.6	2.744	1.819	9.0	19.5	17 W	7*	8*
11 27	14 45.99	−18 33.3	2.666	1.775	11.1	19.5	20 W	9*	11*
12 7	15 12.67	−20 26.5	2.585	1.730	13.3	19.4	24 W	11*	14*
12 17	15 40.82	−22 8.3	2.500	1.687	15.5	19.4	27 W	11*	18*
12 27	16 10.48	−23 35.2	2.415	1.645	17.6	19.3	30 W	12*	22*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	38066 1999 FO_{19} *(continuation)*								
	h m	° ′			°	m	°	°	°
1 1	16 25.87	−24 11.9	2.372	1.624	18.7	19.3	32 W	12*	23*
1 6	16 41.63	−24 43.6	2.330	1.603	19.7	19.3	33 W	12*	25*
1 11	16 57.74	−25 9.6	2.288	1.583	20.8	19.2	35 W	12*	27*
1 16	17 14.19	−25 29.6	2.246	1.564	21.8	19.2	36 W	12*	29*
	244115 2001 VG_4								
12 23	9 58.09	−13 56.0	2.604	3.101	17.2	21.3	111 W	31	78
1 2	9 55.07	−15 9.3	2.485	3.098	15.9	21.2	120 W	30	79
1 12	9 49.73	−16 6.0	2.380	3.095	14.3	21.0	129 W	29	80
1 22	9 42.28	−16 41.6	2.293	3.090	12.5	20.9	137 W	28	81
2 1	9 33.15	−16 52.1	2.228	3.084	10.7	20.8	144 W	28	81
2 11	9 23.09	−16 35.6	2.189	3.076	9.5	20.7	149 E	28	81
2 21	9 13.00	−15 53.0	2.176	3.068	9.5	20.6	149 E	29	80
3 2	9 3.83	−14 48.7	2.191	3.058	10.6	20.7	145 E	30	79
3 12	8 56.37	−13 29.3	2.231	3.048	12.5	20.8	139 E	32	77
3 22	8 51.14	−12 2.5	2.293	3.036	14.5	20.9	130 E	33	76
4 1	8 48.39	−10 35.3	2.374	3.023	16.3	21.1	122 E	34	75
4 11	8 48.14	− 9 13.6	2.469	3.009	17.8	21.2	113 E	36	73
4 21	8 50.24	− 8 1.3	2.573	2.993	18.9	21.3	105 E	37*	72
5 1	8 54.46	− 7 0.8	2.684	2.977	19.6	21.4	97 E	35*	71
5 11	9 0.55	− 6 13.5	2.796	2.959	20.0	21.5	89 E	32*	70*
	347910 2002 XP_{52}								
12 23	9 58.20	+ 3 25.1	1.496	2.161	23.3	20.6	120 W	48	61
1 2	9 53.01	+ 1 26.5	1.427	2.192	20.1	20.5	130 W	46	63
1 12	9 44.28	− 0 16.6	1.374	2.223	16.3	20.3	141 W	45	64
1 22	9 32.56	− 1 39.6	1.342	2.254	12.2	20.1	151 W	43	66
2 1	9 18.96	− 2 38.1	1.337	2.285	8.8	20.0	159 W	42	67
2 11	9 5.07	− 3 11.2	1.359	2.314	8.0	20.1	161 E	42	67
2 21	8 52.45	− 3 21.5	1.409	2.344	10.2	20.3	155 E	42	67
2 26	8 47.03	− 3 19.7	1.444	2.358	11.8	20.4	151 E	42	67
3 2	8 42.37	− 3 14.6	1.485	2.372	13.5	20.5	146 E	42	67
3 7	8 38.54	− 3 7.0	1.531	2.386	15.1	20.7	141 E	42	67
3 12	8 35.57	− 2 57.8	1.583	2.400	16.7	20.8	136 E	42	67
3 17	8 33.46	− 2 47.8	1.638	2.414	18.0	20.9	131 E	42	67
3 22	8 32.18	− 2 37.7	1.698	2.428	19.2	21.1	127 E	42	67
3 27	8 31.73	− 2 28.0	1.761	2.441	20.3	21.2	122 E	43	66
4 1	8 32.04	− 2 19.3	1.826	2.454	21.2	21.3	118 E	43	66
4 6	8 33.08	− 2 12.0	1.894	2.467	21.9	21.4	113 E	43	66
	124172 2001 OY_{23}								
12 23	9 58.23	+15 57.3	1.837	2.526	18.8	20.6	124 W	61	48
1 2	9 55.55	+16 45.5	1.758	2.553	15.7	20.4	135 W	62	47
1 12	9 49.88	+17 48.5	1.698	2.580	12.0	20.2	147 W	63	46
1 22	9 41.58	+19 1.3	1.661	2.605	7.7	20.0	159 W	64	45
1 27	9 36.66	+19 39.2	1.653	2.617	5.5	19.9	165 W	65	44
2 1	9 31.40	+20 16.7	1.652	2.630	3.4	19.8	171 W	65	44
2 6	9 25.96	+20 52.8	1.659	2.642	2.1	19.8	174 W	66	43
2 11	9 20.50	+21 26.5	1.673	2.653	2.9	19.8	172 E	66	43
2 16	9 15.18	+21 57.1	1.694	2.665	4.9	20.0	167 E	67	42
2 21	9 10.15	+22 24.0	1.722	2.676	7.0	20.1	161 E	67	42
2 26	9 5.54	+22 46.8	1.758	2.687	9.0	20.3	155 E	68	41
3 2	9 1.48	+23 5.3	1.800	2.698	10.9	20.4	149 E	68	41
3 12	8 55.30	+23 29.7	1.900	2.719	14.2	20.7	138 E	68	41
3 22	8 51.95	+23 38.3	2.020	2.739	16.9	20.9	127 E	69	40
4 1	8 51.46	+23 33.4	2.155	2.758	18.8	21.1	117 E	69	40
4 11	8 53.60	+23 16.9	2.299	2.777	20.1	21.3	108 E	68	41
	4587 Rees								
12 23	9 58.44	−10 33.8	2.400	2.929	18.0	20.5	113 W	34	75
1 2	9 57.46	−11 7.7	2.234	2.881	16.8	20.2	122 W	34	75
1 12	9 54.10	−11 22.3	2.081	2.831	15.0	20.0	132 W	34	75
1 22	9 48.33	−11 12.5	1.945	2.781	12.8	19.7	141 W	34	75
2 1	9 40.37	−10 33.1	1.832	2.729	10.4	19.5	150 W	34	75
2 11	9 30.83	− 9 21.7	1.743	2.676	8.5	19.2	156 E	36	73
2 21	9 20.60	− 7 39.3	1.683	2.622	8.4	19.1	157 E	37	72
2 26	9 15.57	− 6 38.1	1.664	2.595	9.3	19.1	155 E	38	71
3 2	9 10.80	− 5 31.5	1.652	2.568	10.5	19.1	152 E	39	70
3 7	9 6.42	− 4 21.0	1.646	2.540	12.1	19.1	148 E	41	68
3 12	9 2.54	− 3 7.9	1.647	2.512	13.8	19.2	143 E	42	67
3 17	8 59.27	− 1 53.7	1.654	2.483	15.6	19.2	138 E	43	66
3 22	8 56.68	− 0 39.6	1.667	2.455	17.3	19.3	133 E	44	65
3 27	8 54.84	+ 0 33.2	1.684	2.426	19.0	19.3	128 E	46	63
4 1	8 53.77	+ 1 43.6	1.705	2.397	20.6	19.4	123 E	47	62
4 6	8 53.50	+ 2 50.8	1.730	2.367	22.0	19.4	118 E	48	61
4 11	8 54.01	+ 3 54.2	1.758	2.338	23.3	19.5	113 E	49	60
4 21	8 57.32	+ 5 47.9	1.819	2.278	25.4	19.6	104 E	50*	58
5 1	9 3.53	+ 7 22.4	1.885	2.217	26.9	19.6	95 E	49*	57

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	4587 Rees *(continuation)*								
	h m	° ′			°	m	°	°	°
5 11	9 12.35	+ 8 37.4	1.952	2.156	27.9	19.7	87 E	46*	55
5 21	9 23.49	+ 9 33.1	2.015	2.095	28.4	19.7	80 E	41*	54*
5 31	9 36.70	+10 10.4	2.074	2.032	28.6	19.7	73 E	36*	53*
6 10	9 51.74	+10 30.2	2.127	1.970	28.4	19.7	67 E	31*	50*
6 20	10 8.42	+10 33.4	2.171	1.908	27.9	19.6	61 E	26*	48*
6 30	10 26.59	+10 21.1	2.207	1.846	27.2	19.6	56 E	22*	45*
7 10	10 46.14	+ 9 54.1	2.233	1.784	26.4	19.5	51 E	19*	41*
7 20	11 7.00	+ 9 13.4	2.251	1.724	25.5	19.4	47 E	17*	38*
7 30	11 29.13	+ 8 19.9	2.260	1.665	24.5	19.3	43 E	15*	35*
8 9	11 52.53	+ 7 14.6	2.260	1.607	23.5	19.2	39 E	14*	31*
8 19	12 17.21	+ 5 58.5	2.253	1.553	22.5	19.1	36 E	14*	28*
8 29	12 43.22	+ 4 33.0	2.240	1.502	21.6	19.0	33 E	14*	25*
9 8	13 10.60	+ 2 59.6	2.222	1.454	20.9	18.9	31 E	14*	23*
9 18	13 39.44	+ 1 20.1	2.202	1.412	20.3	18.8	29 E	14*	20*
9 28	14 9.76	− 0 23.0	2.180	1.376	19.9	18.7	28 E	15*	18*
10 8	14 41.59	− 2 6.8	2.159	1.346	19.6	18.6	27 E	15*	16*
10 18	15 14.88	− 3 48.0	2.143	1.324	19.4	18.5	26 E	16*	14*
10 28	15 49.54	− 5 22.4	2.132	1.310	19.2	18.5	26 E	16*	13*
11 7	16 25.32	− 6 45.9	2.130	1.305	19.0	18.5	25 E	17*	11*
11 17	17 1.94	− 7 54.6	2.137	1.309	18.6	18.5	25 E	17*	9*
11 27	17 38.98	− 8 44.8	2.156	1.321	17.9	18.5	24 E	17*	7*
12 7	18 15.96	− 9 14.3	2.186	1.342	17.1	18.5	24 E	17*	5*
12 17	18 52.44	− 9 22.4	2.227	1.370	15.9	18.6	22 E	16*	3*
12 27	19 27.98	− 9 9.6	2.279	1.405	14.5	18.6	21 E	15*	1*
1 6	20 2.24	− 8 37.8	2.339	1.446	12.9	18.7	19 E	13*	—
1 16	20 35.03	− 7 49.8	2.406	1.493	11.1	18.8	17 E	11*	—
	175764 1998 US_3								
12 23	9 58.44	+ 6 0.0	1.985	2.628	18.8	21.1	121 W	51	58
1 2	9 55.82	+ 6 8.8	1.908	2.664	16.0	21.0	132 W	51	58
1 12	9 50.56	+ 6 35.5	1.848	2.699	12.7	20.8	143 W	52	57
1 22	9 43.04	+ 7 18.7	1.810	2.734	8.8	20.7	155 W	52	57
2 1	9 33.93	+ 8 15.3	1.799	2.767	4.6	20.5	167 W	53	56
2 6	9 29.08	+ 8 46.9	1.804	2.784	2.8	20.4	172 W	54	55
2 11	9 24.21	+ 9 19.6	1.817	2.800	2.0	20.4	174 E	54	55
2 16	9 19.46	+ 9 52.7	1.837	2.816	3.2	20.5	171 E	55	54
2 21	9 14.94	+10 25.5	1.865	2.832	5.0	20.6	165 E	55	54
2 26	9 10.78	+10 57.1	1.899	2.848	7.0	20.8	160 E	56	53
3 2	9 7.08	+11 27.0	1.941	2.864	8.8	20.9	154 E	56	53
3 7	9 3.91	+11 54.8	1.989	2.879	10.5	21.1	148 E	57	52
3 12	9 1.32	+12 20.0	2.043	2.895	12.1	21.2	142 E	57	52
3 17	8 59.34	+12 42.5	2.103	2.910	13.5	21.3	137 E	58	51
3 22	8 57.98	+13 2.0	2.167	2.924	14.8	21.4	132 E	58	51
	200073 2190 *T–2*								
12 23	9 59.22	+ 3 32.1	1.933	2.565	19.5	21.3	120 W	49	60
1 2	9 56.86	+ 3 26.1	1.846	2.591	16.9	21.1	130 W	48	61
1 12	9 51.75	+ 3 39.3	1.775	2.615	13.6	20.9	141 W	49	60
1 22	9 44.23	+ 4 11.8	1.725	2.639	9.8	20.7	153 W	49	60
2 1	9 34.92	+ 5 1.5	1.700	2.662	5.8	20.5	164 W	50	59
2 11	9 24.84	+ 6 3.8	1.704	2.684	3.2	20.4	171 E	51	58
2 16	9 19.86	+ 6 37.6	1.717	2.694	3.8	20.5	169 E	52	57
2 21	9 15.10	+ 7 12.2	1.738	2.705	5.4	20.6	165 E	52	57
2 26	9 10.70	+ 7 46.7	1.766	2.715	7.3	20.7	160 E	53	56
3 2	9 6.76	+ 8 20.2	1.800	2.725	9.2	20.9	154 E	53	56
3 7	9 3.37	+ 8 52.2	1.841	2.735	11.0	21.0	148 E	54	55
3 12	9 0.60	+ 9 22.1	1.888	2.745	12.7	21.1	143 E	54	55
3 17	8 58.47	+ 9 49.5	1.940	2.754	14.2	21.2	137 E	55	54
3 22	8 57.00	+10 14.1	1.997	2.763	15.6	21.4	132 E	55	54
3 27	8 56.21	+10 35.7	2.058	2.772	16.8	21.5	127 E	56	53
	373456 2000 EE_{62}								
12 23	9 59.37	+48 43.0	2.264	2.967	15.3	21.4	127 W	86	15
12 28	9 57.03	+49 23.0	2.209	2.951	14.5	21.3	131 W	86	15
1 2	9 53.61	+50 2.7	2.158	2.935	13.7	21.2	135 W	85	14
1 7	9 49.10	+50 41.0	2.112	2.919	13.0	21.1	138 W	84	13
1 12	9 43.50	+51 16.3	2.072	2.902	12.3	21.0	141 W	84	13
1 17	9 36.89	+51 47.0	2.038	2.885	11.8	21.0	143 W	83	12
1 22	9 29.36	+52 11.6	2.010	2.868	11.5	20.9	144 W	83	12
1 27	9 21.09	+52 28.6	1.988	2.851	11.4	20.9	145 W	83	12
2 1	9 12.31	+52 36.6	1.972	2.834	11.6	20.8	145 W	82	11
2 6	9 3.31	+52 34.9	1.963	2.816	12.1	20.8	143 E	82	11
2 11	8 54.38	+52 23.0	1.961	2.798	12.8	20.9	141 E	83	12
2 16	8 45.79	+52 1.1	1.964	2.780	13.7	20.9	138 E	83	12
2 21	8 37.81	+51 29.6	1.973	2.762	14.7	20.9	135 E	84	13
2 26	8 30.66	+50 49.3	1.988	2.743	15.7	20.9	131 E	84	13
3 2	8 24.50	+50 1.4	2.007	2.725	16.8	21.0	127 E	85	14
3 7	8 19.42	+49 7.1	2.032	2.706	17.9	21.0	123 E	86	15
3 12	8 15.46	+48 7.7	2.060	2.687	18.9	21.1	119 E	87	16
3 17	8 12.61	+47 4.4	2.092	2.667	19.8	21.1	115 E	88	17

373456 2000 EE_{62} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 22	8 10.84	+45 58.1	2.127	2.648	20.6	21.2	111 E	89	18
3 27	8 10.10	+44 49.6	2.164	2.628	21.3	21.2	107 E	90	19
4 1	8 10.32	+43 39.7	2.203	2.609	22.0	21.3	102 E	89	20
4 6	8 11.42	+42 29.0	2.244	2.589	22.5	21.3	99 E	87	22
4 11	8 13.32	+41 17.7	2.286	2.569	22.9	21.3	95 E	85*	23
4 16	8 15.94	+40 6.2	2.329	2.548	23.2	21.4	91 E	81*	24
4 21	8 19.20	+38 54.5	2.372	2.528	23.4	21.4	87 E	77*	25
4 26	8 23.05	+37 42.8	2.414	2.507	23.5	21.4	83 E	73*	26
5 1	8 27.42	+36 31.1	2.457	2.487	23.5	21.4	80 E	68*	27*
5 6	8 32.25	+35 19.3	2.499	2.466	23.4	21.5	76 E	64*	29*
5 11	8 37.49	+34 7.5	2.540	2.445	23.3	21.5	73 E	60*	30*
5 16	8 43.09	+32 55.4	2.579	2.424	23.1	21.5	70 E	55*	30*
5 21	8 49.02	+31 43.0	2.618	2.402	22.7	21.5	67 E	51*	31*
5 26	8 55.24	+30 30.3	2.655	2.381	22.4	21.5	63 E	47*	32*
5 31	9 1.72	+29 17.0	2.690	2.360	21.9	21.5	60 E	43*	32*
6 5	9 8.42	+28 3.1	2.723	2.338	21.4	21.5	57 E	39*	32*
6 10	9 15.33	+26 48.6	2.754	2.316	20.9	21.5	54 E	36*	32*
6 15	9 22.42	+25 33.1	2.783	2.295	20.3	21.4	52 E	32*	32*
6 20	9 29.67	+24 16.8	2.810	2.273	19.6	21.4	49 E	29*	31*
6 25	9 37.08	+22 59.4	2.835	2.251	19.0	21.4	46 E	26*	31*
6 30	9 44.62	+21 40.9	2.857	2.229	18.2	21.4	43 E	23*	30*
7 5	9 52.28	+20 21.3	2.877	2.207	17.5	21.3	41 E	20*	28*
7 10	10 0.06	+19 0.4	2.895	2.185	16.6	21.3	38 E	17*	27*
7 15	10 7.95	+17 38.2	2.910	2.164	15.8	21.3	35 E	15*	26*
7 20	10 15.94	+16 14.7	2.922	2.142	14.9	21.2	33 E	13*	24*
7 25	10 24.03	+14 49.7	2.932	2.120	14.0	21.2	30 E	11*	22*
7 30	10 32.22	+13 23.3	2.940	2.098	13.1	21.1	28 E	9*	20*
8 4	10 40.51	+11 55.4	2.945	2.076	12.2	21.1	26 E	7*	18*
8 9	10 48.89	+10 26.0	2.948	2.055	11.2	21.0	23 E	5*	16*
8 14	10 57.37	+ 8 55.0	2.948	2.033	10.2	20.9	21 E	4*	14*
8 19	11 5.96	+ 7 22.5	2.946	2.012	9.2	20.9	19 E	2*	12*
8 24	11 14.66	+ 5 48.3	2.941	1.991	8.2	20.8	16 E	1*	10*
8 29	11 23.48	+ 4 12.6	2.934	1.970	7.2	20.7	14 E	—	8*
9 3	11 32.41	+ 2 35.3	2.925	1.949	6.2	20.7	12 E	—	6*
9 8	11 41.48	+ 0 56.5	2.914	1.929	5.2	20.6	10 E	—	4*
9 13	11 50.69	− 0 43.9	2.900	1.909	4.2	20.5	8 E	—	2*
9 18	12 0.06	− 2 25.8	2.885	1.889	3.3	20.4	6 E	—	—
9 28	12 19.32	− 5 54.1	2.848	1.850	2.1	20.3	4 E	—	—
10 8	12 39.38	− 9 27.6	2.805	1.813	2.9	20.2	5 W	—	—
10 18	13 0.41	−13 5.6	2.757	1.777	4.7	20.3	8 W	—	2*
10 28	13 22.60	−16 46.7	2.704	1.744	6.8	20.3	12 W	—	6*
11 7	13 46.17	−20 29.1	2.648	1.714	8.9	20.3	16 W	1*	9*
11 17	14 11.39	−24 10.2	2.591	1.686	11.0	20.3	19 W	2*	13*
11 27	14 38.52	−27 46.6	2.533	1.662	13.0	20.3	22 W	2*	16*
12 2	14 52.90	−29 31.6	2.504	1.651	13.9	20.3	24 W	2*	18*
12 7	15 7.86	−31 13.7	2.476	1.640	14.9	20.3	25 W	2*	19*
12 12	15 23.45	−32 52.0	2.448	1.631	15.8	20.3	27 W	2*	21*
12 17	15 39.67	−34 25.9	2.421	1.623	16.7	20.3	28 W	1*	22*
12 22	15 56.54	−35 54.5	2.395	1.616	17.5	20.3	30 W	—	24*
12 27	16 14.06	−37 16.9	2.370	1.610	18.4	20.3	31 W	—	25*
1 1	16 32.21	−38 32.2	2.347	1.604	19.1	20.3	32 W	—	26*
1 6	16 50.98	−39 39.5	2.324	1.600	19.9	20.2	34 W	—	27*
1 11	17 10.29	−40 38.0	2.302	1.597	20.6	20.2	35 W	—	28*
1 16	17 30.08	−41 27.1	2.282	1.595	21.3	20.2	36 W	—	29*

