42887 1999 RV_{155}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 27	16 44.29	−23 36.7	2.942	2.070	10.6	20.0	23 W	8*	14*
1 6	17 8.39	−24 8.4	2.864	2.041	12.8	20.0	27 W	9*	19*
1 16	17 32.97	−24 26.4	2.778	2.012	15.0	20.0	32 W	11*	24*
1 26	17 57.90	−24 29.7	2.686	1.983	17.2	19.9	36 W	11*	29*
2 5	18 23.07	−24 17.7	2.589	1.953	19.3	19.9	41 W	12*	34*
2 15	18 48.36	−23 49.9	2.489	1.925	21.4	19.8	45 W	12*	39*
2 25	19 13.64	−23 6.1	2.384	1.896	23.4	19.8	49 W	13*	43*
3 7	19 38.79	−22 6.7	2.278	1.868	25.3	19.7	54 W	13*	47*
3 17	20 3.71	−20 52.1	2.170	1.841	27.2	19.6	58 W	14*	52*
3 27	20 28.28	−19 23.0	2.062	1.814	28.9	19.5	62 W	15*	56*
4 6	20 52.45	−17 40.5	1.955	1.789	30.6	19.4	65 W	16*	59*
4 16	21 16.13	−15 45.9	1.848	1.764	32.1	19.3	69 W	17*	63*
4 26	21 39.27	−13 40.6	1.743	1.742	33.6	19.2	73 W	19*	66*
5 6	22 1.83	−11 26.5	1.641	1.720	34.8	19.1	77 W	21*	69*
5 16	22 23.75	− 9 5.2	1.541	1.700	35.9	19.0	81 W	23*	70*
5 26	22 44.95	− 6 39.0	1.444	1.683	36.8	18.8	85 W	26*	70*
6 5	23 5.39	− 4 10.0	1.350	1.667	37.5	18.7	88 W	30*	68
6 15	23 24.91	− 1 40.6	1.260	1.653	37.9	18.5	93 W	34*	66
6 25	23 43.36	+ 0 46.4	1.174	1.642	37.9	18.3	97 W	39*	63
7 5	0 0.52	+ 3 8.7	1.092	1.634	37.6	18.2	102 W	44*	61
7 15	0 16.06	+ 5 22.9	1.014	1.628	36.8	18.0	107 W	49*	59
7 25	0 29.57	+ 7 26.0	0.940	1.624	35.4	17.8	112 W	52*	57
8 4	0 40.59	+ 9 14.5	0.873	1.624	33.3	17.6	119 W	54	55
8 14	0 48.52	+10 44.2	0.812	1.626	30.4	17.3	126 W	56	53
8 19	0 51.15	+11 20.6	0.784	1.628	28.6	17.2	130 W	56	53
8 24	0 52.83	+11 50.8	0.759	1.630	26.6	17.1	134 W	57	52
8 29	0 53.51	+12 14.2	0.736	1.634	24.3	16.9	138 W	57	52
9 3	0 53.18	+12 30.1	0.716	1.638	21.8	16.8	143 W	58	51
9 13	0 49.62	+12 38.4	0.687	1.648	16.1	16.5	153 W	58	51
9 23	0 43.00	+12 15.9	0.673	1.660	9.8	16.3	164 W	57	52
10 3	0 34.84	+11 28.2	0.678	1.675	4.5	16.1	172 E	56	53
10 8	0 30.78	+10 58.2	0.687	1.683	4.6	16.1	172 E	56	53
10 13	0 27.08	+10 26.4	0.702	1.692	6.8	16.3	169 E	55	54
10 18	0 23.94	+ 9 54.9	0.722	1.701	9.6	16.5	164 E	55	54
10 23	0 21.53	+ 9 25.2	0.746	1.710	12.5	16.7	158 E	54	55
10 28	0 19.95	+ 8 58.6	0.775	1.721	15.2	16.9	153 E	54	55
11 2	0 19.25	+ 8 36.3	0.808	1.731	17.8	17.1	148 E	54	55
11 12	0 20.62	+ 8 7.1	0.887	1.753	22.1	17.4	138 E	53	56
11 22	0 25.48	+ 8 0.3	0.979	1.777	25.5	17.8	129 E	53	56
12 2	0 33.36	+ 8 14.7	1.082	1.802	27.9	18.1	121 E	53	56
12 12	0 43.78	+ 8 47.9	1.196	1.828	29.6	18.4	114 E	54	55
12 22	0 56.26	+ 9 36.4	1.316	1.855	30.5	18.7	107 E	55	54*
1 1	1 10.37	+10 36.7	1.443	1.882	31.0	18.9	100 E	56	51*
1 11	1 25.83	+11 45.6	1.575	1.911	30.9	19.1	94 E	57	48*
1 21	1 42.37	+13 0.2	1.709	1.939	30.5	19.3	88 E	58	44*

452389 2002 NW_{16}

12 27	16 44.42	−29 46.1	1.913	1.079	20.9	20.7	23 W	3*	17*
1 1	17 6.41	−30 3.8	1.909	1.078	21.1	20.7	23 W	2*	17*
1 6	17 28.46	−30 8.1	1.905	1.077	21.3	20.7	23 W	2*	17*
1 11	17 50.48	−29 58.9	1.902	1.076	21.5	20.7	24 W	2*	18*
1 16	18 12.36	−29 36.3	1.899	1.076	21.7	20.7	24 W	2*	18*
1 21	18 34.00	−29 0.6	1.896	1.075	21.9	20.7	24 W	1*	18*
1 26	18 55.31	−28 12.4	1.893	1.075	22.1	20.7	24 W	1*	18*
1 31	19 16.24	−27 12.3	1.890	1.075	22.4	20.7	25 W	1*	19*
2 5	19 36.72	−26 0.9	1.888	1.076	22.6	20.7	25 W	2*	19*
2 10	19 56.73	−24 39.2	1.885	1.076	22.9	20.7	25 W	2*	19*
2 15	20 16.25	−23 8.1	1.883	1.077	23.1	20.7	25 W	2*	19*
2 20	20 35.27	−21 28.3	1.880	1.078	23.4	20.7	26 W	2*	20*
2 25	20 53.81	−19 40.9	1.877	1.079	23.7	20.7	26 W	3*	20*
3 2	21 11.88	−17 46.7	1.874	1.080	24.0	20.8	26 W	3*	20*
3 7	21 29.52	−15 46.5	1.872	1.081	24.3	20.8	27 W	4*	21*
3 12	21 46.78	−13 41.2	1.869	1.083	24.7	20.8	27 W	4*	21*
3 17	22 3.69	−11 31.7	1.866	1.084	25.0	20.8	27 W	5*	21*
3 22	22 20.29	− 9 18.6	1.863	1.086	25.3	20.8	28 W	5*	22*
3 27	22 36.64	− 7 2.8	1.860	1.088	25.7	20.8	28 W	6*	22*
4 1	22 52.78	− 4 45.0	1.857	1.090	26.0	20.8	29 W	6*	22*
4 6	23 8.78	− 2 25.7	1.854	1.092	26.3	20.8	29 W	7*	23*
4 11	23 24.67	− 0 5.8	1.851	1.095	26.7	20.8	29 W	8*	23*
4 16	23 40.52	+ 2 14.2	1.848	1.097	27.0	20.8	30 W	9*	23*
4 21	23 56.36	+ 4 33.5	1.845	1.099	27.3	20.9	30 W	9*	23*
4 26	0 12.24	+ 6 51.4	1.843	1.102	27.6	20.9	31 W	10*	23*
5 1	0 28.23	+ 9 7.5	1.840	1.104	28.0	20.9	31 W	11*	23*
5 6	0 44.36	+11 20.9	1.837	1.107	28.3	20.9	31 W	12*	23*
5 11	1 0.67	+13 31.0	1.834	1.109	28.6	20.9	32 W	12*	23*
5 16	1 17.22	+15 37.2	1.831	1.112	28.8	20.9	32 W	13*	23*
5 21	1 34.03	+17 38.7	1.828	1.114	29.1	20.9	32 W	14*	23*
5 26	1 51.14	+19 34.8	1.825	1.117	29.4	20.9	33 W	15*	22*
5 31	2 8.58	+21 24.8	1.822	1.119	29.6	20.9	33 W	16*	22*

452389 2002 NW_{16} *(continuation)*

6 5	2 26.38	+23 8.1	1.819	1.121	29.9	20.9	33 W	17*	22*
6 10	2 44.54	+24 43.9	1.816	1.124	30.1	21.0	34 W	18*	21*
6 15	3 3.08	+26 11.4	1.812	1.126	30.4	21.0	34 W	19*	20*
6 20	3 21.98	+27 30.0	1.809	1.128	30.6	21.0	34 W	20*	20*
6 25	3 41.22	+28 39.1	1.805	1.130	30.8	21.0	35 W	21*	19*
6 30	4 0.78	+29 38.1	1.801	1.132	31.1	21.0	35 W	22*	19*
7 5	4 20.62	+30 26.5	1.797	1.133	31.3	21.0	35 W	23*	18*
7 10	4 40.68	+31 3.9	1.792	1.135	31.6	21.0	36 W	24*	18*
7 15	5 0.90	+31 29.8	1.787	1.136	31.8	21.0	36 W	25*	17*
7 20	5 21.20	+31 44.2	1.782	1.138	32.0	21.0	36 W	26*	17*
7 25	5 41.50	+31 46.8	1.776	1.139	32.3	21.0	37 W	27*	16*
7 30	6 1.74	+31 37.8	1.769	1.140	32.6	21.0	37 W	28*	16*
8 4	6 21.84	+31 17.2	1.763	1.141	32.8	21.0	38 W	29*	16*
8 9	6 41.73	+30 45.4	1.755	1.141	33.1	21.0	38 W	29*	15*
8 14	7 1.34	+30 2.7	1.747	1.142	33.4	21.0	38 W	30*	15*
8 19	7 20.62	+29 9.4	1.738	1.142	33.8	21.0	39 W	31*	15*
8 24	7 39.54	+28 6.2	1.729	1.142	34.1	21.0	39 W	31*	15*
8 29	7 58.07	+26 53.5	1.719	1.142	34.4	21.0	40 W	32*	16*
9 3	8 16.21	+25 32.0	1.708	1.142	34.8	21.0	40 W	33*	16*
9 8	8 33.95	+24 2.1	1.697	1.142	35.2	21.0	41 W	33*	16*
9 13	8 51.29	+22 24.5	1.685	1.141	35.5	21.0	41 W	34*	17*
9 18	9 8.25	+20 39.9	1.673	1.141	35.9	21.0	42 W	34*	17*
9 23	9 24.86	+18 48.6	1.660	1.140	36.4	21.0	42 W	34*	18*
9 28	9 41.15	+16 51.3	1.646	1.139	36.8	21.0	43 W	35*	19*
10 3	9 57.15	+14 48.6	1.632	1.138	37.2	20.9	43 W	35*	20*
10 8	10 12.91	+12 40.8	1.618	1.137	37.7	20.9	44 W	35*	21*
10 13	10 28.45	+10 28.7	1.603	1.135	38.1	20.9	45 W	35*	22*
10 18	10 43.84	+ 8 12.6	1.588	1.134	38.6	20.9	45 W	35*	23*
10 23	10 59.11	+ 5 53.1	1.573	1.132	39.1	20.9	46 W	35*	24*
10 28	11 14.32	+ 3 30.7	1.557	1.130	39.5	20.9	46 W	35*	25*
11 2	11 29.53	+ 1 5.9	1.542	1.128	40.0	20.9	47 W	34*	26*
11 7	11 44.77	− 1 20.8	1.526	1.126	40.5	20.9	48 W	34*	28*
11 12	12 0.11	− 3 48.6	1.510	1.124	40.9	20.9	48 W	33*	29*
11 17	12 15.59	− 6 17.0	1.495	1.122	41.4	20.8	49 W	32*	31*
11 22	12 31.28	− 8 45.4	1.480	1.119	41.9	20.8	49 W	30*	33*
11 27	12 47.25	−11 13.0	1.465	1.117	42.3	20.8	50 W	29*	34*
12 2	13 3.54	−13 39.0	1.450	1.115	42.8	20.8	50 W	28*	36*
12 7	13 20.22	−16 2.5	1.436	1.112	43.2	20.8	51 W	26*	37*
12 12	13 37.34	−18 22.6	1.422	1.110	43.6	20.8	51 W	24*	39*
12 17	13 54.95	−20 38.3	1.409	1.107	44.0	20.8	51 W	22*	41*
12 22	14 13.12	−22 48.4	1.396	1.105	44.4	20.7	52 W	20*	42*
12 27	14 31.89	−24 51.9	1.384	1.102	44.8	20.7	52 W	18*	43*
1 1	14 51.29	−26 47.6	1.372	1.100	45.2	20.7	53 W	17*	44*
1 6	15 11.33	−28 34.2	1.361	1.097	45.6	20.7	53 W	15*	45*
1 11	15 32.03	−30 10.3	1.351	1.095	46.0	20.7	53 W	13*	46*
1 16	15 53.34	−31 34.8	1.341	1.093	46.3	20.7	53 W	12*	47*
1 21	16 15.24	−32 46.5	1.332	1.091	46.6	20.7	54 W	10*	48*

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12 27	16 44.61	−25 56.4	1.295	0.541	44.3	18.7	23 W	6*	15*
1 1	17 14.59	−29 20.2	1.366	0.575	38.5	18.8	21 W	2*	15*
1 6	17 45.38	−31 54.6	1.433	0.617	33.9	18.9	21 W	—	15*
1 11	18 16.19	−33 41.6	1.498	0.666	30.4	19.1	20 W	—	14*
1 16	18 46.32	−34 46.3	1.562	0.718	27.7	19.3	20 W	—	13*
1 21	19 15.21	−35 14.8	1.622	0.772	25.6	19.5	20 W	—	12*
1 26	19 42.51	−35 13.6	1.681	0.827	23.9	19.6	20 W	—	12*
1 31	20 8.03	−34 48.9	1.738	0.881	22.6	19.8	20 W	—	11*
2 5	20 31.73	−34 6.0	1.793	0.935	21.6	20.0	20 W	—	11*
2 10	20 53.67	−33 9.5	1.845	0.988	20.8	20.1	21 W	—	11*
2 15	21 13.95	−32 3.1	1.894	1.039	20.2	20.3	21 W	—	11*
2 20	21 32.71	−30 49.6	1.941	1.088	19.8	20.4	22 W	—	11*
2 25	21 50.11	−29 31.3	1.985	1.136	19.6	20.6	23 W	—	12*
3 2	22 6.29	−28 10.0	2.025	1.183	19.4	20.7	23 W	—	13*
3 7	22 21.40	−26 47.0	2.062	1.227	19.4	20.8	24 W	—	14*
3 12	22 35.57	−25 23.2	2.095	1.270	19.6	20.9	25 W	—	15*
3 17	22 48.89	−23 59.5	2.125	1.312	19.8	21.0	26 W	—	16*
3 22	23 1.47	−22 36.5	2.150	1.351	20.1	21.1	28 W	—	18*
3 27	23 13.39	−21 14.5	2.172	1.389	20.5	21.2	29 W	—	19*
4 1	23 24.73	−19 53.8	2.190	1.426	21.0	21.3	31 W	—	21*
4 6	23 35.55	−18 34.7	2.204	1.461	21.5	21.4	32 W	—	23*
4 11	23 45.89	−17 17.4	2.214	1.494	22.1	21.5	34 W	—	25*

125458 2001 WR_4

12 27	16 44.78	−16 13.4	3.309	2.446	9.5	20.4	24 W	14*	11*
1 6	17 3.96	−17 3.7	3.212	2.406	11.6	20.4	30 W	16*	18*
1 16	17 23.52	−17 45.9	3.106	2.367	13.7	20.3	35 W	17*	24*
1 26	17 43.39	−18 19.9	2.991	2.327	15.8	20.3	40 W	18*	31*
2 5	18 3.51	−18 45.7	2.868	2.287	17.9	20.2	45 W	19*	37*
2 15	18 23.84	−19 3.6	2.738	2.247	19.9	20.1	51 W	19*	43*
2 25	18 44.29	−19 13.8	2.603	2.206	21.8	20.1	56 W	19*	49*
3 7	19 4.81	−19 17.2	2.464	2.166	23.6	19.9	61 W	19*	54*
3 17	19 25.35	−19 14.7	2.322	2.126	25.4	19.8	66 W	20*	60*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
125458 2001 WR_4 *(continuation)*									
3 27	19 45.82	−19 7.5	2.179	2.087	26.9	19.7	71 W	20*	65*
4 6	20 6.20	−18 57.2	2.036	2.048	28.4	19.6	76 W	20*	70*
4 16	20 26.42	−18 45.8	1.894	2.009	29.6	19.4	82 W	20*	75*
4 26	20 46.42	−18 35.6	1.755	1.972	30.6	19.2	87 W	20*	79*
5 6	21 6.16	−18 29.4	1.619	1.935	31.4	19.0	92 W	21*	82*
5 16	21 25.55	−18 30.4	1.488	1.900	31.9	18.8	97 W	21*	83
5 26	21 44.48	−18 42.4	1.363	1.866	32.0	18.6	103 W	22*	83
6 5	22 2.83	−19 9.4	1.245	1.834	31.7	18.3	108 W	23*	83
6 15	22 20.38	−19 56.2	1.136	1.804	31.0	18.1	114 W	23*	84
6 25	22 36.87	−21 7.1	1.036	1.776	29.8	17.8	120 W	23*	85
7 5	22 51.94	−22 45.5	0.948	1.751	28.0	17.5	126 W	22*	87
7 15	23 5.08	−24 53.2	0.871	1.728	25.8	17.3	132 W	20	89
7 20	23 10.75	−26 7.5	0.839	1.718	24.5	17.1	135 W	19	90
7 25	23 15.74	−27 27.7	0.809	1.708	23.2	17.0	139 W	18	89
7 30	23 19.98	−28 52.7	0.784	1.700	21.9	16.9	141 W	16	87
8 4	23 23.37	−30 21.0	0.762	1.692	20.6	16.8	144 W	15	86
8 9	23 25.88	−31 50.3	0.744	1.685	19.5	16.7	146 W	13	84
8 14	23 27.48	−33 18.2	0.731	1.678	18.6	16.6	148 W	12	83
8 19	23 28.19	−34 41.7	0.721	1.673	18.0	16.5	149 W	10	81
8 24	23 28.08	−35 58.2	0.716	1.669	17.8	16.5	150 W	9	80
8 29	23 27.23	−37 5.0	0.714	1.665	18.0	16.5	149 W	8	79
9 3	23 25.79	−37 59.8	0.717	1.663	18.5	16.5	148 W	7	78
9 8	23 23.96	−38 40.4	0.723	1.661	19.4	16.6	147 W	6	77
9 13	23 21.95	−39 5.6	0.733	1.660	20.4	16.6	145 E	6	77
9 18	23 20.03	−39 14.8	0.747	1.660	21.7	16.7	142 E	6	77
9 23	23 18.40	−39 8.0	0.764	1.662	22.9	16.8	140 E	6	77
9 28	23 17.23	−38 46.1	0.784	1.664	24.2	16.9	137 E	6	77
10 3	23 16.67	−38 9.9	0.807	1.667	25.5	17.0	134 E	7	78
10 8	23 16.82	−37 20.6	0.833	1.671	26.7	17.1	131 E	8	79
10 13	23 17.76	−36 19.7	0.862	1.676	27.8	17.2	128 E	9	80
10 18	23 19.49	−35 8.9	0.893	1.681	28.8	17.3	126 E	10	81
10 23	23 21.99	−33 49.5	0.927	1.688	29.7	17.5	123 E	11	82
10 28	23 25.21	−32 23.0	0.963	1.695	30.5	17.6	120 E	13	84
11 2	23 29.10	−30 50.7	1.002	1.704	31.2	17.7	117 E	14	85
11 7	23 33.62	−29 13.5	1.043	1.713	31.7	17.8	115 E	16	87
11 12	23 38.70	−27 32.6	1.086	1.723	32.2	17.9	112 E	17	88
11 17	23 44.29	−25 48.8	1.131	1.733	32.5	18.0	109 E	19	90
11 22	23 50.31	−24 3.1	1.179	1.745	32.8	18.1	107 E	21	88
11 27	23 56.72	−22 16.0	1.228	1.757	33.0	18.3	104 E	23	86
12 2	0 3.47	−20 28.2	1.279	1.769	33.0	18.4	102 E	25	84
12 7	0 10.52	−18 40.1	1.333	1.783	33.0	18.5	99 E	26	83*
12 12	0 17.85	−16 52.3	1.388	1.796	33.0	18.6	97 E	28	80*
12 22	0 33.17	−13 18.8	1.503	1.826	32.6	18.8	92 E	32	73*
1 1	0 49.23	− 9 50.3	1.624	1.858	31.9	19.0	87 E	35	66*
1 11	1 5.89	− 6 28.6	1.750	1.891	31.0	19.1	82 E	39	60*
1 21	1 23.06	− 3 15.2	1.881	1.926	29.9	19.3	78 E	42*	54*
100485 Russelldavies									
12 27	16 45.17	−23 13.6	2.448	1.585	13.8	19.9	23 W	8*	14*
1 6	17 14.76	−24 17.5	2.443	1.617	15.4	20.0	26 W	9*	18*
1 16	17 43.88	−25 0.2	2.434	1.650	17.1	20.1	29 W	9*	22*
1 26	18 12.28	−25 22.7	2.419	1.685	18.7	20.2	33 W	9*	26*
2 5	18 39.79	−25 27.0	2.399	1.720	20.3	20.3	37 W	9*	31*
2 15	19 6.24	−25 15.4	2.372	1.756	21.8	20.4	41 W	9*	35*
2 25	19 31.48	−24 50.4	2.338	1.793	23.3	20.4	46 W	9*	40*
3 7	19 55.39	−24 14.7	2.298	1.830	24.6	20.5	50 W	10*	44*
3 17	20 17.91	−23 31.2	2.249	1.867	25.9	20.5	55 W	10*	49*
3 27	20 38.94	−22 42.9	2.194	1.904	27.0	20.5	60 W	11*	54*
4 6	20 58.43	−21 52.4	2.132	1.941	27.9	20.5	65 W	12*	59*
4 16	21 16.31	−21 2.7	2.063	1.978	28.7	20.5	71 W	13*	65*
4 26	21 32.46	−20 16.6	1.988	2.014	29.1	20.5	77 W	14*	71*
5 6	21 46.79	−19 36.7	1.908	2.049	29.3	20.4	83 W	16*	77*
5 16	21 59.12	−19 6.0	1.825	2.083	29.0	20.4	90 W	18*	82*
5 26	22 9.22	−18 47.0	1.739	2.117	28.3	20.3	97 W	20*	83
6 5	22 16.86	−18 42.4	1.654	2.150	27.1	20.2	105 W	22*	83
6 15	22 21.70	−18 54.2	1.572	2.182	25.3	20.0	113 W	24*	83
6 25	22 23.41	−19 23.7	1.496	2.214	22.8	19.9	122 W	25*	83
7 5	22 21.75	−20 10.5	1.429	2.244	19.6	19.7	132 W	25	84
7 15	22 16.57	−21 11.7	1.378	2.273	15.6	19.5	143 W	24	85
7 20	22 12.73	−21 46.0	1.358	2.287	13.4	19.4	148 W	23	86
7 25	22 8.14	−22 21.3	1.345	2.301	11.2	19.3	154 W	23	86
7 30	22 2.90	−22 56.6	1.337	2.315	8.9	19.3	159 W	22	87
8 4	21 57.14	−23 30.6	1.335	2.328	6.7	19.2	164 W	21	88
8 9	21 51.03	−24 2.1	1.339	2.341	5.0	19.1	168 W	21	88
8 14	21 44.76	−24 30.0	1.350	2.354	4.4	19.1	170 W	21	88
8 19	21 38.53	−24 53.5	1.368	2.366	5.3	19.2	168 E	20	89
8 24	21 32.54	−25 11.9	1.392	2.378	7.0	19.3	163 E	20	89
8 29	21 26.94	−25 24.9	1.423	2.390	9.0	19.5	158 E	20	89
9 3	21 21.89	−25 32.6	1.460	2.402	11.1	19.6	153 E	19	90
9 8	21 17.52	−25 35.1	1.502	2.413	13.0	19.8	147 E	19	90
9 13	21 13.90	−25 32.6	1.550	2.424	14.8	19.9	142 E	19	90

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
100485 Russelldavies *(continuation)*									
9 23	21 9.12	−25 14.6	1.660	2.445	17.8	20.2	132 E	20	89
10 3	21 7.59	−24 42.4	1.784	2.465	20.1	20.4	122 E	20	89
10 13	21 9.11	−23 58.7	1.921	2.484	21.7	20.6	113 E	21	88
10 23	21 13.31	−23 6.1	2.064	2.502	22.7	20.8	104 E	22	87
11 2	21 19.76	−22 6.0	2.213	2.518	23.1	21.0	96 E	23	86*
11 12	21 28.07	−20 59.3	2.363	2.533	23.0	21.2	88 E	24	79*
11 22	21 37.89	−19 46.8	2.512	2.547	22.5	21.3	81 E	25	70*
12 2	21 48.91	−18 28.8	2.658	2.559	21.7	21.4	74 E	27	62*
331811 2003 SU_{99}									
12 27	16 45.90	−16 48.2	2.998	2.135	10.7	20.6	24 W	13*	11*
1 6	17 9.16	−16 52.7	2.901	2.089	12.9	20.6	28 W	16*	16*
1 16	17 33.02	−16 42.6	2.798	2.043	15.2	20.5	33 W	17*	22*
1 26	17 57.37	−16 16.7	2.691	1.997	17.3	20.5	37 W	19*	27*
2 5	18 22.14	−15 33.9	2.582	1.953	19.5	20.4	41 W	20*	32*
2 15	18 47.24	−14 33.4	2.471	1.910	21.6	20.3	45 W	21*	36*
2 25	19 12.55	−13 14.9	2.360	1.868	23.6	20.2	49 W	22*	40*
3 7	19 37.98	−11 38.6	2.251	1.828	25.6	20.1	53 W	23*	44*
3 17	20 3.47	− 9 44.9	2.145	1.790	27.4	20.0	56 W	24*	47*
3 27	20 28.90	− 7 35.1	2.042	1.755	29.2	19.9	59 W	25*	50*
4 6	20 54.25	− 5 10.7	1.943	1.722	30.9	19.9	62 W	26*	53*
4 16	21 19.45	− 2 34.1	1.849	1.693	32.5	19.8	65 W	28*	55*
4 26	21 44.46	+ 0 11.9	1.760	1.667	34.0	19.7	68 W	30*	56*
5 6	22 9.25	+ 3 4.1	1.677	1.644	35.3	19.6	71 W	32*	56*
5 16	22 33.79	+ 5 58.7	1.599	1.626	36.5	19.5	73 W	34*	56*
5 26	22 58.01	+ 8 51.8	1.525	1.612	37.5	19.4	76 W	37*	54*
5 31	23 9.99	+10 16.5	1.490	1.607	38.0	19.3	77 W	39*	53*
6 5	23 21.86	+11 39.2	1.455	1.603	38.4	19.3	79 W	41*	52*
6 10	23 33.61	+12 59.6	1.422	1.600	38.7	19.2	80 W	43*	51*
6 15	23 45.21	+14 17.0	1.389	1.598	39.0	19.2	82 W	45*	50
6 20	23 56.63	+15 30.8	1.357	1.598	39.2	19.1	83 W	47*	48
6 25	0 7.87	+16 40.8	1.326	1.598	39.3	19.1	85 W	49*	47
6 30	0 18.88	+17 46.4	1.295	1.600	39.4	19.0	87 W	52*	46
7 5	0 29.64	+18 47.2	1.264	1.603	39.3	19.0	89 W	54*	45
7 10	0 40.08	+19 42.7	1.234	1.607	39.2	18.9	91 W	57*	44
7 15	0 50.17	+20 32.5	1.204	1.613	39.0	18.9	93 W	60*	43
7 20	0 59.84	+21 16.1	1.175	1.619	38.7	18.8	95 W	62*	43
7 25	1 9.06	+21 53.3	1.146	1.627	38.3	18.8	97 W	64*	42
7 30	1 17.75	+22 23.6	1.117	1.636	37.7	18.7	100 W	66*	42
8 4	1 25.84	+22 46.7	1.089	1.645	37.0	18.7	103 W	67*	41
8 9	1 33.26	+23 2.2	1.061	1.656	36.1	18.6	106 W	68*	41
8 14	1 39.93	+23 9.6	1.034	1.668	35.0	18.5	109 W	68	41
8 19	1 45.78	+23 8.5	1.008	1.681	33.8	18.5	113 W	68	41
8 24	1 50.75	+22 58.7	0.983	1.694	32.3	18.4	116 W	68	41
8 29	1 54.78	+22 39.7	0.959	1.709	30.7	18.3	120 W	68	41
9 3	1 57.81	+22 11.4	0.937	1.724	28.8	18.2	125 W	67	42
9 13	2 0.76	+20 45.6	0.899	1.757	24.2	18.0	134 W	66	43
9 23	1 59.73	+18 42.2	0.875	1.792	18.7	17.8	145 W	64	45
10 3	1 55.38	+16 7.3	0.867	1.830	12.4	17.6	157 W	61	48
10 8	1 52.31	+14 41.9	0.871	1.850	9.0	17.5	163 W	60	49
10 13	1 48.91	+13 13.9	0.880	1.870	5.6	17.4	169 W	58	51
10 18	1 45.39	+11 46.0	0.896	1.891	2.2	17.3	176 W	57	52
10 23	1 41.96	+10 20.6	0.917	1.912	1.1	17.3	178 E	55	54
10 28	1 38.78	+ 8 59.8	0.945	1.933	4.3	17.6	172 E	54	55
11 2	1 36.00	+ 7 45.7	0.978	1.955	7.3	17.8	165 E	53	56
11 7	1 33.77	+ 6 39.5	1.018	1.977	10.1	18.1	159 E	52	57
11 12	1 32.16	+ 5 42.2	1.063	1.999	12.7	18.3	154 E	51	58
11 22	1 31.00	+ 4 15.7	1.169	2.045	17.0	18.7	143 E	49	60
12 2	1 32.58	+ 3 24.7	1.293	2.091	20.3	19.1	133 E	48	61
12 12	1 36.73	+ 3 4.8	1.431	2.137	22.6	19.4	123 E	48	61
12 17	1 39.68	+ 3 4.7	1.505	2.161	23.5	19.6	119 E	48	61
12 22	1 43.13	+ 3 10.1	1.581	2.184	24.1	19.7	115 E	48	61
12 27	1 47.06	+ 3 20.4	1.659	2.208	24.6	19.9	111 E	48	61
1 1	1 51.41	+ 3 34.8	1.739	2.232	25.0	20.0	107 E	49	60*
1 6	1 56.16	+ 3 52.8	1.821	2.255	25.1	20.1	103 E	49	59*
1 11	2 1.27	+ 4 13.8	1.905	2.279	25.2	20.2	99 E	49	58*
1 16	2 6.70	+ 4 37.4	1.989	2.303	25.2	20.4	96 E	50	57*
1 21	2 12.41	+ 5 2.9	2.074	2.326	25.0	20.5	92 E	50	55*
284423 2007 AR_{17}									
12 27	16 45.98	− 6 7.7	2.550	1.757	15.8	20.5	29 W	22*	7*
1 6	17 11.25	− 7 0.1	2.537	1.782	17.0	20.6	32 W	24*	12*
1 16	17 35.86	− 7 38.4	2.520	1.808	18.3	20.6	35 W	25*	17*
1 26	17 59.68	− 8 3.3	2.497	1.836	19.6	20.7	39 W	25*	23*
2 5	18 22.63	− 8 16.1	2.468	1.865	21.0	20.7	43 W	26*	29*
2 15	18 44.60	− 8 18.2	2.431	1.895	22.3	20.8	47 W	27*	34*
2 25	19 5.49	− 8 11.3	2.387	1.926	23.6	20.8	51 W	27*	40*
3 7	19 25.22	− 7 57.6	2.335	1.957	24.8	20.8	56 W	27*	45*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
284423 2007 AR_{17} *(continuation)*									
3 17	19 43.71	− 7 39.1	2.275	1.989	25.9	20.9	61 W	28*	51*
3 27	20 0.84	− 7 18.4	2.207	2.021	26.8	20.9	66 W	29*	56*
4 6	20 16.52	− 6 58.1	2.132	2.053	27.6	20.8	72 W	30*	61*
4 16	20 30.63	− 6 40.8	2.051	2.086	28.1	20.8	78 W	31*	66*
4 26	20 42.98	− 6 29.9	1.964	2.118	28.2	20.7	84 W	32*	69*
5 6	20 53.41	− 6 28.5	1.874	2.151	28.0	20.7	91 W	33*	70
5 16	21 1.68	− 6 40.5	1.782	2.183	27.2	20.6	99 W	34*	71
5 26	21 7.53	− 7 9.7	1.691	2.214	25.9	20.4	107 W	36*	71
6 5	21 10.68	− 8 0.2	1.603	2.246	23.9	20.3	116 W	36*	72
6 15	21 10.88	− 9 15.1	1.524	2.277	21.1	20.1	126 W	36*	73
6 25	21 7.98	−10 56.2	1.458	2.307	17.5	20.0	137 W	34	75
7 5	21 2.06	−13 2.1	1.409	2.337	13.1	19.8	149 W	32	77
7 10	20 58.08	−14 12.7	1.393	2.352	10.7	19.7	155 W	31	78
7 15	20 53.52	−15 27.1	1.383	2.367	8.1	19.5	161 W	30	79
7 20	20 48.52	−16 43.7	1.380	2.381	5.4	19.4	167 W	28	81
7 25	20 43.23	−18 1.1	1.383	2.395	2.7	19.3	174 W	27	82
7 30	20 37.78	−19 17.6	1.394	2.410	0.3	19.1	179 W	26	83
8 4	20 32.36	−20 31.7	1.413	2.424	2.7	19.4	174 E	24	85
8 9	20 27.13	−21 42.2	1.438	2.437	5.3	19.6	167 E	23	86
8 14	20 22.25	−22 47.8	1.471	2.451	7.7	19.7	161 E	22	87
8 19	20 17.87	−23 47.9	1.510	2.464	10.0	19.9	155 E	21	88
8 24	20 14.10	−24 42.0	1.555	2.477	12.1	20.1	149 E	20	89
9 3	20 8.66	−26 11.9	1.661	2.503	15.7	20.4	138 E	19	90
9 13	20 6.30	−27 18.5	1.787	2.528	18.4	20.6	127 E	18	89
9 23	20 7.03	−28 4.2	1.925	2.553	20.4	20.9	118 E	17	88
10 3	20 10.60	−28 32.1	2.074	2.576	21.6	21.1	109 E	16	87
10 13	20 16.68	−28 44.8	2.229	2.598	22.2	21.3	100 E	16	87
10 23	20 24.89	−28 44.5	2.387	2.620	22.3	21.5	92 E	16	86*
144922 2005 CK_{38}									
12 27	16 47.03	−26 4.1	2.125	1.268	16.9	20.4	22 W	5*	15*
1 1	17 6.64	−26 47.6	2.125	1.276	17.3	20.4	23 W	5*	16*
1 6	17 26.27	−27 21.1	2.126	1.285	17.7	20.4	23 W	5*	17*
1 11	17 45.82	−27 44.6	2.129	1.296	18.1	20.4	24 W	4*	18*
1 16	18 5.22	−27 58.3	2.133	1.309	18.5	20.5	25 W	4*	19*
1 26	18 43.21	−27 57.3	2.142	1.339	19.4	20.6	27 W	3*	21*
2 5	19 19.66	−27 22.1	2.153	1.374	20.3	20.7	29 W	3*	23*
2 15	19 54.17	−26 18.1	2.163	1.414	21.2	20.8	31 W	2*	25*
2 25	20 26.48	−24 51.3	2.172	1.457	22.2	20.9	34 W	3*	28*
3 7	20 56.53	−23 7.8	2.178	1.504	23.2	21.0	37 W	3*	30*
3 17	21 24.37	−21 12.9	2.180	1.553	24.2	21.1	40 W	3*	34*
3 27	21 50.07	−19 11.5	2.175	1.604	25.3	21.2	43 W	4*	37*
4 6	22 13.77	−17 7.4	2.164	1.655	26.3	21.3	47 W	5*	41*
4 16	22 35.60	−15 3.9	2.146	1.708	27.3	21.3	51 W	7*	45*
4 26	22 55.64	−13 3.8	2.119	1.761	28.2	21.4	56 W	8*	50*
5 6	23 13.99	−11 9.1	2.084	1.814	28.9	21.5	61 W	11*	54*
5 16	23 30.65	− 9 21.7	2.041	1.867	29.6	21.5	66 W	14*	59*
2078 Nanking									
12 27	16 47.13	−32 32.4	3.750	2.872	7.7	18.7	23 W	—	17*
1 6	17 5.09	−32 44.4	3.664	2.843	9.6	18.7	29 W	2*	23*
1 16	17 23.02	−32 50.3	3.563	2.813	11.5	18.7	35 W	4*	29*
1 26	17 40.77	−32 49.8	3.449	2.782	13.4	18.7	41 W	5*	35*
2 5	17 58.23	−32 42.7	3.323	2.750	15.3	18.6	47 W	7*	41*
2 15	18 15.29	−32 29.3	3.185	2.717	17.0	18.6	54 W	8*	47*
2 25	18 31.77	−32 9.7	3.038	2.682	18.6	18.5	60 W	8*	54*
3 7	18 47.55	−31 44.2	2.883	2.647	20.1	18.4	66 W	9*	60*
3 17	19 2.45	−31 13.3	2.721	2.611	21.4	18.3	73 W	10*	66*
3 27	19 16.28	−30 37.6	2.555	2.574	22.4	18.2	80 W	11*	73*
4 6	19 28.84	−29 57.8	2.386	2.536	23.2	18.0	87 W	12*	80*
4 16	19 39.89	−29 14.4	2.216	2.497	23.6	17.8	94 W	14*	86*
4 26	19 49.13	−28 28.0	2.048	2.457	23.6	17.6	102 W	15*	88
5 6	19 56.24	−27 39.0	1.884	2.417	23.2	17.4	110 W	16*	88
5 16	20 0.82	−26 47.5	1.726	2.375	22.1	17.1	118 W	18*	89
5 26	20 2.44	−25 53.2	1.578	2.333	20.3	16.8	127 W	19*	90
6 5	20 0.71	−24 54.7	1.442	2.290	17.6	16.5	137 W	20	89
6 15	19 55.29	−23 50.2	1.323	2.247	14.1	16.2	148 W	21	88
6 25	19 46.21	−22 37.2	1.224	2.203	9.5	15.8	159 W	22	87
7 5	19 33.99	−21 13.3	1.148	2.158	4.2	15.3	171 W	24	85
7 10	19 27.02	−20 27.2	1.120	2.136	1.4	15.1	177 W	25	84
7 15	19 19.75	−19 38.5	1.099	2.114	2.1	15.1	176 E	25	84
7 20	19 12.43	−18 47.7	1.084	2.091	5.2	15.2	169 E	26	83
7 25	19 5.29	−17 55.7	1.076	2.068	8.3	15.3	163 E	27	82
7 30	18 58.56	−17 3.0	1.074	2.046	11.4	15.4	157 E	28	81
8 4	18 52.45	−16 10.8	1.078	2.023	14.3	15.5	150 E	29	80
8 9	18 47.13	−15 19.8	1.087	2.001	17.2	15.6	144 E	30	79
8 14	18 42.75	−14 30.8	1.101	1.978	19.8	15.7	139 E	30	79

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2078 Nanking *(continuation)*									
8 24	18 37.13	−13 0.1	1.141	1.933	24.4	15.9	128 E	32	77
9 3	18 35.81	−11 40.3	1.193	1.889	28.2	16.0	118 E	33	76
9 13	18 38.66	−10 30.2	1.251	1.845	31.0	16.1	109 E	34	75
9 23	18 45.33	− 9 26.6	1.313	1.802	33.1	16.3	101 E	36	73
10 3	18 55.35	− 8 26.2	1.375	1.760	34.5	16.3	94 E	37	72*
10 13	19 8.33	− 7 25.1	1.435	1.720	35.4	16.4	88 E	38*	68*
10 23	19 23.89	− 6 20.0	1.492	1.681	35.9	16.5	82 E	39*	63*
11 2	19 41.70	− 5 8.1	1.546	1.645	36.1	16.5	77 E	40*	58*
11 12	20 1.51	− 3 46.9	1.595	1.612	36.0	16.5	73 E	41*	52*
11 22	20 23.08	− 2 14.8	1.639	1.581	35.7	16.5	69 E	42*	45*
12 2	20 46.23	− 0 30.9	1.681	1.554	35.2	16.5	65 E	43*	40*
12 12	21 10.81	+ 1 25.3	1.720	1.530	34.7	16.5	62 E	44*	34*
12 22	21 36.67	+ 3 33.1	1.757	1.511	34.0	16.5	59 E	45*	29*
1 1	22 3.70	+ 5 51.0	1.793	1.496	33.3	16.5	57 E	45*	24*
1 11	22 31.83	+ 8 16.9	1.831	1.486	32.4	16.5	54 E	45*	20*
1 21	23 0.93	+10 47.7	1.870	1.481	31.5	16.6	52 E	44*	17*
27057 1998 SP_{33}									
12 27	16 47.86	−26 5.2	3.753	2.864	7.3	20.1	22 W	5*	15*
1 6	17 4.29	−26 34.6	3.705	2.877	9.3	20.2	28 W	8*	21*
1 16	17 20.39	−26 58.2	3.641	2.888	11.2	20.2	35 W	10*	28*
1 26	17 36.01	−27 16.4	3.562	2.899	13.0	20.2	41 W	11*	35*
2 5	17 51.04	−27 29.8	3.470	2.908	14.6	20.2	48 W	12*	42*
2 15	18 5.34	−27 39.1	3.366	2.917	16.1	20.2	55 W	13*	49*
2 25	18 18.73	−27 45.2	3.250	2.924	17.4	20.2	62 W	14*	56*
3 7	18 31.05	−27 49.1	3.126	2.930	18.5	20.2	70 W	14*	64*
3 17	18 42.12	−27 52.1	2.994	2.935	19.3	20.1	77 W	15*	71*
3 27	18 51.71	−27 55.5	2.857	2.940	19.8	20.0	85 W	15*	79*
4 6	18 59.60	−28 0.4	2.717	2.943	19.9	19.9	93 W	16*	86*
4 16	19 5.52	−28 8.2	2.577	2.945	19.5	19.8	101 W	16*	88
4 26	19 9.19	−28 19.8	2.441	2.946	18.7	19.6	110 W	16*	88
5 6	19 10.35	−28 35.6	2.313	2.946	17.3	19.5	120 W	16*	87
5 16	19 8.77	−28 55.5	2.195	2.945	15.3	19.3	130 W	16	87
5 26	19 4.33	−29 18.0	2.093	2.943	12.7	19.1	140 W	16	87
6 5	18 57.14	−29 40.7	2.011	2.940	9.6	18.9	151 W	15	86
6 10	18 52.61	−29 51.0	1.979	2.938	7.9	18.8	157 W	15	86
6 15	18 47.57	−30 0.1	1.953	2.936	6.1	18.7	162 W	15	86
6 20	18 42.12	−30 7.4	1.934	2.934	4.4	18.6	167 W	15	86
6 25	18 36.40	−30 12.7	1.922	2.931	2.9	18.5	172 W	15	86
6 30	18 30.54	−30 15.7	1.917	2.928	2.5	18.4	173 E	15	86
7 5	18 24.68	−30 16.1	1.919	2.925	3.5	18.5	170 E	15	86
7 10	18 18.97	−30 14.1	1.928	2.922	5.2	18.6	165 E	15	86
7 15	18 13.56	−30 9.7	1.945	2.918	7.0	18.7	159 E	15	86
7 20	18 8.57	−30 3.2	1.967	2.914	8.8	18.8	154 E	15	86
7 25	18 4.12	−29 55.0	1.996	2.910	10.6	18.9	148 E	15	86
7 30	18 0.28	−29 45.3	2.031	2.905	12.2	19.0	143 E	15	86
8 4	17 57.10	−29 34.7	2.071	2.901	13.7	19.1	137 E	15	86
8 14	17 52.91	−29 11.8	2.164	2.890	16.2	19.3	127 E	16	87
8 24	17 51.66	−28 48.6	2.272	2.879	18.2	19.4	117 E	16	87
9 3	17 53.19	−28 26.3	2.390	2.867	19.6	19.6	108 E	17*	88
9 13	17 57.30	−28 5.3	2.514	2.854	20.4	19.7	99 E	17*	88
9 23	18 3.70	−27 45.2	2.640	2.839	20.7	19.8	91 E	17*	85*
10 3	18 12.09	−27 25.2	2.765	2.824	20.6	19.9	83 E	17*	77*
10 13	18 22.22	−27 4.3	2.888	2.808	20.1	19.9	75 E	17*	69*
10 23	18 33.82	−26 41.3	3.004	2.790	19.3	20.0	68 E	17*	62*
11 2	18 46.66	−26 15.2	3.113	2.772	18.3	20.0	61 E	17*	54*
11 12	19 0.56	−25 44.9	3.212	2.753	17.0	20.0	54 E	16*	47*
11 22	19 15.34	−25 9.7	3.301	2.732	15.5	20.0	47 E	16*	40*
12 2	19 30.82	−24 28.7	3.377	2.711	13.8	20.0	41 E	15*	33*
12 12	19 46.88	−23 41.5	3.441	2.689	12.0	20.0	35 E	14*	26*
12 22	20 3.38	−22 47.6	3.491	2.665	10.1	19.9	28 E	12*	19*
1 1	20 20.21	−21 46.9	3.526	2.641	8.1	19.8	22 E	9*	13*
1 11	20 37.28	−20 39.2	3.547	2.616	6.0	19.7	16 E	5*	8*
1 21	20 54.51	−19 24.7	3.552	2.590	3.9	19.6	10 E	1*	3*
188174 2002 JC									
12 27	16 47.96	−13 18.9	1.869	1.059	22.9	20.0	25 W	16*	9*
1 6	17 21.12	−16 48.6	1.809	1.016	24.8	19.9	26 W	14*	14*
1 16	17 57.91	−20 10.1	1.740	0.965	27.0	19.7	26 W	11*	17*
1 26	18 39.69	−23 14.9	1.666	0.904	29.4	19.6	27 W	7*	20*
1 31	19 2.94	−24 36.2	1.628	0.871	30.7	19.5	27 W	5*	20*
2 5	19 28.03	−25 45.9	1.591	0.836	31.9	19.4	27 W	3*	21*
2 10	19 55.12	−26 39.7	1.555	0.798	33.0	19.3	26 W	—	20*
2 15	20 24.26	−27 12.0	1.522	0.760	34.0	19.1	25 W	—	19*
2 20	20 55.40	−27 16.5	1.492	0.720	34.7	19.0	24 W	—	17*
2 25	21 28.28	−26 46.1	1.466	0.679	35.0	18.8	23 W	—	15*
3 2	22 2.45	−25 34.0	1.446	0.640	34.8	18.7	22 W	—	12*
3 7	22 37.28	−23 34.4	1.432	0.601	34.0	18.5	20 W	—	9*
3 12	23 12.00	−20 44.2	1.424	0.566	32.3	18.3	18 W	—	5*
3 17	23 45.88	−17 3.9	1.423	0.536	29.9	18.1	16 W	—	1*

188174 2002 *JC* *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	0 18.29	−12 37.7	1.426	0.514	27.1	17.9	14 E	—	3*
3 27	0 48.86	− 7 34.5	1.433	0.501	24.3	17.8	12 E	—	4*
3 29	1 0.54	− 5 25.4	1.436	0.499	23.5	17.8	12 E	—	5*
3 31	1 11.90	− 3 13.1	1.439	0.499	23.0	17.8	11 E	—	5*
4 2	1 22.97	− 0 58.4	1.443	0.501	22.7	17.8	11 E	—	5*
4 4	1 33.75	+ 1 17.7	1.446	0.504	22.7	17.8	11 E	—	5*
4 6	1 44.27	+ 3 34.4	1.450	0.510	23.1	17.8	12 E	—	5*
4 8	1 54.56	+ 5 51.0	1.453	0.517	23.6	17.9	12 E	1*	5*
4 10	2 4.65	+ 8 6.7	1.456	0.525	24.4	18.0	13 E	3*	5*
4 12	2 14.56	+10 20.8	1.459	0.535	25.4	18.0	13 E	4*	5*
4 14	2 24.34	+12 32.9	1.462	0.546	26.4	18.1	14 E	6*	5*
4 16	2 34.00	+14 42.5	1.465	0.558	27.5	18.2	15 E	7*	5*
4 21	2 57.90	+19 52.5	1.473	0.592	30.1	18.4	17 E	10*	4*
4 26	3 21.81	+24 39.4	1.480	0.630	32.4	18.6	20 E	13*	3*
5 1	3 46.14	+29 0.0	1.487	0.670	34.3	18.8	22 E	16*	2*
5 6	4 11.23	+32 52.4	1.495	0.710	35.8	19.0	24 E	18*	2*
5 11	4 37.32	+36 15.0	1.504	0.750	36.9	19.2	26 E	20*	2*
5 16	5 4.53	+39 6.8	1.513	0.789	37.7	19.3	29 E	22*	2*
5 21	5 32.83	+41 26.5	1.523	0.827	38.2	19.4	30 E	24*	2*
5 26	6 2.07	+43 13.6	1.534	0.863	38.5	19.5	32 E	26*	2*
5 31	6 31.92	+44 27.7	1.545	0.897	38.7	19.7	34 E	27*	3*
6 5	7 2.00	+45 9.3	1.558	0.928	38.7	19.7	35 E	29*	4*
6 10	7 31.81	+45 19.7	1.571	0.958	38.5	19.8	36 E	30*	5*
6 15	8 0.91	+45 0.9	1.584	0.986	38.3	19.9	37 E	30*	6*
6 20	8 28.88	+44 15.7	1.599	1.011	38.0	20.0	38 E	31*	8*
6 25	8 55.44	+43 7.1	1.614	1.034	37.7	20.0	38 E	31*	9*
6 30	9 20.44	+41 38.5	1.630	1.054	37.3	20.1	39 E	31*	11*
7 5	9 43.82	+39 53.0	1.647	1.073	36.8	20.1	39 E	31*	13*
7 10	10 5.64	+37 53.6	1.664	1.089	36.3	20.2	39 E	31*	14*
7 15	10 25.97	+35 43.1	1.681	1.103	35.7	20.2	39 E	30*	16*
7 20	10 44.94	+33 23.8	1.699	1.114	35.2	20.2	39 E	29*	17*
7 25	11 2.70	+30 57.7	1.717	1.124	34.5	20.3	39 E	28*	18*
7 30	11 19.38	+28 26.4	1.735	1.131	33.9	20.3	38 E	27*	19*
8 4	11 35.13	+25 51.2	1.752	1.136	33.2	20.3	38 E	26*	20*
8 9	11 50.09	+23 13.2	1.769	1.138	32.5	20.3	37 E	25*	21*
8 14	12 4.38	+20 33.4	1.785	1.139	31.7	20.3	36 E	24*	21*
8 19	12 18.10	+17 52.3	1.801	1.137	31.0	20.3	35 E	22*	22*
8 24	12 31.35	+15 10.5	1.815	1.133	30.2	20.3	34 E	21*	22*
9 3	12 56.81	+ 9 46.2	1.838	1.118	28.5	20.2	32 E	18*	21*
9 13	13 21.45	+ 4 22.2	1.854	1.094	26.8	20.1	29 E	15*	20*
9 23	13 45.83	− 1 1.0	1.859	1.062	25.0	20.0	27 E	12*	18*
10 3	14 10.55	− 6 23.9	1.852	1.020	23.3	19.9	24 E	9*	16*
10 13	14 36.29	−11 47.2	1.831	0.969	21.8	19.7	21 E	5*	14*
10 23	15 3.83	−17 11.6	1.791	0.909	20.8	19.5	19 E	2*	13*
10 28	15 18.61	−19 54.1	1.764	0.876	20.6	19.4	18 E	—	12*
11 2	15 34.28	−22 36.6	1.732	0.840	20.8	19.2	18 E	—	12*
11 7	15 51.06	−25 18.3	1.694	0.803	21.5	19.1	17 E	—	11*
11 12	16 9.20	−27 58.2	1.650	0.765	22.8	19.0	17 E	—	11*
11 17	16 29.01	−30 34.4	1.599	0.725	24.8	18.9	18 E	—	11*
11 22	16 50.85	−33 3.8	1.541	0.685	27.8	18.8	19 E	—	12*
11 27	17 15.12	−35 21.8	1.476	0.645	31.7	18.6	20 E	—	13*
12 2	17 42.19	−37 21.1	1.402	0.606	36.8	18.5	22 E	—	14*
12 4	17 53.87	−38 1.4	1.371	0.591	39.2	18.5	22 E	—	15*
12 6	18 6.04	−38 36.3	1.338	0.577	41.8	18.5	23 E	—	16*
12 8	18 18.69	−39 4.7	1.304	0.564	44.6	18.4	24 E	—	17*
12 10	18 31.80	−39 25.7	1.268	0.551	47.6	18.4	24 E	—	17*
12 12	18 45.33	−39 38.2	1.232	0.540	50.9	18.4	25 E	—	18*
12 14	18 59.20	−39 40.8	1.194	0.529	54.3	18.4	26 E	—	19*
12 16	19 13.33	−39 32.6	1.156	0.520	58.0	18.4	27 E	—	20*
12 18	19 27.62	−39 12.1	1.117	0.513	61.8	18.4	27 E	—	21*
12 20	19 41.93	−38 38.3	1.077	0.507	65.7	18.4	28 E	—	22*
12 22	19 56.13	−37 50.1	1.037	0.502	69.8	18.4	29 E	—	23*
12 24	20 10.08	−36 46.6	0.997	0.500	73.9	18.5	29 E	—	23*
12 26	20 23.62	−35 27.1	0.958	0.499	78.0	18.5	30 E	1*	24*
12 28	20 36.62	−33 51.1	0.919	0.500	82.1	18.6	30 E	2*	24*
12 30	20 48.98	−31 58.5	0.881	0.503	86.0	18.7	31 E	4*	24*
1 1	21 0.59	−29 49.1	0.845	0.508	89.7	18.7	31 E	7*	24*
1 6	21 26.05	−23 15.7	0.762	0.527	97.8	18.9	32 E	12*	23*
1 11	21 46.26	−15 14.5	0.696	0.554	103.2	19.1	33 E	19*	21*
1 16	22 1.67	− 6 11.1	0.648	0.588	105.4	19.2	35 E	25*	16*
1 21	22 13.07	+ 3 19.2	0.619	0.625	104.6	19.2	38 E	31*	10*

86608 2000 EK_{85}

12 27	16 48.07	−17 5.1	2.487	1.630	13.8	19.4	23 W	13*	11*
1 6	17 17.64	−17 55.0	2.455	1.632	15.4	19.5	26 W	14*	15*
1 16	17 47.23	−18 25.3	2.422	1.636	17.1	19.5	29 W	14*	19*
1 26	18 16.60	−18 36.3	2.388	1.643	18.7	19.5	32 W	14*	23*
2 5	18 45.53	−18 28.6	2.353	1.653	20.3	19.6	36 W	14*	27*

86608 2000 EK_{85} *(continuation)*

2 15	19 13.83	−18 3.6	2.316	1.667	21.8	19.6	39 W	15*	31*
2 25	19 41.29	−17 23.3	2.277	1.682	23.3	19.6	42 W	15*	35*
3 7	20 7.80	−16 30.1	2.235	1.701	24.8	19.6	46 W	15*	39*
3 17	20 33.23	−15 26.5	2.189	1.721	26.1	19.7	50 W	15*	43*
3 27	20 57.49	−14 15.5	2.141	1.744	27.4	19.7	54 W	16*	47*
4 6	21 20.54	−12 59.8	2.088	1.769	28.6	19.7	58 W	16*	51*
4 16	21 42.32	−11 42.2	2.031	1.795	29.6	19.7	62 W	17*	55*
4 26	22 2.77	−10 25.7	1.971	1.823	30.4	19.7	67 W	18*	60*
5 6	22 21.85	− 9 12.9	1.906	1.852	31.1	19.7	72 W	20*	64*
5 16	22 39.46	− 8 6.6	1.837	1.882	31.5	19.6	77 W	22*	67*
5 26	22 55.48	− 7 9.6	1.765	1.913	31.6	19.6	82 W	25*	70*
6 5	23 9.78	− 6 24.4	1.690	1.945	31.4	19.5	88 W	28*	70*
6 15	23 22.13	− 5 54.0	1.613	1.978	30.8	19.4	95 W	31*	70
6 25	23 32.29	− 5 41.3	1.536	2.011	29.6	19.3	102 W	34*	70
7 5	23 39.98	− 5 48.7	1.462	2.044	27.9	19.2	110 W	37*	70
7 15	23 44.84	− 6 18.7	1.392	2.077	25.5	19.1	118 W	38*	70
7 25	23 46.61	− 7 12.2	1.330	2.110	22.4	18.9	128 W	38	71
8 4	23 45.12	− 8 28.2	1.280	2.144	18.5	18.7	138 W	37	72
8 9	23 43.16	− 9 13.6	1.260	2.160	16.3	18.7	143 W	36	73
8 14	23 40.43	−10 2.8	1.246	2.177	13.9	18.6	149 W	35	74
8 19	23 37.02	−10 54.7	1.236	2.193	11.5	18.5	154 W	34	75
8 24	23 33.03	−11 47.9	1.232	2.210	9.0	18.4	160 W	33	76
8 29	23 28.58	−12 41.0	1.234	2.226	6.7	18.3	165 W	32	77
9 3	23 23.82	−13 32.5	1.243	2.242	4.8	18.2	169 W	31	78
9 8	23 18.91	−14 20.9	1.258	2.258	4.1	18.2	171 W	31	78
9 13	23 14.05	−15 4.9	1.279	2.274	5.0	18.3	169 E	30	79
9 18	23 9.39	−15 43.4	1.307	2.290	6.9	18.5	164 E	29	80
9 23	23 5.10	−16 15.8	1.341	2.306	9.0	18.7	159 E	29	80
10 3	22 58.05	−17 0.8	1.427	2.337	13.1	19.0	148 E	28	81
10 13	22 53.60	−17 19.5	1.533	2.367	16.5	19.3	138 E	28	81
10 23	22 52.02	−17 14.3	1.656	2.397	19.2	19.6	128 E	28	81
11 2	22 53.20	−16 49.0	1.793	2.427	21.1	19.8	118 E	28	81
11 12	22 56.88	−16 7.0	1.940	2.455	22.3	20.1	110 E	29	80
11 22	23 2.72	−15 11.6	2.094	2.483	23.0	20.3	101 E	30	79
12 2	23 10.35	−14 5.6	2.251	2.510	23.1	20.5	93 E	31	75*
12 12	23 19.47	−12 50.9	2.410	2.536	22.8	20.6	86 E	32	68*
12 22	23 29.78	−11 29.3	2.568	2.562	22.1	20.8	79 E	34	60*
1 1	23 41.05	−10 2.5	2.723	2.586	21.1	20.9	72 E	35*	53*
1 11	23 53.10	− 8 31.6	2.872	2.610	19.9	21.0	65 E	36*	46*
1 21	0 5.77	− 6 57.8	3.015	2.633	18.5	21.1	58 E	35*	40*

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12 27	16 48.23	−18 13.2	3.604	2.724	8.0	21.4	23 W	12*	11*
1 6	17 5.21	−18 37.1	3.522	2.703	10.1	21.4	29 W	15*	18*
1 16	17 22.17	−18 53.2	3.427	2.681	12.1	21.4	35 W	17*	25*
1 26	17 39.01	−19 1.5	3.320	2.659	14.1	21.4	41 W	18*	32*
2 5	17 55.62	−19 2.0	3.202	2.635	16.0	21.4	47 W	19*	39*
2 15	18 11.89	−18 55.0	3.074	2.611	17.7	21.3	54 W	20*	46*
2 25	18 27.68	−18 41.0	2.937	2.586	19.3	21.3	60 W	21*	52*
3 7	18 42.88	−18 20.5	2.793	2.560	20.8	21.2	66 W	22*	59*
3 17	18 57.35	−17 54.6	2.644	2.533	22.0	21.1	73 W	23*	65*
3 27	19 10.90	−17 24.1	2.490	2.506	23.0	21.0	79 W	24*	72*
4 6	19 23.39	−16 50.4	2.334	2.477	23.8	20.8	86 W	25*	77*
4 16	19 34.59	−16 15.1	2.178	2.448	24.2	20.7	93 W	26*	80*
4 26	19 44.26	−15 39.9	2.023	2.418	24.1	20.5	100 W	28*	80
5 6	19 52.15	−15 6.9	1.873	2.388	23.7	20.3	108 W	29*	79
5 16	19 57.93	−14 38.5	1.728	2.357	22.6	20.0	116 W	30*	79
5 26	20 1.26	−14 17.5	1.591	2.326	20.9	19.8	125 W	31*	78
6 5	20 1.85	−14 6.5	1.467	2.293	18.5	19.5	134 W	31	78
6 15	19 59.41	−14 8.1	1.357	2.261	15.2	19.2	144 W	31	78
6 25	19 53.92	−14 24.1	1.265	2.228	11.1	18.8	155 W	31	78
7 5	19 45.69	−14 54.6	1.195	2.195	6.5	18.5	166 W	30	79
7 15	19 35.50	−15 37.8	1.148	2.161	2.8	18.2	174 E	29	80
7 20	19 30.06	−16 3.0	1.133	2.145	3.7	18.2	172 E	29	80
7 25	19 24.64	−16 29.8	1.125	2.128	6.1	18.3	167 E	29	80
7 30	19 19.44	−16 57.6	1.123	2.111	8.8	18.4	162 E	28	81
8 4	19 14.63	−17 25.8	1.127	2.094	11.4	18.5	156 E	28	81
8 9	19 10.40	−17 53.7	1.136	2.077	14.1	18.6	150 E	27	82
8 14	19 6.91	−18 21.0	1.150	2.060	16.6	18.7	145 E	27	82
8 24	19 2.54	−19 12.0	1.190	2.027	21.1	18.8	134 E	26	83
9 3	19 2.01	−19 56.4	1.245	1.994	24.8	19.0	124 E	25	84
9 13	19 5.43	−20 32.6	1.309	1.961	27.7	19.2	115 E	24	85
9 23	19 12.59	−20 59.1	1.379	1.929	29.8	19.3	107 E	24	85
10 3	19 23.10	−21 14.7	1.454	1.897	31.3	19.4	100 E	24	85
10 13	19 36.56	−21 17.9	1.529	1.867	32.3	19.5	93 E	24	84*
10 23	19 52.54	−21 7.4	1.605	1.837	32.7	19.6	87 E	24	78*
11 2	20 10.62	−20 42.1	1.679	1.809	32.8	19.7	81 E	24	72*
11 12	20 30.45	−20 1.1	1.751	1.782	32.5	19.7	75 E	25*	66*
11 22	20 51.67	−19 3.8	1.821	1.758	32.0	19.8	70 E	26*	60*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
89766 2002 AO_{62} *(continuation)*									
12 2	21 13.99	−17 50.3	1.887	1.734	31.2	19.8	66 E	27*	54*
12 12	21 37.18	−16 20.7	1.951	1.714	30.3	19.8	61 E	28*	48*
12 22	22 1.00	−14 35.9	2.012	1.695	29.2	19.8	57 E	29*	42*
1 1	22 25.29	−12 37.2	2.071	1.679	28.0	19.8	53 E	30*	37*
1 11	22 49.93	−10 26.2	2.127	1.665	26.7	19.8	50 E	30*	33*
1 21	23 14.83	− 8 5.0	2.181	1.655	25.3	19.8	46 E	30*	29*
26385 1999 RN_{20}									
12 27	16 48.29	− 3 36.5	3.207	2.410	11.9	20.3	30 W	24*	5*
1 6	17 7.29	− 3 32.8	3.125	2.384	13.6	20.2	35 W	27*	11*
1 16	17 26.37	− 3 16.6	3.034	2.358	15.4	20.2	39 W	30*	18*
1 26	17 45.44	− 2 47.6	2.935	2.330	17.1	20.2	44 W	32*	24*
2 5	18 4.42	− 2 5.5	2.830	2.302	18.8	20.1	49 W	34*	30*
2 15	18 23.23	− 1 10.2	2.719	2.273	20.4	20.1	53 W	35*	35*
2 25	18 41.75	− 0 1.9	2.604	2.244	22.0	20.0	58 W	37*	41*
3 7	18 59.90	+ 1 18.8	2.485	2.214	23.5	19.9	63 W	39*	45*
3 17	19 17.59	+ 2 51.4	2.363	2.183	24.9	19.8	67 W	40*	49*
3 27	19 34.70	+ 4 34.9	2.240	2.151	26.2	19.7	72 W	42*	52*
4 6	19 51.14	+ 6 28.1	2.117	2.120	27.3	19.6	76 W	44*	54*
4 16	20 6.79	+ 8 29.6	1.993	2.087	28.4	19.4	81 W	47*	54*
4 26	20 21.52	+10 37.4	1.870	2.055	29.2	19.3	86 W	49*	53*
5 6	20 35.20	+12 49.3	1.748	2.022	29.9	19.1	90 W	53*	51
5 16	20 47.63	+15 2.6	1.628	1.989	30.4	19.0	95 W	56*	49
5 26	20 58.61	+17 13.7	1.511	1.957	30.7	18.8	100 W	60*	47
5 31	21 3.49	+18 17.1	1.453	1.940	30.7	18.7	102 W	61*	46
6 5	21 7.90	+19 18.3	1.396	1.924	30.7	18.6	105 W	63*	45
6 10	21 11.82	+20 16.5	1.341	1.908	30.5	18.5	107 W	65*	44
6 15	21 15.18	+21 10.7	1.286	1.892	30.3	18.3	110 W	66*	43
6 20	21 17.97	+22 0.1	1.232	1.876	30.0	18.2	113 W	67	42
6 25	21 20.14	+22 43.4	1.180	1.860	29.5	18.1	116 W	68	41
6 30	21 21.67	+23 19.6	1.129	1.844	29.0	18.0	118 W	68	41
7 5	21 22.50	+23 47.1	1.080	1.829	28.3	17.8	121 W	69	40
7 10	21 22.61	+24 4.3	1.033	1.813	27.5	17.7	124 W	69	40
7 15	21 22.00	+24 9.3	0.987	1.798	26.6	17.5	128 W	69	40
7 20	21 20.71	+24 0.2	0.945	1.784	25.5	17.4	131 W	69	40
7 25	21 18.77	+23 35.3	0.904	1.769	24.3	17.3	134 W	69	40
7 30	21 16.26	+22 52.6	0.867	1.755	23.0	17.1	137 W	68	41
8 4	21 13.28	+21 50.4	0.833	1.741	21.7	17.0	141 W	67	42
8 9	21 9.99	+20 27.4	0.803	1.727	20.4	16.8	144 E	65	44
8 14	21 6.57	+18 43.0	0.777	1.714	19.2	16.7	146 E	64	45
8 19	21 3.23	+16 37.7	0.756	1.701	18.3	16.6	148 E	62	47
8 24	21 0.20	+14 13.2	0.740	1.689	17.9	16.5	149 E	59	50
8 29	20 57.66	+11 31.9	0.729	1.677	18.1	16.5	149 E	57	52
9 3	20 55.81	+ 8 37.7	0.723	1.666	18.9	16.5	148 E	54	55
9 8	20 54.80	+ 5 35.0	0.724	1.655	20.2	16.5	145 E	51	58
9 13	20 54.77	+ 2 29.0	0.729	1.645	22.0	16.6	142 E	47	62
9 18	20 55.81	− 0 35.4	0.741	1.635	24.0	16.6	139 E	44	65
9 23	20 57.94	− 3 33.8	0.757	1.626	26.1	16.7	134 E	41	68
9 28	21 1.15	− 6 22.6	0.778	1.617	28.2	16.8	130 E	39	70
10 3	21 5.43	− 8 59.1	0.803	1.610	30.2	17.0	126 E	36	73
10 8	21 10.74	−11 21.5	0.831	1.603	32.0	17.1	122 E	34	75
10 13	21 17.03	−13 28.8	0.864	1.596	33.5	17.2	118 E	32	77
10 23	21 32.18	−16 56.8	0.936	1.586	36.0	17.4	110 E	28	81
11 2	21 50.19	−19 25.3	1.016	1.578	37.7	17.6	104 E	26	83
11 12	22 10.43	−20 59.7	1.102	1.574	38.6	17.8	97 E	24	85*
11 17	22 21.20	−21 28.7	1.146	1.573	38.8	17.9	95 E	24	84*
11 22	22 32.31	−21 46.8	1.190	1.573	38.9	18.0	92 E	23	82*
11 27	22 43.68	−21 54.8	1.235	1.573	38.8	18.1	89 E	23	80*
12 2	22 55.27	−21 53.4	1.281	1.575	38.7	18.2	87 E	23	77*
12 7	23 7.05	−21 43.4	1.326	1.577	38.5	18.2	85 E	23	75*
12 12	23 18.97	−21 25.6	1.372	1.580	38.2	18.3	82 E	24	72*
12 17	23 30.99	−21 0.7	1.417	1.584	37.8	18.4	80 E	24	70*
12 22	23 43.07	−20 29.4	1.463	1.588	37.3	18.4	78 E	25	67*
12 27	23 55.21	−19 52.3	1.508	1.594	36.8	18.5	76 E	25	65*
1 1	0 7.37	−19 10.0	1.553	1.600	36.3	18.6	74 E	26	63*
1 6	0 19.56	−18 23.0	1.598	1.606	35.7	18.6	73 E	27	60*
1 11	0 31.76	−17 32.1	1.643	1.614	35.1	18.7	71 E	27*	58*
1 16	0 43.96	−16 37.6	1.687	1.622	34.5	18.7	69 E	28*	56*
1 21	0 56.14	−15 40.3	1.732	1.631	33.9	18.8	67 E	29*	55*
239832 1998 YS_{31}									
12 27	16 48.36	−25 2.4	3.021	2.139	9.8	20.6	22 W	6*	14*
1 6	17 10.21	−24 45.9	3.004	2.173	11.8	20.7	27 W	9*	19*
1 16	17 31.21	−24 17.3	2.975	2.208	13.8	20.8	32 W	11*	25*
1 26	17 51.24	−23 37.2	2.934	2.242	15.7	20.8	38 W	13*	30*
2 5	18 10.19	−22 46.3	2.883	2.275	17.4	20.9	44 W	15*	37*
2 15	18 27.96	−21 45.4	2.820	2.308	19.1	20.9	50 W	16*	43*
2 25	18 44.42	−20 35.4	2.747	2.341	20.5	21.0	56 W	18*	49*
3 7	18 59.45	−19 17.3	2.665	2.373	21.7	21.0	62 W	20*	55*
3 17	19 12.94	−17 51.9	2.575	2.405	22.7	20.9	69 W	22*	62*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
239832 1998 YS_{31} *(continuation)*									
3 27	19 24.71	−16 20.3	2.478	2.436	23.4	20.9	76 W	24*	68*
4 6	19 34.61	−14 43.6	2.376	2.466	23.8	20.9	83 W	26*	74*
4 16	19 42.45	−13 2.7	2.272	2.496	23.7	20.8	91 W	29*	77*
4 26	19 48.01	−11 19.1	2.168	2.525	23.2	20.7	99 W	32*	75
5 6	19 51.09	− 9 34.4	2.067	2.553	22.2	20.6	107 W	34*	74
5 16	19 51.48	− 7 50.3	1.972	2.580	20.6	20.5	116 W	37*	72
5 26	19 49.06	− 6 9.7	1.888	2.607	18.5	20.3	125 W	39	70
6 5	19 43.85	− 4 35.8	1.818	2.632	15.9	20.2	135 W	40	69
6 15	19 36.08	− 3 12.4	1.767	2.657	12.9	20.0	144 W	42	67
6 25	19 26.32	− 2 3.7	1.738	2.681	10.1	19.9	153 W	43	66
7 5	19 15.38	− 1 13.0	1.735	2.704	8.1	19.8	158 W	44	65
7 15	19 4.29	− 0 42.2	1.759	2.726	8.1	19.9	158 E	44	65
7 25	18 54.13	− 0 30.9	1.809	2.748	10.0	20.0	152 E	44	65
8 4	18 45.73	− 0 36.6	1.883	2.768	12.5	20.2	144 E	44	65
8 14	18 39.68	− 0 55.6	1.979	2.787	14.9	20.4	135 E	44	65
8 24	18 36.24	− 1 23.3	2.092	2.806	17.0	20.6	126 E	44	65
9 3	18 35.42	− 1 55.6	2.219	2.823	18.6	20.8	117 E	43	66
9 13	18 37.08	− 2 29.2	2.356	2.840	19.6	21.0	108 E	43	66
9 23	18 40.97	− 3 1.0	2.500	2.856	20.2	21.2	100 E	42	67
10 3	18 46.83	− 3 28.9	2.646	2.871	20.4	21.3	93 E	41*	67*
10 13	18 54.40	− 3 51.3	2.793	2.884	20.2	21.4	85 E	41*	64*
80107 1999 RG_{29}									
12 27	16 48.74	− 3 40.6	3.353	2.551	11.2	21.1	30 W	24*	5*
1 6	17 6.35	− 3 46.4	3.277	2.533	12.8	21.1	35 W	27*	12*
1 16	17 23.89	− 3 40.9	3.191	2.514	14.5	21.0	40 W	30*	18*
1 26	17 41.26	− 3 23.8	3.095	2.495	16.1	21.0	45 W	32*	25*
2 5	17 58.35	− 2 55.3	2.991	2.474	17.7	21.0	50 W	34*	31*
2 15	18 15.08	− 2 15.4	2.879	2.452	19.3	20.9	55 W	35*	38*
2 25	18 31.30	− 1 24.4	2.761	2.430	20.7	20.9	60 W	37*	43*
3 7	18 46.91	− 0 22.9	2.637	2.406	22.1	20.8	66 W	39*	49*
3 17	19 1.78	+ 0 48.4	2.508	2.382	23.3	20.7	71 W	40*	53*
3 27	19 15.75	+ 2 8.5	2.377	2.357	24.3	20.6	77 W	42*	57*
4 6	19 28.68	+ 3 36.1	2.243	2.331	25.2	20.5	82 W	44*	59*
4 16	19 40.38	+ 5 9.7	2.109	2.305	25.8	20.3	88 W	46*	59*
4 26	19 50.63	+ 6 47.2	1.975	2.277	26.2	20.2	94 W	49*	57
5 6	19 59.21	+ 8 26.1	1.842	2.249	26.2	20.0	100 W	52*	56
5 16	20 5.82	+10 2.9	1.714	2.221	25.9	19.8	106 W	54*	54
5 21	20 8.30	+10 49.1	1.651	2.206	25.6	19.7	110 W	55*	53
5 26	20 10.17	+11 33.0	1.590	2.191	25.2	19.6	113 W	56*	52
5 31	20 11.40	+12 13.9	1.530	2.177	24.7	19.5	116 W	57	52
6 5	20 11.95	+12 50.9	1.473	2.162	24.1	19.3	120 W	58	51
6 10	20 11.79	+13 22.9	1.418	2.147	23.4	19.2	123 W	58	51
6 15	20 10.88	+13 48.8	1.365	2.132	22.5	19.1	126 W	59	50
6 20	20 9.24	+14 7.4	1.315	2.116	21.6	19.0	130 W	59	50
6 25	20 6.87	+14 17.4	1.269	2.101	20.6	18.8	133 W	59	50
6 30	20 3.79	+14 17.8	1.226	2.086	19.5	18.7	137 W	59	50
7 5	20 0.07	+14 7.2	1.186	2.070	18.4	18.6	140 W	59	50
7 10	19 55.78	+13 44.5	1.151	2.055	17.4	18.5	143 W	59	50
7 15	19 51.04	+13 8.8	1.121	2.039	16.6	18.4	145 W	58	51
7 25	19 40.90	+11 17.2	1.074	2.008	15.7	18.2	148 E	56	53
8 4	19 31.04	+ 8 35.0	1.049	1.977	16.4	18.2	147 E	54	55
8 14	19 22.93	+ 5 12.3	1.045	1.946	18.7	18.2	142 E	50	59
8 19	19 19.94	+ 3 20.9	1.051	1.930	20.2	18.2	139 E	48	61
8 24	19 17.82	+ 1 25.9	1.061	1.915	21.9	18.3	135 E	46	63
8 29	19 16.63	− 0 30.5	1.076	1.900	23.6	18.4	131 E	44	65
9 3	19 16.42	− 2 26.4	1.095	1.885	25.3	18.4	127 E	43	66
9 8	19 17.22	− 4 20.0	1.118	1.870	26.8	18.5	123 E	41	68
9 13	19 19.02	− 6 9.8	1.145	1.855	28.3	18.6	119 E	39	70
9 18	19 21.82	− 7 54.7	1.174	1.840	29.6	18.7	115 E	37	72
9 23	19 25.56	− 9 33.7	1.205	1.826	30.8	18.7	111 E	35	74
10 3	19 35.72	−12 32.1	1.274	1.798	32.7	18.9	104 E	32	77
10 13	19 49.13	−15 2.1	1.349	1.770	34.0	19.0	97 E	30	79*
10 23	20 5.37	−17 2.6	1.427	1.745	34.8	19.1	90 E	28	78*
11 2	20 24.00	−18 33.7	1.505	1.720	35.0	19.2	84 E	26	74*
11 12	20 44.65	−19 36.2	1.584	1.697	34.9	19.3	79 E	25	69*
11 22	21 6.92	−20 11.1	1.661	1.677	34.4	19.3	74 E	25	63*
12 2	21 30.47	−20 19.8	1.736	1.658	33.7	19.4	69 E	25*	58*
12 12	21 55.00	−20 3.9	1.807	1.641	32.7	19.4	64 E	25*	53*
12 22	22 20.26	−19 25.3	1.875	1.627	31.6	19.5	60 E	25*	48*
1 1	22 46.02	−18 26.1	1.940	1.616	30.4	19.5	56 E	25*	44*
1 11	23 12.13	−17 8.4	2.001	1.607	29.1	19.5	53 E	25*	40*
1 21	23 38.45	−15 35.0	2.058	1.601	27.8	19.5	49 E	25*	37*
237495 2000 QF_{56}									
12 27	16 49.05	−15 28.2	2.518	1.664	13.7	20.7	24 W	14*	10*
1 6	17 17.91	−16 7.6	2.487	1.667	15.3	20.7	27 W	15*	14*
1 16	17 46.68	−16 28.5	2.454	1.672	17.0	20.8	30 W	16*	18*
1 26	18 15.15	−16 31.3	2.419	1.681	18.6	20.8	33 W	16*	23*