36282 2000 CT_{98}

12 23	10 0.03	+13 29.3	2.149	2.810	17.0	20.1	123 W	58	51
1 2	9 56.98	+13 30.8	2.039	2.813	14.5	19.9	134 W	59	50
1 12	9 51.21	+13 44.2	1.947	2.815	11.4	19.7	146 W	59	50
1 22	9 42.97	+14 7.6	1.879	2.815	7.6	19.5	158 W	59	50
2 1	9 32.86	+14 37.4	1.839	2.815	3.3	19.2	170 W	60	49
2 6	9 27.39	+14 53.4	1.830	2.815	1.1	19.0	177 W	60	49
2 11	9 21.83	+15 9.1	1.828	2.814	1.2	19.0	177 E	60	49
2 16	9 16.32	+15 24.2	1.834	2.813	3.4	19.2	170 E	60	49
2 21	9 11.01	+15 38.0	1.848	2.812	5.6	19.3	164 E	61	48
2 26	9 6.03	+15 50.1	1.869	2.810	7.7	19.5	158 E	61	48
3 2	9 1.50	+16 0.3	1.897	2.809	9.7	19.6	152 E	61	48
3 12	8 54.18	+16 13.9	1.971	2.804	13.2	19.8	140 E	61	48
3 22	8 49.49	+16 18.1	2.066	2.799	16.1	20.0	129 E	61	48
4 1	8 47.61	+16 13.0	2.176	2.793	18.3	20.2	118 E	61	48
4 11	8 48.41	+15 59.0	2.296	2.786	19.9	20.3	109 E	61	48
4 21	8 51.63	+15 36.7	2.423	2.778	20.9	20.5	100 E	60*	48
5 1	8 56.99	+15 6.6	2.552	2.770	21.3	20.6	92 E	56*	49
5 11	9 4.15	+14 28.8	2.681	2.760	21.3	20.7	84 E	50*	50*
5 21	9 12.82	+13 43.9	2.806	2.749	21.0	20.8	76 E	43*	50*
5 31	9 22.75	+12 51.8	2.926	2.737	20.3	20.8	69 E	36*	49*
6 10	9 33.72	+11 52.9	3.038	2.724	19.3	20.9	63 E	29*	47*
6 20	9 45.54	+10 47.4	3.142	2.711	18.1	20.9	56 E	23*	45*
6 30	9 58.06	+ 9 35.5	3.236	2.696	16.8	20.9	50 E	17*	41*

36282 2000 CT_{98} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 10	10 11.17	+ 8 17.7	3.319	2.681	15.2	20.9	44 E	12*	36*
7 20	10 24.76	+ 6 54.1	3.390	2.664	13.6	20.9	38 E	8*	31*
7 30	10 38.78	+ 5 25.2	3.449	2.647	11.8	20.8	32 E	4*	26*
8 9	10 53.15	+ 3 51.5	3.495	2.629	10.0	20.8	27 E	2*	21*
8 19	11 7.85	+ 2 13.3	3.528	2.609	8.0	20.7	21 E	—	15*
8 29	11 22.84	+ 0 31.0	3.547	2.589	6.1	20.6	16 E	—	10*
9 8	11 38.11	− 1 14.6	3.553	2.569	4.1	20.5	10 E	—	4*
9 18	11 53.65	− 3 3.2	3.545	2.547	2.2	20.3	6 E	—	—
9 28	12 9.46	− 4 54.2	3.523	2.524	1.5	20.2	4 W	—	—
10 8	12 25.54	− 6 46.9	3.489	2.501	2.9	20.3	7 W	—	1*
10 18	12 41.91	− 8 40.6	3.441	2.477	4.9	20.4	12 W	3*	5*
10 28	12 58.56	−10 34.8	3.380	2.452	7.0	20.4	18 W	8*	8*
11 7	13 15.50	−12 28.6	3.307	2.426	9.2	20.4	23 W	12*	13*
11 17	13 32.75	−14 21.4	3.223	2.400	11.3	20.4	28 W	15*	17*
11 27	13 50.30	−16 12.3	3.128	2.373	13.4	20.4	34 W	18*	22*
12 7	14 8.15	−18 0.6	3.023	2.345	15.4	20.4	39 W	20*	28*
12 17	14 26.29	−19 45.5	2.909	2.317	17.4	20.4	45 W	21*	33*
12 27	14 44.69	−21 26.3	2.787	2.288	19.3	20.3	50 W	21*	40*
1 6	15 3.31	−23 2.3	2.658	2.258	21.1	20.2	56 W	21*	46*
1 16	15 22.09	−24 32.9	2.524	2.229	22.8	20.1	61 W	20*	53*

209035 2003 NJ_1

12 23	10 0.77	+23 20.3	2.201	2.888	16.0	21.2	126 W	68	41
1 2	9 57.50	+24 21.0	2.120	2.913	13.4	21.0	137 W	69	40
1 12	9 51.50	+25 30.1	2.059	2.937	10.3	20.9	148 W	71	38
1 22	9 43.09	+26 41.5	2.023	2.960	7.0	20.7	158 W	72	37
2 1	9 32.96	+27 48.0	2.015	2.982	4.5	20.6	166 W	73	36
2 11	9 22.13	+28 42.3	2.038	3.003	4.8	20.6	165 E	74	35
2 21	9 11.74	+29 19.8	2.090	3.023	7.5	20.8	157 E	74	35
3 2	9 2.82	+29 38.7	2.170	3.042	10.5	21.1	146 E	75	34
3 12	8 56.14	+29 40.1	2.273	3.060	13.2	21.3	135 E	75	34
3 22	8 52.05	+29 26.6	2.396	3.077	15.4	21.5	125 E	74	35

65690 1991 *DG*

12 23	10 0.85	− 6 43.4	0.868	1.559	35.0	21.1	114 W	38	71
1 2	10 10.04	− 9 0.0	0.749	1.511	33.9	20.7	121 W	36	73
1 12	10 16.95	−11 8.4	0.637	1.461	32.2	20.2	128 W	34	75
1 22	10 21.05	−13 0.6	0.533	1.410	29.9	19.7	135 W	32	77
1 27	10 21.82	−13 46.5	0.484	1.383	28.4	19.4	138 W	31	78
2 1	10 21.63	−14 22.7	0.437	1.356	26.8	19.1	142 W	31	78
2 6	10 20.42	−14 46.2	0.393	1.328	25.0	18.7	145 W	30	79
2 11	10 18.11	−14 53.6	0.352	1.301	23.1	18.4	149 W	30	79
2 16	10 14.62	−14 40.2	0.313	1.273	21.2	18.0	152 W	30	79
2 21	10 9.87	−13 59.7	0.276	1.245	19.6	17.7	155 E	31	78
2 26	10 3.83	−12 44.1	0.242	1.217	18.6	17.3	157 E	32	77
3 2	9 56.54	−10 43.4	0.211	1.189	18.7	17.0	157 E	34	75
3 4	9 53.28	− 9 39.7	0.199	1.178	19.3	16.8	157 E	35	74
3 6	9 49.81	− 8 25.7	0.188	1.167	20.1	16.7	156 E	37	72
3 8	9 46.14	− 7 0.2	0.177	1.156	21.3	16.6	155 E	38	71
3 10	9 42.25	− 5 21.8	0.167	1.145	22.9	16.5	153 E	40	69
3 12	9 38.13	− 3 29.1	0.157	1.134	24.8	16.4	151 E	42	67
3 14	9 33.75	− 1 20.3	0.147	1.123	27.1	16.3	149 E	44	65
3 16	9 29.08	+ 1 6.7	0.138	1.112	29.7	16.2	146 E	46	63
3 18	9 24.09	+ 3 54.0	0.129	1.102	32.8	16.1	143 E	49	60
3 20	9 18.73	+ 7 3.7	0.121	1.091	36.3	16.1	140 E	52	57
3 22	9 12.92	+10 38.3	0.114	1.081	40.2	16.0	136 E	56	53
3 24	9 6.56	+14 39.6	0.107	1.071	44.5	16.0	131 E	60	49
3 26	8 59.52	+19 9.1	0.101	1.061	49.3	16.0	126 E	64	45
3 28	8 51.60	+24 7.4	0.096	1.051	54.5	16.0	121 E	69	40
3 30	8 42.50	+29 33.3	0.092	1.041	60.2	16.1	115 E	75	34
4 1	8 31.82	+35 23.1	0.088	1.032	66.2	16.1	109 E	80	29
4 2	8 25.70	+38 25.1	0.087	1.027	69.3	16.2	106 E	83	26
4 3	8 18.94	+41 30.4	0.086	1.022	72.4	16.3	103 E	87	22
4 4	8 11.40	+44 37.6	0.085	1.018	75.6	16.3	100 E	90	19
4 5	8 2.95	+47 45.3	0.085	1.013	78.8	16.4	96 E	87	16
4 6	7 53.38	+50 51.6	0.085	1.009	81.9	16.5	93 E	84*	13
4 7	7 42.48	+53 54.7	0.085	1.005	85.1	16.6	90 E	80*	10
4 8	7 29.97	+56 52.4	0.085	1.000	88.1	16.8	87 E	76*	7
4 9	7 15.53	+59 42.5	0.086	0.996	91.1	16.9	84 E	73*	4*
4 10	6 58.78	+62 22.6	0.087	0.992	94.0	17.0	81 E	69*	1*
4 11	6 39.33	+64 50.1	0.088	0.988	96.7	17.2	78 E	65*	—
4 12	6 16.82	+67 2.2	0.089	0.984	99.3	17.3	76 E	62*	—
4 13	5 51.00	+68 55.9	0.091	0.980	101.7	17.5	73 E	58*	—
4 14	5 21.87	+70 28.7	0.093	0.976	104.0	17.6	71 E	55*	—
4 15	4 49.91	+71 38.1	0.095	0.973	106.1	17.8	69 E	52*	—
4 16	4 16.09	+72 22.9	0.098	0.969	108.1	17.9	67 E	49*	—
4 17	3 41.83	+72 43.1	0.100	0.965	109.8	18.1	65 E	46*	—
4 18	3 8.67	+72 40.7	0.103	0.962	111.4	18.2	63 E	43*	—
4 19	2 37.91	+72 18.8	0.106	0.959	112.8	18.4	62 E	40*	—
4 20	2 10.31	+71 41.1	0.109	0.955	114.1	18.5	60 E	38*	—

65690 1991 *DG* *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	1 46.17	+70 51.7	0.112	0.952	115.2	18.6	59 W	36*	—
4 22	1 25.36	+69 53.8	0.115	0.949	116.1	18.8	58 W	38*	—
4 23	1 7.60	+68 50.3	0.119	0.946	116.9	18.9	57 W	39*	—
4 24	0 52.48	+67 43.3	0.122	0.943	117.6	19.0	56 W	40*	—
4 25	0 39.63	+66 34.6	0.126	0.941	118.1	19.1	56 W	40*	—
4 26	0 28.68	+65 25.3	0.130	0.938	118.6	19.2	55 W	41*	—
4 27	0 19.35	+64 16.3	0.134	0.935	118.9	19.2	54 W	42*	—
4 28	0 11.36	+63 8.1	0.137	0.933	119.1	19.3	54 W	43*	—
4 29	0 4.52	+62 1.3	0.141	0.931	119.2	19.4	54 W	44*	—
4 30	23 58.64	+60 55.9	0.146	0.928	119.2	19.4	54 W	44*	—
5 1	23 53.60	+59 52.3	0.150	0.926	119.1	19.5	53 W	45*	—
5 2	23 49.26	+58 50.6	0.154	0.924	119.0	19.5	53 W	45*	—
5 3	23 45.54	+57 50.8	0.158	0.922	118.8	19.6	53 W	46*	—
5 4	23 42.35	+56 52.9	0.162	0.921	118.5	19.6	53 W	46*	—
5 5	23 39.64	+55 57.0	0.167	0.919	118.2	19.6	53 W	47*	1*
5 6	23 37.33	+55 3.0	0.171	0.917	117.8	19.7	54 W	47*	2*
5 7	23 35.40	+54 10.8	0.176	0.916	117.4	19.7	54 W	47*	3*
5 8	23 33.79	+53 20.6	0.180	0.915	117.0	19.7	54 W	48*	5*
5 9	23 32.47	+52 32.1	0.185	0.914	116.5	19.7	54 W	48*	6*
5 10	23 31.42	+51 45.4	0.189	0.913	115.9	19.7	54 W	48*	7*
5 11	23 30.59	+51 0.4	0.194	0.912	115.4	19.7	55 W	49*	8*
5 13	23 29.57	+49 35.3	0.203	0.910	114.2	19.8	55 W	49*	10*
5 15	23 29.25	+48 16.3	0.212	0.910	112.9	19.8	56 W	50*	12*
5 17	23 29.51	+47 3.1	0.221	0.909	111.5	19.8	57 W	50*	13*
5 19	23 30.25	+45 55.0	0.230	0.909	110.1	19.8	58 W	50*	15*
5 21	23 31.40	+44 51.8	0.239	0.910	108.6	19.8	58 W	51*	16*
5 23	23 32.90	+43 52.9	0.248	0.911	107.1	19.8	59 W	51*	18*
5 25	23 34.69	+42 58.1	0.257	0.913	105.6	19.8	60 W	52*	19*
5 27	23 36.73	+42 6.9	0.266	0.915	104.0	19.8	61 W	52*	20*
5 29	23 38.99	+41 19.0	0.275	0.918	102.5	19.8	62 W	52*	21*
5 31	23 41.43	+40 34.2	0.283	0.921	100.9	19.8	63 W	53*	22*
6 5	23 48.17	+38 53.9	0.304	0.931	97.1	19.7	66 W	54*	25*
6 10	23 55.55	+37 27.8	0.323	0.944	93.3	19.7	68 W	55*	26*
6 15	0 3.24	+36 13.0	0.340	0.960	89.6	19.7	71 W	56*	28*
6 20	0 10.98	+35 6.6	0.355	0.978	85.9	19.7	74 W	58*	29
6 25	0 18.52	+34 5.8	0.368	0.998	82.4	19.7	77 W	60*	30
6 30	0 25.68	+33 8.2	0.378	1.020	78.9	19.7	80 W	62*	31
7 5	0 32.32	+32 11.6	0.387	1.043	75.4	19.7	83 W	64*	32
7 10	0 38.28	+31 14.3	0.393	1.067	71.9	19.6	87 W	66*	33
7 15	0 43.39	+30 14.4	0.397	1.093	68.4	19.6	90 W	68*	34
7 20	0 47.47	+29 9.6	0.399	1.119	64.8	19.5	94 W	70*	35
7 25	0 50.38	+27 57.7	0.399	1.147	61.1	19.5	99 W	72*	36
7 30	0 52.00	+26 36.5	0.398	1.174	57.2	19.4	104 W	71*	37
8 4	0 52.23	+25 4.3	0.396	1.202	53.0	19.3	109 W	70	39
8 9	0 50.99	+23 19.1	0.393	1.230	48.6	19.2	115 W	68	41
8 14	0 48.23	+21 19.4	0.391	1.258	43.8	19.1	121 W	66	43
8 19	0 43.95	+19 4.0	0.389	1.286	38.7	19.0	127 W	64	45
8 24	0 38.27	+16 32.9	0.390	1.314	33.3	18.9	135 W	62	47
8 29	0 31.42	+13 48.3	0.393	1.341	27.5	18.8	142 W	59	50
9 3	0 23.70	+10 53.8	0.399	1.369	21.6	18.7	150 W	56	53
9 8	0 15.47	+ 7 54.9	0.409	1.396	15.6	18.6	158 W	53	56
9 13	0 7.10	+ 4 57.7	0.424	1.422	9.7	18.5	166 W	50	59
9 18	23 59.01	+ 2 8.6	0.445	1.448	4.0	18.4	174 W	47	62
9 23	23 51.57	− 0 26.6	0.470	1.474	1.6	18.4	178 E	45	64
9 28	23 45.07	− 2 43.9	0.501	1.499	6.4	18.9	170 E	42	67
10 3	23 39.69	− 4 41.3	0.537	1.523	10.8	19.2	163 E	40	69
10 8	23 35.50	− 6 18.4	0.578	1.547	14.8	19.6	157 E	39	70
10 13	23 32.54	− 7 36.1	0.622	1.570	18.2	19.9	151 E	37	72
10 18	23 30.78	− 8 35.8	0.671	1.592	21.1	20.2	145 E	36	73
10 23	23 30.16	− 9 19.3	0.723	1.614	23.7	20.5	139 E	36	73
10 28	23 30.60	− 9 48.5	0.779	1.636	25.8	20.7	134 E	35	74
11 2	23 31.99	−10 5.4	0.837	1.656	27.5	20.9	130 E	35	74
11 7	23 34.22	−10 11.7	0.898	1.676	29.0	21.2	125 E	35	74
11 12	23 37.20	−10 8.8	0.961	1.695	30.1	21.4	121 E	35	74

32581 2001 QW_{98}

12 23	10 1.03	+ 5 20.9	2.180	2.803	17.7	20.1	120 W	50	59
1 2	9 59.29	+ 5 20.8	2.056	2.795	15.5	19.8	130 W	50	59
1 12	9 54.98	+ 5 37.7	1.948	2.786	12.7	19.6	142 W	51	58
1 22	9 48.25	+ 6 12.0	1.862	2.776	9.2	19.4	153 W	51	58
2 1	9 39.52	+ 7 2.4	1.802	2.765	5.3	19.1	165 W	52	57
2 11	9 29.62	+ 8 4.8	1.771	2.754	2.3	18.9	174 E	53	56
2 16	9 24.55	+ 8 38.9	1.767	2.747	3.0	18.9	172 E	54	55
2 21	9 19.57	+ 9 13.7	1.770	2.741	4.9	19.0	166 E	54	55
2 26	9 14.83	+ 9 48.5	1.780	2.734	6.9	19.1	161 E	55	54
3 2	9 10.46	+10 22.5	1.798	2.727	8.9	19.3	155 E	55	54
3 7	9 6.58	+10 54.9	1.822	2.720	10.9	19.4	149 E	56	53
3 12	9 3.25	+11 25.4	1.852	2.712	12.7	19.5	143 E	56	53