237495 2000 QF_{56} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 5	18 43.11	−16 16.6	2.383	1.692	20.2	20.8	36 W	17*	27*
2 15	19 10.40	−15 46.0	2.345	1.705	21.7	20.9	40 W	17*	31*
2 25	19 36.83	−15 1.3	2.304	1.721	23.2	20.9	43 W	17*	35*
3 7	20 2.30	−14 4.8	2.260	1.740	24.6	20.9	47 W	18*	40*
3 17	20 26.70	−12 59.0	2.212	1.761	26.0	20.9	51 W	18*	44*
3 27	20 49.94	−11 46.5	2.161	1.783	27.2	20.9	55 W	19*	48*
4 6	21 11.98	−10 30.0	2.105	1.808	28.3	21.0	59 W	20*	52*
4 16	21 32.75	− 9 12.1	2.045	1.834	29.3	21.0	64 W	21*	56*
4 26	21 52.19	− 7 55.7	1.981	1.861	30.2	20.9	68 W	22*	60*
5 6	22 10.23	− 6 43.3	1.913	1.890	30.8	20.9	73 W	24*	64*
5 16	22 26.78	− 5 37.7	1.841	1.919	31.1	20.9	79 W	26*	67*
5 26	22 41.68	− 4 41.5	1.765	1.950	31.1	20.8	85 W	28*	68*
6 5	22 54.81	− 3 57.7	1.687	1.981	30.8	20.7	91 W	32*	68
6 15	23 5.91	− 3 29.2	1.608	2.013	30.0	20.7	98 W	35*	67
6 25	23 14.72	− 3 19.2	1.529	2.045	28.7	20.5	105 W	38*	67
7 5	23 20.97	− 3 30.4	1.454	2.077	26.7	20.4	113 W	40*	68
7 15	23 24.34	− 4 5.6	1.384	2.110	24.0	20.3	122 W	41*	68
7 25	23 24.62	− 5 6.0	1.324	2.142	20.6	20.1	132 W	40	69
8 4	23 21.76	− 6 30.4	1.278	2.175	16.4	19.9	143 W	38	71
8 9	23 19.21	− 7 20.4	1.262	2.191	14.0	19.8	148 W	38	71
8 14	23 15.99	− 8 14.5	1.250	2.207	11.5	19.7	154 W	37	72
8 19	23 12.22	− 9 11.4	1.245	2.223	8.9	19.6	160 W	36	73
8 24	23 8.01	−10 9.6	1.245	2.240	6.3	19.5	166 W	35	74
8 29	23 3.50	−11 7.8	1.252	2.256	3.8	19.4	171 W	34	75
9 3	22 58.85	−12 4.3	1.265	2.271	2.3	19.4	175 W	33	76
9 8	22 54.23	−12 57.7	1.285	2.287	3.4	19.5	172 E	32	77
9 13	22 49.80	−13 46.8	1.311	2.303	5.6	19.7	167 E	31	78
9 18	22 45.71	−14 30.5	1.344	2.319	8.0	19.8	161 E	30	79
9 23	22 42.10	−15 8.2	1.383	2.334	10.2	20.0	156 E	30	79
10 3	22 36.64	−16 4.4	1.478	2.365	14.2	20.3	144 E	29	80
10 13	22 33.88	−16 35.0	1.592	2.395	17.5	20.6	134 E	28	81
10 23	22 33.93	−16 42.2	1.722	2.424	19.9	20.9	124 E	28	81
11 2	22 36.60	−16 29.2	1.864	2.453	21.5	21.1	115 E	29	80
11 12	22 41.59	−15 59.3	2.015	2.481	22.5	21.4	106 E	29	80

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12 27	16 49.85	−17 59.1	2.692	1.823	11.9	19.6	23 W	12*	11*
1 6	17 16.94	−18 39.6	2.623	1.793	14.0	19.6	26 W	13*	15*
1 16	17 44.68	−19 3.7	2.551	1.765	16.0	19.5	30 W	14*	20*
1 26	18 12.92	−19 10.0	2.478	1.739	18.0	19.5	33 W	14*	24*
2 5	18 41.50	−18 58.2	2.404	1.714	20.0	19.5	36 W	14*	28*
2 15	19 10.27	−18 27.9	2.329	1.692	21.9	19.4	40 W	15*	32*
2 25	19 39.03	−17 39.8	2.256	1.672	23.8	19.4	43 W	15*	36*
3 7	20 7.63	−16 34.9	2.183	1.654	25.5	19.4	46 W	15*	39*
3 17	20 35.93	−15 14.6	2.111	1.640	27.2	19.3	49 W	15*	42*
3 27	21 3.79	−13 41.2	2.041	1.628	28.9	19.3	52 W	15*	46*
4 6	21 31.13	−11 57.2	1.973	1.620	30.4	19.2	55 W	16*	49*
4 16	21 57.87	−10 5.1	1.905	1.614	31.8	19.2	58 W	16*	51*
4 26	22 23.94	− 8 8.3	1.840	1.612	33.1	19.1	61 W	17*	54*
5 6	22 49.29	− 6 9.5	1.775	1.613	34.2	19.1	64 W	18*	57*
5 16	23 13.88	− 4 11.8	1.712	1.618	35.2	19.1	67 W	20*	59*
5 26	23 37.62	− 2 18.5	1.649	1.625	36.0	19.0	71 W	22*	61*
6 5	0 0.46	− 0 32.3	1.586	1.636	36.7	19.0	74 W	25*	62*
6 15	0 22.26	+ 1 4.1	1.522	1.650	37.1	18.9	78 W	29*	62*
6 25	0 42.86	+ 2 27.9	1.459	1.667	37.2	18.8	83 W	33*	61*
7 5	1 2.08	+ 3 37.0	1.395	1.686	37.0	18.8	87 W	37*	60
7 15	1 19.63	+ 4 29.0	1.331	1.708	36.5	18.7	92 W	42*	60
7 25	1 35.18	+ 5 2.0	1.267	1.732	35.5	18.6	98 W	46*	59
8 4	1 48.36	+ 5 14.5	1.204	1.758	34.0	18.4	104 W	49*	59
8 14	1 58.68	+ 5 4.9	1.144	1.785	31.8	18.3	112 W	50*	59
8 24	2 5.70	+ 4 32.8	1.088	1.815	29.0	18.1	120 W	50	59
9 3	2 9.01	+ 3 38.9	1.039	1.845	25.3	18.0	129 W	49	60
9 13	2 8.34	+ 2 25.7	1.001	1.877	20.9	17.8	138 W	47	62
9 18	2 6.54	+ 1 43.7	0.988	1.893	18.4	17.7	144 W	47	62
9 23	2 3.85	+ 0 59.4	0.978	1.909	15.7	17.6	149 W	46	63
9 28	2 0.36	+ 0 14.1	0.973	1.926	13.1	17.5	154 W	45	64
10 3	1 56.20	− 0 30.8	0.973	1.942	10.4	17.4	159 W	44	65
10 8	1 51.54	− 1 13.7	0.979	1.959	8.1	17.4	164 W	44	65
10 13	1 46.60	− 1 53.2	0.991	1.976	6.4	17.4	167 W	43	66
10 18	1 41.59	− 2 27.7	1.008	1.993	6.1	17.4	168 W	43	66
10 23	1 36.71	− 2 56.3	1.032	2.010	7.2	17.5	165 E	42	67
11 2	1 28.06	− 3 33.0	1.096	2.045	11.2	17.8	156 E	41	68
11 12	1 21.79	− 3 40.8	1.183	2.079	15.4	18.2	146 E	41	68
11 22	1 18.53	− 3 21.8	1.288	2.114	18.9	18.5	136 E	42	67
12 2	1 18.32	− 2 40.3	1.409	2.148	21.6	18.9	127 E	42	67
12 12	1 20.98	− 1 41.1	1.543	2.183	23.5	19.1	118 E	43	66
12 22	1 26.16	− 0 28.6	1.686	2.217	24.7	19.4	109 E	45	64
1 1	1 33.47	+ 0 53.0	1.836	2.250	25.3	19.6	102 E	46	62*
1 11	1 42.58	+ 2 20.9	1.990	2.283	25.4	19.9	94 E	47	58*
1 21	1 53.16	+ 3 52.5	2.147	2.316	25.1	20.0	87 E	49	53*

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 27	16 49.94	−23 0.7	1.976	1.120	18.8	18.1	21 W	8*	13*
1 6	17 19.08	−19 3.1	1.982	1.174	21.2	18.3	26 W	12*	15*
1 16	17 46.17	−14 47.6	1.977	1.232	23.8	18.4	30 W	17*	18*
1 26	18 11.57	−10 14.7	1.963	1.292	26.1	18.6	35 W	22*	21*
2 5	18 35.53	− 5 24.8	1.944	1.353	28.1	18.7	40 W	27*	24*
2 15	18 58.27	− 0 18.4	1.922	1.414	29.8	18.9	45 W	32*	27*
2 25	19 19.87	+ 5 3.2	1.900	1.474	31.0	19.0	50 W	36*	30*
3 7	19 40.43	+10 37.8	1.880	1.534	31.8	19.1	54 W	41*	31*
3 17	19 59.98	+16 22.4	1.865	1.593	32.2	19.1	59 W	46*	32*
3 22	20 9.37	+19 17.2	1.859	1.621	32.4	19.2	61 W	48*	32*
3 27	20 18.51	+22 12.9	1.854	1.649	32.4	19.2	62 W	50*	31*
4 1	20 27.38	+25 8.9	1.851	1.677	32.4	19.2	64 W	53*	31*
4 6	20 35.98	+28 4.7	1.850	1.704	32.4	19.3	66 W	55*	30*
4 11	20 44.29	+30 59.7	1.851	1.731	32.3	19.3	67 W	57*	28*
4 16	20 52.30	+33 53.3	1.853	1.757	32.1	19.3	69 W	59*	27*
4 21	20 59.99	+36 44.9	1.856	1.783	32.0	19.4	70 W	61*	25*
4 26	21 7.32	+39 33.9	1.861	1.808	31.8	19.4	71 W	63*	23*
5 1	21 14.28	+42 19.9	1.867	1.833	31.6	19.4	72 W	65*	21*
5 6	21 20.83	+45 2.5	1.874	1.857	31.4	19.4	73 W	66*	19*
5 11	21 26.91	+47 41.3	1.882	1.880	31.1	19.5	74 W	68*	16*
5 16	21 32.46	+50 15.8	1.890	1.903	30.9	19.5	75 W	69*	14
5 21	21 37.41	+52 45.7	1.900	1.925	30.7	19.5	76 W	70*	11
5 26	21 41.69	+55 10.6	1.909	1.947	30.4	19.6	77 W	71*	9
5 31	21 45.20	+57 30.2	1.919	1.968	30.2	19.6	78 W	71*	6
6 5	21 47.80	+59 44.2	1.928	1.989	30.0	19.6	78 W	71*	4
6 10	21 49.35	+61 52.3	1.938	2.009	29.7	19.6	79 W	71*	2
6 15	21 49.65	+63 53.8	1.947	2.028	29.5	19.7	80 W	70*	—
6 20	21 48.52	+65 48.4	1.955	2.047	29.3	19.7	80 W	69*	—
6 25	21 45.72	+67 35.3	1.963	2.065	29.1	19.7	81 W	67	—
6 30	21 41.01	+69 13.7	1.970	2.083	28.9	19.7	82 W	66	—
7 5	21 34.13	+70 42.8	1.976	2.100	28.7	19.8	82 W	64	—
7 10	21 24.86	+72 1.3	1.981	2.117	28.5	19.8	83 W	63	—
7 15	21 13.11	+73 7.7	1.985	2.133	28.3	19.8	84 W	62	—
7 20	20 58.98	+74 0.6	1.988	2.148	28.1	19.8	85 W	61	—
7 25	20 42.85	+74 38.7	1.990	2.163	27.9	19.8	86 W	60	—
7 27	20 35.98	+74 49.6	1.990	2.169	27.8	19.8	86 W	60	—
7 29	20 28.95	+74 58.0	1.991	2.174	27.8	19.8	86 E	60	—
7 31	20 21.81	+75 3.7	1.991	2.180	27.7	19.8	87 E	60	—
8 2	20 14.64	+75 6.8	1.991	2.185	27.6	19.8	87 E	60	—
8 4	20 7.50	+75 7.4	1.991	2.191	27.6	19.8	87 E	60	—
8 6	20 0.46	+75 5.3	1.990	2.196	27.5	19.8	88 E	60	—
8 8	19 53.59	+75 0.7	1.990	2.201	27.4	19.8	88 E	60	—
8 10	19 46.95	+74 53.7	1.989	2.206	27.3	19.8	88 E	60	—
8 12	19 40.60	+74 44.3	1.989	2.211	27.3	19.8	89 E	60	—
8 14	19 34.58	+74 32.6	1.988	2.216	27.2	19.8	89 E	60	—
8 16	19 28.93	+74 18.8	1.987	2.221	27.1	19.8	89 E	61	—
8 18	19 23.69	+74 2.9	1.986	2.226	27.1	19.8	90 E	61	—
8 20	19 18.86	+73 45.0	1.985	2.230	27.0	19.8	90 E	61	—
8 22	19 14.47	+73 25.4	1.984	2.235	26.9	19.8	91 E	62	—
8 24	19 10.52	+73 4.1	1.982	2.239	26.8	19.8	91 E	62	—
8 29	19 2.56	+72 4.1	1.979	2.250	26.7	19.8	92 E	63	—
9 3	18 57.25	+70 55.7	1.975	2.260	26.5	19.8	93 E	64	—
9 8	18 54.37	+69 40.3	1.971	2.270	26.3	19.8	94 E	65	—
9 13	18 53.69	+68 19.3	1.968	2.279	26.1	19.8	94 E	67	—
9 18	18 54.92	+66 53.5	1.965	2.287	25.9	19.8	95 E	68	—
9 23	18 57.79	+65 23.9	1.962	2.295	25.8	19.8	96 E	70	—
9 28	19 2.07	+63 51.0	1.961	2.302	25.6	19.8	97 E	71	—
10 3	19 7.56	+62 15.6	1.961	2.309	25.5	19.8	97 E	73	2*
10 8	19 14.09	+60 38.0	1.962	2.315	25.3	19.9	98 E	74	3*
10 13	19 21.51	+58 59.0	1.965	2.321	25.2	19.9	98 E	76	5*
10 18	19 29.69	+57 19.2	1.970	2.326	25.1	19.9	98 E	78	6*
10 23	19 38.49	+55 38.9	1.978	2.330	25.0	19.9	98 E	79*	7*
10 28	19 47.82	+53 58.8	1.988	2.334	25.0	19.9	97 E	81*	8*
11 2	19 57.59	+52 19.4	2.000	2.338	24.9	19.9	97 E	83*	9*
11 7	20 7.74	+50 41.1	2.015	2.341	24.9	19.9	96 E	84*	10*
11 12	20 18.19	+49 4.8	2.033	2.343	24.9	19.9	95 E	85*	11*
11 17	20 28.88	+47 30.9	2.054	2.344	24.9	20.0	94 E	86*	11*
11 22	20 39.76	+45 59.9	2.078	2.346	24.9	20.0	93 E	86*	11*
11 27	20 50.77	+44 32.2	2.104	2.346	24.9	20.0	91 E	85*	11*
12 2	21 1.89	+43 8.3	2.134	2.346	24.9	20.0	90 E	84*	11*
12 7	21 13.08	+41 48.4	2.166	2.346	24.8	20.1	88 E	82*	11*
12 12	21 24.31	+40 33.1	2.200	2.345	24.8	20.1	86 E	80*	10*
12 17	21 35.55	+39 22.5	2.237	2.343	24.7	20.1	84 E	78*	10*
12 22	21 46.79	+38 16.7	2.276	2.341	24.6	20.2	81 E	75*	9*
12 27	21 58.00	+37 15.7	2.317	2.338	24.4	20.2	79 E	73*	8*
1 1	22 9.17	+36 19.5	2.359	2.335	24.2	20.2	77 E	70*	7*
1 6	22 20.30	+35 28.2	2.402	2.331	23.9	20.3	74 E	68*	6*
1 11	22 31.38	+34 41.7	2.446	2.326	23.6	20.3	71 E	65*	5*
1 16	22 42.39	+33 59.8	2.491	2.321	23.2	20.3	69 E	62*	4*
1 21	22 53.33	+33 22.2	2.536	2.315	22.8	20.3	66 E	59*	3*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7505 Furusho									
12 27	16 50.25	−20 47.4	3.833	2.942	7.1	18.1	22 W	9*	12*
1 6	17 6.34	−21 18.5	3.737	2.907	9.2	18.1	28 W	12*	19*
1 16	17 22.52	−21 43.6	3.628	2.872	11.2	18.1	35 W	14*	26*
1 26	17 38.69	−22 2.7	3.505	2.835	13.1	18.1	41 W	15*	33*
2 5	17 54.77	−22 15.8	3.371	2.798	15.0	18.0	47 W	17*	40*
2 15	18 10.63	−22 23.3	3.226	2.760	16.8	17.9	54 W	17*	47*
2 25	18 26.17	−22 25.7	3.073	2.721	18.4	17.9	60 W	18*	54*
3 7	18 41.27	−22 23.7	2.913	2.682	19.9	17.8	67 W	19*	60*
3 17	18 55.79	−22 18.3	2.747	2.642	21.2	17.6	73 W	19*	67*
3 27	19 9.56	−22 10.7	2.578	2.601	22.2	17.5	80 W	20*	74*
4 6	19 22.45	−22 2.2	2.408	2.560	23.0	17.3	87 W	20*	81*
4 16	19 34.24	−21 54.6	2.238	2.518	23.4	17.2	94 W	21*	86*
4 26	19 44.70	−21 50.0	2.070	2.476	23.5	17.0	102 W	22*	86
5 6	19 53.58	−21 50.5	1.907	2.433	23.0	16.7	109 W	22*	86
5 16	20 0.54	−21 58.7	1.751	2.390	22.1	16.5	117 W	23*	86
5 26	20 5.25	−22 17.1	1.605	2.347	20.5	16.2	126 W	23*	86
6 5	20 7.34	−22 47.7	1.470	2.303	18.1	15.9	135 W	22	87
6 15	20 6.45	−23 31.9	1.351	2.260	15.0	15.6	145 W	21	88
6 25	20 2.41	−24 29.0	1.251	2.216	11.0	15.2	155 W	21	88
7 5	19 55.36	−25 35.7	1.171	2.172	6.4	14.8	166 W	19	90
7 10	19 50.86	−26 10.9	1.140	2.150	4.1	14.6	171 W	19	90
7 15	19 45.88	−26 46.0	1.115	2.129	2.7	14.5	174 W	18	89
7 20	19 40.60	−27 20.0	1.096	2.107	3.7	14.5	172 E	18	89
7 25	19 35.22	−27 51.9	1.083	2.086	6.1	14.5	167 E	17	88
7 30	19 29.94	−28 20.9	1.075	2.065	8.8	14.6	162 E	17	88
8 4	19 24.98	−28 46.4	1.074	2.043	11.6	14.7	156 E	16	87
8 9	19 20.56	−29 7.9	1.077	2.022	14.3	14.8	151 E	16	87
8 14	19 16.87	−29 25.4	1.086	2.002	16.9	14.9	145 E	16	87
8 19	19 14.06	−29 38.8	1.098	1.981	19.3	15.0	140 E	15	86
8 24	19 12.23	−29 48.2	1.115	1.961	21.6	15.0	135 E	15	86
9 3	19 11.78	−29 56.2	1.157	1.921	25.5	15.2	125 E	15	86
9 13	19 15.71	−29 51.0	1.209	1.883	28.7	15.3	116 E	15	86
9 23	19 23.82	−29 33.4	1.267	1.846	31.1	15.5	108 E	15	86
10 3	19 35.65	−29 3.4	1.329	1.812	32.8	15.6	101 E	16	87
10 13	19 50.72	−28 20.0	1.393	1.779	34.0	15.7	95 E	17	88*
10 23	20 8.48	−27 22.0	1.457	1.749	34.7	15.8	89 E	18	83*
11 2	20 28.40	−26 8.2	1.522	1.722	34.9	15.8	84 E	19	77*
11 12	20 50.04	−24 37.6	1.586	1.698	34.9	15.9	79 E	20	71*
11 22	21 12.96	−22 49.9	1.649	1.677	34.5	15.9	74 E	22	65*
12 2	21 36.78	−20 45.3	1.712	1.660	34.0	16.0	70 E	24	60*
12 12	22 1.25	−18 24.7	1.775	1.646	33.2	16.0	66 E	27*	54*
12 22	22 26.09	−15 49.8	1.838	1.637	32.2	16.1	63 E	29*	49*
1 1	22 51.15	−13 2.8	1.902	1.632	31.1	16.1	59 E	31*	43*
1 11	23 16.33	−10 6.2	1.968	1.631	29.9	16.1	56 E	32*	39*
1 21	23 41.53	− 7 2.9	2.035	1.634	28.5	16.2	53 E	33*	34*
265032 2003 *OU*									
12 27	16 50.85	− 3 51.2	3.068	2.267	12.4	21.5	30 W	23*	5*
1 6	17 10.05	− 3 21.3	2.925	2.184	14.7	21.4	34 W	27*	11*
1 16	17 30.25	− 2 35.1	2.772	2.099	17.1	21.2	39 W	30*	16*
1 26	17 51.54	− 1 30.3	2.612	2.011	19.6	21.1	43 W	32*	22*
2 5	18 14.08	− 0 4.8	2.448	1.920	22.1	20.9	47 W	34*	27*
2 15	18 38.08	+ 1 44.1	2.283	1.825	24.8	20.7	51 W	36*	31*
2 25	19 3.82	+ 3 58.3	2.121	1.728	27.5	20.5	54 W	38*	34*
3 7	19 31.70	+ 6 39.4	1.964	1.627	30.3	20.3	56 W	39*	36*
3 17	20 2.25	+ 9 47.7	1.817	1.523	33.2	20.1	57 W	40*	36*
3 22	20 18.72	+11 31.2	1.749	1.470	34.7	20.0	57 W	41*	36*
3 27	20 36.12	+13 20.2	1.684	1.416	36.3	19.9	57 W	41*	36*
4 1	20 54.56	+15 13.5	1.624	1.362	37.8	19.7	57 W	41*	35*
4 6	21 14.16	+17 9.5	1.569	1.307	39.4	19.6	56 W	41*	34*
4 11	21 35.01	+19 6.4	1.520	1.251	41.0	19.5	55 W	40*	32*
4 16	21 57.21	+21 1.4	1.476	1.196	42.5	19.4	54 W	40*	31*
4 21	22 20.84	+22 51.3	1.439	1.140	44.0	19.3	52 W	39*	29*
4 26	22 45.95	+24 32.5	1.408	1.084	45.4	19.1	50 W	37*	27*
5 1	23 12.52	+26 1.0	1.384	1.029	46.5	19.0	48 W	35*	26*
5 6	23 40.46	+27 12.8	1.367	0.974	47.5	18.9	45 W	33*	24*
5 11	0 9.61	+28 4.1	1.356	0.922	48.1	18.8	43 W	31*	22*
5 16	0 39.72	+28 31.8	1.353	0.871	48.3	18.7	40 W	28*	21*
5 21	1 10.48	+28 33.5	1.356	0.824	48.1	18.5	37 W	25*	19*
5 26	1 41.57	+28 8.4	1.365	0.782	47.3	18.4	35 W	22*	18*
5 31	2 12.66	+27 17.0	1.379	0.745	45.9	18.3	32 W	19*	17*
6 5	2 43.46	+26 1.2	1.399	0.716	44.0	18.2	29 W	16*	17*
6 10	3 13.74	+24 24.1	1.423	0.696	41.7	18.1	27 W	13*	16*
6 15	3 43.31	+22 29.8	1.451	0.687	39.2	18.1	25 W	10*	16*
6 20	4 11.99	+20 22.8	1.482	0.688	36.6	18.0	24 W	7*	16*
6 25	4 39.67	+18 7.6	1.516	0.700	34.2	18.0	23 W	4*	16*
6 30	5 6.26	+15 48.4	1.552	0.722	32.2	18.1	22 W	2*	16*
7 5	5 31.67	+13 28.5	1.591	0.753	30.5	18.2	22 W	—	16*
7 10	5 55.88	+11 10.3	1.632	0.791	29.1	18.3	22 W	—	16*
7 15	6 18.85	+ 8 55.8	1.676	0.835	28.0	18.5	23 W	—	17*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
265032 2003 *OU* *(continuation)*									
7 20	6 40.61	+ 6 45.8	1.721	0.883	26.9	18.6	23 W	—	17*
7 25	7 1.20	+ 4 41.2	1.768	0.934	26.0	18.8	24 W	—	17*
8 4	7 39.07	+ 0 48.6	1.867	1.042	24.4	19.1	25 W	—	18*
8 14	8 12.95	− 2 42.8	1.968	1.153	23.0	19.4	26 W	—	20*
8 24	8 43.34	− 5 55.0	2.068	1.264	21.9	19.6	28 W	—	21*
9 3	9 10.74	− 8 50.9	2.163	1.375	21.0	19.9	29 W	—	23*
9 13	9 35.54	−11 33.4	2.251	1.483	20.5	20.1	31 W	2*	25*
9 23	9 58.08	−14 4.5	2.329	1.588	20.3	20.3	33 W	5*	27*
10 3	10 18.61	−16 26.1	2.395	1.690	20.3	20.5	36 W	8*	30*
10 13	10 37.33	−18 39.9	2.447	1.788	20.6	20.7	39 W	11*	33*
10 23	10 54.32	−20 46.7	2.484	1.884	21.1	20.9	43 W	13*	36*
11 2	11 9.67	−22 47.2	2.506	1.976	21.7	21.0	48 W	15*	40*
11 12	11 23.34	−24 41.9	2.512	2.066	22.4	21.1	53 W	17*	45*
11 22	11 35.27	−26 30.5	2.502	2.152	23.0	21.2	58 W	17*	51*
12 2	11 45.33	−28 12.9	2.478	2.235	23.4	21.3	64 W	17*	57*
12 12	11 53.32	−29 48.2	2.440	2.316	23.7	21.4	71 W	15	64*
12 22	11 58.99	−31 14.8	2.390	2.394	23.7	21.4	78 W	14	72*
1 1	12 2.07	−32 30.5	2.332	2.469	23.4	21.4	86 W	12	80*
1 11	12 2.26	−33 31.8	2.268	2.542	22.7	21.4	94 W	11	82
1 21	11 59.34	−34 14.1	2.203	2.612	21.5	21.3	103 W	11	82
160707 2000 QP_{10}									
12 27	16 51.40	−24 57.1	3.190	2.300	8.8	21.4	21 W	6*	13*
1 6	17 13.29	−25 25.9	3.106	2.266	11.1	21.4	26 W	8*	19*
1 16	17 35.58	−25 43.7	3.013	2.232	13.3	21.4	31 W	9*	24*
1 26	17 58.17	−25 49.9	2.911	2.198	15.4	21.4	36 W	10*	30*
2 5	18 20.97	−25 43.9	2.802	2.164	17.6	21.3	41 W	11*	35*
2 15	18 43.89	−25 25.3	2.687	2.129	19.6	21.3	46 W	11*	40*
2 25	19 6.80	−24 54.2	2.566	2.094	21.6	21.2	51 W	12*	45*
3 7	19 29.61	−24 10.6	2.442	2.059	23.6	21.1	56 W	13*	50*
3 17	19 52.24	−23 14.8	2.315	2.024	25.4	21.0	61 W	13*	55*
3 27	20 14.57	−22 7.4	2.187	1.990	27.1	20.9	65 W	14*	59*
4 6	20 36.55	−20 48.9	2.058	1.956	28.7	20.8	70 W	15*	64*
4 16	20 58.09	−19 20.3	1.929	1.922	30.2	20.7	74 W	16*	68*
4 26	21 19.10	−17 42.6	1.802	1.889	31.5	20.5	79 W	18*	73*
5 6	21 39.54	−15 56.8	1.678	1.857	32.7	20.3	84 W	20*	76*
5 16	21 59.32	−14 4.4	1.556	1.827	33.6	20.2	88 W	22*	77*
5 26	22 18.31	−12 6.8	1.439	1.797	34.3	20.0	93 W	25*	76
6 5	22 36.42	−10 5.5	1.326	1.769	34.7	19.8	97 W	28*	74
6 15	22 53.46	− 8 2.5	1.218	1.743	34.7	19.6	102 W	32*	72
6 25	23 9.21	− 5 59.9	1.115	1.719	34.3	19.3	107 W	36*	70
7 5	23 23.38	− 3 59.7	1.020	1.697	33.5	19.1	113 W	40*	68
7 15	23 35.58	− 2 4.9	0.931	1.678	32.0	18.8	119 W	43*	66
7 25	23 45.36	− 0 18.5	0.851	1.661	29.9	18.5	125 W	45	64
8 4	23 52.23	+ 1 16.3	0.780	1.647	26.9	18.3	133 W	46	63
8 14	23 55.69	+ 2 35.4	0.719	1.636	22.9	17.9	141 W	48	61
8 24	23 55.52	+ 3 35.2	0.671	1.628	18.0	17.6	150 W	49	60
9 3	23 51.94	+ 4 13.3	0.638	1.623	12.2	17.3	160 W	49	60
9 13	23 45.79	+ 4 29.3	0.622	1.622	6.2	17.0	170 W	49	60
9 18	23 42.27	+ 4 30.4	0.620	1.622	4.0	16.9	174 W	50	59
9 23	23 38.75	+ 4 27.9	0.623	1.624	4.2	16.9	173 E	49	60
9 28	23 35.48	+ 4 23.1	0.631	1.626	6.6	17.1	169 E	49	60
10 3	23 32.67	+ 4 17.0	0.643	1.629	9.6	17.2	164 E	49	60
10 8	23 30.51	+ 4 10.9	0.660	1.633	12.6	17.4	159 E	49	60
10 13	23 29.16	+ 4 6.1	0.681	1.637	15.4	17.6	154 E	49	60
10 18	23 28.71	+ 4 3.7	0.706	1.643	18.1	17.8	149 E	49	60
10 23	23 29.21	+ 4 4.2	0.735	1.649	20.5	17.9	144 E	49	60
11 2	23 32.99	+ 4 16.3	0.802	1.663	24.7	18.3	136 E	49	60
11 12	23 40.26	+ 4 44.6	0.883	1.681	27.8	18.6	128 E	50	59
11 22	23 50.54	+ 5 29.0	0.974	1.701	30.1	18.9	120 E	50	59
12 2	0 3.24	+ 6 27.7	1.074	1.723	31.7	19.2	113 E	51	58
12 12	0 17.90	+ 7 38.6	1.182	1.747	32.6	19.4	107 E	53	56*
12 22	0 34.09	+ 8 59.0	1.296	1.774	32.9	19.7	101 E	54	53*
1 1	0 51.47	+10 26.2	1.416	1.802	32.9	19.9	96 E	55	50*
1 11	1 9.82	+11 57.8	1.541	1.832	32.5	20.1	90 E	57	46*
1 21	1 28.93	+13 31.4	1.670	1.862	31.8	20.3	85 E	59	42*
2062 Aten									
12 27	16 51.95	−13 56.6	1.609	0.810	29.1	18.9	24 W	15*	9*
1 1	17 16.87	−15 14.3	1.620	0.802	27.7	18.9	22 W	13*	9*
1 6	17 42.08	−16 22.8	1.631	0.796	26.3	18.9	21 W	12*	9*
1 11	18 7.51	−17 20.7	1.644	0.792	24.9	18.8	20 W	10*	9*
1 16	18 33.11	−18 7.0	1.658	0.790	23.4	18.8	19 W	8*	9*
1 26	19 24.40	−19 1.8	1.688	0.793	20.4	18.7	16 W	5*	9*
2 5	20 15.21	−19 3.7	1.720	0.804	17.8	18.7	14 W	1*	8*
2 15	21 4.75	−18 13.5	1.754	0.822	15.7	18.8	13 W	—	7*
2 20	21 28.84	−17 30.4	1.771	0.834	14.9	18.8	13 W	—	7*
2 25	21 52.39	−16 36.6	1.787	0.846	14.3	18.8	12 W	—	6*

2062 Aten *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 2	22 15.36	−15 33.1	1.804	0.860	13.9	18.8	12 W	—	6*
3 7	22 37.74	−14 21.1	1.821	0.875	13.6	18.9	12 W	—	5*
3 12	22 59.52	−13 1.8	1.839	0.890	13.3	18.9	12 W	—	5*
3 17	23 20.72	−11 36.5	1.856	0.906	13.2	19.0	12 W	—	4*
3 22	23 41.34	−10 6.5	1.873	0.922	13.1	19.1	12 W	—	4*
3 27	0 1.43	− 8 32.7	1.889	0.939	13.0	19.1	12 W	—	4*
4 1	0 21.01	− 6 56.4	1.906	0.955	13.0	19.2	12 W	—	3*
4 6	0 40.14	− 5 18.4	1.923	0.971	13.0	19.2	13 W	—	3*
4 11	0 58.86	− 3 39.6	1.939	0.987	13.0	19.3	13 W	—	3*
4 16	1 17.20	− 2 0.9	1.955	1.002	12.9	19.3	13 W	—	4*
4 21	1 35.22	− 0 23.1	1.970	1.017	12.9	19.4	13 W	—	4*
4 26	1 52.95	+ 1 13.4	1.985	1.031	12.9	19.4	13 W	—	4*
5 6	2 27.73	+ 4 19.7	2.012	1.058	12.8	19.5	13 W	—	5*
5 16	3 1.85	+ 7 14.3	2.036	1.081	12.8	19.6	14 W	—	6*
5 26	3 35.58	+ 9 54.0	2.056	1.101	12.9	19.6	14 W	—	7*
6 5	4 9.14	+12 16.5	2.071	1.118	13.1	19.7	14 W	—	8*
6 15	4 42.73	+14 20.0	2.081	1.130	13.4	19.7	15 W	—	9*
6 25	5 16.47	+16 2.9	2.085	1.139	13.8	19.8	16 W	—	10*
7 5	5 50.49	+17 24.0	2.082	1.143	14.5	19.8	16 W	—	10*
7 15	6 24.88	+18 22.1	2.074	1.143	15.3	19.8	17 W	2*	10*
7 25	6 59.68	+18 56.4	2.059	1.139	16.2	19.8	18 W	5*	10*
8 4	7 34.95	+19 6.0	2.038	1.131	17.3	19.8	19 W	8*	10*
8 14	8 10.71	+18 50.2	2.011	1.119	18.4	19.8	20 W	11*	10*
8 24	8 46.98	+18 8.3	1.980	1.104	19.6	19.8	22 W	13*	9*
9 3	9 23.83	+16 59.9	1.945	1.084	20.9	19.7	22 W	15*	8*
9 13	10 1.28	+15 24.6	1.907	1.061	22.0	19.7	23 W	17*	7*
9 23	10 39.40	+13 22.5	1.869	1.035	23.2	19.6	24 W	18*	6*
10 3	11 18.30	+10 54.0	1.831	1.006	24.1	19.6	24 W	18*	5*
10 13	11 58.07	+ 8 0.5	1.795	0.975	24.8	19.5	24 W	18*	4*
10 23	12 38.83	+ 4 44.4	1.763	0.943	25.2	19.4	24 W	18*	3*
11 2	13 20.76	+ 1 9.6	1.737	0.911	25.2	19.3	23 W	17*	2*
11 7	13 42.21	− 0 43.0	1.727	0.895	25.0	19.2	22 W	16*	1*
11 12	14 4.01	− 2 37.8	1.718	0.879	24.7	19.1	22 W	16*	1*
11 17	14 26.18	− 4 33.9	1.712	0.864	24.1	19.1	21 W	15*	1*
11 22	14 48.74	− 6 30.0	1.708	0.850	23.5	19.0	20 W	14*	1*
11 27	15 11.71	− 8 24.8	1.705	0.837	22.6	19.0	19 W	13*	1*
12 2	15 35.10	−10 17.0	1.705	0.825	21.6	18.9	18 W	12*	1*
12 7	15 58.91	−12 4.8	1.707	0.815	20.4	18.8	17 W	11*	—
12 12	16 23.14	−13 46.8	1.710	0.806	19.1	18.8	16 W	9*	—
12 17	16 47.77	−15 21.4	1.715	0.799	17.7	18.7	14 W	8*	—
12 22	17 12.78	−16 47.0	1.721	0.794	16.1	18.7	13 W	6*	—
12 27	17 38.12	−18 2.2	1.729	0.791	14.5	18.6	12 W	5*	—
1 1	18 3.72	−19 5.5	1.738	0.790	12.8	18.5	10 W	3*	—
1 6	18 29.50	−19 56.0	1.748	0.792	11.2	18.5	9 W	2*	—
1 11	18 55.37	−20 32.6	1.758	0.795	9.7	18.5	8 W	—	—
1 16	19 21.20	−20 54.9	1.769	0.801	8.2	18.4	7 W	—	—
1 21	19 46.89	−21 2.6	1.781	0.808	7.1	18.4	6 W	—	—

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12 27	16 52.15	−22 36.5	3.251	2.360	8.6	21.2	21 W	8*	12*
1 6	17 12.89	−22 59.4	3.172	2.332	10.8	21.2	26 W	10*	18*
1 16	17 33.86	−23 11.9	3.081	2.304	13.0	21.2	32 W	11*	24*
1 26	17 54.97	−23 13.5	2.982	2.275	15.1	21.2	37 W	13*	30*
2 5	18 16.11	−23 4.0	2.874	2.246	17.2	21.2	42 W	14*	35*
2 15	18 37.20	−22 43.3	2.758	2.217	19.2	21.1	48 W	15*	41*
2 25	18 58.12	−22 11.5	2.637	2.187	21.2	21.0	53 W	15*	46*
3 7	19 18.77	−21 29.0	2.510	2.156	23.0	21.0	58 W	16*	52*
3 17	19 39.07	−20 36.2	2.379	2.126	24.7	20.9	63 W	17*	57*
3 27	19 58.90	−19 33.8	2.246	2.095	26.3	20.8	68 W	18*	62*
4 6	20 18.19	−18 22.6	2.111	2.065	27.7	20.6	74 W	19*	67*
4 16	20 36.83	−17 3.8	1.976	2.034	28.9	20.5	79 W	21*	72*
4 26	20 54.71	−15 38.5	1.841	2.004	30.0	20.3	84 W	22*	76*
5 6	21 11.74	−14 8.0	1.708	1.974	30.7	20.2	89 W	24*	78*
5 16	21 27.76	−12 34.0	1.578	1.944	31.2	20.0	95 W	27*	77
5 26	21 42.60	−10 58.3	1.451	1.915	31.4	19.8	100 W	29*	75
6 5	21 56.07	− 9 22.9	1.330	1.886	31.1	19.5	106 W	32*	73
6 15	22 7.87	− 7 50.6	1.214	1.859	30.3	19.3	113 W	35*	72
6 25	22 17.69	− 6 24.1	1.106	1.832	28.9	19.0	119 W	38*	70
7 5	22 25.15	− 5 6.9	1.006	1.807	26.8	18.7	127 W	40	69
7 15	22 29.80	− 4 3.1	0.916	1.783	24.0	18.4	135 W	41	68
7 25	22 31.33	− 3 16.9	0.838	1.761	20.1	18.0	143 W	42	67
8 4	22 29.58	− 2 52.1	0.774	1.740	15.4	17.7	153 W	42	67
8 14	22 24.78	− 2 51.2	0.727	1.721	9.9	17.3	163 W	42	67
8 24	22 17.88	− 3 12.8	0.698	1.705	4.8	17.0	172 W	42	67
8 29	22 14.09	− 3 30.4	0.690	1.697	4.2	16.9	173 E	41	68
9 3	22 10.36	− 3 51.2	0.688	1.690	6.0	17.0	170 E	41	68
9 8	22 6.92	− 4 14.0	0.690	1.684	8.8	17.1	165 E	41	68
9 13	22 4.01	− 4 37.2	0.697	1.678	11.8	17.3	160 E	40	69
9 18	22 1.82	− 4 59.6	0.708	1.673	14.8	17.4	155 E	40	69
9 23	22 0.47	− 5 19.8	0.724	1.669	17.6	17.5	150 E	40	69