32581 2001 QW_{98} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 22	8 58.52	+12 18.4	1.928	2.697	16.0	19.6	132 E	57	52
4 1	8 56.56	+12 59.4	2.021	2.680	18.6	19.8	121 E	58	51
4 11	8 57.35	+13 27.4	2.125	2.662	20.5	20.0	112 E	58	51
4 21	9 0.70	+13 42.5	2.237	2.644	21.8	20.1	103 E	58*	50
5 1	9 6.34	+13 45.2	2.352	2.625	22.5	20.2	94 E	56*	50
5 11	9 13.96	+13 36.0	2.467	2.604	22.8	20.3	86 E	51*	50
5 21	9 23.25	+13 15.8	2.580	2.583	22.6	20.4	79 E	44*	51*
5 31	9 33.97	+12 45.0	2.687	2.561	22.1	20.5	72 E	38*	50*
6 10	9 45.87	+12 4.5	2.789	2.538	21.3	20.5	65 E	31*	48*
6 20	9 58.76	+11 14.7	2.882	2.515	20.3	20.5	59 E	25*	46*
6 30	10 12.50	+10 16.4	2.966	2.490	19.0	20.5	53 E	20*	43*
7 10	10 26.94	+ 9 10.2	3.040	2.465	17.6	20.5	47 E	15*	39*
7 20	10 41.99	+ 7 56.7	3.104	2.439	16.0	20.5	42 E	12*	34*
7 30	10 57.60	+ 6 36.5	3.157	2.412	14.3	20.4	36 E	9*	29*
8 9	11 13.69	+ 5 10.5	3.199	2.384	12.6	20.4	31 E	6*	24*
8 19	11 30.25	+ 3 39.2	3.228	2.356	10.7	20.3	26 E	4*	19*
8 29	11 47.26	+ 2 3.5	3.247	2.327	8.7	20.2	20 E	2*	14*
9 8	12 4.71	+ 0 24.2	3.253	2.298	6.7	20.1	15 E	—	9*
9 18	12 22.61	− 1 17.8	3.248	2.268	4.6	19.9	10 E	—	4*
9 28	12 40.99	− 3 1.5	3.232	2.237	2.6	19.8	6 E	—	—
10 8	12 59.86	− 4 45.9	3.205	2.206	0.8	19.6	2 E	—	—
10 18	13 19.26	− 6 30.0	3.167	2.175	2.0	19.6	4 W	—	—
10 28	13 39.23	− 8 12.3	3.119	2.143	4.1	19.7	9 W	3*	—
11 7	13 59.78	− 9 51.7	3.062	2.112	6.3	19.7	14 W	7*	2*
11 17	14 20.97	−11 26.8	2.996	2.080	8.5	19.8	18 W	11*	5*
11 27	14 42.81	−12 55.9	2.922	2.048	10.7	19.8	23 W	14*	9*
12 7	15 5.31	−14 17.6	2.840	2.016	12.9	19.7	27 W	17*	13*
12 17	15 28.48	−15 30.2	2.753	1.984	15.1	19.7	32 W	19*	18*
12 27	15 52.29	−16 32.0	2.660	1.953	17.2	19.7	36 W	20*	23*
1 6	16 16.71	−17 21.4	2.563	1.922	19.3	19.6	40 W	21*	28*
1 16	16 41.68	−17 57.1	2.462	1.892	21.4	19.6	45 W	22*	34*

6523 Clube

12 23	10 1.05	+40 13.8	2.876	3.563	12.6	20.9	128 W	85	24
1 2	9 55.95	+41 12.5	2.764	3.544	11.0	20.7	137 W	86	23
1 12	9 47.96	+42 9.6	2.674	3.524	9.2	20.6	145 W	87	22
1 22	9 37.40	+42 57.8	2.610	3.504	7.8	20.5	151 W	88	21
1 27	9 31.34	+43 16.2	2.589	3.493	7.4	20.4	153 W	88	21
2 1	9 24.93	+43 29.5	2.574	3.482	7.3	20.4	153 W	88	21
2 6	9 18.33	+43 37.3	2.567	3.471	7.6	20.4	152 W	89	20
2 11	9 11.68	+43 39.0	2.568	3.459	8.1	20.4	150 E	89	20
2 16	9 5.14	+43 34.5	2.575	3.448	8.9	20.4	147 E	89	20
2 21	8 58.87	+43 23.9	2.589	3.436	9.8	20.5	144 E	88	21
2 26	8 53.01	+43 7.3	2.610	3.424	10.8	20.5	140 E	88	21
3 2	8 47.68	+42 45.2	2.637	3.412	11.8	20.6	135 E	88	21
3 7	8 42.98	+42 18.2	2.669	3.399	12.8	20.6	131 E	87	22
3 12	8 38.96	+41 46.9	2.706	3.386	13.7	20.7	126 E	87	22
3 17	8 35.68	+41 12.1	2.748	3.373	14.6	20.8	121 E	86	23
3 22	8 33.13	+40 34.2	2.793	3.360	15.4	20.8	117 E	86	23
3 27	8 31.32	+39 54.0	2.842	3.347	16.0	20.9	112 E	85	24
4 1	8 30.25	+39 11.8	2.893	3.333	16.6	20.9	108 E	84	25
4 6	8 29.87	+38 28.2	2.946	3.319	17.1	21.0	103 E	83	26
4 11	8 30.14	+37 43.6	3.001	3.305	17.4	21.0	99 E	83	26
4 16	8 31.03	+36 58.1	3.057	3.291	17.7	21.0	94 E	81*	27
4 21	8 32.50	+36 12.0	3.113	3.276	17.9	21.1	90 E	77*	28
4 26	8 34.49	+35 25.5	3.170	3.261	17.9	21.1	86 E	73*	29
5 1	8 36.98	+34 38.7	3.226	3.246	17.9	21.1	82 E	69*	29
5 6	8 39.90	+33 51.5	3.281	3.231	17.8	21.2	78 E	64*	30*
5 11	8 43.23	+33 4.2	3.336	3.216	17.6	21.2	74 E	60*	31*
5 16	8 46.93	+32 16.6	3.388	3.200	17.4	21.2	71 E	56*	31*
5 21	8 50.96	+31 28.7	3.439	3.184	17.0	21.2	67 E	51*	31*
5 26	8 55.30	+30 40.6	3.489	3.168	16.6	21.2	63 E	47*	31*
5 31	8 59.90	+29 52.2	3.535	3.151	16.2	21.2	60 E	43*	31*
6 5	9 4.75	+29 3.4	3.580	3.135	15.6	21.2	56 E	39*	31*
6 10	9 9.82	+28 14.3	3.621	3.118	15.1	21.2	53 E	35*	30*
6 15	9 15.09	+27 24.7	3.660	3.101	14.5	21.2	50 E	32*	29*
6 20	9 20.54	+26 34.6	3.696	3.083	13.8	21.2	46 E	29*	28*
6 25	9 26.15	+25 44.1	3.728	3.066	13.1	21.2	43 E	25*	27*
6 30	9 31.90	+24 53.0	3.758	3.048	12.4	21.1	40 E	23*	25*
7 5	9 37.78	+24 1.3	3.783	3.030	11.6	21.1	37 E	20*	23*
7 10	9 43.78	+23 9.0	3.806	3.012	10.8	21.1	34 E	17*	22*
7 15	9 49.88	+22 16.0	3.824	2.994	9.9	21.0	31 E	15*	19*
7 20	9 56.08	+21 22.4	3.839	2.975	9.1	21.0	27 E	13*	17*
7 25	10 2.36	+20 28.1	3.850	2.956	8.2	21.0	24 E	11*	15*
7 30	10 8.71	+19 33.0	3.858	2.937	7.3	20.9	22 E	9*	12*
8 4	10 15.13	+18 37.3	3.861	2.918	6.4	20.8	19 E	7*	10*
8 9	10 21.62	+17 40.8	3.861	2.898	5.5	20.8	16 E	6*	7*
8 14	10 28.16	+16 43.6	3.856	2.878	4.5	20.7	13 E	4*	4*
8 19	10 34.75	+15 45.5	3.848	2.858	3.7	20.7	10 E	3*	2*
8 24	10 41.39	+14 46.8	3.836	2.838	2.8	20.6	8 E	2*	—
8 29	10 48.06	+13 47.2	3.820	2.818	2.2	20.5	6 E	—	—

6523 Clube *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 3	10 54.78	+12 46.9	3.800	2.797	2.0	20.5	5 E	—	—
9 8	11 1.53	+11 45.9	3.776	2.776	2.2	20.5	6 W	—	—
9 18	11 15.13	+ 9 41.4	3.717	2.734	3.8	20.5	10 W	4*	—
9 28	11 28.84	+ 7 33.8	3.642	2.691	5.8	20.5	16 W	10*	1*
10 8	11 42.65	+ 5 23.1	3.554	2.647	7.9	20.5	21 W	15*	5*
10 18	11 56.54	+ 3 9.3	3.452	2.603	10.0	20.5	27 W	20*	10*
10 28	12 10.51	+ 0 52.4	3.337	2.558	12.1	20.5	33 W	24*	14*
11 7	12 24.53	− 1 27.9	3.210	2.512	14.2	20.4	39 W	28*	19*
11 17	12 38.60	− 3 51.7	3.072	2.465	16.3	20.4	44 W	31*	25*
11 27	12 52.69	− 6 19.3	2.926	2.418	18.3	20.3	50 W	33*	31*
12 7	13 6.78	− 8 51.1	2.771	2.371	20.2	20.2	56 W	34*	38*
12 17	13 20.83	−11 28.0	2.611	2.323	22.0	20.1	62 W	33*	45*
12 27	13 34.79	−14 10.8	2.446	2.275	23.7	19.9	68 W	31*	53*
1 6	13 48.61	−17 0.7	2.279	2.226	25.2	19.8	74 W	28	61*
1 16	14 2.19	−19 59.4	2.112	2.178	26.5	19.6	80 W	25	70*

416211 2002 UB_{31}

12 23	10 2.70	+39 21.7	2.346	3.045	14.9	21.5	127 W	84	25
12 28	10 1.33	+40 25.0	2.315	3.060	13.9	21.4	132 W	85	24
1 2	9 59.14	+41 29.2	2.290	3.074	12.8	21.4	136 W	86	23
1 7	9 56.15	+42 33.1	2.270	3.089	11.8	21.3	140 W	88	21
1 12	9 52.36	+43 35.5	2.257	3.103	10.9	21.3	144 W	89	20
1 17	9 47.85	+44 35.0	2.250	3.117	10.1	21.3	146 W	90	19
1 22	9 42.68	+45 30.4	2.249	3.131	9.5	21.3	148 W	89	18
1 27	9 36.96	+46 20.4	2.256	3.144	9.1	21.3	150 W	89	18
2 1	9 30.86	+47 3.9	2.269	3.157	9.1	21.3	149 W	88	17
2 6	9 24.53	+47 40.0	2.290	3.171	9.4	21.3	148 W	87	16
2 11	9 18.17	+48 8.4	2.317	3.183	10.0	21.4	146 E	87	16
2 16	9 11.95	+48 28.8	2.351	3.196	10.7	21.5	143 E	87	16
2 21	9 6.04	+48 41.4	2.390	3.208	11.5	21.5	140 E	86	15
2 26	9 0.61	+48 46.4	2.436	3.221	12.4	21.6	136 E	86	15
3 2	8 55.78	+48 44.6	2.487	3.233	13.2	21.7	132 E	86	15
3 7	8 51.66	+48 36.6	2.542	3.244	14.0	21.8	128 E	86	15

10145 1994 CK_1

12 23	10 3.01	+16 7.6	0.998	1.744	28.1	19.2	123 W	61	48
1 2	9 50.28	+17 2.5	0.984	1.828	21.7	19.1	137 W	62	47
1 12	9 33.12	+18 10.4	0.987	1.908	14.5	19.0	151 W	63	46
1 22	9 13.32	+19 18.8	1.016	1.985	6.9	18.8	166 W	64	45
1 27	9 3.19	+19 49.3	1.041	2.022	3.3	18.7	173 W	65	44
2 1	8 53.38	+20 15.8	1.074	2.059	1.4	18.7	177 E	65	44
2 6	8 44.19	+20 37.6	1.115	2.095	4.1	19.0	171 E	66	43
2 11	8 35.85	+20 54.5	1.163	2.130	7.2	19.3	164 E	66	43
2 16	8 28.52	+21 6.8	1.217	2.164	10.0	19.5	158 E	66	43
2 21	8 22.31	+21 14.8	1.278	2.197	12.5	19.8	151 E	66	43
3 2	8 13.37	+21 19.7	1.417	2.262	16.6	20.2	139 E	66	43
3 12	8 8.84	+21 13.1	1.574	2.324	19.6	20.6	128 E	66	43
3 22	8 8.13	+20 57.9	1.745	2.383	21.6	20.9	118 E	66	43
4 1	8 10.57	+20 35.9	1.925	2.439	22.8	21.2	109 E	66	43

7816 Hanoi

12 23	10 3.13	+ 8 15.5	1.468	2.143	23.3	18.6	121 W	53	56
1 2	10 1.59	+ 8 8.6	1.402	2.178	19.9	18.4	131 W	53	56
1 12	9 56.64	+ 8 22.2	1.350	2.212	15.7	18.2	142 W	53	56
1 22	9 48.66	+ 8 55.0	1.318	2.247	10.9	18.0	155 W	54	55
1 27	9 43.78	+ 9 17.5	1.311	2.264	8.3	17.9	161 W	54	55
2 1	9 38.51	+ 9 42.9	1.310	2.281	5.6	17.8	167 W	55	54
2 6	9 33.02	+10 10.5	1.316	2.297	3.1	17.7	173 W	55	54
2 11	9 27.52	+10 39.1	1.329	2.314	1.8	17.7	176 E	56	53
2 16	9 22.16	+11 7.8	1.349	2.331	3.4	17.8	172 E	56	53
2 21	9 17.14	+11 35.7	1.376	2.347	5.9	18.0	166 E	57	52
2 26	9 12.59	+12 2.0	1.409	2.364	8.3	18.2	160 E	57	52
3 2	9 8.65	+12 26.2	1.449	2.380	10.5	18.4	154 E	57	52
3 12	9 2.90	+13 6.1	1.546	2.412	14.5	18.7	143 E	58	51
3 22	9 0.19	+13 33.5	1.662	2.443	17.7	19.0	132 E	59	50
4 1	9 0.50	+13 47.9	1.794	2.474	20.0	19.2	122 E	59	50
4 11	9 3.53	+13 49.8	1.937	2.504	21.6	19.5	113 E	59	50
4 21	9 8.88	+13 40.1	2.088	2.533	22.6	19.7	104 E	59*	50
5 1	9 16.17	+13 19.7	2.243	2.562	23.0	19.9	97 E	56*	51
5 11	9 25.03	+12 49.5	2.401	2.589	23.0	20.1	89 E	51*	51
5 21	9 35.12	+12 10.5	2.558	2.616	22.5	20.2	82 E	45*	52*
5 31	9 46.21	+11 23.4	2.713	2.642	21.8	20.3	75 E	39*	52*
6 10	9 58.07	+10 29.0	2.863	2.667	20.8	20.4	69 E	32*	51*
6 20	10 10.51	+ 9 28.1	3.008	2.692	19.5	20.5	62 E	26*	49*
6 30	10 23.41	+ 8 21.4	3.146	2.715	18.1	20.6	56 E	20*	46*
7 10	10 36.65	+ 7 9.7	3.275	2.738	16.6	20.7	50 E	16*	42*
7 20	10 50.15	+ 5 53.6	3.395	2.759	14.9	20.7	44 E	12*	37*
7 30	11 3.86	+ 4 33.7	3.504	2.780	13.1	20.7	38 E	8*	32*

7816 Hanoi *(continuation)*

8 9	11 17.70	+ 3 10.9	3.602	2.800	11.2	20.7	32 E	5*	26*
8 19	11 31.66	+ 1 45.6	3.687	2.819	9.3	20.7	27 E	3*	21*
8 29	11 45.69	+ 0 18.6	3.758	2.837	7.3	20.7	21 E	1*	15*
9 8	11 59.77	− 1 9.4	3.815	2.854	5.2	20.6	15 E	—	9*
9 18	12 13.89	− 2 37.8	3.858	2.870	3.2	20.5	9 E	—	3*
9 28	12 28.01	− 4 6.0	3.885	2.885	1.1	20.4	3 E	—	—
10 8	12 42.10	− 5 33.3	3.896	2.899	1.1	20.4	3 W	—	—
10 18	12 56.15	− 6 59.1	3.891	2.912	3.1	20.6	9 W	2*	1*
10 28	13 10.12	− 8 22.7	3.870	2.924	5.2	20.7	15 W	8*	5*
11 7	13 23.96	− 9 43.5	3.833	2.936	7.2	20.8	22 W	13*	10*
11 17	13 37.62	−11 0.8	3.780	2.946	9.1	20.8	28 W	17*	15*
11 27	13 51.03	−12 14.1	3.712	2.955	11.0	20.9	35 W	22*	20*
12 7	14 4.10	−13 22.7	3.628	2.964	12.7	20.9	42 W	25*	27*
12 17	14 16.75	−14 26.2	3.531	2.971	14.4	20.9	48 W	27*	34*
12 27	14 28.82	−15 24.0	3.421	2.978	15.8	20.9	56 W	28*	41*
1 6	14 40.19	−16 15.6	3.300	2.983	17.1	20.9	63 W	28*	50*
1 16	14 50.67	−17 0.7	3.169	2.988	18.1	20.8	70 W	28*	58*

306613 2000 QX_1

12 23	10 4.79	− 0 9.9	2.181	2.767	18.5	19.4	117 W	45	64
1 2	9 59.79	− 1 33.6	2.105	2.809	16.2	19.2	127 W	43	66
1 12	9 52.21	− 2 42.8	2.045	2.850	13.5	19.1	138 W	42	67
1 22	9 42.45	− 3 34.8	2.009	2.890	10.4	19.0	148 W	41	68
2 1	9 31.25	− 4 7.6	1.999	2.930	7.6	18.9	157 W	41	68
2 11	9 19.61	− 4 21.5	2.019	2.969	6.2	18.9	161 E	41	68
2 21	9 8.56	− 4 18.7	2.069	3.008	7.2	19.0	158 E	41	68
3 2	8 59.05	− 4 3.4	2.149	3.045	9.5	19.2	150 E	41	68
3 12	8 51.71	− 3 40.8	2.253	3.082	11.9	19.4	140 E	41	68
3 22	8 46.85	− 3 15.7	2.380	3.118	14.1	19.7	130 E	42	67
4 1	8 44.52	− 2 52.3	2.523	3.153	15.8	19.9	121 E	42	67
4 11	8 44.55	− 2 33.4	2.679	3.187	17.0	20.1	112 E	42	67
4 21	8 46.68	− 2 21.0	2.843	3.221	17.7	20.2	103 E	42*	66
5 1	8 50.65	− 2 16.4	3.012	3.254	18.0	20.4	95 E	39*	66
5 11	8 56.15	− 2 20.0	3.182	3.286	17.9	20.5	87 E	35*	66*
5 21	9 2.92	− 2 32.0	3.350	3.317	17.5	20.6	79 E	29*	65*
5 31	9 10.74	− 2 52.5	3.513	3.347	16.8	20.7	72 E	22*	62*
6 10	9 19.40	− 3 21.1	3.670	3.376	15.9	20.8	65 E	15*	58*
6 20	9 28.73	− 3 57.6	3.819	3.405	14.8	20.9	59 E	9*	52*
6 30	9 38.60	− 4 41.5	3.957	3.433	13.6	20.9	52 E	3*	46*
7 10	9 48.87	− 5 32.5	4.084	3.460	12.3	21.0	46 E	—	40*
7 20	9 59.44	− 6 30.0	4.198	3.486	10.9	21.0	40 E	—	33*
7 30	10 10.25	− 7 33.8	4.299	3.511	9.5	21.0	35 E	—	26*
8 9	10 21.19	− 8 43.2	4.384	3.536	8.1	21.0	29 E	—	19*
8 19	10 32.22	− 9 58.0	4.454	3.559	6.8	21.0	25 E	—	12*
8 29	10 43.27	−11 17.6	4.508	3.582	5.8	21.0	21 E	—	6*
9 8	10 54.29	−12 41.7	4.544	3.604	5.1	21.0	19 W	—	5*
9 18	11 5.21	−14 9.8	4.564	3.625	5.1	21.0	19 W	—	9*
9 28	11 15.98	−15 41.5	4.567	3.646	5.6	21.1	21 W	—	14*
10 8	11 26.53	−17 16.5	4.552	3.665	6.5	21.1	24 W	1*	18*
10 18	11 36.81	−18 54.3	4.520	3.684	7.6	21.2	29 W	6*	23*
10 28	11 46.71	−20 34.5	4.472	3.702	8.9	21.2	35 W	10*	28*
11 7	11 56.16	−22 16.8	4.408	3.719	10.1	21.2	41 W	14*	34*
11 17	12 5.04	−24 0.6	4.329	3.735	11.3	21.2	48 W	16*	40*
11 27	12 13.21	−25 45.4	4.237	3.751	12.4	21.2	54 W	18*	47*
12 7	12 20.53	−27 30.6	4.133	3.765	13.3	21.2	62 W	17*	54*
12 17	12 26.82	−29 15.5	4.019	3.779	14.1	21.2	69 W	16	62*
12 27	12 31.87	−30 59.1	3.898	3.792	14.6	21.2	77 W	14	70*
1 6	12 35.46	−32 40.0	3.773	3.804	14.9	21.1	84 W	12	78*
1 16	12 37.36	−34 16.7	3.646	3.816	14.9	21.0	92 W	11	82

159490 2000 TM_{29}

12 23	10 4.89	+13 9.1	2.369	3.008	16.1	21.2	122 W	58	51
1 2	10 1.86	+13 11.5	2.260	3.016	13.8	21.1	133 W	58	51
1 12	9 56.34	+13 25.0	2.170	3.024	10.9	20.9	144 W	58	51
1 22	9 48.57	+13 48.0	2.103	3.030	7.5	20.7	156 W	59	50
2 1	9 39.08	+14 17.1	2.063	3.036	3.6	20.4	169 W	59	50
2 6	9 33.94	+14 32.7	2.055	3.038	1.5	20.3	175 W	60	49
2 11	9 28.71	+14 48.2	2.054	3.041	0.5	20.2	178 E	60	49
2 16	9 23.50	+15 3.1	2.061	3.043	2.6	20.4	172 E	60	49
2 21	9 18.44	+15 17.0	2.076	3.044	4.6	20.5	166 E	60	49
2 26	9 13.66	+15 29.4	2.099	3.046	6.5	20.6	160 E	60	49
3 2	9 9.26	+15 40.1	2.128	3.047	8.4	20.7	153 E	61	48
3 7	9 5.34	+15 48.7	2.164	3.048	10.1	20.8	148 E	61	48
3 12	9 1.96	+15 55.2	2.206	3.049	11.7	21.0	142 E	61	48
3 17	8 59.16	+15 59.4	2.254	3.049	13.1	21.1	136 E	61	48
3 22	8 56.98	+16 1.5	2.306	3.050	14.4	21.1	131 E	61	48
3 27	8 55.43	+16 1.3	2.363	3.050	15.5	21.2	125 E	61	48
4 1	8 54.51	+15 58.9	2.423	3.050	16.5	21.3	120 E	61	48
4 6	8 54.22	+15 54.4	2.487	3.049	17.3	21.4	115 E	61	48
4 11	8 54.52	+15 47.9	2.552	3.049	18.0	21.5	110 E	61	48

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
25037 1998 QC_{37}									
12 23	10 5.49	+ 7 55.0	1.983	2.617	19.0	19.5	120 W	53	56
1 2	10 4.24	+ 7 34.8	1.854	2.600	16.8	19.3	130 W	53	56
1 12	10 0.13	+ 7 29.3	1.740	2.582	13.8	19.1	141 W	52	57
1 22	9 53.23	+ 7 39.2	1.647	2.563	10.1	18.8	153 W	53	56
2 1	9 43.93	+ 8 3.5	1.579	2.543	5.8	18.5	165 W	53	56
2 11	9 33.09	+ 8 39.2	1.539	2.522	2.2	18.2	174 E	54	55
2 16	9 27.45	+ 8 59.7	1.529	2.512	3.0	18.2	172 E	54	55
2 21	9 21.87	+ 9 21.2	1.527	2.501	5.1	18.3	167 E	54	55
2 26	9 16.54	+ 9 42.8	1.533	2.490	7.4	18.4	161 E	55	54
3 2	9 11.60	+10 3.9	1.544	2.478	9.7	18.6	155 E	55	54
3 7	9 7.19	+10 23.7	1.563	2.467	12.0	18.7	149 E	55	54
3 12	9 3.42	+10 41.9	1.587	2.455	14.1	18.8	143 E	56	53
3 22	8 58.07	+11 11.7	1.650	2.431	17.8	18.9	132 E	56	53
4 1	8 55.88	+11 31.0	1.728	2.406	20.7	19.1	122 E	57	52
4 11	8 56.83	+11 38.7	1.818	2.381	23.0	19.3	112 E	57	52
4 21	9 0.68	+11 34.6	1.914	2.355	24.6	19.4	103 E	56*	52
5 1	9 7.10	+11 18.8	2.012	2.328	25.5	19.5	95 E	53*	53
5 11	9 15.72	+10 51.4	2.111	2.300	26.0	19.6	88 E	48*	53
5 21	9 26.21	+10 12.9	2.207	2.272	26.1	19.7	81 E	42*	54*
5 31	9 38.29	+ 9 23.5	2.299	2.243	25.8	19.7	74 E	36*	53*
6 10	9 51.69	+ 8 23.6	2.385	2.214	25.2	19.8	68 E	29*	52*
6 20	10 6.21	+ 7 13.7	2.464	2.184	24.3	19.8	62 E	24*	50*
6 30	10 21.71	+ 5 54.2	2.536	2.154	23.3	19.8	57 E	18*	47*
7 10	10 38.04	+ 4 25.9	2.601	2.124	22.0	19.8	52 E	14*	44*
7 20	10 55.13	+ 2 49.2	2.657	2.093	20.7	19.7	47 E	10*	40*
7 30	11 12.93	+ 1 5.0	2.704	2.063	19.2	19.7	42 E	7*	36*
8 9	11 31.40	− 0 45.8	2.744	2.032	17.6	19.7	37 E	5*	31*
8 19	11 50.53	− 2 42.5	2.775	2.001	15.9	19.6	33 E	3*	27*
8 29	12 10.34	− 4 43.7	2.798	1.971	14.2	19.5	29 E	1*	23*
9 8	12 30.85	− 6 48.4	2.813	1.941	12.4	19.4	24 E	—	18*
9 18	12 52.11	− 8 55.0	2.821	1.911	10.6	19.3	20 E	—	14*
9 28	13 14.17	−11 2.1	2.821	1.882	8.7	19.2	17 E	—	10*
10 8	13 37.09	−13 7.8	2.816	1.854	6.8	19.1	13 E	—	7*
10 18	14 0.94	−15 10.1	2.804	1.827	4.9	19.0	9 E	—	3*
10 28	14 25.76	−17 6.7	2.787	1.801	3.1	18.8	6 E	—	—
11 7	14 51.59	−18 55.2	2.765	1.776	1.5	18.7	3 E	—	—
11 17	15 18.46	−20 33.1	2.739	1.752	1.8	18.6	3 W	—	—
11 27	15 46.32	−21 57.6	2.709	1.730	3.4	18.7	6 W	—	—
12 7	16 15.11	−23 6.0	2.676	1.710	5.3	18.7	9 W	—	2*
12 17	16 44.72	−23 56.0	2.640	1.692	7.2	18.8	12 W	2*	5*
12 27	17 14.97	−24 25.2	2.602	1.677	9.1	18.8	16 W	3*	8*
1 6	17 45.61	−24 32.3	2.563	1.663	11.0	18.8	19 W	4*	12*
1 16	18 16.42	−24 16.2	2.523	1.653	12.9	18.9	22 W	5*	15*
450138 1998 BO_{26}									
12 23	10 5.87	+16 8.4	0.846	1.607	31.0	19.1	123 W	61	48
1 2	10 18.13	+14 37.1	0.753	1.574	28.8	18.7	130 W	60	49
1 12	10 27.47	+13 7.8	0.670	1.543	25.7	18.3	137 W	58	51
1 22	10 33.34	+11 41.8	0.600	1.517	21.6	17.9	145 W	57	52
2 1	10 35.35	+10 20.6	0.544	1.495	16.4	17.5	155 W	55	54
2 11	10 33.71	+ 9 4.1	0.502	1.477	10.1	17.1	165 W	54	55
2 21	10 29.32	+ 7 51.7	0.477	1.465	3.3	16.6	175 W	53	56
3 2	10 23.94	+ 6 42.4	0.469	1.458	4.8	16.7	173 E	52	57
3 12	10 19.84	+ 5 34.1	0.477	1.456	11.8	17.0	163 E	51	58
3 22	10 18.76	+ 4 25.3	0.500	1.459	18.2	17.4	153 E	49	60
4 1	10 21.70	+ 3 14.0	0.537	1.468	23.5	17.7	144 E	48	61
4 11	10 28.77	+ 1 57.9	0.586	1.482	27.8	18.0	136 E	47	62
4 21	10 39.44	+ 0 36.2	0.645	1.501	31.0	18.4	130 E	46	63
5 1	10 53.06	− 0 51.8	0.714	1.525	33.3	18.7	124 E	44	65
5 11	11 8.92	− 2 26.0	0.792	1.553	34.9	19.0	118 E	43	66
5 21	11 26.38	− 4 5.1	0.879	1.584	35.8	19.3	114 E	40*	68
5 31	11 44.99	− 5 48.3	0.974	1.619	36.3	19.6	109 E	37*	70
6 10	12 4.38	− 7 34.1	1.077	1.656	36.4	19.8	105 E	33*	72
6 20	12 24.29	− 9 20.8	1.187	1.696	36.1	20.1	100 E	30*	73
6 30	12 44.57	−11 7.1	1.305	1.738	35.6	20.3	96 E	26*	75
7 10	13 5.09	−12 51.8	1.428	1.781	34.8	20.6	92 E	23*	77
7 20	13 25.79	−14 33.4	1.557	1.826	33.8	20.8	88 E	20*	78*
7 30	13 46.65	−16 11.0	1.691	1.872	32.6	21.0	84 E	18*	76*
8 9	14 7.62	−17 43.4	1.829	1.918	31.3	21.2	79 E	16*	73*
8 19	14 28.70	−19 9.7	1.969	1.965	29.8	21.3	75 E	15*	69*
8 29	14 49.89	−20 29.2	2.112	2.012	28.2	21.5	70 E	13*	64*
456946 2008 AF_{32}									
12 23	10 5.90	+ 9 9.2	0.318	1.177	46.2	20.8	120 W	54	55
12 28	10 23.27	+15 2.6	0.289	1.168	44.6	20.6	123 W	60	49
1 2	10 43.08	+22 9.3	0.266	1.160	43.4	20.3	126 W	67	42
1 7	11 6.18	+30 18.2	0.251	1.151	43.1	20.2	127 W	75	34
1 12	11 33.57	+38 58.5	0.243	1.143	44.2	20.1	126 W	84	25
1 14	11 45.98	+42 25.2	0.243	1.140	45.0	20.1	125 W	87	22
1 16	11 59.32	+45 46.2	0.244	1.137	46.0	20.2	124 W	89	18

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
456946 2008 AF_{32} *(continuation)*									
1 18	12 13.65	+48 58.6	0.246	1.134	47.2	20.2	122 W	86	15
1 20	12 29.00	+51 59.5	0.249	1.131	48.5	20.3	121 W	83	12
1 22	12 45.38	+54 46.7	0.253	1.128	49.9	20.3	119 W	80	9
1 24	13 2.77	+57 18.6	0.258	1.125	51.3	20.4	117 W	78	7
1 26	13 21.09	+59 34.1	0.265	1.122	52.7	20.5	115 W	75	4
1 28	13 40.21	+61 33.0	0.272	1.119	54.0	20.6	113 W	73	2*
1 30	13 59.95	+63 15.2	0.279	1.117	55.3	20.7	111 W	72	1*
2 1	14 20.07	+64 41.4	0.287	1.114	56.5	20.8	109 W	70	—
2 2	14 30.19	+65 18.8	0.292	1.113	57.1	20.8	109 W	70	—
2 3	14 40.30	+65 52.6	0.296	1.112	57.7	20.9	108 W	69	—
2 4	14 50.37	+66 23.0	0.300	1.110	58.2	20.9	107 W	69	—
2 5	15 0.36	+66 50.2	0.305	1.109	58.7	21.0	106 W	68	—
2 6	15 10.23	+67 14.3	0.309	1.108	59.2	21.0	105 W	68	—
2 7	15 19.96	+67 35.5	0.314	1.107	59.7	21.0	104 W	67	—
2 8	15 29.51	+67 54.2	0.319	1.105	60.1	21.1	104 W	67	—
2 9	15 38.86	+68 10.4	0.323	1.104	60.6	21.1	103 W	67	—
2 10	15 47.98	+68 24.3	0.328	1.103	61.0	21.2	102 W	67	—
2 11	15 56.86	+68 36.2	0.333	1.102	61.4	21.2	101 W	66	—
2 13	16 13.83	+68 54.6	0.342	1.100	62.1	21.3	100 W	66*	—
2 15	16 29.67	+69 7.0	0.352	1.098	62.8	21.4	99 W	66*	—
2 17	16 44.35	+69 14.5	0.361	1.096	63.4	21.4	98 W	65*	—
2 19	16 57.86	+69 18.4	0.371	1.094	63.9	21.5	96 W	65*	—
234242 2000 SC_{340}									
12 23	10 6.06	+19 18.9	2.340	2.998	15.9	21.4	124 W	64	45
1 2	10 3.72	+19 53.3	2.216	2.987	13.6	21.2	134 W	65	44
1 12	9 58.72	+20 38.8	2.111	2.975	10.8	21.0	146 W	66	43
1 22	9 51.22	+21 32.0	2.030	2.961	7.4	20.7	157 W	67	42
2 1	9 41.65	+22 27.2	1.977	2.947	4.0	20.5	168 W	67	42
2 6	9 36.35	+22 53.5	1.961	2.940	2.9	20.4	171 W	68	41
2 11	9 30.87	+23 18.0	1.953	2.932	3.0	20.4	171 E	68	41
2 16	9 25.36	+23 39.8	1.953	2.924	4.4	20.5	167 E	69	40
2 21	9 19.94	+23 58.4	1.960	2.915	6.1	20.6	162 E	69	40
2 26	9 14.78	+24 13.5	1.975	2.907	8.0	20.7	156 E	69	40
3 2	9 10.00	+24 24.7	1.996	2.898	9.8	20.8	150 E	69	40
3 7	9 5.71	+24 32.0	2.024	2.889	11.5	20.8	144 E	70	39
3 12	9 1.99	+24 35.4	2.057	2.879	13.2	20.9	139 E	70	39
3 17	8 58.92	+24 35.2	2.096	2.870	14.7	21.0	133 E	70	39
3 22	8 56.53	+24 31.4	2.139	2.860	16.0	21.1	128 E	70	39
3 27	8 54.84	+24 24.5	2.186	2.850	17.2	21.2	123 E	69	40
4 1	8 53.87	+24 14.6	2.236	2.839	18.2	21.3	118 E	69	40
4 6	8 53.59	+24 2.0	2.289	2.829	19.1	21.3	113 E	69	40
4 11	8 53.98	+23 46.9	2.344	2.818	19.8	21.4	108 E	69	40
4 16	8 55.02	+23 29.6	2.400	2.807	20.4	21.5	103 E	68	41
238072 2003 FW_7									
12 23	10 6.61	+23 47.3	2.241	2.914	16.1	21.2	125 W	69	40
1 2	10 4.49	+24 37.8	2.122	2.902	13.9	21.0	135 W	70	39
1 12	9 59.54	+25 38.6	2.023	2.889	11.0	20.8	146 W	71	38
1 22	9 51.87	+26 44.6	1.947	2.876	7.9	20.6	156 W	72	37
2 1	9 41.96	+27 48.5	1.898	2.861	5.1	20.4	165 W	73	36
2 6	9 36.45	+28 17.2	1.885	2.853	4.6	20.4	167 W	73	36
2 11	9 30.74	+28 42.5	1.879	2.846	4.9	20.4	166 E	74	35
2 16	9 25.00	+29 3.7	1.881	2.837	6.1	20.4	162 E	74	35
2 21	9 19.37	+29 20.2	1.890	2.829	7.7	20.5	158 E	74	35
2 26	9 14.03	+29 31.6	1.906	2.821	9.4	20.6	152 E	75	34
3 2	9 9.11	+29 38.0	1.928	2.812	11.1	20.7	147 E	75	34
3 7	9 4.74	+29 39.4	1.957	2.803	12.7	20.7	142 E	75	34
3 12	9 0.99	+29 36.1	1.990	2.793	14.3	20.8	136 E	75	34
3 17	8 57.94	+29 28.5	2.029	2.784	15.7	20.9	131 E	74	35
3 22	8 55.63	+29 16.9	2.072	2.774	17.0	21.0	126 E	74	35
3 27	8 54.07	+29 1.7	2.118	2.764	18.1	21.1	121 E	74	35
4 1	8 53.27	+28 43.5	2.168	2.754	19.1	21.1	116 E	74	35
4 6	8 53.21	+28 22.4	2.219	2.743	19.9	21.2	111 E	73	36
4 11	8 53.85	+27 58.9	2.273	2.733	20.6	21.3	107 E	73	36
4 16	8 55.15	+27 33.3	2.328	2.722	21.1	21.3	102 E	73	36
4 21	8 57.08	+27 5.6	2.384	2.711	21.5	21.4	98 E	71*	37
4 26	8 59.60	+26 36.2	2.440	2.699	21.8	21.5	94 E	69*	37
5 1	9 2.66	+26 5.0	2.496	2.688	22.0	21.5	90 E	66*	38
14309 Defoy									
12 23	10 6.89	+ 6 40.5	3.175	3.753	13.2	20.5	119 W	52	57
1 2	10 4.40	+ 6 49.0	3.040	3.747	11.6	20.3	130 W	52	57
1 12	10 0.05	+ 7 9.2	2.923	3.740	9.5	20.1	141 W	52	57
1 22	9 53.99	+ 7 40.8	2.830	3.732	6.9	19.9	153 W	53	56
2 1	9 46.56	+ 8 22.1	2.764	3.723	4.0	19.7	165 W	53	56
2 11	9 38.28	+ 9 10.4	2.729	3.713	1.4	19.5	175 W	54	55
2 21	9 29.82	+10 2.0	2.727	3.702	2.9	19.6	169 E	55	54
3 2	9 21.87	+10 53.1	2.756	3.691	5.9	19.8	157 E	56	53