124311 2001 QO_{73} *(continuation)*

9 28	22 0.06	− 5 37.0	0.743	1.665	20.3	17.7	145 E	39	70
10 3	22 0.65	− 5 50.4	0.766	1.662	22.7	17.8	140 E	39	70
10 13	22 4.85	− 6 3.3	0.821	1.658	26.9	18.1	131 E	39	70
10 23	22 12.85	− 5 55.7	0.886	1.657	30.1	18.3	123 E	39	70
11 2	22 24.12	− 5 27.4	0.961	1.658	32.5	18.6	116 E	40	69
11 12	22 38.09	− 4 39.4	1.042	1.663	34.1	18.8	110 E	40	69
11 22	22 54.20	− 3 33.5	1.130	1.670	35.1	19.0	104 E	41	68*
12 2	23 11.94	− 2 12.2	1.223	1.679	35.5	19.2	98 E	43	65*
12 12	23 30.94	− 0 37.9	1.321	1.691	35.5	19.4	93 E	44	60*
12 22	23 50.89	+ 1 6.6	1.423	1.706	35.2	19.6	88 E	46	56*
1 1	0 11.55	+ 2 58.4	1.528	1.722	34.6	19.7	84 E	48	51*
1 11	0 32.78	+ 4 55.2	1.636	1.741	33.7	19.9	79 E	50	46*
1 21	0 54.45	+ 6 54.1	1.746	1.762	32.6	20.0	75 E	51*	41*

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12 27	16 52.28	−17 21.5	3.323	2.441	8.7	17.6	22 W	12*	10*
1 6	17 10.74	−17 23.9	3.262	2.437	10.9	17.7	28 W	15*	16*
1 16	17 29.01	−17 16.2	3.188	2.432	13.0	17.7	34 W	17*	23*
1 26	17 46.98	−16 58.2	3.102	2.425	15.0	17.7	40 W	19*	29*
2 5	18 4.54	−16 29.8	3.005	2.418	16.9	17.7	45 W	21*	36*
2 15	18 21.59	−15 51.2	2.898	2.409	18.7	17.7	51 W	22*	42*
2 25	18 37.99	−15 2.6	2.782	2.398	20.4	17.6	57 W	24*	49*
3 7	18 53.64	−14 4.5	2.658	2.387	21.8	17.6	64 W	25*	55*
3 17	19 8.38	−12 57.4	2.527	2.374	23.2	17.5	70 W	27*	61*
3 27	19 22.07	−11 41.9	2.392	2.360	24.2	17.4	76 W	29*	66*
4 6	19 34.53	−10 18.8	2.254	2.345	25.0	17.3	83 W	31*	70*
4 16	19 45.58	− 8 49.0	2.114	2.329	25.5	17.1	89 W	33*	72*
4 26	19 54.97	− 7 13.9	1.975	2.311	25.6	17.0	96 W	35*	71
5 6	20 2.45	− 5 34.8	1.838	2.292	25.3	16.8	103 W	38*	70
5 16	20 7.71	− 3 53.7	1.706	2.272	24.6	16.6	111 W	40*	68
5 26	20 10.42	− 2 13.5	1.581	2.251	23.2	16.4	119 W	43*	66
6 5	20 10.29	− 0 37.7	1.466	2.229	21.3	16.1	127 W	44	65
6 10	20 9.06	+ 0 7.1	1.413	2.218	20.1	16.0	131 W	45	64
6 15	20 7.04	+ 0 48.8	1.363	2.206	18.8	15.9	136 W	46	63
6 20	20 4.23	+ 1 26.6	1.318	2.194	17.4	15.7	140 W	46	63
6 25	20 0.66	+ 1 59.7	1.277	2.182	16.0	15.6	144 W	47	62
6 30	19 56.39	+ 2 27.3	1.241	2.169	14.5	15.5	148 W	47	62
7 5	19 51.49	+ 2 48.5	1.210	2.156	13.2	15.4	151 W	48	61
7 15	19 40.28	+ 3 9.1	1.164	2.130	11.5	15.2	155 W	48	61
7 25	19 28.34	+ 2 58.4	1.141	2.103	12.1	15.1	154 E	48	61
8 4	19 17.15	+ 2 17.6	1.140	2.075	14.7	15.2	149 E	47	62
8 9	19 12.30	+ 1 47.4	1.147	2.060	16.5	15.3	145 E	47	62
8 14	19 8.15	+ 1 12.1	1.159	2.046	18.3	15.3	141 E	46	63
8 19	19 4.83	+ 0 32.7	1.175	2.031	20.2	15.4	136 E	46	63
8 24	19 2.39	− 0 9.7	1.196	2.016	21.9	15.5	132 E	45	64
8 29	19 0.90	− 0 53.9	1.219	2.001	23.6	15.5	127 E	44	65
9 3	19 0.36	− 1 39.0	1.246	1.985	25.2	15.6	123 E	43	66
9 8	19 0.79	− 2 24.3	1.275	1.970	26.6	15.7	119 E	43	66
9 13	19 2.18	− 3 8.7	1.306	1.954	27.9	15.8	115 E	42	67
9 23	19 7.66	− 4 32.8	1.373	1.923	29.9	15.9	107 E	40	69
10 3	19 16.46	− 5 47.3	1.444	1.891	31.4	16.0	100 E	39	70
10 13	19 28.22	− 6 49.3	1.516	1.858	32.4	16.1	93 E	38	70*
10 23	19 42.58	− 7 36.7	1.588	1.826	33.0	16.2	87 E	37	67*
11 2	19 59.15	− 8 8.3	1.658	1.793	33.1	16.3	81 E	37*	63*
11 12	20 17.66	− 8 23.0	1.725	1.761	33.0	16.3	75 E	37*	58*
11 22	20 37.80	− 8 20.5	1.789	1.729	32.6	16.3	70 E	36*	52*
12 2	20 59.33	− 8 0.6	1.849	1.697	31.9	16.3	66 E	36*	46*
12 12	21 22.05	− 7 23.6	1.905	1.666	31.1	16.3	61 E	36*	41*
12 22	21 45.76	− 6 30.1	1.956	1.637	30.1	16.3	57 E	36*	36*
1 1	22 10.32	− 5 21.3	2.003	1.608	29.1	16.3	53 E	36*	31*
1 11	22 35.62	− 3 58.5	2.046	1.581	27.9	16.3	49 E	35*	27*
1 21	23 1.56	− 2 23.5	2.085	1.556	26.6	16.3	45 E	33*	23*

85383 1996 *MS*

12 27	16 52.35	−18 2.2	3.344	2.459	8.6	21.1	22 W	11*	10*
1 6	17 11.99	−18 33.5	3.249	2.418	10.8	21.1	27 W	14*	16*
1 16	17 32.00	−18 55.6	3.144	2.377	12.9	21.0	33 W	15*	23*
1 26	17 52.32	−19 7.8	3.031	2.335	15.0	21.0	38 W	17*	29*
2 5	18 12.87	−19 10.0	2.909	2.293	17.1	20.9	43 W	18*	35*
2 15	18 33.60	−19 2.0	2.781	2.250	19.2	20.9	48 W	18*	41*
2 25	18 54.40	−18 44.0	2.648	2.208	21.1	20.8	54 W	19*	46*
3 7	19 15.22	−18 16.2	2.511	2.166	23.0	20.7	59 W	19*	52*
3 17	19 36.00	−17 39.0	2.372	2.124	24.8	20.6	64 W	20*	57*
3 27	19 56.64	−16 53.4	2.231	2.083	26.5	20.4	68 W	21*	62*
4 6	20 17.11	−16 0.1	2.090	2.041	28.0	20.3	73 W	21*	66*
4 16	20 37.34	−15 0.5	1.950	2.001	29.4	20.1	78 W	22*	71*
4 26	20 57.27	−13 56.2	1.812	1.961	30.6	20.0	83 W	24*	74*
5 6	21 16.85	−12 48.8	1.677	1.923	31.6	19.8	88 W	25*	76*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	85383 1996 *MS*				*(continuation)*				
	h m	° ′			°	m	°	°	°
5 16	21 35.99	−11 40.6	1.547	1.886	32.4	19.6	93 W	27*	76
5 26	21 54.60	−10 34.3	1.421	1.850	32.9	19.4	98 W	29*	75
6 5	22 12.58	− 9 32.7	1.301	1.816	33.0	19.2	103 W	31*	74
6 15	22 29.75	− 8 39.4	1.188	1.785	32.8	18.9	108 W	33*	73
6 25	22 45.88	− 7 58.7	1.082	1.755	32.1	18.7	113 W	36*	72
7 5	23 0.72	− 7 34.8	0.984	1.729	30.8	18.4	119 W	37*	72
7 15	23 13.85	− 7 32.5	0.896	1.705	28.9	18.1	126 W	37	72
7 25	23 24.86	− 7 56.1	0.818	1.684	26.1	17.8	133 W	37	72
8 4	23 33.29	− 8 48.2	0.752	1.667	22.6	17.5	141 W	36	73
8 14	23 38.72	−10 8.6	0.699	1.653	18.2	17.2	149 W	35	74
8 19	23 40.25	−10 57.7	0.679	1.648	15.8	17.0	154 W	34	75
8 24	23 41.04	−11 51.0	0.662	1.643	13.3	16.9	158 W	33	76
8 29	23 41.11	−12 46.8	0.649	1.640	10.9	16.7	162 W	32	77
9 3	23 40.55	−13 43.1	0.641	1.638	8.8	16.6	166 W	31	78
9 8	23 39.51	−14 37.5	0.637	1.636	7.4	16.5	168 W	30	79
9 13	23 38.14	−15 27.5	0.638	1.636	7.4	16.5	168 W	30	79
9 18	23 36.67	−16 11.0	0.644	1.637	8.7	16.6	166 E	29	80
9 23	23 35.27	−16 46.1	0.654	1.638	10.8	16.7	162 E	28	81
9 28	23 34.12	−17 11.7	0.668	1.641	13.2	16.9	158 E	28	81
10 3	23 33.39	−17 26.9	0.686	1.644	15.6	17.0	154 E	28	81
10 13	23 33.70	−17 25.5	0.735	1.655	20.2	17.3	145 E	28	81
10 23	23 36.87	−16 44.5	0.798	1.669	24.1	17.6	137 E	28	81
11 2	23 42.92	−15 30.6	0.874	1.686	27.1	18.0	129 E	29	80
11 7	23 46.96	−14 43.5	0.916	1.696	28.3	18.1	126 E	30	79
11 12	23 51.63	−13 50.8	0.960	1.707	29.4	18.3	122 E	31	78
11 17	23 56.87	−12 53.4	1.008	1.719	30.2	18.4	119 E	32	77
11 22	0 2.62	−11 52.0	1.057	1.732	30.9	18.5	116 E	33	76
11 27	0 8.81	−10 47.3	1.109	1.745	31.5	18.7	113 E	34	75
12 2	0 15.40	− 9 40.0	1.163	1.759	31.9	18.8	110 E	35	74
12 7	0 22.36	− 8 30.5	1.219	1.773	32.2	18.9	107 E	36	73
12 12	0 29.65	− 7 19.4	1.276	1.788	32.3	19.1	104 E	38	71*
12 22	0 45.04	− 4 54.2	1.397	1.820	32.3	19.3	98 E	40	67*
1 1	1 1.31	− 2 27.4	1.523	1.854	32.0	19.5	93 E	43	62*
1 11	1 18.31	− 0 1.4	1.655	1.890	31.3	19.7	88 E	45	57*
1 21	1 35.89	+ 2 21.5	1.790	1.927	30.4	19.9	83 E	47	52*
	232757 2004 NJ_7								
12 27	16 52.51	−22 19.7	2.480	1.601	12.7	20.5	21 W	8*	12*
1 6	17 24.26	−22 42.6	2.435	1.586	14.5	20.5	24 W	9*	15*
1 16	17 56.33	−22 41.1	2.390	1.574	16.3	20.6	27 W	9*	19*
1 26	18 28.39	−22 14.6	2.346	1.565	18.0	20.6	29 W	10*	22*
2 5	19 0.13	−21 23.7	2.304	1.560	19.6	20.6	32 W	10*	25*
2 15	19 31.28	−20 9.7	2.263	1.559	21.2	20.6	35 W	11*	28*
2 25	20 1.58	−18 35.0	2.223	1.562	22.8	20.6	38 W	11*	31*
3 7	20 30.87	−16 42.4	2.184	1.568	24.3	20.6	40 W	12*	34*
3 17	20 59.01	−14 35.3	2.146	1.578	25.7	20.6	43 W	12*	37*
3 27	21 25.95	−12 17.1	2.106	1.591	27.0	20.6	46 W	13*	40*
4 6	21 51.65	− 9 51.3	2.067	1.608	28.2	20.7	49 W	14*	43*
4 16	22 16.13	− 7 21.0	2.026	1.628	29.4	20.7	53 W	16*	46*
4 26	22 39.39	− 4 49.5	1.983	1.650	30.4	20.7	56 W	17*	49*
5 6	23 1.44	− 2 19.3	1.937	1.675	31.4	20.7	60 W	20*	52*
5 16	23 22.28	+ 0 7.1	1.888	1.703	32.2	20.7	64 W	22*	54*
5 26	23 41.86	+ 2 27.6	1.836	1.732	32.8	20.7	68 W	25*	56*
6 5	0 0.15	+ 4 40.3	1.780	1.763	33.3	20.7	72 W	29*	57*
6 15	0 17.03	+ 6 43.6	1.721	1.796	33.5	20.6	77 W	34*	57*
6 25	0 32.33	+ 8 35.7	1.658	1.829	33.4	20.6	83 W	39*	55
7 5	0 45.87	+10 15.4	1.592	1.864	33.0	20.5	88 W	45*	54
7 15	0 57.35	+11 40.9	1.524	1.900	32.2	20.5	95 W	51*	52
7 25	1 6.44	+12 50.5	1.455	1.936	30.9	20.4	102 W	56*	51
8 4	1 12.78	+13 42.3	1.387	1.973	29.0	20.3	109 W	59*	50
8 14	1 15.97	+14 13.9	1.323	2.010	26.4	20.1	118 W	59	50
8 24	1 15.75	+14 22.7	1.266	2.047	23.0	20.0	128 W	59	50
9 3	1 12.04	+14 6.8	1.221	2.084	18.9	19.8	138 W	59	50
9 13	1 5.13	+13 25.1	1.191	2.121	14.0	19.6	149 W	58	51
9 18	1 0.72	+12 55.3	1.184	2.139	11.3	19.5	155 W	58	51
9 23	0 55.86	+12 20.3	1.182	2.157	8.6	19.4	161 W	57	52
9 28	0 50.71	+11 41.1	1.187	2.175	5.8	19.3	167 W	57	52
10 3	0 45.47	+10 58.8	1.197	2.193	3.4	19.2	172 W	56	53
10 8	0 40.31	+10 14.8	1.215	2.211	2.5	19.2	174 E	55	54
10 13	0 35.42	+ 9 30.5	1.239	2.229	4.1	19.4	171 E	55	54
10 18	0 30.96	+ 8 47.3	1.269	2.247	6.5	19.6	165 E	54	55
10 23	0 27.06	+ 8 6.6	1.306	2.264	8.9	19.8	159 E	53	56
10 28	0 23.80	+ 7 29.2	1.349	2.282	11.2	19.9	154 E	52	57
11 2	0 21.25	+ 6 56.1	1.397	2.299	13.3	20.1	148 E	52	57
11 12	0 18.39	+ 6 4.4	1.509	2.333	16.8	20.4	137 E	51	58
11 22	0 18.48	+ 5 33.7	1.639	2.366	19.5	20.7	127 E	51	58
12 2	0 21.26	+ 5 23.0	1.782	2.399	21.4	21.0	117 E	50	59
12 12	0 26.39	+ 5 30.6	1.934	2.431	22.6	21.2	108 E	51	58*
12 22	0 33.51	+ 5 53.7	2.093	2.462	23.2	21.5	100 E	51	56*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	405401 2004 PH_{35}								
	h m	° ′			°	m	°	°	°
12 27	16 52.82	−37 50.8	2.480	1.634	14.3	21.2	24 W	—	18*
1 1	17 11.16	−38 11.4	2.465	1.630	14.9	21.3	25 W	—	19*
1 6	17 29.60	−38 23.1	2.450	1.627	15.5	21.3	26 W	—	20*
1 11	17 48.07	−38 26.0	2.435	1.625	16.1	21.3	27 W	—	21*
1 16	18 6.47	−38 19.9	2.420	1.623	16.8	21.3	28 W	—	22*
1 21	18 24.70	−38 5.1	2.405	1.623	17.4	21.3	30 W	—	23*
1 26	18 42.69	−37 41.7	2.390	1.623	18.0	21.3	31 W	—	24*
1 31	19 0.35	−37 10.1	2.376	1.624	18.6	21.3	32 W	—	25*
2 5	19 17.65	−36 30.7	2.361	1.625	19.3	21.3	33 W	—	26*
2 10	19 34.50	−35 44.0	2.346	1.628	19.9	21.3	34 W	—	27*
2 15	19 50.88	−34 50.6	2.331	1.631	20.6	21.3	35 W	—	28*
2 20	20 6.75	−33 51.1	2.315	1.635	21.2	21.3	37 W	—	29*
2 25	20 22.09	−32 46.0	2.299	1.639	21.9	21.3	38 W	—	31*
3 2	20 36.89	−31 36.0	2.282	1.645	22.6	21.4	40 W	—	32*
3 7	20 51.16	−30 21.6	2.265	1.651	23.2	21.4	41 W	—	34*
3 12	21 4.89	−29 3.3	2.247	1.658	23.9	21.4	43 W	—	35*
3 17	21 18.09	−27 41.8	2.228	1.665	24.6	21.4	44 W	—	37*
3 22	21 30.77	−26 17.5	2.208	1.673	25.3	21.4	46 W	—	38*
3 27	21 42.96	−24 50.9	2.188	1.682	25.9	21.4	47 W	1*	40*
4 1	21 54.65	−23 22.3	2.166	1.691	26.6	21.4	49 W	2*	42*
4 6	22 5.89	−21 52.2	2.143	1.701	27.2	21.4	51 W	3*	44*
4 11	22 16.66	−20 20.8	2.119	1.712	27.8	21.4	53 W	4*	46*
4 16	22 27.00	−18 48.5	2.093	1.723	28.4	21.4	55 W	5*	48*
4 21	22 36.91	−17 15.5	2.066	1.734	29.0	21.4	57 W	6*	51*
4 26	22 46.39	−15 42.1	2.039	1.747	29.6	21.4	59 W	8*	53*
5 1	22 55.47	−14 8.4	2.009	1.759	30.1	21.4	61 W	9*	55*
5 6	23 4.15	−12 34.7	1.979	1.772	30.6	21.4	63 W	11*	57*
5 11	23 12.42	−11 1.0	1.947	1.785	31.0	21.4	66 W	13*	59*
5 16	23 20.29	− 9 27.5	1.914	1.799	31.4	21.4	68 W	15*	61*
5 21	23 27.75	− 7 54.4	1.880	1.813	31.7	21.4	70 W	17*	63*
5 26	23 34.79	− 6 21.7	1.845	1.827	32.0	21.4	73 W	20*	64*
5 31	23 41.41	− 4 49.4	1.809	1.842	32.2	21.4	76 W	22*	65*
6 5	23 47.58	− 3 17.7	1.772	1.857	32.4	21.4	78 W	25*	66*
6 10	23 53.29	− 1 46.5	1.734	1.872	32.4	21.3	81 W	28*	65*
6 15	23 58.50	− 0 16.1	1.695	1.888	32.4	21.3	84 W	31*	64*
6 20	0 3.19	+ 1 13.6	1.656	1.903	32.2	21.3	87 W	34*	63
6 25	0 7.33	+ 2 42.5	1.617	1.919	32.0	21.2	91 W	38*	61
6 30	0 10.87	+ 4 10.6	1.577	1.935	31.6	21.2	94 W	42*	60
7 5	0 13.77	+ 5 37.7	1.538	1.951	31.1	21.1	98 W	45*	58
7 10	0 15.98	+ 7 3.6	1.499	1.968	30.5	21.1	101 W	48*	57
7 15	0 17.44	+ 8 28.1	1.461	1.984	29.7	21.0	105 W	52*	56
7 20	0 18.11	+ 9 50.9	1.424	2.000	28.7	20.9	109 W	54*	54
7 25	0 17.93	+11 11.6	1.388	2.017	27.6	20.9	113 W	56*	53
7 30	0 16.86	+12 29.8	1.355	2.034	26.3	20.8	117 W	57	52
8 4	0 14.85	+13 44.8	1.324	2.050	24.8	20.7	122 W	59	50
8 9	0 11.89	+14 55.8	1.296	2.067	23.2	20.6	127 W	60	49
8 14	0 7.96	+16 1.9	1.271	2.083	21.4	20.6	131 W	61	48
8 19	0 3.12	+17 2.2	1.250	2.100	19.5	20.5	136 W	62	47
8 24	23 57.44	+17 55.6	1.234	2.117	17.6	20.4	141 W	63	46
8 29	23 51.01	+18 41.4	1.223	2.133	15.6	20.3	145 W	64	45
9 3	23 44.00	+19 18.6	1.218	2.150	13.7	20.3	150 W	64	45
9 8	23 36.59	+19 46.7	1.218	2.166	12.1	20.2	153 W	65	44
9 13	23 29.02	+20 5.5	1.225	2.183	10.8	20.2	156 W	65	44
9 18	23 21.52	+20 15.5	1.238	2.199	10.2	20.2	157 E	65	44
9 23	23 14.32	+20 17.2	1.257	2.215	10.3	20.3	157 E	65	44
9 28	23 7.62	+20 11.9	1.283	2.231	11.0	20.4	155 E	65	44
10 3	23 1.59	+20 0.7	1.315	2.248	12.1	20.5	152 E	65	44
10 8	22 56.37	+19 45.0	1.352	2.263	13.5	20.6	148 E	65	44
10 13	22 52.05	+19 26.5	1.395	2.279	14.9	20.7	144 E	64	45
10 18	22 48.67	+19 6.6	1.443	2.295	16.3	20.9	140 E	64	45
10 23	22 46.24	+18 46.5	1.496	2.311	17.7	21.0	135 E	64	45
10 28	22 44.74	+18 27.2	1.552	2.326	18.9	21.2	131 E	63	46
11 2	22 44.13	+18 9.5	1.613	2.341	20.0	21.3	126 E	63	46
11 7	22 44.37	+17 54.1	1.676	2.356	20.9	21.4	122 E	63	46
	120644 1996 RM_3								
12 27	16 52.93	−27 40.5	4.100	3.200	6.3	21.3	21 W	3*	14*
1 6	17 8.37	−28 8.2	4.014	3.175	8.2	21.3	27 W	6*	21*
1 16	17 23.77	−28 31.6	3.913	3.148	10.1	21.3	34 W	8*	28*
1 26	17 39.02	−28 50.9	3.797	3.120	11.9	21.3	41 W	9*	35*
2 5	17 54.00	−29 6.3	3.668	3.092	13.6	21.3	48 W	10*	42*
2 15	18 8.59	−29 18.2	3.528	3.063	15.2	21.2	55 W	11*	49*
2 25	18 22.63	−29 27.3	3.377	3.032	16.7	21.1	62 W	12*	56*
3 7	18 35.99	−29 34.4	3.218	3.002	17.9	21.1	69 W	12*	62*
3 17	18 48.49	−29 40.5	3.052	2.970	19.0	21.0	76 W	13*	69*
3 27	18 59.93	−29 46.8	2.883	2.937	19.7	20.8	83 W	13*	76*
4 6	19 10.10	−29 54.6	2.711	2.904	20.2	20.7	91 W	13*	83*
4 16	19 18.75	−30 5.2	2.540	2.870	20.2	20.5	99 W	14*	86
4 26	19 25.58	−30 20.2	2.373	2.835	19.8	20.3	107 W	14*	86
5 6	19 30.30	−30 40.4	2.212	2.799	19.0	20.1	116 W	14*	85
5 16	19 32.53	−31 6.7	2.060	2.763	17.5	19.9	125 W	14*	85
5 26	19 31.96	−31 38.8	1.922	2.726	15.5	19.6	134 W	13	84

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
120644 1996 RM_3 *(continuation)*									
6 5	19 28.37	−32 14.9	1.799	2.688	12.8	19.4	144 W	13	84
6 15	19 21.69	−32 51.8	1.697	2.650	9.6	19.1	154 W	12	83
6 20	19 17.27	−33 8.9	1.655	2.630	7.8	19.0	159 W	12	83
6 25	19 12.25	−33 24.3	1.619	2.611	6.2	18.8	164 W	12	83
6 30	19 6.72	−33 37.1	1.589	2.591	4.9	18.7	168 W	11	82
7 5	19 0.83	−33 46.8	1.566	2.571	4.3	18.6	169 W	11	82
7 10	18 54.74	−33 52.8	1.549	2.551	5.0	18.6	167 E	11	82
7 15	18 48.64	−33 54.7	1.539	2.531	6.5	18.6	164 E	11	82
7 20	18 42.73	−33 52.6	1.536	2.511	8.4	18.7	159 E	11	82
7 25	18 37.19	−33 46.5	1.538	2.490	10.4	18.8	154 E	11	82
7 30	18 32.17	−33 36.7	1.547	2.470	12.4	18.9	148 E	11	82
8 4	18 27.82	−33 23.6	1.561	2.449	14.4	18.9	143 E	12	83
8 9	18 24.24	−33 7.9	1.579	2.428	16.3	19.0	138 E	12	83
8 14	18 21.52	−32 50.1	1.603	2.408	18.0	19.1	133 E	12	83
8 24	18 18.83	−32 10.1	1.660	2.366	21.0	19.2	123 E	13	84
9 3	18 19.81	−31 27.0	1.728	2.324	23.4	19.3	114 E	14	85
9 13	18 24.29	−30 42.6	1.804	2.281	25.2	19.4	105 E	14	85
9 23	18 31.96	−29 57.1	1.883	2.239	26.4	19.5	97 E	15*	86
10 3	18 42.41	−29 9.7	1.963	2.197	27.1	19.6	90 E	16*	83*
10 13	18 55.30	−28 19.0	2.042	2.155	27.3	19.6	83 E	17*	77*
10 23	19 10.28	−27 23.2	2.117	2.113	27.2	19.7	76 E	17*	70*
11 2	19 27.01	−26 20.6	2.189	2.072	26.8	19.7	70 E	18*	63*
11 12	19 45.23	−25 9.5	2.255	2.031	26.0	19.7	64 E	19*	57*
11 22	20 4.67	−23 48.4	2.315	1.991	25.1	19.7	59 E	20*	50*
12 2	20 25.11	−22 16.1	2.369	1.952	24.0	19.6	54 E	21*	44*
12 12	20 46.37	−20 31.9	2.417	1.915	22.7	19.6	49 E	21*	38*
12 22	21 8.26	−18 35.4	2.458	1.879	21.3	19.6	44 E	22*	32*
1 1	21 30.66	−16 26.5	2.493	1.844	19.8	19.5	40 E	22*	27*
1 11	21 53.48	−14 5.6	2.523	1.811	18.3	19.4	35 E	21*	22*
1 21	22 16.63	−11 33.4	2.547	1.781	16.7	19.4	31 E	19*	17*
7889 1994 LX									
12 27	16 53.27	− 1 54.6	2.158	1.404	20.9	18.6	31 W	24*	3*
1 6	17 19.48	− 3 7.3	2.175	1.447	21.5	18.7	33 W	26*	8*
1 16	17 44.53	− 4 5.7	2.181	1.487	22.3	18.8	35 W	26*	14*
1 26	18 8.51	− 4 51.1	2.175	1.524	23.4	18.9	38 W	27*	20*
2 5	18 31.48	− 5 24.8	2.156	1.557	24.7	19.0	41 W	27*	25*
2 15	18 53.50	− 5 48.7	2.124	1.587	26.1	19.0	45 W	28*	31*
2 25	19 14.59	− 6 4.7	2.079	1.614	27.6	19.1	49 W	28*	37*
3 7	19 34.81	− 6 14.9	2.020	1.636	29.1	19.1	53 W	28*	42*
3 17	19 54.17	− 6 21.6	1.949	1.656	30.7	19.1	58 W	28*	48*
3 27	20 12.68	− 6 27.7	1.866	1.671	32.2	19.0	63 W	28*	53*
4 6	20 30.36	− 6 36.2	1.772	1.683	33.5	19.0	68 W	28*	58*
4 16	20 47.20	− 6 50.7	1.668	1.692	34.7	18.9	74 W	29*	63*
4 26	21 3.14	− 7 15.6	1.557	1.697	35.7	18.8	80 W	29*	68*
5 1	21 10.78	− 7 33.7	1.498	1.698	36.1	18.7	83 W	29*	70*
5 6	21 18.17	− 7 56.5	1.439	1.698	36.3	18.6	86 W	29*	71*
5 11	21 25.30	− 8 25.1	1.378	1.698	36.5	18.5	89 W	29*	72*
5 16	21 32.16	− 9 0.5	1.316	1.696	36.5	18.4	93 W	29*	73
5 21	21 38.72	− 9 44.0	1.254	1.694	36.4	18.3	96 W	30*	74
5 26	21 44.96	−10 37.0	1.192	1.690	36.2	18.2	100 W	29*	75
5 31	21 50.84	−11 41.0	1.130	1.686	35.8	18.1	104 W	29*	76
6 5	21 56.34	−12 57.9	1.069	1.681	35.1	17.9	108 W	29*	77
6 10	22 1.37	−14 29.9	1.009	1.675	34.3	17.8	112 W	28*	78
6 15	22 5.89	−16 19.1	0.951	1.668	33.2	17.6	116 W	27*	80
6 20	22 9.81	−18 27.9	0.895	1.661	31.8	17.4	121 W	26*	82
6 25	22 13.04	−20 58.7	0.842	1.652	30.2	17.2	125 W	24*	85
6 30	22 15.45	−23 53.5	0.793	1.643	28.3	17.0	130 W	21*	88
7 5	22 16.89	−27 13.6	0.749	1.632	26.3	16.8	135 W	18	89
7 10	22 17.14	−30 59.4	0.710	1.621	24.3	16.6	139 W	14	85
7 15	22 15.97	−35 8.7	0.677	1.609	22.5	16.5	143 W	10	81
7 20	22 13.11	−39 37.2	0.651	1.596	21.2	16.3	145 W	5	76
7 25	22 8.22	−44 17.4	0.633	1.582	20.9	16.2	146 W	1	72
7 27	22 5.62	−46 10.6	0.628	1.576	21.1	16.2	146 W	—	70
7 29	22 2.60	−48 3.5	0.624	1.570	21.5	16.2	146 W	—	68
7 31	21 59.15	−49 55.2	0.621	1.564	22.0	16.2	145 W	—	66
8 2	21 55.23	−51 45.1	0.620	1.558	22.7	16.2	144 W	—	64
8 4	21 50.82	−53 32.3	0.619	1.551	23.6	16.2	142 W	—	62
8 6	21 45.91	−55 16.2	0.620	1.545	24.6	16.2	141 W	—	61
8 8	21 40.49	−56 56.1	0.622	1.538	25.7	16.3	139 W	—	59
8 10	21 34.55	−58 31.2	0.625	1.531	26.8	16.3	137 W	—	57
8 12	21 28.09	−60 1.2	0.629	1.524	28.0	16.4	135 W	—	56
8 14	21 21.13	−61 25.5	0.633	1.517	29.2	16.4	133 E	—	55
8 16	21 13.71	−62 43.9	0.639	1.510	30.5	16.4	131 E	—	53
8 18	21 5.86	−63 56.1	0.645	1.503	31.7	16.5	129 E	—	52
8 20	20 57.65	−65 1.9	0.652	1.495	32.9	16.5	127 E	—	51
8 22	20 49.13	−66 1.4	0.660	1.488	34.1	16.6	124 E	—	50
8 24	20 40.40	−66 54.6	0.668	1.480	35.3	16.6	122 E	—	49
8 26	20 31.55	−67 41.6	0.677	1.472	36.4	16.7	120 E	—	48

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7889 1994 LX *(continuation)*									
8 28	20 22.68	−68 22.7	0.686	1.464	37.5	16.7	118 E	—	48
8 30	20 13.90	−68 58.3	0.696	1.456	38.6	16.8	116 E	—	47
9 1	20 5.33	−69 28.6	0.705	1.447	39.6	16.8	114 E	—	47
9 3	19 57.06	−69 54.0	0.715	1.439	40.5	16.9	112 E	—	46
9 5	19 49.19	−70 15.1	0.725	1.430	41.4	16.9	110 E	—	46
9 7	19 41.82	−70 32.3	0.735	1.422	42.3	16.9	108 E	—	45
9 9	19 34.99	−70 46.0	0.745	1.413	43.1	17.0	106 E	—	45
9 11	19 28.78	−70 56.6	0.755	1.404	43.9	17.0	105 E	—	45
9 13	19 23.21	−71 4.7	0.765	1.395	44.7	17.1	103 E	—	45
9 15	19 18.29	−71 10.6	0.775	1.386	45.4	17.1	101 E	—	45
9 17	19 14.05	−71 14.7	0.785	1.376	46.0	17.1	100 E	—	45
9 19	19 10.47	−71 17.2	0.795	1.367	46.7	17.1	98 E	—	45
9 21	19 7.55	−71 18.5	0.804	1.357	47.3	17.2	97 E	—	45
9 23	19 5.26	−71 18.7	0.813	1.348	47.9	17.2	95 E	—	45
9 25	19 3.60	−71 18.1	0.822	1.338	48.4	17.2	94 E	—	45
9 27	19 2.53	−71 16.8	0.830	1.328	48.9	17.2	92 E	—	45
9 29	19 2.05	−71 14.9	0.838	1.318	49.5	17.3	91 E	—	45
10 1	19 2.12	−71 12.5	0.845	1.308	50.0	17.3	90 E	—	45
10 3	19 2.72	−71 9.7	0.852	1.298	50.4	17.3	89 E	—	45*
10 5	19 3.84	−71 6.6	0.859	1.287	50.9	17.3	87 E	—	45*
10 7	19 5.46	−71 3.3	0.865	1.277	51.3	17.3	86 E	—	45*
10 9	19 7.54	−70 59.6	0.870	1.267	51.8	17.3	85 E	—	45*
10 11	19 10.07	−70 55.8	0.875	1.256	52.2	17.3	84 E	—	45*
10 13	19 13.02	−70 51.7	0.880	1.245	52.7	17.3	83 E	—	45*
10 15	19 16.38	−70 47.3	0.884	1.234	53.1	17.3	82 E	—	45*
10 17	19 20.12	−70 42.7	0.887	1.224	53.5	17.3	81 E	—	45*
10 19	19 24.22	−70 37.8	0.890	1.213	54.0	17.3	80 E	—	45*
10 21	19 28.66	−70 32.5	0.891	1.202	54.4	17.3	79 E	—	45*
10 23	19 33.43	−70 26.7	0.893	1.191	54.8	17.3	78 E	—	45*
10 25	19 38.52	−70 20.5	0.893	1.179	55.3	17.3	77 E	—	45*
10 27	19 43.90	−70 13.7	0.893	1.168	55.7	17.3	76 E	—	44*
10 29	19 49.55	−70 6.2	0.892	1.157	56.2	17.3	75 E	—	44*
10 31	19 55.48	−69 58.0	0.891	1.146	56.7	17.3	75 E	—	44*
11 2	20 1.65	−69 49.1	0.889	1.135	57.2	17.3	74 E	—	44*
11 4	20 8.06	−69 39.2	0.886	1.123	57.7	17.3	73 E	—	45*
11 6	20 14.69	−69 28.4	0.882	1.112	58.3	17.3	73 E	—	45*
11 8	20 21.51	−69 16.6	0.877	1.101	58.8	17.2	72 E	—	45*
11 10	20 28.51	−69 3.6	0.872	1.089	59.4	17.2	71 E	—	45*
11 12	20 35.66	−68 49.4	0.866	1.078	60.0	17.2	71 E	—	45*
11 14	20 42.95	−68 33.8	0.859	1.067	60.7	17.2	70 E	—	45*
11 16	20 50.35	−68 16.8	0.851	1.056	61.4	17.2	70 E	—	45*
11 18	20 57.84	−67 58.3	0.843	1.045	62.1	17.1	69 E	—	45*
11 20	21 5.40	−67 38.0	0.834	1.033	62.8	17.1	69 E	—	45*
11 22	21 13.01	−67 16.0	0.824	1.022	63.6	17.1	68 E	—	46*
11 24	21 20.64	−66 52.0	0.813	1.012	64.5	17.1	68 E	—	46*
11 26	21 28.27	−66 25.9	0.802	1.001	65.3	17.0	67 E	—	46*
11 28	21 35.89	−65 57.6	0.789	0.990	66.2	17.0	67 E	—	46*
11 30	21 43.47	−65 26.9	0.776	0.980	67.2	17.0	66 E	—	47*
12 2	21 51.00	−64 53.7	0.762	0.969	68.2	16.9	66 E	—	47*
12 4	21 58.44	−64 17.7	0.748	0.959	69.3	16.9	66 E	—	47*
12 6	22 5.79	−63 38.9	0.732	0.949	70.4	16.9	65 E	—	48*
12 8	22 13.01	−62 57.0	0.716	0.939	71.6	16.8	65 E	—	48*
12 10	22 20.09	−62 11.8	0.700	0.930	72.8	16.8	64 E	—	48*
12 12	22 27.00	−61 23.0	0.682	0.921	74.1	16.8	64 E	—	49*
12 17	22 43.40	−59 3.3	0.636	0.899	77.7	16.7	63 E	—	50*
12 22	22 58.32	−56 13.5	0.587	0.879	81.7	16.6	62 E	—	51*
12 27	23 11.46	−52 45.2	0.535	0.862	86.1	16.5	61 E	—	51*
1 1	23 22.58	−48 26.4	0.482	0.848	91.1	16.5	60 E	—	52*
1 3	23 26.40	−46 25.1	0.460	0.843	93.3	16.5	59 E	—	52*
1 5	23 29.83	−44 11.8	0.439	0.839	95.5	16.4	58 E	1*	51*
1 7	23 32.86	−41 44.7	0.418	0.835	97.8	16.4	57 E	3*	51*
1 9	23 35.46	−39 2.3	0.398	0.832	100.2	16.4	56 E	5*	50*
1 11	23 37.63	−36 2.7	0.378	0.829	102.6	16.4	55 E	8*	49*
1 13	23 39.33	−32 43.9	0.359	0.827	105.0	16.4	54 E	11*	48*
1 15	23 40.55	−29 3.9	0.341	0.826	107.5	16.5	53 E	14*	46*
1 17	23 41.27	−25 1.2	0.324	0.825	109.9	16.5	52 E	18*	44*
1 19	23 41.49	−20 34.7	0.309	0.825	112.1	16.5	51 E	21*	41*
1 21	23 41.19	−15 44.2	0.296	0.825	114.1	16.6	50 E	25*	38*
311066 2004 DC									
12 27	16 53.67	−18 29.1	1.827	0.981	21.6	20.5	22 W	11*	10*
1 1	17 15.76	−20 0.0	1.834	0.983	21.1	20.5	21 W	10*	11*
1 6	17 38.06	−21 19.8	1.843	0.988	20.7	20.5	21 W	8*	12*
1 11	18 0.50	−22 27.8	1.854	0.995	20.3	20.5	21 W	7*	13*
1 16	18 22.98	−23 23.3	1.866	1.006	20.0	20.6	21 W	5*	13*
1 21	18 45.38	−24 6.1	1.880	1.019	19.8	20.6	21 W	4*	14*
1 26	19 7.62	−24 36.3	1.896	1.035	19.7	20.7	21 W	3*	14*
1 31	19 29.58	−24 54.1	1.912	1.053	19.6	20.7	21 W	1*	15*
2 5	19 51.17	−25 0.2	1.929	1.073	19.6	20.8	21 W	—	15*
2 10	20 12.30	−24 55.1	1.947	1.095	19.6	20.8	22 W	—	16*
2 15	20 32.91	−24 39.9	1.965	1.118	19.8	20.9	23 W	—	16*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
311066 2004 *DC* *(continuation)*									
2 20	20 52.92	−24 15.6	1.983	1.143	19.9	21.0	23 W	—	17*
2 25	21 12.31	−23 43.3	2.001	1.169	20.1	21.0	24 W	—	17*
3 2	21 31.04	−23 4.0	2.020	1.196	20.4	21.1	25 W	—	18*
3 7	21 49.12	−22 18.8	2.038	1.223	20.7	21.2	26 W	—	19*
3 12	22 6.55	−21 28.8	2.055	1.251	21.0	21.3	27 W	—	20*
3 17	22 23.33	−20 34.9	2.072	1.280	21.3	21.4	28 W	—	20*
3 22	22 39.49	−19 38.1	2.087	1.309	21.7	21.4	29 W	—	21*
24814 1994 VW_1									
12 27	16 54.03	−14 28.9	3.346	2.470	8.9	20.1	23 W	14*	9*
1 6	17 11.65	−15 5.3	3.292	2.472	10.9	20.1	28 W	17*	15*
1 16	17 29.08	−15 33.0	3.226	2.473	12.9	20.2	34 W	19*	22*
1 26	17 46.21	−15 52.5	3.146	2.473	14.8	20.2	40 W	20*	29*
2 5	18 2.94	−16 4.2	3.055	2.472	16.6	20.2	46 W	21*	36*
2 15	18 19.16	−16 8.9	2.952	2.469	18.4	20.2	52 W	22*	43*
2 25	18 34.74	−16 7.7	2.839	2.465	19.9	20.1	58 W	23*	50*
3 7	18 49.56	−16 1.6	2.717	2.460	21.4	20.1	65 W	24*	57*
3 17	19 3.47	−15 52.1	2.588	2.454	22.6	20.0	71 W	25*	63*
3 27	19 16.29	−15 40.9	2.452	2.446	23.5	19.9	78 W	25*	70*
4 6	19 27.85	−15 29.9	2.313	2.437	24.1	19.8	85 W	26*	76*
4 16	19 37.93	−15 21.4	2.171	2.427	24.4	19.6	92 W	27*	79*
4 26	19 46.26	−15 18.0	2.029	2.415	24.2	19.5	100 W	28*	79
5 6	19 52.55	−15 22.6	1.889	2.403	23.5	19.3	108 W	29*	79
5 16	19 56.46	−15 38.4	1.755	2.389	22.2	19.1	117 W	29*	80
5 26	19 57.61	−16 8.5	1.629	2.374	20.1	18.8	126 W	29	80
6 5	19 55.70	−16 55.4	1.516	2.358	17.2	18.6	137 W	28	81
6 15	19 50.49	−18 0.6	1.419	2.340	13.5	18.3	148 W	27	82
6 25	19 42.07	−19 22.7	1.343	2.322	8.9	18.0	159 W	26	83
6 30	19 36.80	−20 8.8	1.314	2.312	6.3	17.8	165 W	25	84
7 5	19 30.95	−20 57.2	1.291	2.302	3.7	17.6	172 W	24	85
7 10	19 24.67	−21 46.9	1.275	2.291	0.9	17.4	178 W	23	86
7 15	19 18.16	−22 36.8	1.266	2.281	2.0	17.4	176 E	22	87
7 20	19 11.62	−23 25.9	1.264	2.270	4.8	17.6	169 E	22	87
7 25	19 5.25	−24 13.1	1.268	2.259	7.7	17.7	163 E	21	88
7 30	18 59.25	−24 57.8	1.279	2.247	10.4	17.9	157 E	20	89
8 4	18 53.81	−25 39.5	1.296	2.236	12.9	18.0	150 E	19	90
8 9	18 49.08	−26 17.7	1.319	2.224	15.3	18.1	145 E	19	90
8 14	18 45.19	−26 52.5	1.346	2.211	17.6	18.2	139 E	18	89
8 24	18 40.25	−27 51.8	1.413	2.186	21.4	18.4	128 E	17	88
9 3	18 39.26	−28 38.6	1.493	2.160	24.3	18.6	118 E	16	87
9 13	18 42.17	−29 14.4	1.581	2.132	26.5	18.7	109 E	16	87
9 23	18 48.66	−29 40.0	1.673	2.104	27.9	18.9	101 E	15	86
10 3	18 58.31	−29 55.8	1.767	2.075	28.8	19.0	93 E	15	85*
10 13	19 10.75	−30 1.5	1.859	2.045	29.1	19.1	86 E	15*	80*
10 23	19 25.56	−29 56.3	1.948	2.015	29.0	19.1	79 E	15*	73*
11 2	19 42.37	−29 39.5	2.032	1.983	28.6	19.2	73 E	15*	67*
11 12	20 0.88	−29 10.2	2.110	1.952	27.9	19.2	67 E	16*	61*
11 22	20 20.78	−28 27.6	2.181	1.919	26.9	19.2	62 E	16*	55*
12 2	20 41.82	−27 31.0	2.244	1.887	25.8	19.2	56 E	16*	49*
12 12	21 3.79	−26 20.1	2.300	1.854	24.5	19.2	51 E	17*	43*
12 22	21 26.48	−24 54.7	2.347	1.821	23.2	19.2	47 E	17*	38*
1 1	21 49.74	−23 15.0	2.386	1.788	21.8	19.1	42 E	17*	33*
1 11	22 13.46	−21 21.3	2.418	1.755	20.3	19.0	38 E	16*	29*
1 21	22 37.54	−19 14.5	2.442	1.722	18.8	19.0	34 E	15*	25*
250697 2005 QY_{151}									
12 27	16 54.06	−27 48.9	2.081	1.212	16.6	20.8	21 W	3*	14*
1 6	17 28.65	−29 13.9	2.125	1.281	17.6	21.0	23 W	3*	17*
1 16	18 1.94	−30 6.3	2.159	1.348	18.8	21.2	26 W	2*	20*
1 26	18 33.76	−30 30.6	2.184	1.412	20.1	21.3	29 W	2*	23*
2 5	19 3.99	−30 31.6	2.198	1.474	21.4	21.5	33 W	2*	27*
297418 2000 SP_{43}									
12 27	16 54.65	−24 40.0	1.192	0.435	51.7	19.1	20 W	6*	13*
1 1	17 34.24	−26 9.3	1.276	0.435	40.0	18.9	17 W	2*	10*
1 6	18 14.00	−26 42.5	1.354	0.452	29.0	18.8	13 W	—	7*
1 11	18 52.44	−26 23.8	1.425	0.484	19.8	18.8	10 W	—	4*
1 16	19 28.46	−25 22.6	1.489	0.525	12.8	18.8	7 W	—	1*
1 18	19 42.07	−24 48.8	1.513	0.544	10.6	18.8	6 W	—	—
1 20	19 55.20	−24 10.6	1.536	0.563	8.7	18.9	5 W	—	—
1 22	20 7.85	−23 28.8	1.559	0.582	7.2	18.9	4 W	—	—
1 24	20 20.04	−22 43.8	1.581	0.602	6.0	19.0	4 W	—	—
1 26	20 31.77	−21 56.3	1.603	0.622	5.0	19.0	3 W	—	—
1 31	20 59.24	−19 49.0	1.655	0.673	3.9	19.2	3 E	—	—
2 5	21 24.32	−17 33.9	1.705	0.722	3.9	19.4	3 E	—	—
2 10	21 47.35	−15 15.0	1.753	0.770	4.2	19.6	3 E	—	—
2 15	22 8.65	−12 55.2	1.799	0.815	4.4	19.8	4 E	—	—
2 20	22 28.49	−10 36.3	1.843	0.858	4.3	20.0	4 E	—	—
2 25	22 47.10	− 8 19.5	1.884	0.899	4.1	20.1	4 E	—	—

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
297418 2000 SP_{43} *(continuation)*									
3 2	23 4.71	− 6 5.5	1.924	0.937	3.8	20.2	4 E	—	—
3 7	23 21.48	− 3 54.8	1.961	0.972	3.3	20.3	3 E	—	—
3 17	23 53.09	+ 0 16.0	2.027	1.034	2.3	20.5	2 E	—	—
3 27	0 22.87	+ 4 12.1	2.082	1.085	1.6	20.6	2 W	—	—
4 6	0 51.55	+ 7 53.7	2.125	1.126	2.2	20.7	2 W	—	—
4 16	1 19.72	+11 21.2	2.155	1.157	3.7	20.9	4 W	—	—
4 26	1 47.83	+14 34.6	2.172	1.178	5.4	21.1	6 W	—	—
5 6	2 16.33	+17 33.8	2.177	1.188	7.2	21.2	9 W	—	1*
5 16	2 45.62	+20 17.9	2.168	1.190	9.1	21.3	11 W	2*	3*
5 26	3 16.08	+22 45.4	2.147	1.181	11.0	21.3	13 W	3*	4*
6 5	3 48.10	+24 53.9	2.115	1.163	12.8	21.3	15 W	5*	6*
6 15	4 22.07	+26 39.8	2.071	1.134	14.7	21.3	16 W	7*	6*
6 25	4 58.33	+27 58.2	2.018	1.096	16.5	21.2	18 W	8*	7*
7 5	5 37.21	+28 42.3	1.958	1.047	18.1	21.1	19 W	10*	7*
7 15	6 18.95	+28 43.5	1.891	0.987	19.6	20.9	19 W	11*	6*
7 25	7 3.60	+27 50.8	1.820	0.917	20.7	20.7	19 W	11*	5*
8 4	7 51.15	+25 51.5	1.748	0.836	21.2	20.5	17 W	10*	3*
8 9	8 15.98	+24 22.6	1.712	0.791	21.0	20.3	16 W	10*	2*
8 14	8 41.47	+22 31.9	1.677	0.744	20.4	20.1	15 W	8*	1*
8 19	9 7.62	+20 17.7	1.642	0.696	19.3	19.9	13 W	7*	—
8 24	9 34.47	+17 38.8	1.609	0.646	17.4	19.6	11 W	5*	—
9 3	10 30.50	+11 3.1	1.542	0.547	10.1	18.9	5 W	—	—
9 13	11 30.40	+ 2 50.2	1.469	0.465	4.3	18.2	2 E	—	—
9 23	12 34.87	− 6 17.2	1.375	0.433	25.9	18.7	11 E	—	5*
9 25	12 48.28	− 8 5.5	1.353	0.435	30.5	18.8	13 E	—	7*
9 27	13 1.85	− 9 51.4	1.331	0.440	34.9	18.9	15 E	—	8*
9 29	13 15.56	−11 34.1	1.308	0.447	39.1	19.0	16 E	—	10*
10 1	13 29.41	−13 13.0	1.285	0.457	43.1	19.1	18 E	—	12*
10 3	13 43.40	−14 47.4	1.263	0.469	46.7	19.2	20 E	—	14*
10 5	13 57.53	−16 17.0	1.241	0.483	49.9	19.3	22 E	—	16*
10 7	14 11.79	−17 41.2	1.219	0.499	52.7	19.5	23 E	—	17*
10 9	14 26.19	−18 59.7	1.199	0.516	55.2	19.6	25 E	—	19*
10 11	14 40.72	−20 12.3	1.180	0.534	57.3	19.7	27 E	—	21*
10 13	14 55.36	−21 18.7	1.163	0.553	59.0	19.8	28 E	1*	22*
10 18	15 32.40	−23 36.3	1.126	0.602	62.0	20.0	32 E	3*	26*
10 23	16 9.74	−25 12.2	1.099	0.652	63.4	20.1	36 E	5*	30*
10 28	16 46.82	−26 6.2	1.082	0.702	63.5	20.3	39 E	7*	33*
11 2	17 23.02	−26 20.6	1.076	0.751	62.9	20.4	42 E	10*	36*
11 7	17 57.73	−25 59.7	1.079	0.797	61.6	20.5	45 E	12*	38*
11 12	18 30.50	−25 9.0	1.090	0.841	60.0	20.6	47 E	15*	40*
11 17	19 1.05	−23 55.0	1.109	0.883	58.2	20.6	49 E	17*	42*
11 22	19 29.32	−22 23.9	1.133	0.922	56.3	20.7	51 E	19*	42*
11 27	19 55.37	−20 40.9	1.162	0.958	54.5	20.8	52 E	22*	42*
12 2	20 19.37	−18 50.4	1.195	0.991	52.6	20.9	53 E	24*	42*
12 7	20 41.55	−16 55.7	1.231	1.022	50.8	21.0	54 E	26*	41*
12 12	21 2.12	−14 59.2	1.269	1.050	49.1	21.1	54 E	28*	40*
12 17	21 21.29	−13 2.4	1.309	1.076	47.5	21.1	54 E	30*	38*
12 22	21 39.28	−11 6.6	1.350	1.098	46.0	21.2	53 E	31*	36*
12 27	21 56.25	− 9 12.4	1.390	1.119	44.5	21.3	53 E	33*	34*
1 1	22 12.39	− 7 20.1	1.431	1.136	43.2	21.3	52 E	34*	32*
1 6	22 27.83	− 5 29.9	1.471	1.151	41.9	21.4	51 E	35*	30*
1 11	22 42.69	− 3 41.9	1.509	1.164	40.7	21.4	50 E	36*	28*
1 16	22 57.07	− 1 56.1	1.546	1.174	39.5	21.5	49 E	36*	26*
1 21	23 11.07	− 0 12.5	1.582	1.182	38.4	21.5	48 E	36*	25*
4954 Eric									
12 27	16 54.98	−35 9.0	3.655	2.773	7.8	18.1	23 W	—	16*
1 6	17 13.62	−35 48.4	3.580	2.751	9.7	18.1	28 W	—	22*
1 16	17 32.41	−36 23.2	3.490	2.729	11.6	18.1	34 W	—	28*
1 26	17 51.24	−36 53.6	3.387	2.704	13.5	18.1	40 W	1*	34*
2 5	18 10.00	−37 19.9	3.271	2.678	15.3	18.1	46 W	1*	39*
2 15	18 28.60	−37 42.6	3.144	2.651	17.0	18.0	52 W	2*	45*
2 25	18 46.90	−38 2.5	3.007	2.621	18.7	17.9	58 W	2*	50*
3 7	19 4.80	−38 20.7	2.862	2.590	20.2	17.9	64 W	2*	56*
3 17	19 22.15	−38 38.4	2.710	2.558	21.5	17.8	71 W	2*	61*
3 27	19 38.79	−38 57.3	2.553	2.523	22.7	17.6	77 W	2*	66*
4 6	19 54.57	−39 19.2	2.393	2.487	23.6	17.5	83 W	2*	70*
4 16	20 9.27	−39 46.3	2.232	2.449	24.2	17.3	90 W	2*	74*
4 26	20 22.63	−40 20.8	2.071	2.410	24.5	17.1	97 W	2*	76*
5 6	20 34.37	−41 5.2	1.913	2.368	24.4	16.9	104 W	2*	75
5 11	20 39.49	−41 31.9	1.836	2.347	24.2	16.8	108 W	2*	74
5 16	20 44.03	−42 2.0	1.761	2.325	23.9	16.7	111 W	1*	74
5 21	20 47.93	−42 35.7	1.687	2.303	23.5	16.6	115 W	1*	73
5 26	20 51.09	−43 13.1	1.615	2.281	23.0	16.4	119 W	1*	73
5 31	20 53.44	−43 54.2	1.546	2.258	22.3	16.3	122 W	1*	72
6 5	20 54.86	−44 39.0	1.480	2.234	21.5	16.1	126 W	—	71
6 10	20 55.24	−45 27.3	1.417	2.210	20.6	16.0	130 W	—	71
6 15	20 54.45	−46 18.3	1.357	2.186	19.6	15.8	134 W	—	70

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
		4954 Eric				*(continuation)*			
6 20	20 52.39	−47 11.1	1.301	2.161	18.6	15.7	137 W	—	69
6 25	20 48.95	−48 4.5	1.250	2.136	17.5	15.6	141 W	—	68
6 30	20 44.04	−48 56.8	1.203	2.111	16.5	15.4	144 W	—	67
7 5	20 37.62	−49 45.9	1.160	2.085	15.6	15.3	147 W	—	66
7 10	20 29.70	−50 29.4	1.123	2.059	15.0	15.2	148 W	—	66
7 15	20 20.43	−51 4.4	1.091	2.032	14.8	15.1	149 W	—	65
7 20	20 10.06	−51 28.5	1.064	2.005	15.1	15.0	149 W	—	65
7 25	19 58.96	−51 39.5	1.042	1.977	15.9	14.9	148 E	—	64
7 30	19 47.59	−51 35.9	1.026	1.950	17.1	14.9	146 E	—	64
8 4	19 36.43	−51 17.1	1.014	1.921	18.7	14.9	143 E	—	65
8 9	19 26.00	−50 43.4	1.008	1.893	20.6	14.9	139 E	—	65
8 14	19 16.74	−49 56.0	1.006	1.864	22.6	14.9	135 E	—	66
8 19	19 8.96	−48 57.0	1.007	1.835	24.7	15.0	131 E	—	67
8 24	19 2.85	−47 48.5	1.013	1.806	26.8	15.0	126 E	—	68
8 29	18 58.48	−46 32.8	1.021	1.776	28.8	15.1	122 E	—	69
9 3	18 55.86	−45 11.6	1.031	1.746	30.8	15.1	118 E	—	71
9 8	18 54.91	−43 46.7	1.044	1.716	32.6	15.1	114 E	1	72
9 13	18 55.54	−42 19.4	1.058	1.686	34.2	15.2	109 E	3	74
9 18	18 57.63	−40 50.4	1.073	1.655	35.8	15.2	106 E	4	75
9 23	19 1.02	−39 20.3	1.088	1.625	37.2	15.2	102 E	6	77
9 28	19 5.59	−37 49.4	1.104	1.594	38.5	15.3	98 E	7	78
10 3	19 11.22	−36 17.6	1.120	1.564	39.6	15.3	95 E	9	80
10 8	19 17.82	−34 44.7	1.135	1.533	40.7	15.3	92 E	10	81*
10 13	19 25.27	−33 10.5	1.150	1.503	41.6	15.3	89 E	12	80*
10 18	19 33.48	−31 34.5	1.164	1.473	42.4	15.3	86 E	13	79*
10 23	19 42.36	−29 56.5	1.177	1.443	43.2	15.3	83 E	15	77*
11 2	20 1.88	−26 32.3	1.199	1.384	44.5	15.3	78 E	18*	71*
11 12	20 23.38	−22 54.4	1.216	1.328	45.5	15.3	73 E	22*	65*
11 22	20 46.49	−18 59.9	1.228	1.276	46.4	15.2	69 E	26*	58*
12 2	21 10.98	−14 46.8	1.235	1.228	47.2	15.2	66 E	30*	52*
12 12	21 36.76	−10 14.1	1.237	1.186	47.9	15.1	63 E	34*	45*
12 22	22 3.80	− 5 22.0	1.236	1.151	48.5	15.1	61 E	38*	39*
1 1	22 32.22	− 0 13.0	1.232	1.125	49.1	15.0	60 E	42*	33*
1 11	23 2.29	+ 5 9.3	1.229	1.108	49.4	15.0	59 E	46*	28*
1 21	23 34.34	+10 38.3	1.227	1.103	49.6	15.0	59 E	48*	24*
		396795 2004 NJ_8							
12 27	16 55.18	−31 39.2	3.165	2.276	9.0	21.1	21 W	—	15*
1 6	17 18.43	−31 33.4	3.083	2.239	11.0	21.1	26 W	2*	20*
1 16	17 41.86	−31 14.2	2.991	2.202	13.2	21.1	31 W	4*	25*
1 26	18 5.35	−30 40.7	2.889	2.164	15.3	21.0	35 W	5*	29*
2 5	18 28.76	−29 51.9	2.780	2.126	17.4	21.0	40 W	6*	34*
2 15	18 51.98	−28 47.2	2.664	2.088	19.6	20.9	45 W	8*	39*
2 25	19 14.87	−27 26.0	2.542	2.049	21.7	20.8	50 W	9*	44*
3 7	19 37.34	−25 47.8	2.415	2.010	23.7	20.7	55 W	10*	49*
3 17	19 59.29	−23 52.2	2.285	1.972	25.7	20.6	59 W	12*	53*
3 27	20 20.65	−21 38.6	2.153	1.934	27.6	20.5	64 W	14*	58*
4 6	20 41.36	−19 6.6	2.020	1.896	29.4	20.4	68 W	16*	62*
4 16	21 1.38	−16 15.4	1.887	1.858	31.1	20.3	73 W	19*	66*
4 26	21 20.64	−13 4.3	1.757	1.822	32.6	20.1	77 W	22*	69*
5 6	21 39.14	− 9 32.2	1.630	1.787	34.0	19.9	82 W	25*	71*
5 16	21 56.81	− 5 38.2	1.508	1.752	35.1	19.8	86 W	30*	69*
5 26	22 13.61	− 1 21.5	1.392	1.720	36.1	19.6	90 W	35*	65
6 5	22 29.47	+ 3 18.6	1.284	1.689	36.8	19.4	94 W	41*	61
6 15	22 44.27	+ 8 21.9	1.184	1.661	37.3	19.2	98 W	48*	56
6 25	22 57.84	+13 46.6	1.094	1.635	37.5	19.0	101 W	56*	50
6 30	23 4.11	+16 36.1	1.052	1.622	37.6	18.9	103 W	59*	47
7 5	23 9.98	+19 29.5	1.014	1.611	37.6	18.8	105 W	63*	45
7 10	23 15.40	+22 25.9	0.978	1.600	37.5	18.7	107 W	67*	42
7 15	23 20.32	+25 24.2	0.945	1.591	37.4	18.6	108 W	70	39
7 20	23 24.69	+28 23.1	0.915	1.582	37.2	18.5	110 W	73	36
7 25	23 28.45	+31 21.2	0.888	1.573	37.0	18.4	111 W	76	33
7 30	23 31.52	+34 16.9	0.863	1.566	36.7	18.3	113 W	79	30
8 4	23 33.83	+37 8.4	0.841	1.560	36.4	18.3	114 W	82	27
8 9	23 35.28	+39 53.4	0.822	1.554	36.1	18.2	115 W	85	24
8 14	23 35.80	+42 29.9	0.804	1.550	35.8	18.1	117 W	88	21
8 19	23 35.35	+44 55.7	0.790	1.546	35.4	18.1	118 W	90	19
8 24	23 33.92	+47 8.8	0.777	1.544	35.0	18.0	119 W	88	17
8 29	23 31.50	+49 7.1	0.767	1.542	34.6	18.0	120 W	86	15
9 3	23 28.16	+50 48.6	0.758	1.542	34.2	18.0	121 W	84	13
9 8	23 24.05	+52 11.6	0.751	1.542	33.7	17.9	122 W	83	12
9 13	23 19.43	+53 14.6	0.746	1.544	33.2	17.9	123 E	82	11
9 18	23 14.63	+53 57.2	0.742	1.546	32.7	17.9	124 E	81	10
9 23	23 10.01	+54 19.3	0.740	1.549	32.2	17.9	125 E	81	10
9 28	23 5.93	+54 21.2	0.740	1.554	31.7	17.9	126 E	81	10
10 3	23 2.75	+54 3.9	0.742	1.559	31.1	17.8	126 E	81	10
10 8	23 0.74	+53 28.7	0.745	1.565	30.6	17.9	127 E	82	11
10 13	23 0.15	+52 37.5	0.750	1.572	30.2	17.9	128 E	82	11
10 18	23 1.05	+51 32.9	0.758	1.580	29.8	17.9	128 E	83	12
10 23	23 3.45	+50 16.9	0.768	1.589	29.4	17.9	128 E	85	14
10 28	23 7.28	+48 51.9	0.780	1.599	29.2	18.0	128 E	86	15

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
		396795 2004 NJ_8				*(continuation)*			
11 2	23 12.43	+47 20.1	0.795	1.609	29.0	18.0	128 E	88	17
11 7	23 18.79	+45 43.6	0.814	1.621	29.0	18.1	128 E	89	18
11 12	23 26.20	+44 4.9	0.835	1.633	29.1	18.1	127 E	89	20
11 17	23 34.51	+42 25.8	0.860	1.645	29.2	18.2	126 E	87	22
11 22	23 43.55	+40 48.1	0.888	1.659	29.5	18.3	124 E	86	23
11 27	23 53.18	+39 13.3	0.919	1.673	29.8	18.4	123 E	84	25
12 2	0 3.29	+37 42.4	0.954	1.687	30.1	18.5	121 E	83	26
12 7	0 13.79	+36 16.6	0.993	1.702	30.5	18.7	119 E	81	28
12 12	0 24.58	+34 56.6	1.034	1.718	30.9	18.8	117 E	80	29*
12 17	0 35.59	+33 42.9	1.080	1.734	31.2	18.9	114 E	79	30*
12 22	0 46.74	+32 35.6	1.128	1.750	31.5	19.0	112 E	78	31*
12 27	0 57.98	+31 34.7	1.180	1.767	31.7	19.1	109 E	77	32*
1 1	1 9.29	+30 40.1	1.234	1.784	31.9	19.3	107 E	76	32*
1 6	1 20.63	+29 51.6	1.292	1.801	32.0	19.4	104 E	75	32*
1 11	1 31.99	+29 8.7	1.351	1.819	32.0	19.5	101 E	74	32*
1 16	1 43.33	+28 31.2	1.413	1.837	32.0	19.6	98 E	74	32*
1 21	1 54.65	+27 58.4	1.477	1.856	31.8	19.7	96 E	73	32*
		200607 2001 RG_{145}							
12 27	16 55.30	−24 20.9	2.522	1.634	12.0	20.7	20 W	6*	12*
1 6	17 26.92	−25 21.1	2.457	1.601	14.0	20.7	23 W	6*	16*
1 16	17 59.72	−25 58.0	2.394	1.570	15.9	20.6	26 W	6*	19*
1 26	18 33.39	−26 8.9	2.332	1.542	17.8	20.6	29 W	6*	22*
2 5	19 7.63	−25 52.2	2.274	1.517	19.6	20.6	31 W	5*	25*
2 15	19 42.06	−25 7.4	2.218	1.496	21.3	20.5	33 W	5*	27*
2 25	20 16.28	−23 54.9	2.167	1.479	22.9	20.5	36 W	5*	30*
3 7	20 49.95	−22 16.9	2.120	1.467	24.5	20.5	38 W	4*	32*
3 17	21 22.81	−20 16.3	2.077	1.459	25.9	20.5	40 W	4*	34*
3 27	21 54.62	−17 56.9	2.037	1.455	27.2	20.5	42 W	4*	36*
4 6	22 25.28	−15 23.2	2.002	1.457	28.4	20.5	44 W	5*	38*
4 16	22 54.74	−12 39.6	1.969	1.463	29.6	20.5	46 W	5*	40*
4 26	23 22.98	− 9 50.6	1.938	1.474	30.6	20.5	48 W	7*	42*
5 6	23 50.04	− 7 0.1	1.908	1.490	31.6	20.5	51 W	8*	45*
5 16	0 15.96	− 4 11.9	1.878	1.509	32.5	20.5	53 W	10*	47*
5 26	0 40.74	− 1 29.0	1.847	1.533	33.3	20.6	56 W	13*	49*
6 5	1 4.42	+ 1 6.3	1.814	1.559	34.0	20.6	59 W	16*	51*
6 15	1 26.98	+ 3 31.9	1.778	1.589	34.5	20.6	63 W	20*	53*
6 25	1 48.36	+ 5 46.5	1.738	1.622	35.0	20.6	66 W	25*	53*
7 5	2 8.49	+ 7 49.1	1.694	1.657	35.3	20.6	70 W	31*	54*
7 15	2 27.21	+ 9 39.4	1.646	1.694	35.4	20.6	75 W	37*	53*
7 25	2 44.33	+11 17.1	1.593	1.732	35.3	20.6	80 W	43*	53*
8 4	2 59.60	+12 42.6	1.536	1.772	34.8	20.5	85 W	50*	51
8 14	3 12.70	+13 56.4	1.476	1.813	34.0	20.4	92 W	55*	50
8 24	3 23.23	+14 59.1	1.413	1.854	32.6	20.4	98 W	59*	49
9 3	3 30.76	+15 51.4	1.350	1.896	30.7	20.3	106 W	61	48
9 13	3 34.78	+16 33.7	1.289	1.939	28.1	20.1	115 W	62	47
9 23	3 34.90	+17 6.3	1.233	1.981	24.7	20.0	124 W	62	47
10 3	3 30.89	+17 28.6	1.188	2.023	20.5	19.8	135 W	62	47
10 13	3 22.85	+17 39.9	1.157	2.065	15.4	19.6	147 W	63	46
10 23	3 11.58	+17 39.9	1.147	2.107	9.7	19.4	159 W	63	46
10 28	3 5.15	+17 35.9	1.150	2.127	6.6	19.3	166 W	63	46
11 2	2 58.46	+17 29.7	1.160	2.148	3.6	19.2	172 W	62	47
11 7	2 51.76	+17 21.9	1.177	2.168	0.7	19.1	179 W	62	47
11 12	2 45.27	+17 13.1	1.201	2.188	2.5	19.3	175 E	62	47
11 17	2 39.21	+17 4.3	1.231	2.208	5.3	19.5	168 E	62	47
11 22	2 33.75	+16 56.0	1.268	2.228	8.0	19.7	162 E	62	47
11 27	2 29.01	+16 49.0	1.312	2.248	10.4	19.9	156 E	62	47
12 2	2 25.09	+16 43.9	1.361	2.267	12.7	20.1	150 E	62	47
12 12	2 19.86	+16 41.1	1.475	2.305	16.5	20.4	138 E	62	47
12 22	2 18.11	+16 49.7	1.608	2.343	19.4	20.8	128 E	62	47
1 1	2 19.55	+17 9.6	1.754	2.379	21.4	21.0	118 E	62	47
1 11	2 23.78	+17 39.7	1.909	2.415	22.7	21.3	109 E	63	46*
		70055 1999 JN_6							
12 27	16 55.57	−14 12.2	3.378	2.500	8.7	20.0	23 W	14*	8*
1 6	17 14.11	−13 53.5	3.291	2.469	10.9	20.0	28 W	17*	14*
1 16	17 32.75	−13 22.9	3.192	2.437	13.0	20.0	34 W	20*	20*
1 26	17 51.38	−12 39.4	3.083	2.405	15.1	20.0	39 W	22*	27*
2 5	18 9.92	−11 42.6	2.966	2.372	17.1	19.9	45 W	25*	33*
2 15	18 28.29	−10 31.7	2.842	2.338	19.0	19.9	50 W	26*	39*
2 25	18 46.38	− 9 6.3	2.712	2.304	20.8	19.8	56 W	28*	44*
3 7	19 4.11	− 7 26.1	2.578	2.270	22.5	19.7	61 W	30*	49*
3 17	19 21.38	− 5 30.8	2.442	2.235	24.0	19.6	66 W	32*	54*
3 27	19 38.08	− 3 20.4	2.304	2.200	25.5	19.5	71 W	35*	58*
4 6	19 54.13	− 0 55.1	2.167	2.165	26.7	19.4	77 W	37*	60*
4 16	20 9.41	+ 1 44.9	2.032	2.129	27.8	19.2	82 W	40*	61*
4 26	20 23.78	+ 4 38.8	1.900	2.094	28.7	19.1	86 W	44*	59*
5 6	20 37.13	+ 7 45.7	1.772	2.059	29.3	18.9	91 W	48*	56
5 16	20 49.25	+11 3.9	1.650	2.024	29.8	18.7	96 W	52*	53
5 26	20 59.95	+14 31.0	1.535	1.990	30.0	18.5	101 W	57*	49
6 5	21 8.99	+18 3.6	1.427	1.956	30.0	18.3	105 W	62*	46

70055 1999 JN_6 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 10	21 12.79	+19 50.7	1.376	1.939	30.0	18.2	107 W	64*	44
6 15	21 16.05	+21 37.2	1.327	1.922	29.9	18.1	110 W	67*	42
6 20	21 18.73	+23 22.2	1.280	1.906	29.7	18.0	112 W	68	41
6 25	21 20.81	+25 4.8	1.235	1.890	29.5	17.9	114 W	70	39
6 30	21 22.25	+26 44.1	1.192	1.874	29.2	17.8	116 W	72	37
7 5	21 22.99	+28 18.6	1.152	1.858	28.9	17.7	118 W	73	36
7 10	21 23.03	+29 47.0	1.114	1.843	28.6	17.6	120 W	75	34
7 15	21 22.34	+31 7.7	1.078	1.828	28.3	17.5	122 W	76	33
7 20	21 20.97	+32 19.1	1.045	1.814	27.9	17.4	123 W	77	32
7 25	21 18.94	+33 19.6	1.014	1.800	27.6	17.3	125 W	78	31
7 30	21 16.33	+34 7.7	0.985	1.786	27.2	17.2	126 W	79	30
8 4	21 13.24	+34 41.8	0.959	1.773	26.9	17.2	128 W	80	29
8 9	21 9.82	+35 0.5	0.935	1.760	26.6	17.1	129 E	80	29
8 14	21 6.26	+35 2.6	0.914	1.748	26.3	17.0	130 E	80	29
8 19	21 2.78	+34 47.6	0.896	1.736	26.2	16.9	131 E	80	29
8 24	20 59.59	+34 15.3	0.880	1.725	26.1	16.9	131 E	79	30
8 29	20 56.88	+33 26.1	0.867	1.714	26.1	16.8	132 E	78	31
9 3	20 54.87	+32 20.5	0.857	1.704	26.2	16.8	132 E	77	32
9 8	20 53.71	+31 0.0	0.850	1.695	26.4	16.8	132 E	76	33
9 13	20 53.55	+29 26.3	0.846	1.686	26.8	16.8	131 E	74	35
9 18	20 54.48	+27 41.5	0.845	1.678	27.3	16.8	130 E	73	36
9 23	20 56.52	+25 48.3	0.847	1.671	27.9	16.8	129 E	71	38
9 28	20 59.68	+23 48.9	0.853	1.665	28.6	16.8	127 E	69	40
10 3	21 3.93	+21 45.7	0.862	1.659	29.3	16.9	126 E	67	42
10 8	21 9.25	+19 41.4	0.875	1.654	30.2	16.9	124 E	65	44
10 13	21 15.55	+17 38.4	0.891	1.650	31.0	17.0	122 E	63	46
10 18	21 22.77	+15 38.7	0.910	1.646	31.8	17.0	119 E	61	48
10 23	21 30.81	+13 44.3	0.933	1.644	32.7	17.1	117 E	59	50
10 28	21 39.57	+11 56.5	0.959	1.642	33.4	17.2	114 E	57	52
11 2	21 48.97	+10 16.4	0.988	1.641	34.1	17.3	112 E	55	54
11 7	21 58.93	+ 8 45.0	1.020	1.641	34.8	17.4	109 E	54	55
11 12	22 9.37	+ 7 22.9	1.055	1.641	35.3	17.4	107 E	52	57*
11 22	22 31.36	+ 5 7.3	1.132	1.645	36.0	17.6	102 E	50	58*
12 2	22 54.36	+ 3 28.9	1.220	1.652	36.4	17.8	96 E	48	58*
12 12	23 17.98	+ 2 25.2	1.315	1.662	36.3	18.0	91 E	47	56*
12 22	23 41.89	+ 1 51.8	1.417	1.675	35.9	18.1	87 E	47	54*
1 1	0 5.86	+ 1 43.7	1.523	1.691	35.1	18.3	82 E	47	50*
1 11	0 29.77	+ 1 56.1	1.634	1.710	34.1	18.4	77 E	47*	47*
1 21	0 53.54	+ 2 24.2	1.747	1.731	32.9	18.6	73 E	47*	44*

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12 27	16 55.74	−15 12.3	3.927	3.040	7.0	21.0	22 W	13*	9*
1 6	17 9.68	−15 55.3	3.871	3.044	8.9	21.1	29 W	16*	16*
1 16	17 23.36	−16 32.5	3.798	3.047	10.7	21.1	35 W	19*	24*
1 26	17 36.64	−17 4.5	3.710	3.050	12.5	21.1	42 W	20*	32*
2 5	17 49.41	−17 31.9	3.607	3.051	14.1	21.1	49 W	21*	40*
2 15	18 1.53	−17 55.6	3.491	3.051	15.6	21.1	56 W	22*	48*
2 25	18 12.83	−18 16.8	3.363	3.051	16.9	21.1	63 W	23*	55*
3 7	18 23.17	−18 36.7	3.226	3.049	17.9	21.0	71 W	23*	63*
3 17	18 32.35	−18 56.8	3.081	3.047	18.7	20.9	79 W	24*	71*
3 27	18 40.15	−19 18.7	2.932	3.043	19.1	20.8	87 W	24*	79*
4 6	18 46.34	−19 44.2	2.780	3.039	19.1	20.7	95 W	24*	84*
4 16	18 50.67	−20 15.2	2.630	3.034	18.7	20.6	104 W	24*	84
4 26	18 52.85	−20 53.4	2.484	3.027	17.8	20.4	113 W	24*	85
5 6	18 52.63	−21 40.1	2.347	3.020	16.2	20.2	123 W	23	86
5 16	18 49.78	−22 35.9	2.224	3.012	14.1	20.0	134 W	22	87
5 26	18 44.21	−23 40.3	2.119	3.002	11.3	19.8	145 W	21	88
6 5	18 36.04	−24 51.0	2.037	2.992	7.9	19.6	156 W	20	89
6 10	18 31.09	−25 27.6	2.005	2.987	6.1	19.5	162 W	20	89
6 15	18 25.68	−26 4.4	1.981	2.981	4.1	19.3	168 W	19	90
6 20	18 19.90	−26 40.6	1.964	2.975	2.3	19.2	173 W	18	89
6 25	18 13.90	−27 15.8	1.954	2.969	1.3	19.1	176 E	18	89
6 30	18 7.80	−27 49.4	1.952	2.963	2.7	19.2	172 E	17	88
7 5	18 1.75	−28 20.9	1.958	2.956	4.6	19.3	167 E	17	88
7 10	17 55.89	−28 50.2	1.971	2.949	6.6	19.4	161 E	16	87
7 15	17 50.37	−29 17.1	1.990	2.942	8.5	19.5	155 E	16	87
7 20	17 45.30	−29 41.7	2.017	2.935	10.3	19.6	149 E	15	86
7 25	17 40.80	−30 3.9	2.049	2.927	12.0	19.7	143 E	15	86
8 4	17 33.76	−30 42.4	2.130	2.911	14.9	19.9	132 E	14	85
8 14	17 29.65	−31 14.6	2.228	2.895	17.3	20.1	122 E	14	85
8 24	17 28.56	−31 42.5	2.338	2.877	19.0	20.2	112 E	13*	84
9 3	17 30.36	−32 7.6	2.456	2.858	20.1	20.3	103 E	13*	84
9 13	17 34.87	−32 30.5	2.577	2.839	20.7	20.4	94 E	12*	83*
9 23	17 41.82	−32 51.6	2.699	2.818	20.8	20.5	86 E	11*	78*
10 3	17 50.92	−33 10.3	2.818	2.797	20.5	20.6	79 E	11*	71*
10 13	18 1.95	−33 26.3	2.931	2.774	19.9	20.6	71 E	10*	65*
10 23	18 14.66	−33 38.7	3.037	2.751	19.0	20.7	64 E	9*	58*
11 2	18 28.84	−33 46.8	3.133	2.727	17.8	20.7	57 E	8*	51*
11 12	18 44.30	−33 49.7	3.219	2.702	16.5	20.7	51 E	8*	45*
11 22	19 0.87	−33 46.6	3.292	2.676	15.0	20.7	44 E	7*	38*

195208 2002 DZ_3 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 2	19 18.39	−33 37.0	3.352	2.650	13.3	20.6	38 E	5*	32*
12 12	19 36.71	−33 20.2	3.399	2.622	11.6	20.6	33 E	4*	26*
12 22	19 55.68	−32 56.1	3.431	2.594	9.9	20.5	27 E	2*	21*
1 1	20 15.18	−32 24.2	3.449	2.565	8.3	20.4	22 E	—	16*
1 11	20 35.11	−31 44.6	3.453	2.535	6.8	20.3	18 E	—	12*
1 21	20 55.35	−30 57.5	3.443	2.504	5.8	20.2	15 E	—	8*