14309 Defoy *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 12	9 15.05	+11 40.1	2.814	3.678	8.7	20.0	146 E	57	52
3 22	9 9.84	+12 20.5	2.896	3.664	11.2	20.1	134 E	57	52
4 1	9 6.51	+12 52.7	2.999	3.650	13.2	20.3	124 E	58	51
4 11	9 5.18	+13 15.9	3.117	3.634	14.7	20.4	113 E	58	51
4 21	9 5.78	+13 29.9	3.244	3.617	15.7	20.5	104 E	58*	51
5 1	9 8.21	+13 35.0	3.376	3.600	16.2	20.6	95 E	56*	50
5 11	9 12.27	+13 31.6	3.509	3.581	16.3	20.7	86 E	50*	50
5 21	9 17.78	+13 20.1	3.639	3.562	16.1	20.7	78 E	44*	50*
5 31	9 24.55	+13 1.0	3.764	3.542	15.6	20.8	70 E	36*	49*
6 10	9 32.37	+12 34.8	3.880	3.520	14.8	20.8	62 E	29*	47*
6 20	9 41.11	+12 2.0	3.986	3.498	13.7	20.8	55 E	23*	43*
6 30	9 50.61	+11 23.1	4.079	3.475	12.5	20.8	48 E	17*	38*
7 10	10 0.74	+10 38.5	4.158	3.450	11.1	20.8	41 E	12*	33*
7 20	10 11.41	+ 9 48.6	4.222	3.425	9.5	20.7	34 E	8*	27*
7 30	10 22.52	+ 8 53.9	4.270	3.399	7.8	20.7	27 E	4*	21*
8 9	10 34.00	+ 7 55.0	4.302	3.372	6.1	20.6	21 E	1*	15*
8 19	10 45.78	+ 6 52.2	4.316	3.343	4.2	20.5	14 E	—	8*
8 29	10 57.81	+ 5 46.1	4.312	3.314	2.3	20.3	8 E	—	2*
9 8	11 10.03	+ 4 37.2	4.291	3.284	0.4	20.1	1 E	—	—
9 18	11 22.41	+ 3 26.1	4.252	3.253	1.6	20.2	5 W	—	—
9 28	11 34.91	+ 2 13.4	4.195	3.220	3.6	20.3	12 W	5*	2*
10 8	11 47.47	+ 0 59.7	4.121	3.187	5.6	20.3	18 W	11*	6*
10 18	12 0.08	− 0 14.2	4.031	3.153	7.6	20.4	25 W	17*	10*
10 28	12 12.67	− 1 27.8	3.924	3.118	9.5	20.4	31 W	22*	15*
11 7	12 25.19	− 2 40.0	3.802	3.081	11.4	20.3	38 W	27*	20*
11 17	12 37.60	− 3 50.3	3.667	3.044	13.2	20.3	45 W	31*	25*
11 27	12 49.81	− 4 57.6	3.519	3.006	14.9	20.3	52 W	35*	31*
12 7	13 1.74	− 6 1.0	3.359	2.966	16.5	20.2	59 W	37*	38*
12 17	13 13.27	− 6 59.5	3.191	2.926	17.8	20.1	66 W	38*	45*
12 27	13 24.28	− 7 51.8	3.015	2.885	19.0	20.0	73 W	37	52*
1 6	13 34.60	− 8 37.0	2.834	2.842	20.0	19.8	81 W	36	60*
1 16	13 44.03	− 9 13.6	2.649	2.799	20.6	19.7	88 W	36	67*

59490 1999 JD_4

12 23	10 7.44	−16 47.7	2.608	3.058	17.8	19.7	108 W	28	81
1 2	10 5.60	−18 8.7	2.485	3.052	16.8	19.6	116 W	27	82
1 12	10 1.43	−19 13.6	2.374	3.045	15.4	19.4	125 W	26	83
1 22	9 55.05	−19 57.6	2.280	3.038	13.7	19.3	133 W	25	84
2 1	9 46.81	−20 15.6	2.205	3.029	12.0	19.1	140 W	25	84
2 11	9 37.38	−20 4.8	2.154	3.019	10.7	19.0	146 W	25	84
2 16	9 32.48	−19 48.4	2.137	3.014	10.3	19.0	147 E	25	84
2 21	9 27.62	−19 24.9	2.127	3.009	10.2	19.0	148 E	26	83
2 26	9 22.92	−18 55.0	2.124	3.003	10.3	19.0	147 E	26	83
3 2	9 18.50	−18 19.2	2.127	2.998	10.8	19.0	146 E	27	82
3 7	9 14.46	−17 38.6	2.137	2.992	11.4	19.0	143 E	27	82
3 12	9 10.89	−16 54.1	2.152	2.985	12.3	19.1	140 E	28	81
3 17	9 7.85	−16 6.9	2.174	2.979	13.2	19.1	137 E	29	80
3 22	9 5.39	−15 17.8	2.200	2.972	14.2	19.2	133 E	30	79
3 27	9 3.56	−14 28.1	2.232	2.965	15.1	19.2	129 E	31	78
4 1	9 2.37	−13 38.5	2.268	2.958	16.0	19.3	125 E	31	78
4 6	9 1.82	−12 49.9	2.308	2.950	16.9	19.4	121 E	32	77
4 11	9 1.90	−12 3.0	2.351	2.943	17.7	19.4	117 E	33	76
4 21	9 3.86	−10 36.5	2.446	2.926	19.0	19.5	109 E	34*	75
5 1	9 8.04	− 9 22.3	2.549	2.909	19.9	19.6	101 E	34*	73
5 11	9 14.19	− 8 22.0	2.657	2.892	20.4	19.7	93 E	31*	72
5 21	9 22.03	− 7 36.4	2.765	2.873	20.6	19.8	86 E	27*	71*
5 31	9 31.33	− 7 5.4	2.873	2.853	20.4	19.9	79 E	22*	68*
6 10	9 41.86	− 6 48.6	2.977	2.832	19.9	19.9	72 E	16*	64*
6 20	9 53.42	− 6 45.1	3.075	2.811	19.2	20.0	66 E	11*	59*
6 30	10 5.87	− 6 54.0	3.167	2.788	18.3	20.0	59 E	6*	53*
7 10	10 19.07	− 7 14.4	3.250	2.765	17.1	20.0	53 E	2*	47*
7 20	10 32.92	− 7 45.1	3.323	2.741	15.9	20.0	47 E	—	41*
7 30	10 47.33	− 8 25.3	3.387	2.716	14.4	19.9	42 E	—	35*
8 9	11 2.24	− 9 13.8	3.439	2.690	12.9	19.9	36 E	—	29*
8 19	11 17.61	−10 9.6	3.479	2.663	11.3	19.8	31 E	—	23*
8 29	11 33.42	−11 11.8	3.507	2.635	9.6	19.8	26 E	—	17*
9 8	11 49.62	−12 19.1	3.523	2.607	7.9	19.7	21 E	—	11*
9 18	12 6.23	−13 30.6	3.525	2.578	6.3	19.6	16 E	—	6*
9 28	12 23.23	−14 45.2	3.515	2.548	5.0	19.5	13 E	—	1*
10 8	12 40.64	−16 1.6	3.492	2.517	4.2	19.4	11 W	—	2*
10 18	12 58.46	−17 18.8	3.456	2.486	4.5	19.4	11 W	—	5*
10 28	13 16.70	−18 35.6	3.406	2.454	5.6	19.4	14 W	—	8*
11 7	13 35.37	−19 50.5	3.345	2.421	7.2	19.4	18 W	3*	11*
11 17	13 54.47	−21 2.2	3.271	2.388	9.1	19.4	22 W	7*	15*
11 27	14 14.01	−22 9.4	3.186	2.354	11.1	19.4	27 W	10*	19*
12 7	14 33.96	−23 10.4	3.090	2.320	13.2	19.3	32 W	13*	24*
12 17	14 54.31	−24 3.9	2.984	2.285	15.2	19.3	38 W	15*	29*
12 27	15 15.01	−24 48.1	2.869	2.250	17.3	19.3	43 W	16*	34*
1 6	15 36.00	−25 21.4	2.746	2.215	19.3	19.2	48 W	17*	40*
1 16	15 57.20	−25 42.2	2.616	2.179	21.3	19.1	53 W	17*	46*

19958 1985 RN_4

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	10 7.56	+14 45.2	2.304	2.944	16.5	21.1	122 W	60	49
1 2	10 4.99	+15 10.1	2.205	2.962	14.1	21.0	133 W	60	49
1 12	9 59.89	+15 47.2	2.124	2.978	11.1	20.8	144 W	61	48
1 22	9 52.50	+16 33.7	2.067	2.994	7.6	20.6	156 W	62	47
2 1	9 43.34	+17 25.2	2.037	3.009	3.8	20.4	168 W	62	47
2 6	9 38.37	+17 51.0	2.034	3.016	1.9	20.3	174 W	63	46
2 11	9 33.29	+18 15.9	2.038	3.023	1.3	20.2	176 E	63	46
2 16	9 28.23	+18 39.2	2.050	3.030	2.8	20.4	171 E	64	45
2 21	9 23.32	+19 0.5	2.069	3.036	4.7	20.5	165 E	64	45
2 26	9 18.68	+19 19.3	2.096	3.042	6.6	20.6	159 E	64	45
3 2	9 14.42	+19 35.3	2.130	3.048	8.4	20.7	153 E	65	44
3 7	9 10.64	+19 48.2	2.171	3.054	10.1	20.9	147 E	65	44
3 12	9 7.39	+19 58.1	2.217	3.059	11.6	21.0	142 E	65	44
3 17	9 4.72	+20 4.9	2.269	3.065	13.0	21.1	136 E	65	44
3 22	9 2.67	+20 8.8	2.326	3.070	14.3	21.2	131 E	65	44
3 27	9 1.24	+20 9.8	2.387	3.074	15.3	21.3	125 E	65	44
4 1	9 0.45	+20 8.1	2.452	3.079	16.3	21.4	120 E	65	44
4 6	9 0.26	+20 3.9	2.519	3.083	17.1	21.5	115 E	65	44

193749 2001 KG

12 23	10 7.63	+22 0.5	2.237	2.903	16.3	21.2	124 W	67	42
1 2	10 5.10	+22 51.5	2.130	2.906	13.9	21.1	135 W	68	41
1 12	9 59.78	+23 53.2	2.043	2.908	11.0	20.9	146 W	69	40
1 22	9 51.86	+25 0.6	1.979	2.910	7.7	20.7	157 W	70	39
2 1	9 41.86	+26 6.6	1.944	2.910	4.7	20.5	166 W	71	38
2 6	9 36.36	+26 36.7	1.937	2.909	4.0	20.4	168 W	72	37
2 11	9 30.72	+27 3.7	1.938	2.909	4.3	20.4	167 E	72	37
2 16	9 25.08	+27 26.9	1.946	2.908	5.5	20.5	164 E	72	37
2 21	9 19.59	+27 45.8	1.962	2.906	7.1	20.6	159 E	73	36
2 26	9 14.40	+28 0.0	1.985	2.905	8.7	20.7	154 E	73	36
3 2	9 9.65	+28 9.6	2.015	2.903	10.4	20.8	148 E	73	36
3 7	9 5.43	+28 14.5	2.051	2.901	12.0	20.9	142 E	73	36
3 12	9 1.83	+28 15.1	2.092	2.899	13.5	21.0	137 E	73	36
3 17	8 58.89	+28 11.5	2.138	2.897	14.9	21.1	132 E	73	36
3 22	8 56.66	+28 4.3	2.189	2.894	16.1	21.2	126 E	73	36
3 27	8 55.14	+27 53.6	2.243	2.891	17.1	21.3	121 E	73	36
4 1	8 54.34	+27 40.0	2.301	2.887	18.1	21.3	116 E	73	36
4 6	8 54.24	+27 23.7	2.360	2.884	18.8	21.4	112 E	72	37
4 11	8 54.79	+27 5.0	2.422	2.880	19.4	21.5	107 E	72	37

152627 1997 DF

12 23	10 7.94	− 8 43.4	0.705	1.408	40.4	19.7	112 W	36	73
12 28	10 12.35	− 8 10.5	0.676	1.417	38.5	19.5	116 W	37	72
1 2	10 15.73	− 7 22.0	0.648	1.427	36.4	19.4	121 W	38	71
1 7	10 18.01	− 6 16.0	0.621	1.436	33.9	19.3	126 W	39	70
1 12	10 19.13	− 4 50.9	0.596	1.446	30.9	19.1	131 W	40	69
1 17	10 19.04	− 3 5.5	0.574	1.456	27.6	18.9	137 W	42	67
1 22	10 17.70	− 0 59.1	0.555	1.466	23.8	18.8	143 W	44	65
1 27	10 15.18	+ 1 27.6	0.539	1.476	19.6	18.6	150 W	46	63
2 1	10 11.58	+ 4 12.0	0.528	1.486	15.0	18.4	157 W	49	60
2 6	10 7.10	+ 7 9.7	0.523	1.496	10.1	18.2	165 W	52	57
2 11	10 2.02	+10 14.5	0.523	1.507	5.0	18.0	172 W	55	54
2 16	9 56.61	+13 19.4	0.529	1.517	0.5	17.7	179 W	58	51
2 21	9 51.23	+16 17.1	0.542	1.527	5.0	18.1	172 E	61	48
2 26	9 46.22	+19 1.5	0.560	1.537	9.7	18.4	165 E	64	45
3 2	9 41.90	+21 28.2	0.584	1.548	14.0	18.7	158 E	66	43
3 7	9 38.53	+23 34.7	0.613	1.558	17.8	18.9	151 E	69	40
3 12	9 36.24	+25 20.5	0.646	1.568	21.3	19.2	145 E	70	39
3 17	9 35.11	+26 46.2	0.683	1.578	24.3	19.4	139 E	72	37
3 22	9 35.16	+27 53.2	0.724	1.587	26.8	19.6	134 E	73	36
3 27	9 36.38	+28 43.4	0.767	1.597	29.0	19.8	129 E	74	35
4 1	9 38.70	+29 18.5	0.813	1.606	30.8	20.0	125 E	74	35
4 6	9 42.03	+29 40.3	0.861	1.616	32.3	20.2	120 E	75	34
4 11	9 46.25	+29 50.7	0.910	1.625	33.6	20.3	116 E	75	34
4 16	9 51.26	+29 50.9	0.960	1.634	34.6	20.5	113 E	75	34
4 21	9 56.96	+29 42.3	1.011	1.642	35.3	20.7	109 E	75	34
4 26	10 3.28	+29 25.7	1.063	1.651	35.9	20.8	106 E	74	35
5 1	10 10.12	+29 2.1	1.115	1.659	36.3	20.9	103 E	74*	35
5 6	10 17.41	+28 32.4	1.168	1.667	36.6	21.0	100 E	73*	35
5 11	10 25.07	+27 57.2	1.221	1.675	36.8	21.1	97 E	71*	36
5 16	10 33.04	+27 17.1	1.274	1.682	36.8	21.2	94 E	69*	37
5 21	10 41.28	+26 32.6	1.327	1.689	36.8	21.3	91 E	66*	37
5 26	10 49.75	+25 44.0	1.379	1.696	36.7	21.4	89 E	63*	38

283557 2001 VV_2

12 23	10 8.03	+22 57.2	2.124	2.796	16.9	21.1	124 W	68	41
1 2	10 5.70	+24 3.8	2.034	2.814	14.4	20.9	135 W	69	40
1 12	10 0.48	+25 21.3	1.964	2.830	11.3	20.7	146 W	70	39
1 22	9 52.62	+26 43.4	1.917	2.845	8.0	20.5	156 W	72	37
2 1	9 42.70	+28 2.1	1.898	2.860	5.2	20.4	165 W	73	36