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12 27	16 55.94	−22 6.5	2.963	2.069	9.5	20.2	20 W	8*	11*
1 6	17 20.15	−22 57.3	2.883	2.032	11.7	20.2	25 W	9*	16*
1 16	17 45.07	−23 35.6	2.797	1.997	13.9	20.1	29 W	10*	21*
1 26	18 10.62	−24 0.2	2.705	1.962	16.1	20.1	34 W	10*	26*
2 5	18 36.71	−24 10.5	2.610	1.927	18.3	20.1	38 W	11*	31*
2 15	19 3.24	−24 5.9	2.511	1.894	20.4	20.0	42 W	11*	36*
2 25	19 30.07	−23 46.2	2.411	1.862	22.4	19.9	46 W	11*	40*
3 7	19 57.10	−23 11.6	2.310	1.831	24.4	19.9	50 W	10*	44*
3 17	20 24.20	−22 22.5	2.209	1.802	26.3	19.8	53 W	10*	47*
3 27	20 51.26	−21 19.9	2.108	1.774	28.1	19.7	57 W	11*	51*
4 6	21 18.16	−20 5.0	2.010	1.748	29.9	19.6	60 W	11*	54*
4 16	21 44.83	−18 39.3	1.914	1.725	31.5	19.5	64 W	11*	58*
4 26	22 11.16	−17 4.9	1.821	1.704	33.0	19.4	67 W	12*	61*
5 6	22 37.08	−15 24.0	1.731	1.686	34.3	19.3	70 W	13*	64*
5 16	23 2.49	−13 38.9	1.644	1.671	35.5	19.3	74 W	14*	67*
5 26	23 27.29	−11 52.6	1.561	1.659	36.5	19.2	77 W	16*	70*
6 5	23 51.39	−10 7.5	1.481	1.650	37.3	19.0	80 W	19*	71*
6 15	0 14.64	− 8 26.6	1.405	1.644	37.9	18.9	84 W	22*	72*
6 25	0 36.83	− 6 52.7	1.331	1.642	38.2	18.8	88 W	26*	71*
7 5	0 57.78	− 5 28.1	1.261	1.643	38.2	18.7	92 W	30*	69
7 15	1 17.17	− 4 15.4	1.193	1.648	37.8	18.6	96 W	34*	68
7 25	1 34.65	− 3 16.5	1.127	1.656	37.0	18.5	101 W	38*	67
8 4	1 49.82	− 2 32.4	1.065	1.667	35.7	18.3	107 W	41*	67
8 14	2 2.14	− 2 4.3	1.006	1.682	33.7	18.1	113 W	43*	66
8 24	2 11.08	− 1 51.6	0.952	1.699	31.1	18.0	120 W	43	66
9 3	2 16.15	− 1 52.6	0.905	1.719	27.6	17.8	128 W	43	66
9 13	2 16.90	− 2 4.3	0.866	1.741	23.3	17.6	137 W	43	66
9 18	2 15.64	− 2 12.4	0.852	1.754	20.9	17.5	142 W	43	66
9 23	2 13.33	− 2 20.8	0.840	1.766	18.3	17.4	146 W	43	66
9 28	2 10.07	− 2 28.5	0.833	1.780	15.6	17.3	152 W	43	66
10 3	2 5.98	− 2 34.5	0.831	1.793	12.8	17.2	157 W	42	67
10 8	2 1.23	− 2 37.8	0.833	1.808	10.3	17.1	161 W	42	67
10 13	1 56.05	− 2 37.3	0.840	1.822	8.1	17.1	165 W	42	67
10 18	1 50.69	− 2 32.2	0.853	1.837	7.0	17.1	167 W	42	67
10 23	1 45.38	− 2 22.1	0.871	1.853	7.3	17.2	166 E	43	66
11 2	1 35.80	− 1 46.0	0.924	1.884	10.8	17.5	159 E	43	66
11 12	1 28.73	− 0 49.6	0.998	1.918	15.3	17.9	149 E	44	65
11 22	1 24.96	+ 0 24.1	1.092	1.952	19.2	18.2	140 E	45	64
12 2	1 24.60	+ 1 50.6	1.202	1.986	22.3	18.6	130 E	47	62
12 12	1 27.43	+ 3 26.3	1.325	2.022	24.5	18.9	121 E	48	61
12 22	1 33.06	+ 5 8.0	1.460	2.058	26.0	19.2	113 E	50	59
1 1	1 41.02	+ 6 52.9	1.603	2.094	26.9	19.4	106 E	52	57*
1 11	1 50.95	+ 8 39.2	1.752	2.131	27.2	19.7	98 E	54	53*
1 21	2 2.49	+10 25.2	1.905	2.167	27.0	19.9	92 E	55	49*

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12 27	16 56.32	−10 52.6	2.241	1.404	16.7	19.5	24 W	17*	7*
1 6	17 31.14	−10 59.0	2.210	1.392	17.9	19.5	26 W	18*	9*
1 16	18 6.03	−10 43.9	2.187	1.387	18.9	19.5	27 W	18*	12*
1 26	18 40.59	−10 7.8	2.170	1.388	19.8	19.5	29 W	18*	15*
2 5	19 14.48	− 9 12.6	2.159	1.395	20.7	19.5	30 W	18*	17*
2 15	19 47.41	− 8 1.1	2.154	1.409	21.5	19.6	31 W	18*	20*
2 25	20 19.14	− 6 36.6	2.151	1.428	22.2	19.6	33 W	18*	23*
3 7	20 49.56	− 5 2.7	2.151	1.453	23.0	19.7	35 W	18*	25*
3 17	21 18.59	− 3 23.0	2.151	1.482	23.8	19.7	37 W	18*	28*
3 27	21 46.20	− 1 40.8	2.149	1.516	24.7	19.8	39 W	18*	31*
4 6	22 12.41	+ 0 0.8	2.144	1.554	25.6	19.9	42 W	19*	34*
4 16	22 37.27	+ 1 39.4	2.134	1.595	26.5	20.0	45 W	19*	37*
4 26	23 0.79	+ 3 12.4	2.119	1.639	27.5	20.0	49 W	20*	40*
5 6	23 23.01	+ 4 38.0	2.097	1.685	28.4	20.1	52 W	21*	43*
5 16	23 43.94	+ 5 54.4	2.068	1.733	29.2	20.1	57 W	23*	46*
5 26	0 3.55	+ 6 59.8	2.031	1.781	29.9	20.2	61 W	25*	49*
6 5	0 21.80	+ 7 52.6	1.987	1.831	30.5	20.2	66 W	28*	52*
6 15	0 38.58	+ 8 31.3	1.935	1.882	30.8	20.2	72 W	32*	54*
6 25	0 53.75	+ 8 54.1	1.877	1.933	30.9	20.2	78 W	36*	55*
7 5	1 7.16	+ 8 59.4	1.813	1.984	30.6	20.2	84 W	41*	55
7 15	1 18.54	+ 8 45.0	1.744	2.035	30.0	20.1	91 W	46*	55
7 25	1 27.63	+ 8 9.1	1.674	2.085	28.8	20.1	99 W	50*	56
8 4	1 34.14	+ 7 9.9	1.604	2.136	27.0	20.0	107 W	52*	57
8 14	1 37.74	+ 5 45.9	1.539	2.185	24.5	19.9	116 W	51	58
8 24	1 38.22	+ 3 57.1	1.482	2.235	21.4	19.7	126 W	49	60
9 3	1 35.53	+ 1 46.1	1.438	2.283	17.5	19.6	137 W	47	62

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
40430 1999 RL_{28} *(continuation)*									
9 8	1 33.04	+ 0 33.8	1.423	2.307	15.3	19.5	143 W	46	63
9 13	1 29.86	− 0 41.6	1.413	2.331	13.1	19.5	148 W	44	65
9 18	1 26.07	− 1 58.5	1.410	2.354	10.8	19.4	154 W	43	66
9 23	1 21.81	− 3 15.5	1.412	2.377	8.6	19.3	159 W	42	67
9 28	1 17.18	− 4 30.9	1.422	2.400	6.7	19.3	164 W	40	69
10 3	1 12.33	− 5 43.2	1.438	2.423	5.4	19.3	167 W	39	70
10 8	1 7.42	− 6 50.6	1.462	2.446	5.3	19.3	167 W	38	71
10 13	1 2.61	− 7 51.9	1.493	2.468	6.3	19.4	164 E	37	72
10 18	0 58.05	− 8 46.1	1.530	2.490	7.9	19.6	160 E	36	73
10 23	0 53.85	− 9 32.5	1.575	2.512	9.7	19.7	155 E	35	74
11 2	0 46.91	−10 41.1	1.682	2.555	13.1	20.0	144 E	34	75
11 12	0 42.36	−11 18.4	1.811	2.597	16.0	20.3	134 E	34	75
11 22	0 40.37	−11 27.9	1.957	2.637	18.1	20.6	124 E	34	75
12 2	0 40.85	−11 14.6	2.116	2.677	19.6	20.9	114 E	34	75
12 12	0 43.57	−10 43.0	2.283	2.715	20.5	21.1	105 E	34	75
12 22	0 48.25	− 9 57.4	2.456	2.753	20.8	21.3	97 E	35	72*
1 1	0 54.59	− 9 1.4	2.631	2.789	20.6	21.4	89 E	36	67*
61256 2000 OT_{25}									
12 27	16 56.49	−22 50.0	3.010	2.113	9.2	20.5	20 W	7*	12*
1 6	17 20.19	−23 30.1	2.931	2.079	11.4	20.5	25 W	9*	17*
1 16	17 44.49	−23 57.7	2.844	2.044	13.6	20.5	29 W	10*	22*
1 26	18 9.30	−24 11.7	2.751	2.010	15.8	20.5	34 W	10*	27*
2 5	18 34.52	−24 11.7	2.653	1.976	18.0	20.4	38 W	11*	32*
2 15	19 0.06	−23 57.0	2.552	1.942	20.1	20.4	43 W	11*	36*
2 25	19 25.79	−23 27.7	2.447	1.910	22.2	20.3	47 W	11*	41*
3 7	19 51.61	−22 43.8	2.340	1.877	24.2	20.2	51 W	11*	45*
3 17	20 17.42	−21 45.8	2.233	1.846	26.1	20.2	55 W	12*	49*
3 27	20 43.12	−20 34.5	2.125	1.816	27.9	20.1	59 W	12*	53*
4 6	21 8.64	−19 11.0	2.019	1.788	29.7	20.0	62 W	13*	56*
4 16	21 33.90	−17 36.6	1.914	1.761	31.3	19.9	66 W	13*	60*
4 26	21 58.83	−15 53.1	1.811	1.736	32.9	19.8	69 W	14*	63*
5 6	22 23.41	−14 2.2	1.712	1.713	34.3	19.7	73 W	16*	66*
5 16	22 47.55	−12 6.1	1.615	1.692	35.5	19.5	76 W	18*	69*
5 26	23 11.18	−10 7.1	1.522	1.674	36.6	19.4	80 W	20*	71*
6 5	23 34.24	− 8 7.7	1.433	1.658	37.4	19.3	83 W	23*	71*
6 15	23 56.59	− 6 10.4	1.347	1.645	38.1	19.2	87 W	26*	70*
6 25	0 18.08	− 4 18.1	1.265	1.636	38.4	19.0	91 W	31*	68
7 5	0 38.51	− 2 33.1	1.186	1.629	38.4	18.9	95 W	35*	67
7 15	0 57.59	− 0 58.2	1.112	1.626	38.1	18.7	100 W	39*	65
7 25	1 14.94	+ 0 24.3	1.041	1.625	37.2	18.5	104 W	43*	64
8 4	1 30.15	+ 1 32.6	0.974	1.628	35.8	18.4	110 W	46*	62
8 14	1 42.65	+ 2 25.0	0.911	1.635	33.8	18.2	116 W	47	62
8 24	1 51.86	+ 3 0.7	0.855	1.644	30.9	18.0	123 W	48	61
9 3	1 57.22	+ 3 19.8	0.806	1.657	27.1	17.7	131 W	48	61
9 13	1 58.28	+ 3 23.5	0.767	1.672	22.4	17.5	141 W	48	61
9 23	1 55.04	+ 3 15.7	0.741	1.690	16.7	17.3	151 W	48	61
9 28	1 51.98	+ 3 9.1	0.734	1.700	13.7	17.2	156 W	48	61
10 3	1 48.14	+ 3 1.9	0.731	1.710	10.5	17.1	162 W	48	61
10 8	1 43.71	+ 2 55.0	0.733	1.722	7.4	16.9	167 W	48	61
10 13	1 38.94	+ 2 49.5	0.740	1.733	4.7	16.8	172 W	48	61
10 18	1 34.10	+ 2 46.5	0.752	1.745	3.9	16.8	173 W	48	61
10 23	1 29.42	+ 2 46.8	0.770	1.758	5.6	17.0	170 E	48	61
11 2	1 21.42	+ 2 59.2	0.820	1.785	11.1	17.4	160 E	48	61
11 12	1 16.27	+ 3 29.3	0.891	1.813	16.3	17.8	149 E	48	61
11 22	1 14.63	+ 4 16.8	0.979	1.843	20.5	18.2	139 E	49	60
12 2	1 16.45	+ 5 19.1	1.082	1.874	23.8	18.6	130 E	50	59
12 12	1 21.45	+ 6 33.5	1.198	1.906	26.2	18.9	121 E	52	57
12 22	1 29.17	+ 7 56.8	1.323	1.939	27.7	19.2	114 E	53	56
1 1	1 39.14	+ 9 26.2	1.457	1.972	28.6	19.5	106 E	54	54*
1 11	1 50.98	+10 59.3	1.597	2.006	28.9	19.7	99 E	56	51*
1 21	2 4.34	+12 33.9	1.742	2.040	28.8	19.9	93 E	58	47*
456973 2008 BS_2									
12 27	16 56.51	−30 2.4	1.893	1.031	19.5	20.4	21 W	1*	14*
1 1	17 22.10	−30 10.9	1.865	0.999	19.6	20.3	20 W	—	14*
1 6	17 48.39	−30 0.1	1.840	0.968	19.6	20.2	19 W	—	13*
1 11	18 15.16	−29 28.9	1.820	0.940	19.3	20.1	18 W	—	12*
1 16	18 42.14	−28 36.3	1.804	0.914	18.7	20.0	17 W	—	11*
1 21	19 9.09	−27 22.4	1.792	0.891	18.0	20.0	16 W	—	10*
1 26	19 35.73	−25 47.8	1.784	0.872	17.0	19.9	15 W	—	9*
1 31	20 1.89	−23 53.9	1.781	0.857	15.9	19.8	14 W	—	8*
2 5	20 27.39	−21 42.9	1.781	0.846	14.6	19.7	12 W	—	6*
2 10	20 52.14	−19 17.3	1.786	0.840	13.2	19.6	11 W	—	5*
2 15	21 16.08	−16 40.0	1.794	0.839	11.7	19.6	10 W	—	4*
2 20	21 39.19	−13 54.0	1.806	0.843	10.3	19.6	9 W	—	3*
2 25	22 1.48	−11 2.3	1.822	0.852	9.1	19.6	8 W	—	2*
3 2	22 23.02	− 8 7.7	1.840	0.865	8.0	19.6	7 W	—	1*
3 7	22 43.84	− 5 12.6	1.861	0.882	7.2	19.6	6 W	—	—
3 12	23 4.03	− 2 19.2	1.885	0.904	6.7	19.7	6 W	—	—

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
456973 2008 BS_2 *(continuation)*									
3 17	23 23.64	+ 0 30.5	1.912	0.928	6.5	19.7	6 W	—	—
3 22	23 42.72	+ 3 15.1	1.940	0.956	6.4	19.8	6 W	—	—
3 27	0 1.33	+ 5 53.4	1.971	0.986	6.5	19.9	6 W	—	—
4 1	0 19.54	+ 8 24.5	2.003	1.017	6.6	20.0	7 W	1*	—
4 6	0 37.37	+10 47.7	2.036	1.050	6.7	20.2	7 W	1*	—
4 16	1 12.10	+15 9.3	2.106	1.120	7.0	20.4	8 W	2*	—
4 26	1 45.74	+18 56.4	2.177	1.192	7.3	20.6	9 W	3*	—
5 6	2 18.43	+22 9.4	2.248	1.265	7.7	20.8	10 W	3*	—
5 16	2 50.25	+24 50.0	2.316	1.338	8.3	21.0	11 W	4*	—
5 26	3 21.21	+27 0.1	2.379	1.409	9.2	21.2	13 W	6*	1*
6 5	3 51.28	+28 42.1	2.435	1.478	10.2	21.4	15 W	7*	3*
122180 2000 KV_{43}									
12 27	16 57.13	−23 0.2	2.556	1.665	11.6	21.3	20 W	7*	11*
1 6	17 24.54	−23 1.9	2.543	1.690	13.5	21.3	24 W	8*	15*
1 16	17 51.31	−22 45.3	2.522	1.714	15.5	21.4	28 W	10*	20*
1 26	18 17.29	−22 11.3	2.493	1.738	17.5	21.5	32 W	11*	24*
2 5	18 42.39	−21 21.2	2.455	1.760	19.4	21.6	36 W	12*	29*
69701 1998 HP_{49}									
12 27	16 57.18	−20 45.1	2.743	1.851	10.5	20.1	20 W	9*	11*
1 6	17 22.28	−20 21.3	2.689	1.841	12.8	20.1	25 W	11*	15*
1 16	17 47.33	−19 40.4	2.628	1.831	15.1	20.1	29 W	13*	20*
1 26	18 12.19	−18 41.8	2.560	1.820	17.3	20.2	33 W	15*	24*
2 5	18 36.79	−17 25.3	2.485	1.808	19.5	20.1	38 W	16*	29*
2 15	19 1.03	−15 50.8	2.405	1.796	21.6	20.1	42 W	18*	33*
2 25	19 24.83	−13 58.7	2.320	1.783	23.6	20.1	46 W	20*	38*
3 7	19 48.14	−11 49.5	2.232	1.769	25.5	20.1	50 W	21*	42*
3 17	20 10.93	− 9 23.6	2.142	1.756	27.4	20.0	54 W	23*	46*
3 27	20 33.16	− 6 42.1	2.050	1.742	29.1	19.9	58 W	25*	49*
4 6	20 54.84	− 3 45.9	1.957	1.727	30.7	19.9	62 W	28*	52*
4 16	21 15.98	− 0 36.3	1.864	1.713	32.2	19.8	66 W	30*	54*
4 26	21 36.58	+ 2 45.3	1.772	1.698	33.6	19.7	69 W	33*	55*
5 6	21 56.67	+ 6 17.3	1.681	1.684	34.9	19.6	73 W	36*	55*
5 16	22 16.28	+ 9 57.8	1.592	1.669	36.0	19.5	76 W	40*	53*
5 26	22 35.40	+13 44.7	1.506	1.655	37.0	19.4	80 W	45*	50*
6 5	22 54.05	+17 35.6	1.422	1.641	37.8	19.3	83 W	50*	46
6 15	23 12.20	+21 28.0	1.341	1.627	38.5	19.1	86 W	55*	43
6 20	23 21.06	+23 23.7	1.301	1.620	38.8	19.1	88 W	58*	41
6 25	23 29.78	+25 18.6	1.262	1.614	39.0	19.0	90 W	62*	39
6 30	23 38.33	+27 12.4	1.223	1.607	39.2	18.9	91 W	65*	37
7 5	23 46.70	+29 4.5	1.185	1.601	39.4	18.9	93 W	69*	35
7 10	23 54.84	+30 54.5	1.148	1.595	39.4	18.8	95 W	72*	33
7 15	0 2.73	+32 41.9	1.111	1.589	39.5	18.7	97 W	75*	31
7 20	0 10.34	+34 26.0	1.074	1.583	39.4	18.6	98 W	79*	30
7 25	0 17.61	+36 6.4	1.039	1.578	39.3	18.5	100 W	81*	28
7 30	0 24.50	+37 42.5	1.003	1.573	39.1	18.4	102 W	83	26
8 4	0 30.94	+39 13.6	0.968	1.568	38.8	18.4	104 W	84	25
8 9	0 36.83	+40 38.8	0.934	1.563	38.4	18.3	107 W	86	23
8 14	0 42.11	+41 57.2	0.900	1.558	38.0	18.2	109 W	87	22
8 19	0 46.68	+43 7.8	0.867	1.554	37.3	18.1	111 W	88	21
8 24	0 50.46	+44 9.4	0.834	1.550	36.6	17.9	114 W	89	20
8 29	0 53.36	+45 0.9	0.802	1.546	35.7	17.8	117 W	90	19
9 3	0 55.28	+45 40.5	0.772	1.543	34.7	17.7	120 W	89	18
9 8	0 56.17	+46 6.4	0.742	1.540	33.5	17.6	123 W	89	18
9 13	0 56.01	+46 16.4	0.713	1.537	32.1	17.5	126 W	89	18
9 18	0 54.86	+46 8.5	0.687	1.534	30.5	17.3	129 W	89	18
9 23	0 52.84	+45 40.6	0.662	1.532	28.7	17.2	133 W	89	18
9 28	0 50.09	+44 50.9	0.639	1.530	26.8	17.1	136 W	90	19
10 3	0 46.87	+43 37.6	0.620	1.529	24.8	16.9	140 W	89	20
10 8	0 43.46	+42 0.0	0.603	1.528	22.8	16.8	144 E	87	22
10 13	0 40.22	+39 58.8	0.590	1.527	20.9	16.7	147 E	85	24
10 18	0 37.45	+37 36.3	0.582	1.526	19.4	16.6	149 E	83	26
10 23	0 35.40	+34 56.1	0.578	1.526	18.5	16.6	151 E	80	29
10 28	0 34.25	+32 3.1	0.579	1.527	18.3	16.6	151 E	77	32
11 2	0 34.12	+29 3.1	0.585	1.527	19.0	16.6	150 E	74	35
11 7	0 35.08	+26 2.1	0.596	1.528	20.4	16.7	148 E	71	38
11 12	0 37.14	+23 6.0	0.612	1.529	22.2	16.8	144 E	68	41
11 17	0 40.25	+20 19.7	0.633	1.531	24.3	17.0	140 E	65	44
11 22	0 44.31	+17 46.7	0.659	1.533	26.5	17.1	136 E	63	46
11 27	0 49.24	+15 29.0	0.688	1.535	28.5	17.3	132 E	60	49
12 2	0 54.96	+13 27.8	0.722	1.538	30.4	17.4	128 E	58	51
12 12	1 8.41	+10 14.6	0.797	1.544	33.6	17.8	120 E	55	54
12 22	1 24.02	+ 8 1.7	0.883	1.552	35.9	18.0	112 E	53	56
1 1	1 41.25	+ 6 38.5	0.975	1.560	37.4	18.3	106 E	52	57*
1 6	1 50.37	+ 6 12.3	1.023	1.565	37.8	18.4	102 E	51	57*
1 11	1 59.78	+ 5 54.6	1.072	1.570	38.2	18.6	99 E	51	56*
1 16	2 9.44	+ 5 44.1	1.122	1.575	38.3	18.7	97 E	51	56*
1 21	2 19.32	+ 5 39.9	1.173	1.580	38.4	18.8	94 E	51	55*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
228404 2001 EQ_{17}									
12 27	16 57.74	−28 5.8	2.964	2.067	9.3	21.3	20 W	2*	13*
1 6	17 20.74	−29 34.1	2.946	2.096	11.4	21.4	25 W	3*	19*
1 16	17 43.71	−30 51.3	2.918	2.126	13.4	21.4	30 W	4*	24*
1 26	18 6.53	−31 58.2	2.880	2.155	15.4	21.5	35 W	4*	29*
2 5	18 29.08	−32 56.1	2.832	2.184	17.2	21.6	41 W	4*	35*
207974 1996 RM_1									
12 27	16 58.38	−15 52.1	2.496	1.620	12.8	20.5	21 W	12*	8*
1 6	17 29.03	−16 24.7	2.436	1.589	14.6	20.5	24 W	13*	12*
1 16	18 0.41	−16 37.1	2.378	1.561	16.3	20.4	27 W	14*	16*
1 26	18 32.31	−16 28.1	2.323	1.537	18.0	20.4	29 W	14*	19*
2 5	19 4.46	−15 57.4	2.272	1.517	19.7	20.4	31 W	14*	22*
2 15	19 36.62	−15 5.6	2.224	1.500	21.2	20.4	33 W	14*	25*
2 25	20 8.53	−13 54.2	2.179	1.489	22.7	20.3	35 W	14*	28*
3 7	20 39.97	−12 25.7	2.138	1.482	24.1	20.3	38 W	14*	30*
3 17	21 10.79	−10 42.9	2.101	1.480	25.5	20.3	40 W	14*	33*
3 27	21 40.83	− 8 49.4	2.066	1.482	26.7	20.3	42 W	14*	35*
4 6	22 10.03	− 6 48.9	2.033	1.490	27.9	20.3	44 W	14*	38*
4 16	22 38.34	− 4 44.9	2.001	1.502	29.1	20.4	47 W	14*	40*
4 26	23 5.71	− 2 41.0	1.970	1.519	30.1	20.4	49 W	15*	42*
5 6	23 32.13	− 0 40.5	1.938	1.540	31.1	20.4	52 W	16*	45*
5 16	23 57.60	+ 1 13.9	1.904	1.565	32.0	20.4	55 W	17*	47*
5 26	0 22.06	+ 2 59.3	1.869	1.593	32.8	20.4	58 W	19*	50*
6 5	0 45.48	+ 4 33.7	1.830	1.624	33.5	20.5	62 W	22*	52*
6 15	1 7.78	+ 5 55.1	1.788	1.658	34.0	20.5	66 W	25*	53*
6 25	1 28.84	+ 7 1.8	1.742	1.695	34.4	20.5	70 W	29*	54*
7 5	1 48.52	+ 7 52.8	1.692	1.733	34.5	20.5	75 W	34*	55*
7 15	2 6.62	+ 8 26.6	1.638	1.773	34.4	20.4	80 W	39*	55*
7 25	2 22.89	+ 8 42.5	1.581	1.814	33.9	20.4	86 W	44*	55
8 4	2 37.05	+ 8 39.7	1.521	1.856	33.1	20.3	92 W	49*	55
8 14	2 48.73	+ 8 17.5	1.459	1.899	31.8	20.3	99 W	52*	56
8 24	2 57.58	+ 7 36.0	1.398	1.943	30.0	20.2	106 W	53*	56
9 3	3 3.21	+ 6 35.4	1.340	1.986	27.5	20.1	115 W	52	57
9 13	3 5.27	+ 5 17.2	1.289	2.030	24.3	19.9	124 W	50	59
9 23	3 3.62	+ 3 44.8	1.248	2.074	20.4	19.8	134 W	49	60
9 28	3 1.43	+ 2 55.0	1.233	2.096	18.3	19.7	139 W	48	61
10 3	2 58.38	+ 2 4.0	1.223	2.118	16.0	19.6	144 W	47	62
10 8	2 54.57	+ 1 13.0	1.217	2.139	13.7	19.6	150 W	46	63
10 13	2 50.12	+ 0 23.2	1.217	2.161	11.4	19.5	155 W	45	64
10 18	2 45.18	− 0 23.9	1.223	2.182	9.4	19.5	159 W	45	64
10 23	2 39.92	− 1 7.0	1.235	2.204	7.8	19.4	162 W	44	65
10 28	2 34.52	− 1 45.1	1.253	2.225	7.1	19.4	164 W	43	66
11 2	2 29.16	− 2 17.3	1.278	2.246	7.4	19.5	163 W	43	66
11 12	2 19.27	− 3 1.0	1.347	2.288	10.1	19.8	156 E	42	67
11 22	2 11.39	− 3 16.3	1.441	2.329	13.6	20.1	146 E	42	67
12 2	2 6.17	− 3 5.3	1.555	2.369	16.7	20.4	136 E	42	67
12 12	2 3.83	− 2 32.2	1.687	2.409	19.1	20.7	127 E	42	67
12 22	2 4.28	− 1 41.8	1.833	2.447	20.9	21.0	117 E	43	66
1 1	2 7.24	− 0 38.8	1.989	2.485	22.0	21.2	109 E	44	65
1 11	2 12.39	+ 0 33.1	2.151	2.522	22.6	21.5	100 E	46	62*
308273 2005 GL_{156}									
12 27	16 59.55	−21 56.1	2.772	1.874	10.0	20.3	19 W	7*	11*
1 6	17 26.84	−22 29.7	2.684	1.823	12.3	20.3	23 W	9*	15*
1 16	17 55.24	−22 46.0	2.593	1.773	14.5	20.2	27 W	9*	19*
1 26	18 24.63	−22 42.8	2.501	1.724	16.7	20.2	30 W	10*	23*
2 5	18 54.88	−22 18.3	2.409	1.676	18.9	20.1	33 W	10*	27*
2 15	19 25.83	−21 31.0	2.318	1.631	21.0	20.0	36 W	10*	30*
2 25	19 57.29	−20 20.3	2.231	1.589	23.1	19.9	39 W	10*	33*
3 7	20 29.05	−18 46.2	2.148	1.549	25.0	19.9	41 W	10*	35*
3 17	21 0.94	−16 49.6	2.070	1.513	26.9	19.8	44 W	10*	37*
3 27	21 32.76	−14 32.3	1.999	1.481	28.7	19.7	45 W	10*	39*
4 6	22 4.38	−11 57.1	1.935	1.454	30.3	19.7	47 W	11*	41*
4 16	22 35.70	− 9 7.7	1.878	1.433	31.8	19.6	49 W	11*	43*
4 26	23 6.61	− 6 8.4	1.828	1.417	33.2	19.6	50 W	12*	44*
5 6	23 37.08	− 3 3.8	1.784	1.407	34.3	19.5	52 W	13*	45*
5 16	0 7.04	+ 0 1.2	1.747	1.403	35.4	19.5	53 W	15*	46*
5 26	0 36.44	+ 3 1.9	1.714	1.406	36.2	19.5	55 W	17*	47*
6 5	1 5.24	+ 5 54.3	1.684	1.416	36.9	19.5	57 W	19*	47*
6 15	1 33.35	+ 8 34.7	1.657	1.431	37.5	19.5	59 W	23*	48*
6 25	2 0.67	+11 0.2	1.631	1.452	37.9	19.5	61 W	27*	47*
7 5	2 27.06	+13 9.1	1.604	1.479	38.2	19.5	64 W	32*	47*
7 15	2 52.35	+15 0.2	1.575	1.510	38.4	19.5	67 W	37*	46*
7 25	3 16.31	+16 33.2	1.544	1.546	38.4	19.5	71 W	42*	46*
8 4	3 38.72	+17 48.5	1.509	1.585	38.2	19.5	75 W	48*	45*
8 14	3 59.26	+18 47.3	1.470	1.628	37.7	19.5	80 W	54*	45*
8 24	4 17.61	+19 30.9	1.427	1.673	37.0	19.5	85 W	59*	44*
9 3	4 33.41	+20 1.4	1.380	1.720	35.9	19.4	91 W	63*	44
9 13	4 46.23	+20 20.8	1.331	1.769	34.3	19.4	97 W	65*	44
9 23	4 55.61	+20 31.2	1.280	1.819	32.2	19.3	105 W	66	43
10 3	5 1.13	+20 34.5	1.231	1.870	29.4	19.2	113 W	66	43

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
308273 2005 GL_{156} *(continuation)*									
10 13	5 2.37	+20 32.0	1.186	1.921	25.8	19.1	123 W	66	43
10 23	4 59.17	+20 24.5	1.150	1.973	21.4	18.9	134 W	65	44
11 2	4 51.77	+20 12.2	1.129	2.025	16.2	18.8	145 W	65	44
11 7	4 46.72	+20 4.2	1.125	2.051	13.3	18.7	152 W	65	44
11 12	4 40.98	+19 55.0	1.126	2.077	10.3	18.6	158 W	65	44
11 17	4 34.76	+19 44.9	1.134	2.103	7.3	18.5	164 W	65	44
11 22	4 28.29	+19 34.2	1.148	2.129	4.2	18.4	171 W	64	44
11 27	4 21.81	+19 23.2	1.169	2.155	1.4	18.3	177 W	64	45
12 2	4 15.53	+19 12.3	1.196	2.181	2.1	18.4	175 E	64	45
12 7	4 9.66	+19 2.2	1.231	2.206	4.9	18.7	169 E	64	45
12 12	4 4.40	+18 53.4	1.272	2.231	7.5	18.9	163 E	64	45
12 22	3 56.13	+18 41.2	1.372	2.282	12.2	19.3	151 E	64	45
1 1	3 51.24	+18 38.1	1.495	2.331	15.9	19.7	139 E	64	45
1 11	3 49.78	+18 44.5	1.636	2.380	18.8	20.0	129 E	64	45
1 21	3 51.47	+18 59.7	1.791	2.428	20.7	20.3	119 E	64	45
162819 2001 BD_{34}									
12 27	17 0.08	−39 10.9	3.981	3.107	7.3	21.3	24 W	—	17*
1 6	17 18.26	−39 34.1	3.926	3.100	8.8	21.3	29 W	—	22*
1 16	17 36.26	−39 53.4	3.855	3.093	10.3	21.3	34 W	—	28*
1 26	17 53.95	−40 8.9	3.769	3.084	11.9	21.3	40 W	—	33*
2 5	18 11.18	−40 21.3	3.670	3.075	13.4	21.3	46 W	—	39*
2 15	18 27.83	−40 31.3	3.559	3.064	14.9	21.3	53 W	—	45*
2 25	18 43.71	−40 39.7	3.437	3.053	16.2	21.3	59 W	—	51*
3 7	18 58.67	−40 47.6	3.306	3.041	17.3	21.2	66 W	—	56*
3 17	19 12.53	−40 56.3	3.166	3.028	18.3	21.2	73 W	—	62*
3 27	19 25.05	−41 7.0	3.021	3.013	19.0	21.1	80 W	1*	67*
4 6	19 36.04	−41 21.2	2.873	2.998	19.5	21.0	87 W	1*	71*
4 16	19 45.18	−41 40.2	2.723	2.982	19.6	20.8	95 W	1*	74*
4 26	19 52.17	−42 4.9	2.574	2.966	19.3	20.7	103 W	2*	74
5 6	19 56.65	−42 35.8	2.430	2.948	18.6	20.5	111 W	2*	73
5 16	19 58.20	−43 12.3	2.294	2.929	17.5	20.4	120 W	2*	73
5 21	19 57.76	−43 32.1	2.230	2.919	16.7	20.3	124 W	1*	72
5 26	19 56.45	−43 52.4	2.169	2.909	15.8	20.2	128 W	1	72
5 31	19 54.24	−44 12.5	2.112	2.899	14.8	20.1	133 W	1	72
6 5	19 51.12	−44 31.9	2.060	2.889	13.8	20.0	137 W	—	71
6 10	19 47.08	−44 49.7	2.012	2.878	12.6	19.9	142 W	—	71
6 15	19 42.16	−45 4.8	1.969	2.867	11.4	19.8	146 W	—	71
6 20	19 36.44	−45 16.3	1.932	2.856	10.3	19.7	150 W	—	71
6 25	19 30.01	−45 23.1	1.900	2.845	9.3	19.6	153 W	—	71
6 30	19 23.03	−45 24.5	1.875	2.833	8.5	19.5	156 W	—	71
7 5	19 15.66	−45 19.5	1.857	2.822	8.0	19.5	157 W	—	71
7 10	19 8.11	−45 7.9	1.845	2.810	8.1	19.4	157 E	—	71
7 15	19 0.60	−44 49.2	1.840	2.797	8.6	19.4	156 E	—	71
7 20	18 53.35	−44 23.9	1.842	2.785	9.6	19.5	153 E	1	72
7 25	18 46.55	−43 52.3	1.850	2.772	10.8	19.5	149 E	1	72
7 30	18 40.38	−43 15.2	1.864	2.760	12.1	19.6	145 E	2	73
8 4	18 34.97	−42 33.5	1.884	2.747	13.5	19.6	141 E	2	73
8 9	18 30.41	−41 48.2	1.910	2.733	14.9	19.7	136 E	3	74
8 14	18 26.76	−41 0.3	1.940	2.720	16.2	19.8	132 E	4	75
8 19	18 24.06	−40 10.8	1.975	2.706	17.4	19.9	127 E	5	76
8 24	18 22.30	−39 20.4	2.013	2.692	18.5	19.9	122 E	6	77
9 3	18 21.47	−37 39.4	2.100	2.664	20.4	20.1	113 E	7	78
9 13	18 23.96	−36 0.9	2.197	2.635	21.7	20.2	104 E	9	80
9 23	18 29.36	−34 26.4	2.299	2.605	22.5	20.3	96 E	11*	82
10 3	18 37.23	−32 55.8	2.403	2.574	22.9	20.3	88 E	12*	80*
10 13	18 47.18	−31 28.0	2.506	2.543	22.8	20.4	81 E	13*	74*
10 23	18 58.86	−30 1.7	2.606	2.510	22.3	20.5	73 E	14*	67*
11 2	19 11.97	−28 35.1	2.700	2.478	21.5	20.5	66 E	15*	60*
11 12	19 26.27	−27 6.7	2.788	2.444	20.5	20.5	60 E	16*	53*
11 22	19 41.53	−25 35.0	2.866	2.410	19.2	20.5	53 E	17*	46*
12 2	19 57.57	−23 58.7	2.935	2.376	17.7	20.4	47 E	17*	38*
12 12	20 14.24	−22 16.7	2.993	2.341	16.0	20.4	41 E	17*	31*
12 22	20 31.39	−20 28.1	3.040	2.305	14.2	20.3	35 E	17*	24*
1 1	20 48.94	−18 32.3	3.074	2.269	12.3	20.3	29 E	15*	18*
1 11	21 6.80	−16 28.7	3.097	2.233	10.3	20.2	24 E	13*	12*
1 21	21 24.90	−14 17.1	3.108	2.197	8.2	20.0	18 E	10*	7*
358604 2007 VQ_3									
12 27	17 0.13	−16 44.6	2.907	2.017	9.9	21.0	21 W	11*	8*
1 6	17 24.44	−17 2.6	2.828	1.980	12.1	21.0	25 W	13*	13*
1 16	17 49.30	−17 6.3	2.744	1.943	14.2	20.9	29 W	15*	18*
1 26	18 14.63	−16 54.5	2.655	1.907	16.3	20.9	33 W	16*	23*
2 5	18 40.33	−16 26.9	2.564	1.871	18.4	20.9	37 W	17*	28*
2 15	19 6.30	−15 43.0	2.470	1.837	20.5	20.8	41 W	17*	32*
2 25	19 32.43	−14 42.9	2.375	1.803	22.5	20.7	44 W	18*	36*
3 7	19 58.64	−13 27.3	2.280	1.772	24.5	20.7	48 W	19*	40*
3 17	20 24.84	−11 57.0	2.185	1.742	26.4	20.6	51 W	19*	44*
3 27	20 50.96	−10 13.4	2.093	1.713	28.2	20.5	54 W	20*	47*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
358604 2007 VQ_3 *(continuation)*									
4 6	21 16.95	− 8 18.4	2.002	1.688	30.0	20.4	57 W	21*	50*
4 16	21 42.78	− 6 13.9	1.914	1.664	31.6	20.4	60 W	22*	52*
4 26	22 8.40	− 4 2.7	1.828	1.643	33.2	20.3	63 W	23*	55*
5 6	22 33.82	− 1 47.4	1.746	1.626	34.6	20.2	66 W	24*	56*
5 16	22 59.00	+ 0 29.0	1.667	1.611	35.9	20.1	69 W	26*	58*
5 26	23 23.90	+ 2 43.1	1.590	1.600	37.0	20.0	72 W	28*	58*
6 5	23 48.48	+ 4 51.7	1.517	1.593	38.0	19.9	75 W	31*	58*
6 15	0 12.63	+ 6 51.4	1.446	1.589	38.8	19.9	78 W	35*	57*
6 25	0 36.22	+ 8 38.9	1.377	1.589	39.3	19.8	82 W	39*	55*
7 5	0 59.07	+10 11.1	1.309	1.592	39.5	19.7	85 W	43*	54
7 15	1 20.91	+11 24.9	1.244	1.599	39.5	19.6	89 W	48*	53
7 25	1 41.40	+12 17.7	1.179	1.610	39.0	19.4	94 W	52*	52
8 4	2 0.14	+12 47.3	1.117	1.624	38.1	19.3	99 W	56*	51
8 14	2 16.62	+12 51.5	1.057	1.641	36.6	19.2	105 W	58*	51
8 24	2 30.29	+12 28.8	0.999	1.662	34.5	19.0	112 W	57	52
9 3	2 40.58	+11 38.7	0.947	1.685	31.6	18.9	119 W	57	52
9 13	2 46.93	+10 21.5	0.901	1.711	27.8	18.7	127 W	55	54
9 23	2 49.02	+ 8 40.0	0.865	1.738	23.2	18.5	137 W	54	55
9 28	2 48.46	+ 7 42.1	0.851	1.753	20.6	18.4	142 W	53	56
10 3	2 46.88	+ 6 40.7	0.842	1.768	17.8	18.3	147 W	52	57
10 8	2 44.37	+ 5 37.4	0.837	1.784	15.0	18.2	153 W	51	58
10 13	2 41.07	+ 4 34.0	0.836	1.800	12.1	18.1	158 W	50	59
10 18	2 37.19	+ 3 32.4	0.841	1.816	9.5	18.0	162 W	49	60
10 23	2 32.91	+ 2 34.6	0.851	1.833	7.4	18.0	166 W	48	61
10 28	2 28.46	+ 1 42.1	0.867	1.850	6.6	18.0	168 W	47	62
11 2	2 24.06	+ 0 56.6	0.888	1.867	7.3	18.1	166 E	46	63
11 7	2 19.92	+ 0 19.1	0.915	1.885	9.0	18.3	163 E	45	64
11 12	2 16.22	− 0 9.6	0.948	1.903	11.2	18.5	158 E	45	64
11 22	2 10.71	− 0 40.2	1.029	1.939	15.6	18.9	148 E	44	65
12 2	2 8.16	− 0 37.9	1.127	1.976	19.4	19.2	138 E	44	65
12 12	2 8.73	− 0 7.8	1.242	2.013	22.3	19.6	129 E	45	64
12 17	2 10.13	+ 0 15.6	1.304	2.031	23.5	19.7	125 E	45	64
12 22	2 12.22	+ 0 43.5	1.370	2.050	24.5	19.9	120 E	46	63
12 27	2 14.95	+ 1 15.2	1.437	2.069	25.2	20.0	116 E	46	63
1 1	2 18.27	+ 1 49.9	1.507	2.088	25.8	20.2	112 E	47	62
1 6	2 22.13	+ 2 27.2	1.579	2.107	26.3	20.3	108 E	47	62*
1 11	2 26.50	+ 3 6.5	1.652	2.125	26.6	20.4	105 E	48	61*
1 16	2 31.32	+ 3 47.3	1.727	2.144	26.8	20.5	101 E	49	59*
1 21	2 36.55	+ 4 29.1	1.803	2.163	26.8	20.7	97 E	49	58*
208617 2002 EB_3									
12 27	17 0.33	−26 19.4	1.614	0.757	25.2	19.3	19 W	4*	12*
1 1	17 33.90	−27 4.7	1.583	0.701	23.8	19.0	17 W	1*	10*
1 6	18 9.57	−27 17.7	1.560	0.651	21.4	18.8	14 W	—	8*
1 11	18 46.78	−26 52.2	1.545	0.609	17.8	18.5	11 W	—	5*
1 16	19 24.74	−25 44.4	1.536	0.577	13.2	18.2	8 W	—	2*
1 21	20 2.54	−23 53.9	1.534	0.559	8.0	17.9	5 W	—	—
1 26	20 39.28	−21 24.6	1.537	0.557	5.3	17.8	3 E	—	—
1 31	21 14.28	−18 24.5	1.546	0.570	8.5	18.0	5 E	—	—
2 5	21 47.15	−15 3.4	1.559	0.599	13.2	18.3	8 E	—	1*
2 10	22 17.78	−11 31.0	1.579	0.639	17.2	18.6	11 E	3*	2*
2 15	22 46.27	− 7 56.0	1.605	0.687	20.0	18.9	14 E	6*	3*
2 20	23 12.79	− 4 24.7	1.638	0.741	21.8	19.2	16 E	9*	4*
2 25	23 37.57	− 1 1.7	1.677	0.799	22.7	19.4	18 E	11*	5*
3 2	0 0.83	+ 2 10.1	1.722	0.858	23.0	19.6	20 E	13*	5*
3 7	0 22.75	+ 5 8.9	1.773	0.919	22.8	19.8	21 E	14*	6*
3 17	1 3.25	+10 25.9	1.887	1.040	21.5	20.2	22 E	16*	6*
3 27	1 40.12	+14 49.9	2.014	1.159	19.4	20.5	23 E	16*	5*
4 6	2 14.11	+18 26.5	2.146	1.273	17.0	20.8	22 E	15*	5*
4 16	2 45.79	+21 22.3	2.281	1.383	14.5	21.0	20 E	14*	4*
4 26	3 15.53	+23 43.6	2.413	1.488	12.0	21.2	18 E	12*	2*
5 6	3 43.64	+25 35.9	2.539	1.587	9.6	21.4	15 E	9*	1*
5 16	4 10.33	+27 3.8	2.657	1.682	7.2	21.5	12 E	6*	—
212188 2005 GX_{94}									
12 27	17 0.50	−15 16.6	2.896	2.010	10.2	20.8	21 W	13*	8*
1 6	17 24.96	−15 18.7	2.813	1.969	12.3	20.8	25 W	15*	12*
1 16	17 50.00	−15 5.4	2.726	1.929	14.5	20.7	29 W	16*	17*
1 26	18 15.52	−14 35.6	2.635	1.890	16.6	20.7	33 W	18*	22*
2 5	18 41.42	−13 48.8	2.542	1.851	18.7	20.6	37 W	19*	27*
2 15	19 7.61	−12 44.5	2.448	1.814	20.7	20.6	40 W	20*	31*
2 25	19 33.98	−11 22.9	2.355	1.779	22.7	20.5	44 W	21*	35*
3 7	20 0.43	− 9 44.9	2.263	1.746	24.6	20.4	47 W	21*	38*
3 17	20 26.90	− 7 51.4	2.173	1.714	26.4	20.4	50 W	22*	41*
3 27	20 53.31	− 5 44.4	2.086	1.686	28.2	20.3	53 W	23*	44*
4 6	21 19.61	− 3 26.1	2.002	1.660	29.9	20.2	56 W	24*	47*
4 16	21 45.78	− 0 59.0	1.922	1.637	31.5	20.1	58 W	25*	49*
4 26	22 11.78	+ 1 33.5	1.846	1.617	32.9	20.1	61 W	27*	50*
5 6	22 37.62	+ 4 8.3	1.773	1.601	34.3	20.0	63 W	28*	51*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
212188 2005 GX_{94} *(continuation)*									
5 16	23 3.25	+ 6 41.7	1.704	1.589	35.5	19.9	66 W	30*	52*
5 26	23 28.64	+ 9 10.0	1.637	1.581	36.6	19.9	69 W	33*	52*
6 5	23 53.75	+11 29.7	1.573	1.577	37.6	19.8	71 W	36*	51*
6 15	0 18.45	+13 37.3	1.510	1.578	38.3	19.7	74 W	39*	50*
6 25	0 42.61	+15 29.3	1.449	1.583	38.9	19.7	78 W	43*	48*
6 30	0 54.43	+16 18.6	1.418	1.586	39.0	19.6	79 W	45*	48*
7 5	1 6.03	+17 3.0	1.388	1.591	39.2	19.6	81 W	48*	47
7 10	1 17.38	+17 42.1	1.358	1.597	39.2	19.5	83 W	50*	46
7 15	1 28.43	+18 15.5	1.327	1.604	39.2	19.5	85 W	53*	46
7 20	1 39.14	+18 43.1	1.297	1.612	39.0	19.5	87 W	55*	45
7 25	1 49.46	+19 4.4	1.267	1.621	38.8	19.4	90 W	57*	45
7 30	1 59.34	+19 19.5	1.236	1.630	38.5	19.4	92 W	59*	45
8 4	2 8.71	+19 27.9	1.206	1.641	38.0	19.3	95 W	61*	45
8 9	2 17.52	+19 29.4	1.176	1.652	37.4	19.3	98 W	63*	45
8 14	2 25.68	+19 23.8	1.146	1.665	36.7	19.2	101 W	64*	45
8 24	2 39.83	+18 50.7	1.087	1.691	34.8	19.1	107 W	64	45
9 3	2 50.61	+17 47.4	1.032	1.720	32.1	18.9	115 W	63	46
9 13	2 57.49	+16 13.4	0.983	1.752	28.6	18.7	123 W	61	48
9 23	3 0.14	+14 10.1	0.943	1.786	24.2	18.6	133 W	59	50
9 28	2 59.88	+12 58.7	0.927	1.804	21.7	18.5	138 W	58	51
10 3	2 58.59	+11 42.0	0.916	1.822	18.9	18.4	144 W	57	52
10 8	2 56.36	+10 21.3	0.909	1.840	16.1	18.3	149 W	55	54
10 13	2 53.31	+ 8 58.4	0.906	1.859	13.1	18.2	155 W	54	55
10 18	2 49.63	+ 7 35.2	0.909	1.878	10.2	18.1	160 W	53	56
10 23	2 45.49	+ 6 14.1	0.918	1.898	7.6	18.1	165 W	51	58
10 28	2 41.11	+ 4 57.0	0.933	1.917	5.8	18.0	169 W	50	59
11 2	2 36.68	+ 3 45.9	0.954	1.937	5.6	18.1	169 W	49	60
11 7	2 32.43	+ 2 42.5	0.981	1.957	7.0	18.2	166 E	48	61
11 12	2 28.53	+ 1 48.0	1.014	1.977	9.2	18.4	161 E	47	62
11 22	2 22.38	+ 0 28.0	1.097	2.018	13.7	18.8	151 E	45	64
12 2	2 18.96	− 0 14.0	1.200	2.060	17.6	19.2	141 E	45	64
12 12	2 18.51	− 0 22.3	1.320	2.102	20.7	19.5	131 E	45	64
12 17	2 19.38	− 0 15.9	1.386	2.123	21.9	19.7	126 E	45	64
12 22	2 20.92	− 0 3.7	1.454	2.143	22.9	19.9	122 E	45	64
12 27	2 23.09	+ 0 13.6	1.526	2.164	23.7	20.0	118 E	45	64
1 1	2 25.85	+ 0 35.3	1.599	2.185	24.4	20.2	113 E	46	63
1 6	2 29.16	+ 1 0.5	1.675	2.206	24.9	20.3	109 E	46	63
1 11	2 32.98	+ 1 28.7	1.752	2.227	25.2	20.4	106 E	46	62*
1 16	2 37.25	+ 1 59.3	1.831	2.248	25.4	20.5	102 E	47	61*
1 21	2 41.93	+ 2 31.7	1.910	2.268	25.4	20.7	98 E	48	60*
112891 2002 QG_{47}									
12 27	17 0.62	−23 17.9	2.643	1.743	10.6	20.9	19 W	6*	11*
1 6	17 29.71	−24 8.9	2.581	1.714	12.7	20.9	23 W	7*	15*
1 16	17 59.66	−24 40.5	2.516	1.687	14.7	20.9	26 W	7*	19*
1 26	18 30.27	−24 51.0	2.451	1.661	16.8	20.8	29 W	7*	22*
2 5	19 1.33	−24 39.5	2.385	1.638	18.7	20.8	32 W	7*	26*
2 15	19 32.61	−24 5.5	2.319	1.616	20.6	20.8	35 W	7*	29*
2 25	20 3.84	−23 9.4	2.255	1.598	22.5	20.8	38 W	7*	32*
3 7	20 34.81	−21 52.4	2.192	1.582	24.3	20.7	41 W	7*	35*
3 17	21 5.31	−20 16.2	2.131	1.568	25.9	20.7	44 W	7*	38*
3 27	21 35.18	−18 23.5	2.072	1.559	27.5	20.7	46 W	7*	40*
4 6	22 4.31	−16 16.9	2.015	1.552	29.1	20.6	49 W	7*	43*
4 16	22 32.64	−13 59.8	1.960	1.549	30.5	20.6	51 W	8*	45*
4 26	23 0.09	−11 35.6	1.907	1.549	31.8	20.6	54 W	9*	48*
5 6	23 26.68	− 9 7.6	1.855	1.552	32.9	20.6	57 W	10*	51*
5 16	23 52.38	− 6 38.8	1.804	1.559	34.0	20.6	60 W	12*	53*
5 26	0 17.16	− 4 12.6	1.753	1.569	35.0	20.5	63 W	15*	55*
6 5	0 41.02	− 1 51.3	1.702	1.583	35.8	20.5	66 W	18*	57*
6 15	1 3.89	+ 0 22.7	1.649	1.599	36.4	20.5	69 W	22*	58*
6 25	1 25.69	+ 2 27.2	1.595	1.618	36.9	20.5	73 W	26*	59*
7 5	1 46.30	+ 4 20.9	1.540	1.639	37.1	20.4	77 W	32*	59*
7 15	2 5.55	+ 6 2.5	1.482	1.663	37.1	20.4	81 W	37*	58*
7 25	2 23.19	+ 7 31.2	1.422	1.689	36.9	20.3	86 W	43*	56
8 4	2 38.96	+ 8 46.8	1.360	1.717	36.2	20.2	91 W	48*	55
8 14	2 52.46	+ 9 49.0	1.296	1.746	35.1	20.1	97 W	53*	54
8 24	3 3.25	+10 38.0	1.232	1.776	33.5	20.0	104 W	56*	53
9 3	3 10.87	+11 14.4	1.170	1.808	31.2	19.9	112 W	56	53
9 13	3 14.77	+11 38.7	1.112	1.840	28.1	19.7	121 W	57	52
9 23	3 14.55	+11 51.6	1.061	1.873	24.2	19.5	130 W	57	52
10 3	3 10.04	+11 54.2	1.022	1.906	19.3	19.3	141 W	57	52
10 13	3 1.56	+11 48.0	0.998	1.940	13.6	19.1	153 W	57	52
10 18	2 56.12	+11 42.5	0.994	1.957	10.5	19.0	159 W	57	52
10 23	2 50.14	+11 36.1	0.996	1.974	7.4	18.9	165 W	57	52
10 28	2 43.83	+11 29.2	1.003	1.991	4.3	18.8	171 W	56	53
11 2	2 37.42	+11 22.6	1.017	2.008	2.0	18.7	176 W	56	53
11 7	2 31.16	+11 16.9	1.037	2.025	3.1	18.8	174 E	56	53
11 12	2 25.29	+11 12.9	1.063	2.042	5.9	19.0	168 E	56	53

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	112891 2002 QG_{47}					*(continuation)*			
	h m	° ′			°	m	°	°	°
11 17	2 20.00	+11 11.1	1.096	2.059	8.7	19.3	162 E	56	53
11 22	2 15.43	+11 12.1	1.135	2.075	11.3	19.5	156 E	56	53
12 2	2 8.81	+11 23.4	1.229	2.109	15.9	19.8	144 E	56	53
12 12	2 5.78	+11 47.8	1.341	2.141	19.5	20.2	133 E	57	52
12 22	2 6.22	+12 24.7	1.469	2.174	22.1	20.5	124 E	57	52
1 1	2 9.75	+13 12.2	1.608	2.206	23.9	20.8	115 E	58	51
1 11	2 15.95	+14 8.2	1.755	2.237	25.0	21.0	106 E	59	49*
1 21	2 24.37	+15 10.5	1.908	2.267	25.4	21.2	98 E	60	47*
	164670 1996 XM_6								
12 27	17 0.95	−21 22.3	3.538	2.629	7.1	21.5	19 W	8*	10*
1 6	17 19.17	−21 52.9	3.454	2.597	9.2	21.5	25 W	10*	16*
1 16	17 37.59	−22 15.9	3.357	2.564	11.4	21.5	31 W	12*	23*
1 26	17 56.14	−22 31.2	3.248	2.530	13.5	21.5	37 W	13*	29*
2 5	18 14.73	−22 38.8	3.129	2.496	15.5	21.4	43 W	14*	35*
2 15	18 33.28	−22 39.0	3.000	2.460	17.5	21.4	49 W	15*	42*
2 25	18 51.69	−22 32.0	2.863	2.424	19.4	21.3	54 W	16*	48*
3 7	19 9.89	−22 18.7	2.719	2.387	21.1	21.2	60 W	16*	54*
3 17	19 27.76	−21 59.7	2.570	2.350	22.8	21.1	66 W	17*	60*
3 27	19 45.22	−21 36.1	2.418	2.312	24.2	21.0	72 W	17*	66*
4 6	20 2.17	−21 9.3	2.263	2.273	25.5	20.8	78 W	18*	72*
4 16	20 18.51	−20 40.7	2.107	2.234	26.5	20.7	84 W	19*	77*
4 26	20 34.08	−20 12.3	1.952	2.195	27.3	20.5	90 W	20*	82*
5 6	20 48.77	−19 46.2	1.799	2.155	27.7	20.3	96 W	21*	84
5 16	21 2.38	−19 24.9	1.649	2.115	27.8	20.0	103 W	22*	83
5 26	21 14.68	−19 11.5	1.505	2.075	27.4	19.8	109 W	24*	83
6 5	21 25.43	−19 9.1	1.368	2.035	26.5	19.5	117 W	25*	83
6 15	21 34.24	−19 21.5	1.239	1.995	24.9	19.2	124 W	25*	83
6 25	21 40.74	−19 52.2	1.122	1.955	22.6	18.9	132 W	25	84
7 5	21 44.49	−20 43.6	1.016	1.917	19.5	18.5	141 W	24	85
7 15	21 45.06	−21 56.8	0.926	1.878	15.5	18.2	150 W	23	86
7 20	21 44.09	−22 40.6	0.888	1.859	13.3	18.0	155 W	22	87
7 25	21 42.30	−23 28.1	0.854	1.841	11.0	17.8	160 W	22	87
7 30	21 39.73	−24 18.2	0.825	1.823	8.7	17.6	164 W	21	88
8 4	21 36.46	−25 9.3	0.800	1.805	6.8	17.4	168 W	20	89
8 9	21 32.62	−25 59.6	0.781	1.787	6.1	17.3	169 W	19	90
8 14	21 28.42	−26 47.0	0.767	1.770	7.1	17.3	168 E	18	89
8 19	21 24.10	−27 29.6	0.758	1.753	9.2	17.3	164 E	18	89
8 24	21 19.90	−28 5.8	0.754	1.737	11.9	17.4	159 E	17	88
8 29	21 16.08	−28 34.5	0.755	1.721	14.8	17.5	154 E	16	87
9 3	21 12.85	−28 54.7	0.760	1.706	17.6	17.6	149 E	16	87
9 8	21 10.45	−29 6.0	0.768	1.691	20.4	17.7	144 E	16	87
9 13	21 9.04	−29 8.3	0.781	1.677	23.0	17.8	139 E	16	87
9 18	21 8.74	−29 2.0	0.796	1.664	25.4	17.9	135 E	16	87
9 23	21 9.58	−28 47.6	0.814	1.651	27.6	18.0	130 E	16	87
10 3	21 14.68	−27 56.1	0.857	1.628	31.4	18.2	122 E	17	88
10 13	21 24.08	−26 37.7	0.908	1.608	34.2	18.3	115 E	18	89
10 23	21 37.16	−24 55.6	0.964	1.591	36.3	18.5	109 E	20	89
10 28	21 44.84	−23 56.5	0.993	1.584	37.2	18.6	106 E	21	88
11 2	21 53.17	−22 52.5	1.024	1.578	37.8	18.7	103 E	22	87
11 7	22 2.08	−21 43.8	1.056	1.573	38.3	18.7	100 E	23	86
11 12	22 11.49	−20 30.6	1.089	1.569	38.7	18.8	98 E	24	85*
11 17	22 21.32	−19 13.3	1.122	1.565	39.0	18.9	96 E	26	82*
11 22	22 31.51	−17 52.3	1.156	1.563	39.1	18.9	93 E	27	80*
11 27	22 42.00	−16 27.9	1.192	1.562	39.2	19.0	91 E	29	76*
12 2	22 52.74	−15 0.3	1.228	1.562	39.1	19.1	89 E	30	73*
12 7	23 3.72	−13 30.1	1.265	1.563	39.0	19.1	87 E	32	70*
12 12	23 14.88	−11 57.4	1.303	1.565	38.8	19.2	85 E	33	67*
12 17	23 26.19	−10 22.9	1.342	1.568	38.6	19.3	83 E	35	63*
12 22	23 37.63	− 8 46.9	1.382	1.572	38.2	19.3	81 E	36	60*
12 27	23 49.18	− 7 9.8	1.423	1.577	37.8	19.4	80 E	38	57*
1 1	0 0.82	− 5 32.1	1.465	1.582	37.4	19.4	78 E	39	54*
1 6	0 12.56	− 3 54.0	1.508	1.589	36.9	19.5	76 E	41	52*
1 11	0 24.37	− 2 16.0	1.552	1.597	36.4	19.6	74 E	43*	49*
1 16	0 36.24	− 0 38.6	1.597	1.606	35.8	19.6	73 E	44*	47*
1 21	0 48.18	+ 0 57.8	1.643	1.615	35.2	19.7	71 E	45*	44*
	97034 1999 UK_7								
12 27	17 1.18	−38 9.3	2.416	1.558	14.3	18.5	23 W	—	16*
1 1	17 19.21	−38 35.9	2.420	1.575	14.8	18.5	24 W	—	17*
1 6	17 37.14	−38 54.0	2.424	1.591	15.3	18.6	25 W	—	19*
1 11	17 54.89	−39 3.8	2.427	1.608	15.9	18.6	27 W	—	20*
1 16	18 12.38	−39 5.8	2.429	1.625	16.4	18.7	28 W	—	21*
1 21	18 29.56	−39 0.3	2.430	1.642	17.0	18.7	29 W	—	22*
1 26	18 46.35	−38 47.8	2.429	1.660	17.6	18.7	31 W	—	23*
2 5	19 18.64	−38 4.1	2.425	1.694	18.8	18.8	34 W	—	26*
2 15	19 49.01	−36 59.2	2.414	1.729	20.1	18.9	37 W	—	29*
2 25	20 17.29	−35 37.9	2.396	1.764	21.4	19.0	41 W	—	32*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	97034 1999 UK_7					*(continuation)*			
	h m	° ′			°	m	°	°	°
3 7	20 43.47	−34 4.3	2.370	1.799	22.7	19.0	44 W	—	36*
3 17	21 7.60	−32 22.4	2.335	1.834	24.0	19.1	48 W	—	40*
3 27	21 29.73	−30 35.6	2.292	1.867	25.2	19.1	53 W	—	44*
4 6	21 49.94	−28 46.7	2.240	1.901	26.4	19.1	58 W	—	49*
4 16	22 8.30	−26 58.4	2.179	1.933	27.4	19.1	63 W	1*	54*
4 26	22 24.83	−25 12.9	2.110	1.964	28.3	19.1	68 W	3*	60*
5 6	22 39.51	−23 31.8	2.033	1.995	29.0	19.1	73 W	6*	67*
5 16	22 52.28	−21 56.9	1.949	2.025	29.4	19.1	79 W	9*	73*
5 26	23 2.98	−20 29.8	1.859	2.053	29.5	19.0	86 W	12*	80*
6 5	23 11.44	−19 11.6	1.765	2.080	29.1	18.9	93 W	16*	83*
6 15	23 17.34	−18 3.7	1.669	2.106	28.3	18.8	101 W	20*	82
6 25	23 20.32	−17 6.8	1.574	2.131	26.8	18.6	109 W	25*	81
7 5	23 20.01	−16 21.2	1.482	2.155	24.6	18.5	118 W	28*	80
7 15	23 15.98	−15 46.6	1.398	2.178	21.6	18.3	128 W	29	80
7 25	23 8.02	−15 21.1	1.328	2.199	17.6	18.0	139 W	30	79
8 4	22 56.26	−15 1.2	1.275	2.218	12.8	17.8	151 W	30	79
8 9	22 49.14	−14 52.0	1.258	2.228	10.1	17.7	157 W	30	79
8 14	22 41.39	−14 42.3	1.246	2.237	7.3	17.6	164 W	30	79
8 19	22 33.21	−14 31.6	1.242	2.245	4.5	17.4	170 W	30	79
8 24	22 24.83	−14 19.3	1.245	2.254	2.0	17.3	175 W	31	78
8 29	22 16.47	−14 5.0	1.255	2.262	2.5	17.3	174 E	31	78
9 3	22 8.37	−13 48.7	1.272	2.270	5.1	17.5	169 E	31	78
9 8	22 0.76	−13 30.1	1.296	2.277	7.8	17.7	162 E	32	77
9 13	21 53.82	−13 9.4	1.328	2.284	10.3	17.9	156 E	32	77
9 23	21 42.47	−12 22.2	1.409	2.297	14.9	18.2	144 E	33	76
10 3	21 34.90	−11 28.8	1.511	2.308	18.6	18.5	133 E	34	75
10 13	21 31.14	−10 30.5	1.629	2.318	21.4	18.7	122 E	34	75
10 23	21 30.87	− 9 27.8	1.758	2.327	23.3	19.0	112 E	36	73
11 2	21 33.61	− 8 20.8	1.895	2.334	24.4	19.2	103 E	37	72
11 12	21 38.88	− 7 9.3	2.035	2.340	24.9	19.3	95 E	38	70*
11 22	21 46.24	− 5 52.6	2.175	2.344	24.9	19.5	87 E	39	63*
12 2	21 55.29	− 4 30.7	2.313	2.347	24.4	19.6	80 E	40	56*
12 12	22 5.73	− 3 3.1	2.446	2.349	23.6	19.7	73 E	42*	48*
12 22	22 17.30	− 1 29.8	2.573	2.349	22.5	19.8	66 E	43*	40*
1 1	22 29.78	+ 0 9.2	2.691	2.348	21.1	19.8	59 E	42*	33*
1 11	22 43.04	+ 1 53.8	2.799	2.345	19.6	19.9	53 E	41*	26*
1 21	22 56.94	+ 3 43.8	2.897	2.341	17.9	19.9	47 E	38*	20*
	39796 1997 TD								
12 27	17 1.27	−14 15.7	2.575	1.698	12.2	19.6	21 W	13*	7*
1 6	17 30.15	−14 46.2	2.483	1.637	14.3	19.6	24 W	15*	11*
1 16	18 0.46	−14 59.1	2.391	1.578	16.4	19.5	27 W	15*	15*
1 26	18 32.14	−14 52.2	2.301	1.520	18.4	19.4	29 W	15*	18*
2 5	19 5.11	−14 23.6	2.215	1.464	20.4	19.3	31 W	15*	21*
2 15	19 39.25	−13 32.2	2.135	1.410	22.3	19.2	33 W	15*	24*
2 25	20 14.35	−12 17.7	2.063	1.360	24.0	19.1	34 W	14*	26*
3 7	20 50.23	−10 41.0	2.000	1.315	25.6	19.0	35 W	14*	27*
3 17	21 26.66	− 8 44.3	1.947	1.276	27.0	18.9	36 W	13*	29*
3 27	22 3.41	− 6 31.1	1.904	1.243	28.1	18.8	36 W	12*	29*
4 6	22 40.27	− 4 5.9	1.872	1.219	29.1	18.8	36 W	11*	30*
4 11	22 58.68	− 2 50.6	1.860	1.210	29.4	18.7	36 W	10*	30*
4 16	23 17.03	− 1 34.3	1.851	1.203	29.8	18.7	37 W	10*	30*
4 21	23 35.31	− 0 17.9	1.843	1.199	30.0	18.7	37 W	10*	30*
4 26	23 53.50	+ 0 57.9	1.839	1.196	30.3	18.7	37 W	9*	30*
5 1	0 11.56	+ 2 12.5	1.836	1.197	30.5	18.7	37 W	9*	31*
5 6	0 29.49	+ 3 25.2	1.835	1.200	30.6	18.7	37 W	9*	31*
5 16	1 4.85	+ 5 42.4	1.838	1.212	30.9	18.8	38 W	9*	31*
5 26	1 39.39	+ 7 45.2	1.846	1.234	31.0	18.8	39 W	9*	32*
6 5	2 12.96	+ 9 30.7	1.857	1.264	31.2	18.9	40 W	10*	33*
6 15	2 45.40	+10 56.7	1.869	1.301	31.3	19.0	42 W	12*	34*
6 25	3 16.53	+12 2.2	1.880	1.344	31.5	19.1	44 W	14*	35*
7 5	3 46.24	+12 47.3	1.889	1.393	31.7	19.2	46 W	17*	36*
7 15	4 14.38	+13 12.8	1.894	1.445	32.0	19.2	49 W	21*	38*
7 25	4 40.83	+13 19.8	1.894	1.500	32.2	19.3	52 W	26*	39*
8 4	5 5.51	+13 10.0	1.888	1.558	32.5	19.4	56 W	30*	41*
8 14	5 28.28	+12 45.3	1.874	1.617	32.7	19.5	60 W	35*	43*
8 24	5 49.05	+12 7.6	1.852	1.677	32.8	19.5	64 W	40*	44*
9 3	6 7.72	+11 19.2	1.822	1.738	32.8	19.6	69 W	44*	47*
9 13	6 24.12	+10 22.0	1.784	1.799	32.6	19.6	74 W	48*	49*
9 23	6 38.10	+ 9 18.4	1.739	1.859	32.2	19.6	80 W	51*	51*
10 3	6 49.45	+ 8 10.8	1.688	1.919	31.4	19.6	87 W	53*	54*
10 13	6 57.90	+ 7 1.7	1.632	1.979	30.2	19.6	94 W	52	56*
10 23	7 3.18	+ 5 54.3	1.575	2.037	28.5	19.5	103 W	51	58*
11 2	7 5.01	+ 4 52.2	1.518	2.095	26.2	19.4	111 W	50	59
11 12	7 3.16	+ 3 59.4	1.467	2.151	23.2	19.3	121 W	49	60
11 22	6 57.65	+ 3 20.7	1.426	2.206	19.7	19.2	131 W	48	61
12 2	6 48.79	+ 3 0.6	1.402	2.261	15.6	19.1	142 W	48	61
12 12	6 37.35	+ 3 2.4	1.398	2.313	11.6	19.0	152 W	48	61
12 22	6 24.62	+ 3 27.3	1.419	2.365	8.5	18.9	159 W	48	61
1 1	6 12.04	+ 4 12.8	1.469	2.415	8.2	19.0	160 E	49	60

39796 1997 *TD* *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 6	6 6.26	+ 4 42.1	1.504	2.439	9.1	19.1	157 E	50	59
1 11	6 1.02	+ 5 14.6	1.546	2.464	10.4	19.3	153 E	50	59
1 16	5 56.43	+ 5 49.7	1.595	2.487	11.9	19.4	149 E	51	58
1 21	5 52.56	+ 6 26.5	1.649	2.511	13.4	19.6	144 E	51	58

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12 27	17 1.50	−40 46.0	2.976	2.120	11.1	20.4	24 W	—	17*
1 6	17 28.70	−40 27.9	2.893	2.071	12.7	20.3	28 W	—	21*
1 16	17 56.10	−39 52.2	2.800	2.020	14.5	20.3	31 W	—	24*
1 26	18 23.52	−38 57.5	2.697	1.967	16.5	20.2	35 W	—	28*
2 5	18 50.78	−37 42.2	2.587	1.913	18.6	20.1	38 W	—	31*
2 15	19 17.75	−36 5.1	2.470	1.858	20.9	20.0	42 W	—	35*
2 25	19 44.27	−34 4.6	2.346	1.802	23.2	19.9	46 W	—	39*
3 7	20 10.30	−31 39.0	2.218	1.744	25.6	19.8	49 W	2*	42*
3 12	20 23.12	−30 16.3	2.152	1.715	26.9	19.7	51 W	3*	44*
3 17	20 35.81	−28 46.4	2.086	1.686	28.1	19.7	53 W	4*	46*
3 22	20 48.37	−27 9.2	2.019	1.656	29.4	19.6	55 W	5*	48*
3 27	21 0.82	−25 24.2	1.953	1.627	30.7	19.5	56 W	6*	50*
4 1	21 13.17	−23 31.0	1.886	1.597	32.0	19.5	58 W	7*	51*
4 6	21 25.44	−21 29.1	1.820	1.567	33.3	19.4	59 W	9*	53*
4 11	21 37.66	−19 17.9	1.754	1.538	34.7	19.3	61 W	10*	55*
4 16	21 49.84	−16 57.1	1.690	1.508	36.0	19.2	62 W	12*	56*
4 21	22 2.02	−14 25.9	1.627	1.479	37.4	19.1	63 W	14*	57*
4 26	22 14.24	−11 43.8	1.565	1.450	38.7	19.0	64 W	16*	58*
5 1	22 26.55	− 8 50.3	1.506	1.422	40.1	18.9	65 W	18*	58*
5 6	22 39.01	− 5 44.9	1.449	1.394	41.5	18.8	66 W	20*	58*
5 16	23 4.61	+ 1 2.4	1.345	1.339	44.3	18.7	68 W	26*	56*
5 26	23 31.68	+ 8 36.8	1.257	1.288	46.9	18.5	68 W	32*	52*
6 5	0 1.09	+16 50.1	1.188	1.241	49.3	18.4	68 W	38*	45*
6 10	0 17.02	+21 6.0	1.162	1.219	50.4	18.3	68 W	41*	42*
6 15	0 33.98	+25 23.7	1.142	1.199	51.4	18.3	67 W	45*	38*
6 20	0 52.17	+29 39.2	1.127	1.181	52.2	18.2	67 W	47*	34*
6 25	1 11.78	+33 48.0	1.119	1.164	52.8	18.2	66 W	50*	30*
6 30	1 33.03	+37 45.2	1.116	1.150	53.3	18.2	65 W	52*	26*
7 5	1 56.07	+41 26.0	1.118	1.137	53.6	18.2	64 W	54*	22*
7 10	2 21.02	+44 45.7	1.124	1.127	53.7	18.2	63 W	55*	18*
7 15	2 47.86	+47 40.2	1.135	1.120	53.6	18.2	62 W	55*	15*
7 20	3 16.45	+50 5.9	1.148	1.115	53.3	18.2	62 W	55*	13*
7 25	3 46.45	+52 0.5	1.164	1.112	52.9	18.2	61 W	55*	10*
7 27	3 58.73	+52 37.4	1.171	1.112	52.7	18.2	61 W	55*	9*
7 29	4 11.10	+53 9.2	1.179	1.112	52.5	18.2	60 W	54*	9*
7 31	4 23.53	+53 35.9	1.186	1.113	52.3	18.2	60 W	54*	8*
8 2	4 35.96	+53 57.6	1.194	1.114	52.0	18.2	60 W	54*	7*
8 4	4 48.35	+54 14.4	1.201	1.115	51.8	18.2	60 W	54*	7*
8 6	5 0.65	+54 26.4	1.209	1.117	51.5	18.3	60 W	53*	6*
8 8	5 12.81	+54 33.8	1.216	1.119	51.3	18.3	59 W	53*	6*
8 10	5 24.79	+54 36.9	1.224	1.122	51.0	18.3	59 W	53*	5*
8 12	5 36.55	+54 35.8	1.232	1.125	50.7	18.3	59 W	53*	5*
8 14	5 48.06	+54 30.8	1.239	1.128	50.4	18.3	59 W	53*	5*
8 19	6 15.55	+54 2.8	1.257	1.138	49.7	18.3	59 W	52*	4*
8 24	6 40.99	+53 15.9	1.273	1.151	49.0	18.4	59 W	52*	4*
8 29	7 4.27	+52 13.9	1.288	1.165	48.3	18.4	60 W	53*	4*
9 3	7 25.40	+51 0.3	1.300	1.182	47.7	18.4	60 W	53*	4*
9 8	7 44.47	+49 38.1	1.309	1.200	47.1	18.5	61 W	54*	5*
9 13	8 1.63	+48 9.6	1.316	1.221	46.5	18.5	62 W	55*	6*
9 18	8 17.05	+46 36.9	1.320	1.242	46.1	18.5	63 W	56*	7*
9 23	8 30.89	+45 1.2	1.321	1.265	45.6	18.6	64 W	58*	8*
9 28	8 43.30	+43 24.0	1.318	1.290	45.2	18.6	66 W	59*	10*
10 3	8 54.40	+41 46.0	1.312	1.315	44.8	18.6	68 W	62*	11*
10 8	9 4.29	+40 7.9	1.303	1.341	44.4	18.6	70 W	64*	13*
10 13	9 13.04	+38 30.4	1.291	1.368	44.0	18.6	72 W	66*	15*
10 23	9 27.33	+35 17.8	1.258	1.424	43.0	18.6	77 W	71*	19*
11 2	9 37.50	+32 9.7	1.213	1.481	41.7	18.6	84 W	75*	24*
11 12	9 43.40	+29 6.6	1.160	1.540	40.0	18.5	91 W	74	30*
11 22	9 44.70	+26 7.4	1.102	1.599	37.5	18.4	100 W	71	36*
12 2	9 40.91	+23 10.5	1.042	1.658	34.1	18.3	110 W	68	40*
12 12	9 31.48	+20 13.9	0.988	1.717	29.4	18.1	121 W	65	44
12 22	9 16.31	+17 15.9	0.946	1.775	23.6	17.9	134 W	62	47
12 27	9 6.75	+15 46.8	0.932	1.804	20.2	17.8	141 W	61	48
1 1	8 56.11	+14 18.5	0.924	1.832	16.7	17.7	148 W	59	50
1 6	8 44.67	+12 51.9	0.923	1.860	13.0	17.6	155 W	58	51
1 11	8 32.80	+11 28.4	0.930	1.888	9.6	17.6	161 W	56	53
1 16	8 20.91	+10 9.6	0.945	1.915	6.7	17.5	167 W	55	54
1 21	8 9.38	+ 8 56.8	0.968	1.943	5.6	17.5	169 E	54	55