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
283557 2001 VV_2 *(continuation)*									
2 6	9 37.27	+28 37.4	1.899	2.867	4.7	20.4	166 W	74	35
2 11	9 31.73	+29 8.9	1.908	2.873	5.0	20.4	165 E	74	35
2 16	9 26.22	+29 35.8	1.925	2.880	6.1	20.5	162 E	75	34
2 21	9 20.89	+29 57.6	1.948	2.886	7.6	20.6	157 E	75	34
2 26	9 15.90	+30 14.2	1.979	2.891	9.2	20.7	152 E	75	34
3 2	9 11.37	+30 25.4	2.016	2.897	10.8	20.8	147 E	75	34
3 7	9 7.40	+30 31.5	2.059	2.902	12.3	20.9	142 E	76	33
3 12	9 4.06	+30 32.8	2.107	2.908	13.7	21.0	136 E	76	33
3 17	9 1.40	+30 29.7	2.161	2.913	14.9	21.1	131 E	75	34
3 22	8 59.44	+30 22.6	2.218	2.917	16.0	21.2	126 E	75	34
3 27	8 58.19	+30 12.0	2.279	2.922	17.0	21.3	121 E	75	34
4 1	8 57.65	+29 58.2	2.343	2.926	17.8	21.4	116 E	75	34
4 6	8 57.78	+29 41.6	2.410	2.930	18.5	21.5	112 E	75	34
397827 2008 SP_{148}									
12 23	10 8.31	−23 58.3	1.205	1.728	33.5	19.5	104 W	21	88
12 28	10 10.15	−24 59.2	1.186	1.749	32.5	19.5	107 W	20	89
1 2	10 11.02	−25 51.3	1.166	1.769	31.4	19.4	111 W	19	90
1 7	10 10.93	−26 33.7	1.148	1.791	30.1	19.4	114 W	18	89
1 12	10 9.88	−27 5.1	1.131	1.812	28.7	19.3	118 W	18	89
1 17	10 7.92	−27 24.5	1.116	1.833	27.2	19.3	122 W	18	89
1 22	10 5.10	−27 30.6	1.103	1.855	25.6	19.2	125 W	17	88
1 27	10 1.54	−27 22.6	1.092	1.877	23.9	19.2	129 W	18	89
2 1	9 57.39	−26 59.7	1.085	1.900	22.2	19.1	133 W	18	89
2 6	9 52.85	−26 21.8	1.081	1.922	20.6	19.1	137 W	19	90
2 11	9 48.12	−25 29.4	1.082	1.944	19.0	19.1	140 W	20	89
2 16	9 43.41	−24 23.4	1.087	1.967	17.7	19.1	143 E	21	88
2 21	9 38.91	−23 5.3	1.097	1.989	16.6	19.1	145 E	22	87
2 26	9 34.82	−21 37.1	1.113	2.012	15.9	19.1	146 E	23	86
3 2	9 31.32	−20 1.4	1.134	2.035	15.7	19.2	146 E	25	84
3 7	9 28.51	−18 21.0	1.161	2.057	15.9	19.3	145 E	27	82
3 12	9 26.46	−16 38.3	1.194	2.080	16.4	19.4	144 E	28	81
3 17	9 25.21	−14 55.9	1.232	2.102	17.2	19.5	141 E	30	79
3 22	9 24.78	−13 15.8	1.275	2.125	18.2	19.6	138 E	32	77
3 27	9 25.14	−11 39.7	1.324	2.147	19.3	19.7	135 E	33	76
4 1	9 26.27	−10 9.1	1.377	2.169	20.3	19.9	131 E	35	74
4 6	9 28.12	− 8 44.9	1.435	2.192	21.3	20.0	127 E	36	73
4 11	9 30.63	− 7 27.7	1.496	2.214	22.2	20.2	124 E	38	71
4 21	9 37.38	− 5 15.0	1.629	2.257	23.6	20.4	116 E	40	69
5 1	9 46.09	− 3 31.4	1.774	2.300	24.6	20.7	108 E	41*	68
5 11	9 56.35	− 2 14.9	1.927	2.343	25.0	20.9	101 E	40*	66
5 21	10 7.79	− 1 22.7	2.086	2.384	25.0	21.1	94 E	38*	65
5 31	10 20.13	− 0 51.7	2.248	2.425	24.7	21.3	87 E	34*	65
6 10	10 33.16	− 0 38.9	2.411	2.465	24.0	21.5	81 E	29*	64*
450158 2000 DW_{98}									
12 23	10 8.81	+29 16.5	1.245	1.982	24.0	18.9	125 W	74	35
1 2	10 6.25	+29 43.0	1.200	2.020	20.1	18.7	135 W	75	34
1 12	9 59.21	+30 13.9	1.170	2.058	15.6	18.6	146 W	75	34
1 22	9 48.36	+30 39.3	1.160	2.098	11.0	18.4	156 W	76	33
1 27	9 41.92	+30 46.6	1.164	2.117	8.9	18.4	161 W	76	33
2 1	9 35.11	+30 48.7	1.174	2.137	7.4	18.3	164 W	76	33
2 6	9 28.20	+30 45.0	1.190	2.157	6.8	18.4	165 W	76	33
2 11	9 21.46	+30 35.1	1.213	2.177	7.4	18.4	163 E	76	33
2 16	9 15.12	+30 19.2	1.243	2.197	8.8	18.6	160 E	75	34
2 21	9 9.37	+29 57.6	1.278	2.217	10.6	18.7	156 E	75	34
2 26	9 4.38	+29 30.9	1.320	2.237	12.4	18.9	151 E	75	34
3 2	9 0.25	+29 0.0	1.368	2.257	14.3	19.1	146 E	74	35
3 7	8 57.05	+28 25.7	1.420	2.277	16.0	19.2	141 E	73	36
3 12	8 54.79	+27 48.6	1.478	2.297	17.5	19.4	136 E	73	36
3 22	8 52.95	+26 29.1	1.605	2.337	20.1	19.7	126 E	71	38
4 1	8 54.40	+25 5.1	1.746	2.377	21.9	20.0	117 E	70	39
4 11	8 58.61	+23 38.8	1.897	2.416	23.1	20.2	109 E	69	40
4 21	9 5.06	+22 11.1	2.055	2.455	23.7	20.4	101 E	67*	42
5 1	9 13.28	+20 42.1	2.217	2.493	23.8	20.6	94 E	63*	43
5 11	9 22.86	+19 11.9	2.381	2.531	23.5	20.8	87 E	56*	45
5 21	9 33.49	+17 40.3	2.545	2.568	22.8	21.0	80 E	49*	46*
5 31	9 44.92	+16 7.0	2.708	2.605	21.9	21.1	73 E	42*	47*
6 10	9 56.93	+14 31.9	2.866	2.641	20.7	21.2	67 E	35*	47*
6 20	10 9.38	+12 55.2	3.019	2.676	19.4	21.3	61 E	28*	46*
6 30	10 22.15	+11 16.7	3.166	2.711	17.9	21.4	55 E	22*	43*
7 10	10 35.13	+ 9 36.6	3.304	2.745	16.2	21.5	49 E	17*	40*
73735 1993 QE_3									
12 23	10 8.88	+10 44.3	1.932	2.571	19.3	21.2	120 W	56	53
1 2	10 7.26	+11 1.3	1.831	2.584	16.7	21.0	131 W	56	53
1 12	10 2.74	+11 35.3	1.746	2.595	13.4	20.8	142 W	57	52
1 22	9 55.49	+12 24.5	1.683	2.605	9.4	20.5	154 W	57	52
2 1	9 46.06	+13 24.9	1.645	2.615	4.8	20.3	167 W	58	51

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
73735 1993 QE_3 *(continuation)*									
2 6	9 40.82	+13 57.3	1.637	2.619	2.4	20.1	174 W	59	50
2 11	9 35.41	+14 30.0	1.636	2.623	0.1	19.9	180 W	59	50
2 16	9 30.00	+15 2.1	1.643	2.627	2.4	20.1	174 E	60	49
2 21	9 24.73	+15 32.7	1.657	2.630	4.8	20.3	167 E	61	48
2 26	9 19.76	+16 1.2	1.679	2.634	7.1	20.5	161 E	61	48
3 2	9 15.23	+16 26.9	1.707	2.637	9.3	20.6	155 E	61	48
3 7	9 11.24	+16 49.4	1.742	2.639	11.3	20.7	149 E	62	47
3 12	9 7.89	+17 8.5	1.782	2.642	13.2	20.8	143 E	62	47
3 17	9 5.22	+17 24.1	1.828	2.644	14.9	20.9	137 E	62	47
3 22	9 3.26	+17 36.1	1.878	2.646	16.4	21.1	132 E	63	46
3 27	9 2.03	+17 44.7	1.933	2.648	17.7	21.2	126 E	63	46
4 1	9 1.54	+17 49.9	1.991	2.650	18.8	21.3	121 E	63	46
4 6	9 1.74	+17 51.9	2.051	2.651	19.8	21.4	116 E	63	46
4 11	9 2.61	+17 50.7	2.114	2.652	20.6	21.5	112 E	63	46
331769 2003 BQ_{35}									
12 23	10 9.00	+ 5 15.3	0.761	1.500	35.4	21.4	118 W	50	59
12 28	10 9.61	+ 5 41.4	0.735	1.516	32.9	21.3	123 W	51	58
1 2	10 8.88	+ 6 18.6	0.712	1.532	30.1	21.2	129 W	51	58
1 7	10 6.78	+ 7 7.3	0.690	1.548	26.9	21.1	135 W	52	57
1 12	10 3.28	+ 8 7.5	0.671	1.563	23.4	20.9	141 W	53	56
1 17	9 58.42	+ 9 18.5	0.656	1.577	19.6	20.8	147 W	54	55
1 22	9 52.29	+10 38.9	0.646	1.591	15.5	20.6	154 W	56	53
1 27	9 45.10	+12 6.4	0.640	1.605	11.1	20.4	162 W	57	52
2 1	9 37.15	+13 37.9	0.640	1.618	6.6	20.3	169 W	59	50
2 6	9 28.79	+15 9.7	0.646	1.631	2.0	20.1	177 W	60	49
2 11	9 20.43	+16 38.3	0.658	1.643	2.5	20.1	176 E	62	47
2 16	9 12.44	+18 0.7	0.675	1.655	6.9	20.5	168 E	63	46
2 21	9 5.17	+19 14.6	0.699	1.666	10.9	20.7	161 E	64	45
2 26	8 58.92	+20 18.5	0.728	1.677	14.7	21.0	155 E	65	44
3 2	8 53.88	+21 12.1	0.762	1.687	18.0	21.2	148 E	66	43
3 7	8 50.17	+21 55.3	0.800	1.697	21.0	21.4	142 E	67	42
82105 2001 FG_{26}									
12 23	10 9.71	+19 42.4	2.109	2.769	17.4	19.9	123 W	65	44
1 2	10 7.63	+20 13.9	1.995	2.765	15.0	19.7	133 W	65	44
1 12	10 2.64	+20 57.2	1.900	2.761	11.9	19.5	145 W	66	43
1 22	9 54.89	+21 48.2	1.826	2.756	8.3	19.3	156 W	67	42
1 27	9 50.11	+22 14.7	1.800	2.753	6.4	19.2	162 W	67	42
2 1	9 44.86	+22 40.8	1.780	2.750	4.6	19.0	167 W	68	41
2 6	9 39.28	+23 5.4	1.768	2.746	3.3	19.0	171 W	68	41
2 11	9 33.52	+23 27.8	1.764	2.742	3.3	18.9	171 E	68	41
2 16	9 27.72	+23 47.2	1.766	2.738	4.6	19.0	167 E	69	40
2 21	9 22.06	+24 3.0	1.777	2.734	6.4	19.1	162 E	69	40
2 26	9 16.68	+24 14.8	1.794	2.730	8.4	19.2	156 E	69	40
3 2	9 11.74	+24 22.5	1.818	2.725	10.3	19.3	150 E	69	40
3 7	9 7.35	+24 26.0	1.849	2.720	12.2	19.4	145 E	69	40
3 12	9 3.61	+24 25.4	1.885	2.715	13.9	19.5	139 E	69	40
3 22	8 58.24	+24 13.2	1.971	2.703	16.8	19.7	128 E	69	40
4 1	8 55.89	+23 48.1	2.072	2.691	19.1	19.9	118 E	69	40
4 11	8 56.44	+23 12.4	2.184	2.678	20.8	20.1	109 E	68	41
4 21	8 59.63	+22 27.9	2.302	2.664	21.8	20.2	100 E	67*	42
5 1	9 5.13	+21 35.8	2.422	2.649	22.3	20.3	92 E	63*	42
5 11	9 12.58	+20 36.9	2.542	2.633	22.4	20.4	84 E	56*	43
5 21	9 21.65	+19 31.7	2.658	2.616	22.1	20.5	77 E	49*	44*
5 31	9 32.07	+18 20.3	2.769	2.598	21.5	20.5	70 E	41*	44*
6 10	9 43.59	+17 2.9	2.873	2.579	20.6	20.6	63 E	34*	44*
6 20	9 56.02	+15 39.9	2.968	2.559	19.4	20.6	57 E	28*	42*
6 30	10 9.21	+14 11.1	3.055	2.539	18.1	20.6	51 E	22*	39*
7 10	10 23.02	+12 37.0	3.130	2.517	16.6	20.6	45 E	17*	36*
7 20	10 37.36	+10 57.8	3.196	2.495	15.0	20.5	39 E	13*	31*
7 30	10 52.17	+ 9 13.6	3.249	2.472	13.2	20.5	34 E	9*	27*
8 9	11 7.38	+ 7 25.0	3.291	2.448	11.4	20.4	28 E	7*	22*
8 19	11 22.98	+ 5 32.4	3.321	2.423	9.5	20.4	23 E	4*	17*
8 29	11 38.94	+ 3 36.0	3.338	2.397	7.5	20.3	18 E	2*	12*
9 8	11 55.25	+ 1 36.6	3.343	2.371	5.4	20.1	13 E	—	7*
9 18	12 11.94	− 0 25.4	3.336	2.344	3.3	20.0	8 E	—	2*
9 28	12 29.00	− 2 29.3	3.317	2.316	1.2	19.8	3 E	—	—
10 8	12 46.46	− 4 34.5	3.286	2.288	1.1	19.7	2 W	—	—
10 18	13 4.36	− 6 40.3	3.243	2.259	3.3	19.8	7 W	1*	—
10 28	13 22.71	− 8 45.8	3.190	2.229	5.5	19.9	12 W	5*	2*
11 7	13 41.56	−10 50.1	3.126	2.200	7.7	19.9	17 W	9*	6*
11 17	14 0.96	−12 52.5	3.052	2.169	9.9	19.9	22 W	13*	10*
11 27	14 20.92	−14 51.7	2.969	2.139	12.1	19.9	27 W	15*	15*
12 7	14 41.48	−16 46.9	2.878	2.108	14.3	19.9	32 W	18*	20*
12 17	15 2.69	−18 36.8	2.780	2.076	16.5	19.9	37 W	19*	25*
12 27	15 24.53	−20 20.4	2.675	2.045	18.6	19.8	41 W	19*	31*
1 6	15 47.03	−21 56.5	2.565	2.014	20.6	19.8	46 W	19*	36*
1 16	16 10.18	−23 24.0	2.451	1.983	22.6	19.7	51 W	19*	42*

231801 2000 EB_{20}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	10 10.74	− 9 57.0	1.998	2.521	21.4	20.3	111 W	35	74
12 28	10 11.56	−10 15.8	1.926	2.507	20.8	20.1	115 W	35	74
1 2	10 11.75	−10 29.7	1.855	2.493	20.0	20.0	120 W	35	74
1 7	10 11.29	−10 37.8	1.787	2.479	19.1	19.9	124 W	34	75
1 12	10 10.15	−10 39.6	1.722	2.464	18.0	19.8	129 W	34	75
1 17	10 8.34	−10 34.1	1.662	2.450	16.8	19.6	134 W	34	75
1 22	10 5.84	−10 20.6	1.605	2.435	15.4	19.5	139 W	35	74
2 1	9 58.97	− 9 26.9	1.507	2.405	12.2	19.2	149 W	36	73
2 11	9 50.13	− 7 55.9	1.432	2.373	9.2	19.0	157 W	37	72
2 21	9 40.28	− 5 49.5	1.384	2.342	7.8	18.8	161 E	39	70
2 26	9 35.37	− 4 35.3	1.370	2.326	8.3	18.8	160 E	40	69
3 2	9 30.70	− 3 15.8	1.364	2.309	9.6	18.8	157 E	42	67
3 7	9 26.42	− 1 52.7	1.364	2.293	11.3	18.9	153 E	43	66
3 12	9 22.69	− 0 28.0	1.371	2.276	13.3	18.9	148 E	45	64
3 17	9 19.59	+ 0 56.6	1.384	2.260	15.4	19.0	143 E	46	63
3 22	9 17.23	+ 2 19.5	1.402	2.243	17.4	19.1	138 E	47	62
3 27	9 15.67	+ 3 39.3	1.426	2.226	19.3	19.2	133 E	49	60
4 1	9 14.95	+ 4 54.8	1.454	2.209	21.1	19.3	127 E	50	59
4 6	9 15.07	+ 6 5.3	1.486	2.191	22.7	19.3	122 E	51	58
4 11	9 16.03	+ 7 10.0	1.520	2.174	24.1	19.4	118 E	52	57
4 21	9 20.33	+ 9 1.5	1.597	2.139	26.5	19.6	108 E	54*	55
5 1	9 27.58	+10 28.1	1.680	2.104	28.1	19.7	100 E	54*	54
5 11	9 37.42	+11 30.7	1.765	2.069	29.2	19.8	92 E	51*	52
5 21	9 49.47	+12 10.8	1.849	2.034	29.7	19.9	85 E	47*	52
5 31	10 3.42	+12 30.2	1.931	1.998	29.8	19.9	79 E	42*	51*
6 10	10 18.97	+12 30.6	2.008	1.963	29.6	20.0	73 E	37*	51*
6 20	10 35.88	+12 13.9	2.080	1.929	29.1	20.0	67 E	32*	49*
6 30	10 53.96	+11 41.5	2.146	1.895	28.3	20.0	62 E	28*	47*
7 10	11 13.06	+10 55.2	2.204	1.861	27.3	20.0	57 E	25*	45*
7 20	11 33.08	+ 9 56.3	2.256	1.829	26.2	20.0	53 E	22*	42*
7 30	11 53.94	+ 8 46.4	2.301	1.797	25.0	19.9	49 E	20*	39*
8 9	12 15.59	+ 7 27.1	2.338	1.767	23.8	19.9	45 E	19*	36*
8 19	12 38.03	+ 5 59.8	2.370	1.738	22.5	19.9	41 E	18*	32*
8 29	13 1.24	+ 4 26.4	2.395	1.711	21.2	19.8	38 E	17*	29*
9 8	13 25.23	+ 2 48.6	2.415	1.687	19.9	19.7	35 E	16*	26*
9 18	13 50.04	+ 1 8.4	2.431	1.664	18.6	19.7	32 E	16*	23*
9 28	14 15.67	− 0 31.9	2.443	1.644	17.4	19.6	29 E	16*	20*
10 8	14 42.12	− 2 10.1	2.453	1.627	16.2	19.6	27 E	15*	16*
10 18	15 9.40	− 3 43.7	2.461	1.612	15.1	19.5	25 E	15*	13*
10 28	15 37.46	− 5 10.0	2.468	1.601	14.0	19.5	23 E	15*	10*
11 7	16 6.25	− 6 26.4	2.476	1.593	13.0	19.4	21 E	14*	6*
11 17	16 35.65	− 7 30.7	2.484	1.589	12.1	19.4	20 E	13*	3*
11 27	17 5.53	− 8 20.6	2.495	1.587	11.2	19.4	18 E	12*	—
12 7	17 35.70	− 8 54.5	2.507	1.590	10.3	19.4	17 E	11*	—
12 17	18 5.97	− 9 11.5	2.522	1.595	9.5	19.4	16 E	9*	—
12 27	18 36.13	− 9 11.1	2.538	1.604	8.8	19.3	14 E	6*	—
1 6	19 5.96	− 8 53.8	2.556	1.617	8.2	19.4	14 W	4*	—
1 16	19 35.30	− 8 20.7	2.574	1.632	7.9	19.4	13 W	6*	—

298737 2004 GQ_{35}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	10 11.27	+ 4 54.5	1.672	2.297	22.3	21.2	117 W	50	59
1 2	10 12.53	+ 4 2.0	1.538	2.268	20.3	20.9	127 W	49	60
1 12	10 10.76	+ 3 23.8	1.417	2.239	17.4	20.6	137 W	48	61
1 22	10 5.77	+ 3 3.0	1.313	2.209	13.7	20.3	148 W	48	61
2 1	9 57.71	+ 3 1.9	1.230	2.178	9.3	20.0	159 W	48	61
2 11	9 47.30	+ 3 20.6	1.172	2.148	5.2	19.6	169 W	48	61
2 21	9 35.76	+ 3 56.0	1.139	2.117	5.5	19.6	168 E	49	60
2 26	9 30.06	+ 4 18.3	1.133	2.101	7.6	19.6	164 E	49	60
3 2	9 24.69	+ 4 42.3	1.133	2.085	10.2	19.7	158 E	50	59
3 7	9 19.85	+ 5 7.0	1.139	2.070	12.8	19.8	152 E	50	59
3 12	9 15.70	+ 5 31.5	1.150	2.054	15.4	19.9	147 E	51	58
3 17	9 12.36	+ 5 54.8	1.166	2.038	17.9	20.0	141 E	51	58
3 22	9 9.91	+ 6 16.4	1.187	2.022	20.2	20.1	136 E	51	58
4 1	9 7.91	+ 6 51.5	1.239	1.991	24.2	20.3	125 E	52	57
4 11	9 9.77	+ 7 13.3	1.301	1.960	27.3	20.5	116 E	52	57
4 21	9 15.19	+ 7 20.1	1.370	1.929	29.8	20.6	108 E	52*	57
5 1	9 23.79	+ 7 11.1	1.442	1.899	31.5	20.7	100 E	51*	57
5 11	9 35.12	+ 6 46.2	1.515	1.869	32.6	20.8	93 E	47*	57
5 21	9 48.72	+ 6 5.8	1.587	1.840	33.3	20.9	87 E	42*	58
5 31	10 4.26	+ 5 10.4	1.658	1.812	33.6	21.0	82 E	36*	59*
6 10	10 21.42	+ 4 0.8	1.725	1.785	33.6	21.0	76 E	31*	59*
6 20	10 39.95	+ 2 38.2	1.790	1.760	33.3	21.1	72 E	26*	58*
6 30	10 59.68	+ 1 3.6	1.851	1.736	32.7	21.1	67 E	21*	57*
7 10	11 20.46	− 0 41.4	1.909	1.714	32.0	21.1	63 E	18*	55*
7 20	11 42.19	− 2 35.1	1.964	1.693	31.2	21.1	60 E	15*	52*
7 30	12 4.82	− 4 35.9	2.016	1.675	30.2	21.1	56 E	12*	50*
8 9	12 28.31	− 6 41.3	2.066	1.659	29.0	21.1	53 E	10*	46*
8 19	12 52.65	− 8 49.2	2.114	1.646	27.8	21.1	49 E	9*	43*
8 29	13 17.84	−10 57.0	2.161	1.635	26.5	21.1	46 E	8*	40*

298737 2004 GQ_{35} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 8	13 43.86	−13 1.9	2.207	1.628	25.1	21.1	43 E	8*	37*
9 18	14 10.74	−15 1.1	2.252	1.623	23.6	21.1	40 E	7*	34*
9 28	14 38.43	−16 51.6	2.297	1.620	22.1	21.1	37 E	7*	31*
10 8	15 6.88	−18 30.5	2.342	1.621	20.5	21.1	35 E	7*	29*
10 18	15 36.02	−19 55.2	2.386	1.625	18.8	21.1	32 E	6*	26*
10 28	16 5.73	−21 3.2	2.431	1.632	17.0	21.1	29 E	6*	22*
11 7	16 35.82	−21 52.6	2.476	1.641	15.2	21.1	26 E	6*	19*
11 17	17 6.12	−22 21.8	2.520	1.653	13.4	21.1	23 E	6*	16*
11 27	17 36.40	−22 30.2	2.564	1.668	11.5	21.1	20 E	6*	12*
12 7	18 6.42	−22 17.6	2.606	1.685	9.5	21.0	16 E	5*	8*
12 17	18 35.99	−21 44.6	2.647	1.704	7.6	21.0	13 E	4*	5*
12 27	19 4.90	−20 52.5	2.686	1.726	5.6	21.0	10 E	2*	1*
1 6	19 33.00	−19 42.8	2.722	1.749	3.7	20.9	7 E	—	—
1 16	20 0.19	−18 17.6	2.755	1.774	1.9	20.9	3 E	—	—

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	10 12.06	+ 6 36.9	2.573	3.155	16.0	18.8	118 W	52	57
1 2	10 10.05	+ 6 42.4	2.459	3.167	14.1	18.7	129 W	52	57
1 12	10 5.80	+ 7 2.1	2.362	3.177	11.5	18.5	140 W	52	57
1 22	9 59.48	+ 7 35.5	2.288	3.187	8.5	18.3	152 W	53	56
2 1	9 51.50	+ 8 20.6	2.239	3.196	5.0	18.1	164 W	53	56
2 11	9 42.53	+ 9 13.7	2.220	3.204	1.7	17.9	175 W	54	55
2 16	9 37.93	+ 9 41.8	2.223	3.208	1.6	17.9	175 E	55	54
2 21	9 33.39	+10 10.1	2.233	3.211	3.1	18.0	170 E	55	54
2 26	9 29.03	+10 38.1	2.251	3.214	4.8	18.1	164 E	56	53
3 2	9 24.94	+11 5.1	2.276	3.217	6.6	18.2	158 E	56	53
3 12	9 17.94	+11 54.3	2.347	3.222	9.8	18.4	146 E	57	52
3 22	9 12.88	+12 34.9	2.443	3.227	12.6	18.6	135 E	58	51
4 1	9 10.03	+13 5.5	2.557	3.230	14.8	18.8	124 E	58	51
4 11	9 9.44	+13 25.3	2.686	3.232	16.4	19.0	114 E	58	51
4 21	9 10.98	+13 34.8	2.825	3.234	17.5	19.1	105 E	59*	50
5 1	9 14.47	+13 34.2	2.969	3.234	18.0	19.2	96 E	56*	50
5 11	9 19.66	+13 24.3	3.114	3.234	18.2	19.4	88 E	51*	51
5 21	9 26.31	+13 5.7	3.258	3.233	17.9	19.4	80 E	45*	51*
5 31	9 34.19	+12 39.1	3.397	3.231	17.4	19.5	72 E	38*	50*
6 10	9 43.09	+12 5.0	3.529	3.228	16.5	19.6	65 E	31*	48*
6 20	9 52.85	+11 24.2	3.652	3.224	15.4	19.6	58 E	24*	45*
6 30	10 3.30	+10 37.1	3.764	3.219	14.2	19.6	51 E	19*	41*
7 10	10 14.33	+ 9 44.4	3.865	3.213	12.7	19.6	44 E	14*	36*
7 20	10 25.82	+ 8 46.6	3.952	3.206	11.1	19.6	38 E	9*	31*
7 30	10 37.70	+ 7 44.1	4.025	3.198	9.4	19.6	31 E	6*	25*
8 9	10 49.87	+ 6 37.7	4.082	3.190	7.6	19.5	25 E	3*	19*
8 19	11 2.30	+ 5 27.8	4.124	3.180	5.8	19.4	18 E	—	12*
8 29	11 14.91	+ 4 15.1	4.150	3.170	3.8	19.4	12 E	—	6*
9 8	11 27.68	+ 3 0.1	4.159	3.159	1.9	19.2	6 E	—	—
9 18	11 40.55	+ 1 43.4	4.151	3.146	0.2	19.0	1 W	—	—
9 28	11 53.50	+ 0 25.7	4.126	3.133	2.1	19.2	7 W	—	—
10 8	12 6.47	− 0 52.2	4.084	3.119	4.1	19.3	13 W	6*	3*
10 18	12 19.45	− 2 9.9	4.026	3.104	6.1	19.4	19 W	12*	7*
10 28	12 32.36	− 3 26.4	3.951	3.088	8.1	19.4	26 W	17*	11*
11 7	12 45.18	− 4 41.1	3.860	3.071	10.0	19.4	33 W	23*	16*
11 17	12 57.83	− 5 53.3	3.755	3.053	11.8	19.4	39 W	27*	22*
11 27	13 10.24	− 7 1.9	3.635	3.035	13.5	19.4	46 W	31*	27*
12 7	13 22.31	− 8 6.3	3.504	3.015	15.1	19.4	53 W	33*	34*
12 17	13 33.95	− 9 5.5	3.361	2.995	16.6	19.3	60 W	35*	41*
12 27	13 44.99	− 9 58.7	3.208	2.973	17.8	19.2	67 W	35*	49*
1 6	13 55.29	−10 44.8	3.049	2.951	18.8	19.1	75 W	34	57*
1 16	14 4.66	−11 23.0	2.884	2.928	19.5	19.0	83 W	34	65*

35709 1999 FR_{28}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	10 12.35	+28 24.1	2.400	3.063	15.4	18.9	124 W	73	36
1 2	10 9.37	+29 16.2	2.298	3.068	13.2	18.7	134 W	74	35
1 12	10 3.57	+30 14.6	2.215	3.072	10.6	18.5	145 W	75	34
1 22	9 55.16	+31 13.2	2.157	3.074	7.9	18.4	155 W	76	33
1 27	9 50.14	+31 40.2	2.138	3.075	6.7	18.3	159 W	77	32
2 1	9 44.70	+32 4.5	2.126	3.076	5.8	18.2	162 W	77	32
2 6	9 38.99	+32 25.1	2.122	3.077	5.5	18.2	163 W	77	32
2 11	9 33.15	+32 41.4	2.125	3.077	5.8	18.2	162 E	78	31
2 16	9 27.32	+32 52.9	2.135	3.077	6.7	18.3	159 E	78	31
2 21	9 21.65	+32 59.2	2.153	3.077	7.8	18.4	155 E	78	31
2 26	9 16.29	+33 0.4	2.178	3.077	9.2	18.4	150 E	78	31
3 2	9 11.37	+32 56.5	2.209	3.076	10.6	18.5	145 E	78	31
3 7	9 6.98	+32 47.8	2.247	3.075	11.9	18.6	140 E	78	31
3 12	9 3.21	+32 34.7	2.290	3.074	13.2	18.7	135 E	78	31
3 22	8 57.67	+31 57.3	2.390	3.071	15.4	18.9	125 E	77	32
4 1	8 54.94	+31 8.0	2.505	3.067	17.1	19.0	115 E	76	33
4 11	8 54.91	+30 10.1	2.630	3.062	18.3	19.2	106 E	75	34
4 21	8 57.30	+29 5.9	2.762	3.057	19.0	19.3	97 E	73*	35
5 1	9 1.82	+27 57.0	2.896	3.050	19.3	19.4	89 E	68*	36

35709 1999 FR_{28} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 11	9 8.13	+26 44.3	3.029	3.042	19.2	19.5	81 E	60*	37
5 21	9 15.92	+25 28.2	3.158	3.034	18.7	19.6	74 E	52*	38*
5 31	9 24.93	+24 9.1	3.281	3.024	17.9	19.6	67 E	44*	38*
6 10	9 34.93	+22 46.9	3.397	3.014	16.9	19.6	60 E	37*	38*
6 20	9 45.73	+21 21.7	3.502	3.002	15.7	19.7	53 E	30*	36*
6 30	9 57.18	+19 53.5	3.597	2.990	14.3	19.7	47 E	24*	33*
7 10	10 9.14	+18 22.5	3.679	2.977	12.7	19.7	40 E	19*	29*
7 20	10 21.52	+16 48.6	3.749	2.963	11.1	19.6	34 E	14*	25*
7 30	10 34.23	+15 12.1	3.805	2.948	9.3	19.6	28 E	11*	20*
8 9	10 47.20	+13 33.1	3.846	2.932	7.5	19.5	22 E	7*	14*
8 19	11 0.40	+11 51.9	3.872	2.915	5.6	19.4	16 E	4*	9*
8 29	11 13.77	+10 8.8	3.883	2.897	3.7	19.3	11 E	2*	3*
9 8	11 27.28	+ 8 24.0	3.879	2.878	2.0	19.2	6 E	—	—
9 18	11 40.90	+ 6 38.0	3.858	2.858	1.7	19.1	5 W	—	—
9 28	11 54.61	+ 4 51.1	3.823	2.838	3.2	19.2	9 W	3*	—
10 8	12 8.38	+ 3 3.7	3.772	2.816	5.1	19.3	15 W	9*	—
10 18	12 22.20	+ 1 16.3	3.705	2.794	7.2	19.3	20 W	14*	5*
10 28	12 36.01	− 0 30.6	3.625	2.771	9.2	19.3	26 W	19*	9*
11 7	12 49.81	− 2 16.7	3.530	2.746	11.2	19.3	33 W	24*	14*
11 17	13 3.54	− 4 1.5	3.422	2.722	13.1	19.3	39 W	28*	19*
11 27	13 17.15	− 5 44.5	3.302	2.696	15.0	19.3	45 W	31*	25*
12 7	13 30.57	− 7 25.4	3.171	2.669	16.8	19.2	51 W	33*	32*
12 17	13 43.72	− 9 3.7	3.029	2.642	18.4	19.2	58 W	34*	39*
12 27	13 56.48	−10 39.3	2.880	2.613	19.9	19.1	65 W	34*	47*
1 6	14 8.73	−12 11.8	2.724	2.584	21.1	19.0	71 W	33*	55*
1 16	14 20.28	−13 41.3	2.563	2.554	22.2	18.8	78 W	31	63*

145720 1993 OX_7

12 23	10 13.18	+12 6.7	2.372	2.984	16.6	21.0	120 W	57	52
1 2	10 11.15	+12 37.7	2.281	3.014	14.4	20.9	131 W	58	51
1 12	10 6.71	+13 22.5	2.207	3.042	11.5	20.7	142 W	58	51
1 22	10 0.09	+14 18.6	2.155	3.070	8.1	20.6	154 W	59	50
2 1	9 51.78	+15 21.6	2.131	3.097	4.3	20.4	166 W	60	49
2 6	9 47.22	+15 54.0	2.130	3.110	2.4	20.3	172 W	61	48
2 11	9 42.55	+16 25.9	2.137	3.123	0.9	20.2	177 W	61	48
2 16	9 37.87	+16 56.7	2.152	3.136	1.9	20.3	174 E	62	47
2 21	9 33.30	+17 25.8	2.174	3.148	3.7	20.4	168 E	62	47
2 26	9 28.96	+17 52.5	2.204	3.161	5.5	20.6	162 E	63	46
3 2	9 24.94	+18 16.5	2.241	3.173	7.3	20.7	156 E	63	46
3 7	9 21.34	+18 37.6	2.285	3.185	8.9	20.8	150 E	64	45
3 12	9 18.21	+18 55.4	2.336	3.196	10.4	20.9	144 E	64	45
3 17	9 15.61	+19 10.1	2.392	3.208	11.8	21.0	139 E	64	45
3 22	9 13.56	+19 21.5	2.453	3.219	13.0	21.1	133 E	64	45
3 27	9 12.09	+19 29.9	2.519	3.230	14.1	21.3	128 E	64	45
4 1	9 11.20	+19 35.2	2.589	3.241	15.0	21.4	123 E	65	44
4 6	9 10.89	+19 37.6	2.662	3.252	15.8	21.4	118 E	65	44

36779 2000 SW_1

12 23	10 13.85	+ 7 29.3	2.422	3.010	16.8	20.3	118 W	52	57
1 2	10 12.45	+ 7 42.6	2.296	3.007	14.8	20.1	128 W	53	56
1 12	10 8.66	+ 8 11.6	2.186	3.004	12.2	19.9	140 W	53	56
1 22	10 2.57	+ 8 55.9	2.098	2.999	9.0	19.7	151 W	54	55
2 1	9 54.55	+ 9 53.3	2.035	2.994	5.3	19.5	164 W	55	54
2 6	9 50.01	+10 25.6	2.015	2.991	3.3	19.3	170 W	55	54
2 11	9 45.26	+10 59.3	2.002	2.987	1.4	19.2	176 W	56	53
2 16	9 40.41	+11 33.9	1.997	2.984	1.2	19.2	176 E	57	52
2 21	9 35.59	+12 8.4	2.000	2.980	3.2	19.3	170 E	57	52
2 26	9 30.91	+12 42.2	2.011	2.976	5.2	19.4	164 E	58	51
3 2	9 26.51	+13 14.5	2.029	2.971	7.1	19.5	158 E	58	51
3 12	9 18.92	+14 12.7	2.085	2.962	10.8	19.7	146 E	59	50
3 22	9 13.44	+14 59.7	2.165	2.951	13.9	19.9	135 E	60	49
4 1	9 10.42	+15 34.0	2.263	2.940	16.4	20.1	124 E	61	48
4 11	9 9.92	+15 55.5	2.375	2.928	18.2	20.3	114 E	61	48
4 21	9 11.82	+16 4.6	2.496	2.914	19.5	20.4	104 E	61*	48
5 1	9 15.90	+16 2.2	2.621	2.900	20.2	20.5	96 E	59*	48
5 11	9 21.90	+15 49.1	2.748	2.884	20.5	20.6	87 E	53*	48
5 21	9 29.54	+15 26.3	2.871	2.868	20.3	20.7	80 E	47*	48*
5 31	9 38.58	+14 54.4	2.991	2.851	19.8	20.7	72 E	40*	48*
6 10	9 48.77	+14 14.1	3.103	2.832	19.0	20.8	65 E	33*	47*
6 20	9 59.95	+13 26.2	3.206	2.813	17.9	20.8	59 E	27*	44*
6 30	10 11.94	+12 31.1	3.300	2.793	16.7	20.8	52 E	21*	41*
7 10	10 24.62	+11 29.4	3.383	2.771	15.2	20.8	46 E	17*	37*
7 20	10 37.88	+10 21.8	3.453	2.749	13.7	20.8	40 E	13*	32*
7 30	10 51.65	+ 9 8.7	3.511	2.726	11.9	20.7	34 E	9*	27*
8 9	11 5.84	+ 7 50.9	3.555	2.702	10.1	20.7	28 E	7*	21*
8 19	11 20.43	+ 6 28.8	3.586	2.677	8.2	20.6	22 E	4*	16*
8 29	11 35.37	+ 5 3.2	3.603	2.651	6.3	20.5	17 E	2*	10*
9 8	11 50.64	+ 3 34.7	3.606	2.624	4.3	20.4	11 E	—	5*
9 18	12 6.24	+ 2 4.0	3.594	2.597	2.3	20.2	6 E	—	—
9 28	12 22.15	+ 0 31.9	3.569	2.568	1.1	20.1	3 E	—	—

36779 2000 SW_1 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 8	12 38.37	− 1 0.9	3.529	2.539	2.5	20.1	6 W	—	—
10 18	12 54.91	− 2 33.5	3.477	2.509	4.6	20.2	12 W	5*	—
10 28	13 11.76	− 4 5.1	3.411	2.478	6.7	20.2	17 W	10*	3*
11 7	13 28.93	− 5 34.6	3.333	2.446	8.9	20.3	22 W	15*	7*
11 17	13 46.43	− 7 1.1	3.243	2.413	11.0	20.3	28 W	19*	11*
11 27	14 4.23	− 8 23.6	3.143	2.380	13.1	20.2	33 W	23*	16*
12 7	14 22.35	− 9 40.9	3.032	2.347	15.2	20.2	39 W	26*	21*
12 17	14 40.75	−10 52.2	2.913	2.312	17.3	20.2	44 W	28*	27*
12 27	14 59.39	−11 56.1	2.786	2.277	19.2	20.1	50 W	29*	33*
1 6	15 18.24	−12 51.6	2.653	2.242	21.1	20.0	55 W	30*	40*
1 16	15 37.24	−13 37.8	2.514	2.206	22.9	19.9	61 W	30*	46*

218323 2003 YM_{117}

12 23	10 13.99	+15 43.3	1.598	2.264	21.9	20.9	121 W	61	48
1 2	10 12.98	+16 29.1	1.522	2.293	18.8	20.7	131 W	61	48
1 12	10 8.55	+17 33.0	1.462	2.322	14.9	20.5	143 W	63	46
1 22	10 0.91	+18 50.1	1.422	2.349	10.3	20.3	155 W	64	45
1 27	9 56.07	+19 31.1	1.411	2.363	7.9	20.2	161 W	65	44
2 1	9 50.74	+20 12.1	1.407	2.376	5.5	20.1	167 W	65	44
2 6	9 45.09	+20 51.8	1.410	2.390	3.5	20.0	171 W	66	43
2 11	9 39.29	+21 28.9	1.420	2.403	2.9	20.0	173 W	66	43
2 16	9 33.53	+22 2.5	1.438	2.415	4.3	20.1	169 E	67	42
2 21	9 28.00	+22 31.9	1.462	2.428	6.5	20.2	164 E	68	41
2 26	9 22.86	+22 56.3	1.493	2.440	8.7	20.4	158 E	68	41
3 2	9 18.28	+23 15.6	1.531	2.453	10.8	20.6	152 E	68	41
3 7	9 14.37	+23 29.7	1.575	2.464	12.8	20.7	147 E	68	41
3 12	9 11.19	+23 38.8	1.624	2.476	14.6	20.8	141 E	69	40
3 17	9 8.78	+23 43.2	1.678	2.488	16.3	21.0	136 E	69	40
3 22	9 7.17	+23 43.2	1.736	2.499	17.7	21.1	130 E	69	40
3 27	9 6.35	+23 39.3	1.798	2.510	18.9	21.2	125 E	69	40
4 1	9 6.30	+23 31.7	1.863	2.521	20.0	21.4	120 E	69	40
4 6	9 6.98	+23 20.9	1.931	2.531	20.9	21.5	116 E	68	41

6490 1991 NR_2

12 23	10 14.40	− 1 44.4	3.213	3.722	14.0	20.8	114 W	43	66
1 2	10 11.87	− 2 22.9	3.075	3.715	12.7	20.6	124 W	43	66
1 12	10 7.44	− 2 50.3	2.952	3.708	10.9	20.5	134 W	42	67
1 22	10 1.25	− 3 5.2	2.850	3.699	8.8	20.3	145 W	42	67
2 1	9 53.59	− 3 6.5	2.774	3.690	6.5	20.1	155 W	42	67
2 11	9 44.99	− 2 54.5	2.727	3.680	4.6	20.0	163 W	42	67
2 21	9 36.09	− 2 30.8	2.710	3.669	4.4	20.0	164 E	42	67
3 2	9 27.58	− 1 58.2	2.724	3.657	6.1	20.1	157 E	43	66
3 12	9 20.14	− 1 20.4	2.768	3.644	8.4	20.2	147 E	44	65
3 22	9 14.25	− 0 41.3	2.837	3.631	10.8	20.3	137 E	44	65
4 1	9 10.24	− 0 4.3	2.927	3.616	12.8	20.5	127 E	45	64
4 11	9 8.23	+ 0 27.7	3.034	3.601	14.4	20.6	117 E	45	64
4 21	9 8.19	+ 0 52.8	3.152	3.585	15.5	20.7	108 E	46*	63
5 1	9 10.02	+ 1 9.8	3.277	3.568	16.2	20.8	98 E	44*	63
5 11	9 13.54	+ 1 17.8	3.405	3.550	16.5	20.9	90 E	40*	63
5 21	9 18.55	+ 1 16.9	3.531	3.531	16.5	21.0	82 E	34*	62*
5 31	9 24.87	+ 1 6.9	3.654	3.511	16.1	21.0	74 E	27*	60*
6 10	9 32.29	+ 0 48.1	3.769	3.491	15.5	21.0	67 E	21*	57*
6 20	9 40.67	+ 0 20.8	3.876	3.469	14.6	21.1	59 E	14*	52*
6 30	9 49.85	− 0 14.7	3.971	3.447	13.5	21.1	52 E	8*	46*
7 10	9 59.70	− 0 57.9	4.054	3.424	12.3	21.0	46 E	3*	40*
7 20	10 10.13	− 1 48.5	4.124	3.400	10.9	21.0	39 E	—	33*
7 30	10 21.03	− 2 46.0	4.178	3.375	9.5	21.0	33 E	—	26*
8 9	10 32.34	− 3 50.0	4.218	3.349	8.0	20.9	27 E	—	20*
8 19	10 43.99	− 5 0.0	4.241	3.322	6.5	20.8	22 E	—	13*
8 29	10 55.92	− 6 15.6	4.248	3.294	5.1	20.8	17 E	—	7*
9 8	11 8.09	− 7 36.3	4.238	3.266	4.1	20.7	13 E	—	—
9 18	11 20.45	− 9 1.8	4.211	3.236	3.8	20.6	12 W	—	4*
9 28	11 32.97	−10 31.5	4.168	3.206	4.4	20.6	14 W	—	8*
10 8	11 45.60	−12 5.0	4.109	3.175	5.6	20.6	18 W	2*	12*
10 18	11 58.32	−13 41.9	4.033	3.143	7.2	20.6	23 W	7*	16*
10 28	12 11.09	−15 21.7	3.943	3.110	8.9	20.6	29 W	11*	21*
11 7	12 23.84	−17 3.9	3.838	3.076	10.6	20.6	35 W	15*	26*
11 17	12 36.55	−18 48.1	3.719	3.041	12.3	20.6	41 W	18*	31*
11 27	12 49.12	−20 33.8	3.588	3.006	13.9	20.6	47 W	20*	37*
12 7	13 1.50	−22 20.7	3.446	2.969	15.5	20.5	54 W	21*	44*
12 17	13 13.58	−24 8.2	3.294	2.932	16.9	20.4	60 W	20*	51*
12 27	13 25.21	−25 56.0	3.135	2.894	18.2	20.3	67 W	19	59*
1 6	13 36.27	−27 43.5	2.970	2.855	19.3	20.2	74 W	17	67*
1 16	13 46.53	−29 30.5	2.800	2.815	20.2	20.1	81 W	15	75*

108297 2001 HK_{65}

12 23	10 14.65	+17 39.2	2.052	2.695	18.2	20.8	121 W	63	46
1 2	10 13.44	+18 1.0	1.929	2.685	15.9	20.5	132 W	63	46
1 12	10 9.29	+18 36.1	1.823	2.673	12.9	20.3	143 W	64	45
1 22	10 2.26	+19 21.3	1.739	2.661	9.2	20.0	154 W	64	45

108297 2001 HK_{65} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 27	9 57.76	+19 46.3	1.707	2.654	7.2	19.9	160 W	65	44
2 1	9 52.73	+20 11.6	1.681	2.648	5.1	19.8	166 W	65	44
2 6	9 47.29	+20 36.5	1.662	2.641	3.3	19.6	171 W	66	43
2 11	9 41.58	+20 59.9	1.651	2.634	2.5	19.6	173 W	66	43
2 16	9 35.76	+21 21.1	1.648	2.626	3.7	19.6	170 E	66	43
2 21	9 30.00	+21 39.3	1.651	2.619	5.6	19.7	165 E	67	42
2 26	9 24.46	+21 54.0	1.662	2.611	7.8	19.8	159 E	67	42
3 2	9 19.31	+22 4.8	1.680	2.603	9.9	19.9	153 E	67	42
3 7	9 14.69	+22 11.5	1.704	2.594	11.9	20.0	147 E	67	42
3 12	9 10.69	+22 14.2	1.733	2.586	13.8	20.1	141 E	67	42
3 22	9 4.85	+22 8.1	1.807	2.568	17.2	20.3	130 E	67	42
4 1	9 2.11	+21 48.0	1.897	2.549	19.8	20.5	120 E	67	42
4 11	9 2.46	+21 16.1	1.998	2.530	21.8	20.7	111 E	66	43
4 21	9 5.60	+20 34.2	2.105	2.510	23.1	20.8	102 E	65*	43
5 1	9 11.23	+19 43.3	2.215	2.488	23.8	20.9	93 E	62*	44
5 11	9 18.96	+18 44.4	2.324	2.466	24.1	21.0	86 E	56*	45
5 21	9 28.44	+17 37.9	2.431	2.444	24.0	21.1	79 E	48*	46*
5 31	9 39.41	+16 24.0	2.533	2.420	23.5	21.1	72 E	41*	47*
6 10	9 51.57	+15 3.0	2.629	2.396	22.7	21.2	66 E	34*	46*
6 20	10 4.75	+13 35.1	2.717	2.371	21.7	21.2	60 E	28*	45*
6 30	10 18.78	+12 0.5	2.797	2.345	20.5	21.2	54 E	22*	42*
7 10	10 33.52	+10 19.6	2.868	2.319	19.1	21.2	48 E	17*	39*
7 20	10 48.89	+ 8 32.5	2.929	2.292	17.6	21.2	43 E	13*	35*
7 30	11 4.82	+ 6 39.7	2.981	2.264	15.9	21.1	38 E	10*	31*
8 9	11 21.27	+ 4 41.7	3.022	2.236	14.2	21.1	33 E	7*	26*
8 19	11 38.23	+ 2 39.0	3.053	2.208	12.3	21.0	28 E	5*	22*
8 29	11 55.68	+ 0 32.2	3.073	2.179	10.4	20.9	23 E	2*	17*
9 8	12 13.64	− 1 38.0	3.083	2.150	8.4	20.8	18 E	1*	12*
9 18	12 32.13	− 3 50.8	3.084	2.120	6.4	20.7	14 E	—	8*
9 28	12 51.20	− 6 5.4	3.074	2.091	4.4	20.5	9 E	—	3*
10 8	13 10.89	− 8 20.6	3.055	2.061	2.3	20.4	5 E	—	—
10 18	13 31.26	−10 35.4	3.028	2.031	0.5	20.1	1 W	—	—
10 28	13 52.37	−12 48.5	2.991	2.002	2.1	20.2	4 W	—	—
11 7	14 14.27	−14 58.4	2.947	1.973	4.3	20.3	8 W	1*	1*
11 17	14 37.03	−17 3.5	2.896	1.944	6.4	20.3	13 W	4*	4*
11 27	15 0.70	−19 2.1	2.838	1.915	8.6	20.4	17 W	6*	8*
12 7	15 25.33	−20 52.2	2.775	1.887	10.7	20.4	21 W	9*	12*
12 17	15 50.92	−22 31.8	2.706	1.860	12.9	20.4	25 W	10*	16*
12 27	16 17.46	−23 58.8	2.633	1.834	15.0	20.4	29 W	11*	20*
1 6	16 44.90	−25 11.1	2.557	1.809	17.1	20.3	33 W	11*	25*
1 16	17 13.15	−26 6.8	2.479	1.785	19.1	20.3	36 W	11*	29*

220452 2003 YN_{117}

12 23	10 14.88	+19 41.7	1.567	2.245	21.9	21.0	122 W	65	44
1 2	10 12.57	+20 9.8	1.496	2.277	18.6	20.8	132 W	65	44
1 12	10 6.62	+20 51.2	1.441	2.309	14.6	20.6	144 W	66	43
1 22	9 57.36	+21 40.0	1.408	2.340	10.0	20.4	156 W	67	42
1 27	9 51.72	+22 4.8	1.400	2.355	7.6	20.3	162 W	67	42
2 1	9 45.62	+22 28.2	1.399	2.370	5.3	20.2	167 W	67	42
2 6	9 39.26	+22 49.2	1.405	2.384	3.7	20.2	171 W	68	41
2 11	9 32.84	+23 7.0	1.419	2.399	3.6	20.2	171 E	68	41
2 16	9 26.55	+23 20.8	1.439	2.413	5.1	20.3	167 E	68	41
2 21	9 20.59	+23 30.4	1.467	2.427	7.2	20.5	162 E	69	40
2 26	9 15.13	+23 35.4	1.501	2.440	9.4	20.6	156 E	69	40
3 2	9 10.31	+23 36.0	1.542	2.454	11.4	20.8	151 E	69	40
3 7	9 6.23	+23 32.3	1.588	2.467	13.4	20.9	145 E	69	40
3 12	9 2.96	+23 24.8	1.640	2.480	15.1	21.1	139 E	68	41
3 17	9 0.51	+23 13.8	1.696	2.493	16.7	21.2	134 E	68	41
3 22	8 58.88	+22 59.8	1.757	2.505	18.1	21.4	129 E	68	41
3 27	8 58.07	+22 43.0	1.821	2.517	19.2	21.5	124 E	68	41

61799 2000 QC_{184}

12 23	10 15.27	+14 40.4	2.169	2.794	17.7	20.2	120 W	60	49
1 2	10 13.39	+15 8.7	2.073	2.816	15.3	20.1	131 W	60	49
1 12	10 8.82	+15 50.7	1.995	2.837	12.3	19.9	142 W	61	48
1 22	10 1.76	+16 43.4	1.939	2.856	8.6	19.7	154 W	62	47
1 27	9 57.44	+17 12.3	1.920	2.866	6.7	19.6	160 W	62	47
2 1	9 52.72	+17 41.8	1.909	2.875	4.7	19.5	166 W	63	46
2 6	9 47.72	+18 11.1	1.905	2.885	2.7	19.4	172 W	63	46
2 11	9 42.58	+18 39.5	1.909	2.893	1.6	19.3	175 W	64	45
2 16	9 37.41	+19 6.1	1.920	2.902	2.6	19.4	172 E	64	45
2 21	9 32.36	+19 30.4	1.939	2.911	4.5	19.5	167 E	65	44
2 26	9 27.57	+19 51.8	1.966	2.919	6.4	19.7	161 E	65	44
3 2	9 23.15	+20 9.9	1.999	2.927	8.3	19.8	155 E	65	44
3 12	9 15.80	+20 35.8	2.085	2.942	11.7	20.1	143 E	66	43
3 22	9 10.83	+20 47.8	2.193	2.956	14.5	20.3	132 E	66	43
4 1	9 8.45	+20 47.1	2.319	2.970	16.6	20.5	122 E	66	43
4 11	9 8.60	+20 35.0	2.457	2.982	18.1	20.7	112 E	66	43
4 21	9 11.05	+20 13.1	2.603	2.994	19.1	20.8	103 E	65*	44

61799 2000 QC_{184} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	9 15.53	+19 42.7	2.753	3.004	19.5	21.0	94 E	62*	44
5 11	9 21.74	+19 4.9	2.904	3.014	19.5	21.1	86 E	56*	45
5 21	9 29.39	+18 20.3	3.053	3.023	19.2	21.2	79 E	49*	46*
5 31	9 38.22	+17 29.6	3.198	3.031	18.5	21.3	71 E	42*	46*
6 10	9 48.01	+16 33.3	3.336	3.037	17.5	21.3	64 E	35*	44*
6 20	9 58.58	+15 32.0	3.465	3.043	16.4	21.4	58 E	28*	42*
6 30	10 9.77	+14 26.0	3.585	3.048	15.0	21.4	51 E	22*	39*
7 10	10 21.46	+13 15.8	3.693	3.052	13.5	21.4	44 E	17*	35*
7 20	10 33.54	+12 2.0	3.789	3.055	11.9	21.4	38 E	13*	30*
7 30	10 45.93	+10 44.8	3.871	3.057	10.1	21.4	32 E	9*	25*
8 9	10 58.57	+ 9 24.8	3.940	3.058	8.3	21.4	26 E	6*	19*
8 19	11 11.39	+ 8 2.6	3.993	3.059	6.4	21.3	20 E	4*	13*
8 29	11 24.36	+ 6 38.5	4.030	3.058	4.5	21.2	14 E	1*	7*
9 8	11 37.42	+ 5 13.2	4.052	3.056	2.5	21.1	8 E	—	1*
9 18	11 50.56	+ 3 47.3	4.057	3.054	0.9	21.0	3 E	—	—
9 28	12 3.73	+ 2 21.2	4.045	3.050	1.9	21.1	6 W	—	—
10 8	12 16.89	+ 0 55.7	4.017	3.045	3.8	21.2	12 W	5*	—
10 18	12 30.01	− 0 28.6	3.973	3.040	5.8	21.3	18 W	11*	4*
10 28	12 43.05	− 1 51.2	3.912	3.033	7.7	21.3	24 W	17*	8*
11 7	12 55.95	− 3 11.1	3.835	3.026	9.6	21.4	31 W	22*	13*
11 17	13 8.67	− 4 28.0	3.743	3.018	11.5	21.4	37 W	27*	18*
11 27	13 21.10	− 5 40.8	3.637	3.009	13.2	21.4	44 W	31*	24*
12 7	13 33.17	− 6 49.1	3.518	2.998	14.8	21.3	51 W	34*	31*
12 17	13 44.76	− 7 52.0	3.388	2.987	16.2	21.3	58 W	35*	38*
12 27	13 55.74	− 8 48.7	3.246	2.975	17.5	21.2	65 W	36*	46*
1 6	14 5.93	− 9 38.7	3.097	2.962	18.5	21.2	73 W	35	54*
1 16	14 15.16	−10 21.1	2.942	2.948	19.2	21.1	81 W	35	62*

477386 2009 VU_{25}

12 23	10 15.89	−27 40.4	1.179	1.666	35.5	21.4	100 W	17	88
12 28	10 19.45	−29 43.3	1.148	1.667	35.2	21.4	103 W	15	86
1 2	10 22.19	−31 41.7	1.119	1.668	34.7	21.3	105 W	13	84
1 7	10 24.08	−33 34.4	1.090	1.670	34.2	21.2	107 W	11	82
1 12	10 25.03	−35 20.1	1.062	1.671	33.7	21.2	109 W	10	81
1 17	10 25.01	−36 57.3	1.036	1.673	33.1	21.1	112 W	8	79
1 22	10 23.96	−38 24.5	1.011	1.675	32.4	21.0	114 W	7	78
1 27	10 21.87	−39 39.7	0.988	1.677	31.7	20.9	116 W	5	76
2 1	10 18.80	−40 41.1	0.966	1.679	31.0	20.9	119 W	4	75
2 6	10 14.85	−41 26.9	0.946	1.682	30.2	20.8	121 W	4	75
2 11	10 10.17	−41 55.5	0.929	1.685	29.4	20.8	123 W	3	74
2 16	10 4.96	−42 5.7	0.913	1.687	28.6	20.7	125 W	3	74
2 21	9 59.48	−41 56.4	0.899	1.690	27.8	20.6	127 E	3	74
2 26	9 54.04	−41 27.1	0.888	1.693	27.2	20.6	129 E	4	75
3 2	9 48.94	−40 38.2	0.880	1.697	26.6	20.6	130 E	4	75
3 7	9 44.47	−39 30.8	0.875	1.700	26.1	20.6	131 E	5	76
3 12	9 40.87	−38 6.9	0.874	1.704	25.9	20.5	132 E	7	78
3 17	9 38.29	−36 28.8	0.875	1.707	25.8	20.5	132 E	9	80
3 22	9 36.84	−34 38.9	0.880	1.711	25.9	20.6	131 E	10	81
3 27	9 36.59	−32 40.3	0.889	1.715	26.2	20.6	131 E	12	83
4 1	9 37.54	−30 36.3	0.902	1.719	26.7	20.7	129 E	14	85
4 6	9 39.64	−28 29.8	0.918	1.723	27.3	20.7	128 E	17	88
4 11	9 42.82	−26 23.6	0.938	1.727	28.1	20.8	126 E	19	90
4 16	9 46.97	−24 20.0	0.961	1.732	28.9	20.9	124 E	21	88
4 21	9 52.02	−22 20.8	0.988	1.736	29.7	21.0	121 E	23	86
4 26	9 57.88	−20 27.7	1.018	1.740	30.5	21.1	119 E	25	84
5 1	10 4.44	−18 42.1	1.051	1.745	31.3	21.2	116 E	26*	83
5 6	10 11.63	−17 4.7	1.087	1.749	32.0	21.3	113 E	28*	81
5 11	10 19.34	−15 36.0	1.126	1.754	32.7	21.4	110 E	28*	80
5 16	10 27.50	−14 16.0	1.167	1.759	33.3	21.5	107 E	29*	78

363019 1996 TD_8

12 23	10 15.99	− 8 23.5	2.223	2.727	19.8	21.0	110 W	37	72
1 2	10 14.51	− 9 5.1	2.142	2.767	17.9	20.9	120 W	36	73
1 12	10 10.56	− 9 26.6	2.074	2.807	15.6	20.8	130 W	36	73
1 22	10 4.36	− 9 25.2	2.022	2.846	12.9	20.7	140 W	36	73
2 1	9 56.42	− 8 59.3	1.992	2.885	10.0	20.5	150 W	36	73
2 11	9 47.52	− 8 10.1	1.987	2.923	7.5	20.5	157 W	37	72
2 16	9 42.99	− 7 38.0	1.996	2.941	6.8	20.5	159 E	37	72
2 21	9 38.57	− 7 1.6	2.011	2.960	6.6	20.5	160 E	38	71
2 26	9 34.36	− 6 22.1	2.034	2.978	6.9	20.5	159 E	39	70
3 2	9 30.48	− 5 40.2	2.064	2.996	7.8	20.6	156 E	39	70
3 7	9 27.01	− 4 57.0	2.100	3.014	8.8	20.7	152 E	40	69
3 12	9 24.01	− 4 13.4	2.144	3.031	10.0	20.8	148 E	41	68
3 17	9 21.54	− 3 30.2	2.193	3.049	11.3	20.9	143 E	41	68
3 22	9 19.62	− 2 48.2	2.248	3.066	12.5	21.0	138 E	42	67
3 27	9 18.27	− 2 8.1	2.309	3.083	13.5	21.1	134 E	43	66
4 1	9 17.49	− 1 30.2	2.374	3.100	14.5	21.3	129 E	43	66
4 6	9 17.29	− 0 55.1	2.443	3.116	15.4	21.4	124 E	44	65
4 11	9 17.63	− 0 23.0	2.516	3.133	16.2	21.5	119 E	45	64