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 27	17 2.27	−19 22.4	2.805	1.905	9.8	19.3	19 W	9*	9*
1 6	17 28.22	−20 11.9	2.735	1.872	12.0	19.3	23 W	10*	14*
1 16	17 54.90	−20 46.7	2.661	1.840	14.1	19.3	27 W	11*	18*
1 26	18 22.20	−21 5.7	2.583	1.810	16.2	19.2	31 W	11*	23*
2 5	18 50.00	−21 8.2	2.503	1.781	18.3	19.2	34 W	12*	27*
2 15	19 18.17	−20 53.9	2.422	1.753	20.3	19.1	38 W	12*	31*
2 25	19 46.55	−20 22.9	2.340	1.727	22.3	19.1	41 W	11*	35*
3 7	20 15.02	−19 35.8	2.258	1.704	24.2	19.1	45 W	11*	39*
3 17	20 43.43	−18 33.6	2.177	1.683	26.1	19.0	48 W	11*	42*
3 27	21 11.66	−17 18.0	2.098	1.664	27.8	19.0	51 W	11*	45*
4 6	21 39.61	−15 50.7	2.020	1.648	29.5	18.9	54 W	11*	48*
4 16	22 7.19	−14 14.2	1.945	1.636	31.0	18.8	57 W	12*	51*
4 26	22 34.31	−12 31.0	1.871	1.626	32.5	18.8	60 W	12*	54*
5 6	23 0.91	−10 43.9	1.801	1.619	33.8	18.7	63 W	13*	57*
5 16	23 26.93	− 8 55.9	1.732	1.616	34.9	18.7	66 W	14*	60*
5 26	23 52.26	− 7 9.9	1.665	1.617	35.9	18.6	69 W	16*	62*
6 5	0 16.85	− 5 28.9	1.600	1.620	36.7	18.6	73 W	19*	64*
6 15	0 40.56	− 3 55.7	1.536	1.627	37.3	18.5	76 W	22*	65*
6 25	1 3.22	− 2 32.8	1.474	1.637	37.7	18.4	80 W	26*	66*
7 5	1 24.67	− 1 22.5	1.412	1.651	37.8	18.4	84 W	30*	65*
7 15	1 44.65	− 0 26.9	1.350	1.667	37.6	18.3	88 W	35*	64
7 25	2 2.86	+ 0 12.5	1.289	1.686	37.0	18.2	93 W	39*	64
8 4	2 18.97	+ 0 34.8	1.229	1.708	36.0	18.1	99 W	43*	63
8 14	2 32.51	+ 0 39.1	1.170	1.731	34.5	18.0	105 W	45*	63
8 24	2 43.03	+ 0 26.0	1.114	1.757	32.4	17.8	112 W	45	64
9 3	2 50.06	− 0 3.5	1.061	1.785	29.6	17.7	119 W	45	64
9 13	2 53.11	− 0 46.5	1.016	1.815	26.1	17.5	128 W	44	65
9 18	2 53.06	− 1 11.6	0.997	1.830	24.0	17.4	132 W	44	65
9 23	2 51.96	− 1 38.0	0.981	1.845	21.8	17.3	137 W	43	66
9 28	2 49.83	− 2 4.7	0.968	1.861	19.5	17.3	142 W	43	66
10 3	2 46.73	− 2 30.8	0.959	1.878	17.0	17.2	147 W	42	67
10 8	2 42.77	− 2 54.8	0.955	1.894	14.6	17.1	151 W	42	67
10 13	2 38.10	− 3 15.5	0.955	1.911	12.3	17.0	156 W	42	67
10 18	2 32.91	− 3 31.7	0.961	1.927	10.3	17.0	160 W	41	68
10 23	2 27.42	− 3 42.5	0.973	1.944	8.9	17.0	162 W	41	68
11 2	2 16.39	− 3 44.9	1.013	1.979	9.2	17.1	161 E	41	68
11 12	2 6.71	− 3 20.3	1.076	2.014	12.4	17.4	154 E	42	67
11 22	1 59.62	− 2 30.5	1.161	2.049	16.1	17.8	145 E	42	67
11 27	1 57.24	− 1 57.7	1.211	2.066	17.9	17.9	140 E	43	66
12 2	1 55.69	− 1 20.5	1.265	2.084	19.4	18.1	135 E	44	65
12 7	1 54.96	− 0 39.5	1.323	2.102	20.8	18.2	131 E	44	65
12 12	1 55.03	+ 0 4.6	1.384	2.120	22.0	18.4	126 E	45	64
12 22	1 57.42	+ 1 39.8	1.517	2.155	23.9	18.7	117 E	47	62
1 1	2 2.45	+ 3 21.0	1.660	2.190	25.1	19.0	109 E	48	61*
1 11	2 9.76	+ 5 5.5	1.810	2.225	25.7	19.2	101 E	50	58*
1 21	2 18.96	+ 6 50.8	1.964	2.260	25.7	19.4	94 E	52	54*

310464 2000 *SF*

12 27	17 2.39	−39 48.0	3.715	2.843	8.0	20.8	24 W	—	17*
1 6	17 22.90	−40 17.8	3.648	2.821	9.5	20.8	28 W	—	22*
1 16	17 43.55	−40 41.7	3.567	2.799	11.2	20.8	33 W	—	27*
1 26	18 4.19	−40 59.9	3.474	2.775	12.8	20.8	39 W	—	32*
2 5	18 24.70	−41 12.4	3.369	2.751	14.5	20.8	44 W	—	37*
2 15	18 44.96	−41 19.8	3.254	2.726	16.1	20.7	50 W	—	42*
2 25	19 4.80	−41 22.7	3.130	2.699	17.6	20.7	56 W	—	47*
3 7	19 24.08	−41 22.3	2.997	2.672	19.1	20.6	62 W	—	52*
3 17	19 42.66	−41 19.6	2.858	2.644	20.4	20.5	68 W	—	56*
3 27	20 0.36	−41 16.2	2.714	2.615	21.5	20.4	74 W	—	61*
4 6	20 17.02	−41 13.6	2.566	2.586	22.4	20.3	80 W	—	66*
4 16	20 32.43	−41 13.7	2.416	2.555	23.1	20.1	86 W	—	70*
4 26	20 46.36	−41 18.4	2.266	2.524	23.5	20.0	93 W	—	73*
5 6	20 58.53	−41 29.4	2.117	2.492	23.5	19.8	100 W	—	75*
5 11	21 3.84	−41 38.0	2.043	2.475	23.4	19.7	103 W	—	74
5 16	21 8.57	−41 48.8	1.971	2.459	23.2	19.6	107 W	—	74
5 21	21 12.65	−42 1.9	1.900	2.442	22.9	19.5	110 W	1*	74
5 26	21 16.04	−42 17.4	1.831	2.425	22.4	19.4	114 W	1*	74
5 31	21 18.65	−42 35.4	1.763	2.408	21.9	19.3	118 W	1*	73
6 5	21 20.42	−42 55.6	1.698	2.391	21.2	19.2	122 W	1*	73
6 10	21 21.25	−43 17.9	1.636	2.374	20.4	19.1	125 W	1*	73
6 15	21 21.07	−43 41.7	1.577	2.356	19.5	18.9	129 W	1*	72
6 20	21 19.81	−44 6.5	1.521	2.339	18.4	18.8	133 W	1	72
6 25	21 17.41	−44 31.1	1.469	2.321	17.3	18.7	137 W	—	71
6 30	21 13.84	−44 54.5	1.421	2.303	16.0	18.5	141 W	—	71
7 5	21 9.06	−45 15.4	1.377	2.285	14.8	18.4	145 W	—	71
7 10	21 3.13	−45 31.9	1.338	2.267	13.7	18.3	148 W	—	70
7 15	20 56.13	−45 42.4	1.305	2.249	12.7	18.2	151 W	—	70
7 20	20 48.25	−45 45.0	1.277	2.230	12.0	18.1	153 W	—	70
7 25	20 39.73	−45 38.3	1.255	2.212	11.8	18.0	154 W	—	70
7 30	20 30.84	−45 21.0	1.239	2.193	12.0	18.0	153 E	—	71

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
310464 2000 *SF* *(continuation)*									
8 4	20 21.92	−44 52.7	1.228	2.175	12.9	18.0	152 E	—	71
8 9	20 13.29	−44 13.2	1.224	2.156	14.1	18.0	149 E	1	72
8 14	20 5.28	−43 23.1	1.225	2.138	15.6	18.0	145 E	2	73
8 19	19 58.17	−42 23.7	1.231	2.119	17.3	18.1	141 E	3	74
8 24	19 52.13	−41 16.4	1.243	2.100	19.1	18.2	137 E	4	75
8 29	19 47.27	−40 2.9	1.259	2.082	20.9	18.2	133 E	5	76
9 3	19 43.67	−38 44.7	1.279	2.063	22.6	18.3	128 E	6	77
9 8	19 41.33	−37 23.4	1.304	2.044	24.1	18.4	124 E	8	79
9 13	19 40.22	−36 0.2	1.331	2.026	25.6	18.4	120 E	9	80
9 18	19 40.29	−34 36.0	1.361	2.007	26.9	18.5	115 E	10	81
9 23	19 41.44	−33 11.6	1.393	1.989	28.1	18.6	111 E	12	83
9 28	19 43.59	−31 47.5	1.428	1.971	29.1	18.6	107 E	13	84
10 3	19 46.65	−30 23.9	1.464	1.952	29.9	18.7	103 E	15	86
10 8	19 50.54	−29 0.8	1.500	1.934	30.6	18.7	99 E	16	87
10 13	19 55.19	−27 38.4	1.538	1.917	31.2	18.8	96 E	17	88
10 23	20 6.44	−24 54.8	1.615	1.882	31.9	18.9	89 E	20	82*
11 2	20 19.85	−22 11.6	1.691	1.847	32.2	18.9	83 E	23	75*
11 12	20 35.03	−19 26.9	1.766	1.815	32.1	19.0	77 E	26	67*
11 22	20 51.62	−16 39.1	1.838	1.783	31.6	19.0	71 E	28*	59*
12 2	21 9.37	−13 46.8	1.907	1.753	30.9	19.0	66 E	31*	51*
12 12	21 28.10	−10 48.7	1.971	1.726	30.0	19.1	61 E	33*	44*
12 22	21 47.65	− 7 44.4	2.030	1.700	28.9	19.1	57 E	35*	37*
1 1	22 7.94	− 4 33.6	2.085	1.677	27.7	19.1	52 E	36*	30*
1 11	22 28.94	− 1 16.4	2.135	1.656	26.4	19.0	49 E	36*	24*
1 21	22 50.62	+ 2 6.2	2.181	1.639	25.1	19.0	45 E	36*	19*
306514 1999 VX_{178}									
12 27	17 3.14	−11 12.7	2.922	2.049	10.6	20.5	23 W	16*	5*
1 6	17 27.44	−10 53.9	2.827	1.997	12.7	20.4	27 W	18*	10*
1 16	17 52.49	−10 18.8	2.729	1.946	14.8	20.4	30 W	20*	15*
1 26	18 18.19	− 9 26.2	2.630	1.896	16.9	20.3	34 W	22*	19*
2 5	18 44.47	− 8 15.4	2.532	1.848	18.9	20.2	37 W	23*	24*
2 15	19 11.23	− 6 46.2	2.437	1.803	20.8	20.1	40 W	24*	28*
2 25	19 38.37	− 4 59.2	2.344	1.761	22.7	20.1	43 W	25*	31*
3 7	20 5.78	− 2 55.6	2.257	1.721	24.5	20.0	46 W	26*	34*
3 17	20 33.39	− 0 37.6	2.175	1.686	26.1	19.9	48 W	27*	36*
3 27	21 1.09	+ 1 52.1	2.100	1.654	27.7	19.8	50 W	28*	38*
4 6	21 28.84	+ 4 29.7	2.031	1.627	29.2	19.8	52 W	29*	40*
4 16	21 56.56	+ 7 11.5	1.968	1.605	30.5	19.7	54 W	30*	41*
4 26	22 24.19	+ 9 52.8	1.911	1.589	31.7	19.7	56 W	31*	42*
5 1	22 37.95	+11 12.0	1.884	1.582	32.3	19.6	57 W	32*	42*
5 6	22 51.67	+12 29.5	1.859	1.577	32.9	19.6	58 W	32*	42*
5 11	23 5.33	+13 44.8	1.834	1.574	33.4	19.6	59 W	33*	43*
5 16	23 18.92	+14 57.4	1.810	1.572	33.9	19.6	60 W	34*	43*
5 21	23 32.43	+16 6.7	1.786	1.572	34.3	19.6	61 W	34*	43*
5 26	23 45.84	+17 12.4	1.763	1.573	34.8	19.6	62 W	35*	43*
5 31	23 59.14	+18 14.1	1.741	1.575	35.2	19.5	63 W	37*	42*
6 5	0 12.31	+19 11.3	1.718	1.580	35.5	19.5	65 W	38*	42*
6 10	0 25.32	+20 3.9	1.695	1.585	35.9	19.5	66 W	39*	42*
6 15	0 38.15	+20 51.4	1.672	1.592	36.2	19.5	68 W	41*	42*
6 25	1 3.14	+22 10.1	1.625	1.610	36.6	19.5	71 W	44*	41*
7 5	1 27.04	+23 5.7	1.577	1.633	36.9	19.4	75 W	49*	41*
7 15	1 49.52	+23 36.8	1.525	1.661	36.9	19.4	79 W	53*	40
7 25	2 10.22	+23 42.1	1.471	1.694	36.6	19.4	84 W	58*	40
8 4	2 28.76	+23 20.8	1.415	1.730	35.9	19.3	89 W	62*	41
8 14	2 44.71	+22 31.7	1.358	1.770	34.7	19.2	95 W	66*	41
8 24	2 57.61	+21 13.9	1.300	1.813	33.0	19.1	103 W	66*	43
9 3	3 7.07	+19 26.9	1.246	1.859	30.5	19.0	111 W	64	45
9 13	3 12.70	+17 10.5	1.196	1.907	27.3	18.9	120 W	62	47
9 23	3 14.35	+14 26.8	1.157	1.957	23.2	18.8	130 W	59	50
9 28	3 13.70	+12 56.3	1.143	1.983	20.9	18.7	135 W	58	51
10 3	3 12.12	+11 21.2	1.133	2.009	18.5	18.6	141 W	56	53
10 8	3 9.69	+ 9 43.0	1.127	2.035	15.9	18.6	146 W	55	54
10 13	3 6.53	+ 8 3.5	1.128	2.062	13.3	18.5	152 W	53	56
10 18	3 2.79	+ 6 24.8	1.134	2.088	10.7	18.4	157 W	51	58
10 23	2 58.62	+ 4 48.9	1.147	2.115	8.5	18.4	162 W	50	59
10 28	2 54.21	+ 3 17.8	1.167	2.142	6.8	18.4	165 W	48	61
11 2	2 49.73	+ 1 53.4	1.193	2.170	6.3	18.4	166 W	47	62
11 7	2 45.35	+ 0 37.3	1.226	2.197	7.0	18.6	164 E	46	63
11 12	2 41.24	− 0 29.5	1.266	2.225	8.4	18.7	161 E	45	64
11 22	2 34.36	− 2 12.7	1.365	2.280	12.1	19.1	151 E	43	66
12 2	2 29.78	− 3 16.4	1.486	2.336	15.4	19.5	141 E	42	67
12 12	2 27.81	− 3 45.0	1.627	2.391	18.1	19.8	131 E	41	68
12 17	2 27.80	− 3 48.1	1.703	2.419	19.1	19.9	126 E	41	68
12 22	2 28.42	− 3 45.0	1.782	2.447	20.0	20.1	122 E	41	68
12 27	2 29.62	− 3 36.5	1.864	2.474	20.7	20.2	117 E	41	68
1 1	2 31.37	− 3 23.3	1.949	2.502	21.2	20.4	113 E	42	67
1 6	2 33.64	− 3 6.2	2.036	2.530	21.6	20.5	109 E	42	67

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
306514 1999 VX_{178} *(continuation)*									
1 11	2 36.40	− 2 45.8	2.125	2.557	21.8	20.6	105 E	42	67*
1 16	2 39.59	− 2 22.6	2.214	2.584	22.0	20.7	101 E	43	66*
1 21	2 43.19	− 1 57.4	2.305	2.612	22.0	20.9	97 E	43	64*
162433 2000 FK_{10}									
12 27	17 3.24	−24 20.7	1.684	0.812	22.4	21.1	18 W	5*	11*
1 1	17 32.37	−25 38.5	1.668	0.781	21.4	20.9	17 W	3*	10*
1 6	18 2.86	−26 34.1	1.657	0.754	20.1	20.8	15 W	1*	9*
1 11	18 34.42	−27 4.0	1.651	0.732	18.3	20.7	14 W	—	7*
1 16	19 6.64	−27 5.2	1.650	0.716	16.3	20.5	12 W	—	6*
1 21	19 38.99	−26 36.2	1.654	0.707	14.2	20.4	10 W	—	4*
1 26	20 10.96	−25 37.5	1.663	0.705	12.0	20.4	9 W	—	2*
1 31	20 42.07	−24 11.2	1.676	0.709	10.1	20.3	7 W	—	—
2 5	21 11.95	−22 20.8	1.693	0.721	8.7	20.3	6 W	—	—
2 10	21 40.36	−20 10.9	1.714	0.739	7.9	20.4	6 E	—	—
2 15	22 7.19	−17 46.3	1.738	0.763	7.7	20.5	6 E	—	—
2 20	22 32.44	−15 12.0	1.766	0.791	7.9	20.6	6 E	—	—
2 25	22 56.17	−12 31.9	1.798	0.823	8.1	20.7	7 E	—	1*
3 2	23 18.50	− 9 49.8	1.832	0.858	8.4	20.9	7 E	—	1*
3 7	23 39.57	− 7 8.5	1.869	0.895	8.5	21.0	8 E	—	1*
3 12	23 59.53	− 4 30.0	1.908	0.934	8.4	21.1	8 E	—	1*
3 17	0 18.50	− 1 56.1	1.949	0.974	8.2	21.3	8 E	—	1*
3 22	0 36.62	+ 0 32.1	1.991	1.014	7.8	21.4	8 E	—	1*
3 27	0 53.99	+ 2 53.9	2.034	1.054	7.3	21.5	8 E	—	1*
137170 1999 HF_1									
12 27	17 3.38	− 8 2.9	2.008	1.186	20.2	17.5	25 W	18*	4*
1 6	17 36.07	− 8 26.2	1.965	1.166	21.8	17.5	26 W	19*	7*
1 16	18 9.87	− 8 34.4	1.916	1.136	23.5	17.4	27 W	19*	10*
1 26	18 45.05	− 8 26.8	1.860	1.096	25.1	17.3	28 W	19*	13*
2 5	19 21.98	− 8 2.9	1.800	1.046	26.8	17.2	29 W	18*	15*
2 15	20 1.14	− 7 22.3	1.738	0.986	28.3	17.0	28 W	17*	17*
2 25	20 43.07	− 6 24.5	1.676	0.915	29.6	16.8	27 W	15*	17*
3 7	21 28.50	− 5 9.1	1.617	0.834	30.4	16.6	25 W	12*	17*
3 17	22 18.34	− 3 35.0	1.563	0.743	30.3	16.2	22 W	8*	15*
3 27	23 13.61	− 1 39.9	1.518	0.645	28.2	15.8	18 W	3*	11*
4 1	23 43.63	− 0 32.9	1.499	0.596	26.1	15.5	15 W	1*	9*
4 6	0 15.41	+ 0 41.8	1.482	0.548	23.0	15.2	12 W	—	6*
4 11	0 49.02	+ 2 6.1	1.467	0.505	18.9	14.9	9 W	—	3*
4 16	1 24.39	+ 3 42.0	1.450	0.470	15.0	14.6	7 W	—	—
4 21	2 1.26	+ 5 31.4	1.431	0.447	14.6	14.5	6 E	—	—
4 26	2 39.08	+ 7 34.9	1.409	0.440	19.9	14.6	9 E	—	2*
5 1	3 17.17	+ 9 50.0	1.384	0.451	27.8	14.8	12 E	—	6*
5 6	3 54.88	+12 11.2	1.360	0.477	35.3	15.1	16 E	1*	10*
5 11	4 31.81	+14 31.4	1.338	0.514	41.3	15.4	20 E	5*	13*
5 16	5 7.78	+16 43.2	1.322	0.559	45.4	15.7	23 E	8*	15*
5 21	5 42.67	+18 40.7	1.314	0.607	47.8	15.9	26 E	11*	17*
5 26	6 16.39	+20 19.8	1.314	0.656	49.1	16.1	29 E	13*	19*
5 31	6 48.84	+21 38.3	1.321	0.706	49.4	16.3	32 E	15*	21*
6 5	7 19.90	+22 35.6	1.334	0.754	49.0	16.4	34 E	17*	22*
6 15	8 17.54	+23 29.9	1.377	0.843	47.3	16.7	38 E	20*	25*
6 25	9 9.03	+23 16.6	1.435	0.923	44.9	16.9	40 E	21*	26*
7 5	9 54.74	+22 13.2	1.501	0.993	42.3	17.1	41 E	22*	28*
7 10	10 15.68	+21 27.6	1.535	1.024	41.0	17.2	41 E	22*	28*
7 15	10 35.50	+20 34.8	1.570	1.052	39.8	17.3	42 E	22*	28*
7 20	10 54.32	+19 36.4	1.604	1.078	38.6	17.3	41 E	22*	29*
7 25	11 12.23	+18 33.3	1.637	1.101	37.5	17.4	41 E	22*	29*
7 30	11 29.37	+17 26.3	1.669	1.122	36.4	17.4	41 E	22*	29*
8 4	11 45.84	+16 16.4	1.700	1.140	35.4	17.5	41 E	22*	29*
8 9	12 1.73	+15 3.9	1.729	1.155	34.4	17.5	40 E	22*	28*
8 14	12 17.13	+13 49.5	1.757	1.168	33.4	17.6	39 E	21*	28*
8 24	12 46.77	+11 16.3	1.806	1.187	31.7	17.6	38 E	21*	27*
9 3	13 15.33	+ 8 39.4	1.846	1.197	30.1	17.6	37 E	21*	25*
9 13	13 43.29	+ 6 0.4	1.876	1.197	28.7	17.6	35 E	20*	24*
9 23	14 11.07	+ 3 20.7	1.895	1.187	27.4	17.6	33 E	19*	22*
10 3	14 39.06	+ 0 41.4	1.903	1.168	26.3	17.5	31 E	19*	20*
10 13	15 7.65	− 1 56.7	1.899	1.139	25.4	17.4	29 E	18*	17*
10 23	15 37.18	− 4 32.8	1.883	1.100	24.6	17.3	27 E	17*	15*
11 2	16 8.08	− 7 6.1	1.854	1.050	24.1	17.2	26 E	16*	13*
11 12	16 40.78	− 9 35.8	1.812	0.991	23.8	17.0	24 E	15*	10*
11 22	17 15.78	−12 1.1	1.757	0.921	23.9	16.8	22 E	14*	9*
12 2	17 53.70	−14 21.2	1.686	0.840	24.6	16.5	21 E	12*	8*
12 12	18 35.27	−16 34.7	1.599	0.750	26.3	16.2	20 E	11*	7*
12 17	18 57.67	−17 38.7	1.549	0.702	27.9	16.0	19 E	10*	8*
12 22	19 21.27	−18 40.4	1.492	0.653	30.2	15.8	19 E	10*	9*
12 27	19 46.15	−19 39.7	1.429	0.604	33.5	15.7	20 E	9*	10*
1 1	20 12.31	−20 36.0	1.357	0.556	38.3	15.5	21 E	9*	11*
1 6	20 39.61	−21 28.8	1.276	0.512	45.0	15.4	22 E	8*	13*
1 11	21 7.65	−22 17.0	1.185	0.475	54.0	15.3	23 E	8*	15*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
137170 1999 HF_1 *(continuation)*									
1 13	21 18.92	−22 34.6	1.145	0.463	58.2	15.3	24 E	8*	16*
1 15	21 30.11	−22 51.1	1.104	0.454	62.9	15.3	24 E	8*	16*
1 17	21 41.15	−23 6.1	1.061	0.447	67.8	15.4	25 E	8*	17*
1 19	21 51.95	−23 19.5	1.017	0.442	73.1	15.4	25 E	8*	18*
1 21	22 2.43	−23 30.8	0.972	0.440	78.5	15.5	26 E	8*	19*
138402 2000 HN_{14}									
12 27	17 3.85	−18 19.0	3.050	2.146	8.7	21.1	19 W	10*	8*
1 6	17 25.32	−18 46.5	3.001	2.142	10.8	21.1	24 W	12*	14*
1 16	17 46.77	−19 2.7	2.942	2.138	13.0	21.2	29 W	14*	19*
1 26	18 8.11	−19 7.6	2.872	2.132	15.1	21.2	34 W	15*	25*
2 5	18 29.24	−19 1.5	2.793	2.125	17.1	21.2	39 W	16*	31*
2 15	18 50.07	−18 45.1	2.706	2.118	19.1	21.2	45 W	17*	37*
2 25	19 10.50	−18 19.0	2.610	2.109	21.0	21.1	50 W	17*	43*
3 7	19 30.45	−17 44.2	2.507	2.100	22.7	21.1	55 W	18*	48*
3 17	19 49.83	−17 2.0	2.398	2.090	24.4	21.0	60 W	19*	53*
3 27	20 8.54	−16 13.7	2.283	2.079	25.9	21.0	66 W	20*	59*
4 6	20 26.51	−15 20.9	2.164	2.067	27.2	20.9	71 W	21*	64*
4 16	20 43.64	−14 25.3	2.041	2.054	28.4	20.8	77 W	22*	69*
4 26	20 59.81	−13 29.0	1.916	2.040	29.3	20.6	82 W	24*	73*
5 6	21 14.90	−12 34.2	1.790	2.026	29.9	20.5	88 W	25*	76*
5 16	21 28.75	−11 43.6	1.664	2.011	30.1	20.3	94 W	27*	76
5 26	21 41.13	−11 0.2	1.539	1.995	29.9	20.1	101 W	29*	75
6 5	21 51.82	−10 27.4	1.417	1.978	29.2	19.9	108 W	32*	74
6 15	22 0.45	−10 9.3	1.300	1.961	28.0	19.7	115 W	34*	74
6 25	22 6.65	−10 10.1	1.190	1.944	25.9	19.4	123 W	35*	74
7 5	22 10.01	−10 34.3	1.089	1.925	23.0	19.1	132 W	34	75
7 15	22 10.06	−11 25.5	1.000	1.907	19.1	18.8	142 W	34	75
7 25	22 6.59	−12 45.1	0.926	1.888	14.2	18.4	153 W	32	77
7 30	22 3.56	−13 34.7	0.896	1.878	11.4	18.2	159 W	31	78
8 4	21 59.73	−14 29.7	0.871	1.869	8.4	18.0	164 W	31	78
8 9	21 55.21	−15 28.8	0.852	1.859	5.2	17.8	170 W	30	79
8 14	21 50.18	−16 30.2	0.838	1.849	2.4	17.6	176 W	28	81
8 19	21 44.85	−17 31.8	0.829	1.839	2.8	17.6	175 E	27	82
8 24	21 39.45	−18 31.6	0.826	1.830	5.8	17.8	169 E	26	83
8 29	21 34.23	−19 27.8	0.829	1.820	9.2	17.9	163 E	26	83
9 3	21 29.42	−20 18.8	0.837	1.810	12.5	18.0	157 E	25	84
9 8	21 25.25	−21 3.2	0.850	1.800	15.6	18.2	151 E	24	85
9 13	21 21.93	−21 40.3	0.868	1.791	18.5	18.3	146 E	23	86
9 18	21 19.58	−22 9.6	0.890	1.781	21.3	18.4	140 E	23	86
9 23	21 18.28	−22 31.2	0.915	1.771	23.7	18.6	135 E	22	87
10 3	21 18.94	−22 51.8	0.974	1.752	27.9	18.8	125 E	22	87
10 13	21 23.85	−22 44.7	1.041	1.733	31.0	19.0	116 E	22	87
10 23	21 32.56	−22 12.8	1.115	1.715	33.3	19.2	109 E	23	86
10 28	21 38.15	−21 48.4	1.153	1.706	34.2	19.3	105 E	23	86
11 2	21 44.46	−21 18.9	1.191	1.697	34.9	19.4	102 E	24	85
11 7	21 51.44	−20 44.4	1.230	1.689	35.5	19.4	98 E	24	85
11 12	21 59.00	−20 5.1	1.269	1.681	35.9	19.5	95 E	25	83*
11 22	22 15.62	−18 33.2	1.348	1.664	36.4	19.6	90 E	26	77*
12 2	22 33.87	−16 45.0	1.426	1.649	36.5	19.7	84 E	28	71*
12 12	22 53.43	−14 42.1	1.503	1.636	36.3	19.8	79 E	30	64*
12 22	23 14.01	−12 26.5	1.578	1.623	35.8	19.9	75 E	33	58*
1 1	23 35.41	−10 0.0	1.651	1.612	35.1	20.0	70 E	35*	52*
1 11	23 57.51	− 7 24.7	1.722	1.602	34.2	20.0	66 E	37*	46*
1 21	0 20.22	− 4 43.0	1.791	1.594	33.2	20.1	62 E	38*	42*
331785 Sumners									
12 27	17 4.22	−19 47.4	3.125	2.217	8.2	21.2	19 W	8*	9*
1 6	17 24.43	−19 12.8	3.127	2.267	10.3	21.3	24 W	12*	14*
1 16	17 43.68	−18 27.6	3.116	2.317	12.3	21.4	30 W	14*	20*
1 26	18 1.86	−17 32.0	3.092	2.367	14.1	21.5	36 W	17*	26*
2 5	18 18.90	−16 27.0	3.057	2.416	15.8	21.6	42 W	19*	33*
3753 Cruithne									
12 27	17 4.28	−14 53.4	1.342	0.544	39.3	16.5	21 W	12*	7*
1 1	17 32.64	−15 31.7	1.424	0.586	32.6	16.6	19 W	11*	6*
1 6	17 59.48	−16 3.2	1.501	0.634	27.5	16.7	17 W	9*	5*
1 11	18 24.81	−16 26.2	1.571	0.684	23.6	16.9	16 W	8*	5*
1 16	18 48.69	−16 40.4	1.636	0.736	20.7	17.0	15 W	7*	5*
1 21	19 11.21	−16 46.1	1.697	0.787	18.7	17.2	15 W	6*	5*
1 26	19 32.50	−16 44.0	1.753	0.838	17.2	17.3	15 W	5*	6*
1 31	19 52.65	−16 35.0	1.804	0.887	16.3	17.5	15 W	5*	7*
2 5	20 11.78	−16 19.9	1.852	0.935	15.8	17.7	15 W	4*	8*
2 10	20 29.98	−15 59.5	1.895	0.981	15.7	17.8	16 W	3*	9*
2 15	20 47.35	−15 34.6	1.934	1.025	15.7	17.9	16 W	3*	10*
2 20	21 3.96	−15 5.9	1.969	1.067	16.0	18.1	17 W	3*	11*
2 25	21 19.89	−14 34.0	2.000	1.107	16.5	18.2	18 W	2*	12*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3753 Cruithne *(continuation)*									
3 7	21 49.98	−13 22.9	2.050	1.181	17.7	18.4	21 W	2*	15*
3 17	22 18.11	−12 4.9	2.084	1.247	19.2	18.6	24 W	2*	18*
3 27	22 44.65	−10 43.1	2.102	1.305	20.9	18.8	28 W	2*	22*
4 6	23 9.95	− 9 19.6	2.105	1.356	22.6	19.0	31 W	2*	25*
4 16	23 34.27	− 7 56.6	2.093	1.399	24.5	19.1	35 W	2*	29*
4 26	23 57.85	− 6 35.9	2.066	1.435	26.3	19.2	39 W	3*	33*
5 6	0 20.89	− 5 18.7	2.026	1.464	28.1	19.2	43 W	4*	37*
5 16	0 43.58	− 4 6.7	1.974	1.486	30.0	19.2	47 W	5*	41*
5 26	1 6.07	− 3 1.2	1.910	1.501	31.8	19.2	51 W	7*	45*
6 5	1 28.53	− 2 3.7	1.836	1.509	33.5	19.2	55 W	10*	49*
6 15	1 51.12	− 1 15.5	1.753	1.511	35.3	19.2	59 W	13*	52*
6 25	2 13.96	− 0 38.3	1.662	1.506	37.0	19.1	63 W	16*	55*
7 5	2 37.25	− 0 13.6	1.565	1.495	38.7	19.0	67 W	20*	57*
7 15	3 1.15	− 0 3.3	1.462	1.477	40.5	18.9	71 W	24*	59*
7 25	3 25.89	− 0 9.3	1.357	1.451	42.2	18.7	74 W	28*	61*
8 4	3 51.78	− 0 33.6	1.249	1.419	44.1	18.5	77 W	31*	62*
8 14	4 19.17	− 1 18.6	1.141	1.380	46.2	18.3	79 W	34*	63*
8 24	4 48.58	− 2 26.1	1.035	1.334	48.5	18.1	81 W	36*	64*
9 3	5 20.80	− 3 57.8	0.933	1.280	51.4	17.9	82 W	36*	65*
9 13	5 56.87	− 5 54.4	0.836	1.218	54.9	17.6	82 W	36*	66*
9 18	6 16.80	− 7 1.3	0.791	1.184	57.1	17.5	82 W	35*	67*
9 23	6 38.30	− 8 13.1	0.749	1.148	59.5	17.4	80 W	34*	66*
9 28	7 1.63	− 9 28.5	0.710	1.110	62.3	17.3	79 W	33*	66*
10 3	7 27.07	−10 45.5	0.675	1.070	65.5	17.2	77 W	32*	65*
10 8	7 54.84	−12 1.5	0.645	1.028	69.0	17.1	74 W	31*	63*
10 13	8 25.14	−13 12.3	0.620	0.985	72.9	17.1	71 W	29*	60*
10 18	8 58.00	−14 13.1	0.602	0.939	77.2	17.1	67 W	28*	57*
10 23	9 33.25	−14 59.0	0.592	0.891	81.6	17.1	62 W	26*	53*
10 28	10 10.43	−15 25.5	0.591	0.842	85.9	17.1	58 W	25*	48*
11 2	10 48.83	−15 30.6	0.600	0.791	89.9	17.2	53 W	24*	43*
11 7	11 27.58	−15 15.0	0.621	0.739	93.1	17.2	48 W	23*	38*
11 12	12 5.86	−14 43.2	0.654	0.688	95.1	17.3	44 W	22*	33*
11 14	12 20.91	−14 27.5	0.671	0.667	95.4	17.3	42 W	22*	31*
11 16	12 35.76	−14 10.9	0.689	0.647	95.4	17.3	41 W	22*	29*
11 18	12 50.42	−13 54.1	0.710	0.627	95.1	17.2	39 W	22*	27*
11 20	13 4.87	−13 37.6	0.733	0.608	94.5	17.2	38 W	21*	25*
11 22	13 19.12	−13 21.9	0.758	0.590	93.5	17.2	37 W	21*	24*
11 24	13 33.18	−13 7.6	0.784	0.572	92.1	17.1	35 W	21*	22*
11 26	13 47.06	−12 55.1	0.813	0.555	90.3	17.1	34 W	21*	21*
11 28	14 0.78	−12 45.0	0.844	0.539	88.1	17.0	33 W	20*	19*
11 30	14 14.37	−12 37.5	0.876	0.525	85.6	16.9	32 W	20*	18*
12 2	14 27.83	−12 32.9	0.910	0.513	82.7	16.8	31 W	20*	16*
12 7	15 1.07	−12 35.2	0.999	0.491	74.1	16.6	29 W	18*	13*
12 12	15 33.74	−12 56.3	1.094	0.484	64.2	16.5	26 W	17*	11*
12 17	16 5.72	−13 31.9	1.188	0.493	54.1	16.4	24 W	15*	9*
12 22	16 36.70	−14 15.2	1.280	0.517	44.9	16.4	22 W	14*	7*
12 27	17 6.40	−14 59.1	1.366	0.552	37.0	16.5	20 W	12*	6*
1 1	17 34.63	−15 38.6	1.446	0.595	30.8	16.6	18 W	10*	5*
1 6	18 1.32	−16 10.4	1.521	0.643	25.9	16.7	17 W	9*	5*
1 11	18 26.48	−16 33.4	1.590	0.694	22.3	16.9	16 W	8*	4*
1 16	18 50.21	−16 47.4	1.654	0.746	19.6	17.0	15 W	7*	4*
1 21	19 12.59	−16 52.8	1.713	0.797	17.7	17.2	14 W	6*	5*
397847 2008 TA_1									
12 27	17 4.32	−27 40.7	1.870	0.986	18.3	21.1	18 W	2*	12*
1 1	17 25.81	−28 40.5	1.902	1.022	18.1	21.2	19 W	1*	13*
1 6	17 46.91	−29 26.1	1.934	1.058	18.0	21.3	19 W	—	13*
1 11	18 7.54	−29 58.5	1.964	1.094	18.0	21.4	20 W	—	14*
1 16	18 27.65	−30 18.7	1.993	1.131	18.1	21.5	21 W	—	15*
476904 2008 WK_{32}									
12 27	17 4.46	−22 41.1	1.806	0.924	19.4	21.3	18 W	6*	10*
1 6	17 49.85	−24 56.7	1.853	0.967	18.3	21.4	18 W	4*	11*
1 16	18 34.29	−26 16.4	1.902	1.016	17.7	21.6	18 W	1*	12*
1 26	19 17.05	−26 44.3	1.950	1.071	17.7	21.7	19 W	—	13*
2 5	19 57.55	−26 27.8	1.997	1.129	17.9	21.9	21 W	—	15*
298767 2004 NS_3									
12 27	17 4.51	−26 42.2	2.656	1.749	10.1	21.2	18 W	3*	11*
1 6	17 34.57	−27 30.6	2.601	1.725	12.1	21.2	22 W	3*	15*
1 16	18 5.40	−27 57.5	2.543	1.703	14.1	21.2	25 W	4*	19*
1 26	18 36.74	−28 1.4	2.485	1.683	16.1	21.2	28 W	4*	22*
2 5	19 8.31	−27 41.6	2.427	1.666	17.9	21.2	31 W	4*	25*
2 15	19 39.80	−26 58.1	2.369	1.651	19.8	21.2	34 W	4*	28*
2 25	20 10.93	−25 51.9	2.311	1.639	21.5	21.1	37 W	4*	31*
3 7	20 41.44	−24 24.8	2.254	1.630	23.2	21.1	40 W	4*	34*
3 17	21 11.14	−22 39.1	2.198	1.623	24.8	21.1	43 W	4*	37*
3 27	21 39.87	−20 37.8	2.143	1.620	26.4	21.1	46 W	5*	40*
4 6	22 7.55	−18 24.0	2.089	1.620	27.8	21.1	49 W	5*	43*
4 16	22 34.15	−16 1.0	2.035	1.623	29.2	21.1	52 W	6*	46*

298767 2004 NS_3 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 26	22 59.63	−13 32.0	1.981	1.629	30.4	21.1	55 W	7*	49*
5 6	23 24.00	−11 0.2	1.927	1.639	31.6	21.0	58 W	9*	52*
5 16	23 47.28	− 8 28.2	1.872	1.651	32.6	21.0	62 W	12*	55*
5 26	0 9.43	− 5 58.8	1.816	1.665	33.5	21.0	65 W	14*	58*
6 5	0 30.46	− 3 34.1	1.758	1.683	34.2	21.0	69 W	18*	60*
6 15	0 50.29	− 1 15.9	1.697	1.702	34.8	20.9	73 W	23*	62*
6 25	1 8.81	+ 0 54.1	1.635	1.724	35.1	20.9	77 W	28*	62*
7 5	1 25.90	+ 2 54.7	1.570	1.748	35.2	20.8	82 W	34*	61*
7 15	1 41.34	+ 4 45.1	1.503	1.774	34.9	20.8	87 W	40*	59
7 25	1 54.84	+ 6 24.3	1.435	1.801	34.3	20.7	93 W	46*	58
8 4	2 6.08	+ 7 52.1	1.365	1.829	33.2	20.6	99 W	51*	56
8 14	2 14.62	+ 9 7.8	1.296	1.859	31.5	20.5	107 W	54*	55
8 24	2 19.99	+10 11.2	1.230	1.890	29.1	20.3	115 W	55	54
9 3	2 21.77	+11 1.7	1.170	1.921	25.9	20.1	124 W	56	53
9 13	2 19.58	+11 38.6	1.118	1.953	21.9	20.0	134 W	57	52
9 23	2 13.43	+12 1.4	1.080	1.986	17.0	19.8	145 W	57	52
10 3	2 3.83	+12 10.1	1.060	2.019	11.3	19.6	157 W	57	52
10 8	1 58.06	+12 9.6	1.059	2.035	8.3	19.4	163 W	57	52
10 13	1 51.91	+12 6.5	1.063	2.052	5.2	19.3	169 W	57	52
10 18	1 45.61	+12 1.4	1.073	2.068	2.1	19.2	176 W	57	52
10 23	1 39.39	+11 55.0	1.090	2.085	1.2	19.2	177 E	57	52
10 28	1 33.45	+11 48.1	1.114	2.101	4.1	19.4	171 E	57	52
11 2	1 28.00	+11 41.5	1.143	2.118	7.0	19.6	165 E	57	52
11 7	1 23.19	+11 36.1	1.179	2.134	9.6	19.8	159 E	57	52
11 12	1 19.14	+11 32.7	1.221	2.150	12.1	20.0	153 E	57	52
11 22	1 13.60	+11 33.4	1.321	2.183	16.3	20.4	142 E	57	52
12 2	1 11.51	+11 46.3	1.439	2.215	19.6	20.7	131 E	57	52
12 12	1 12.70	+12 11.8	1.571	2.247	22.0	21.0	121 E	57	52
12 22	1 16.79	+12 49.3	1.714	2.279	23.5	21.3	112 E	58	51*

333270 2146 *P–L*

12 27	17 5.08	−18 12.3	3.147	2.241	8.2	20.8	19 W	10*	8*
1 6	17 27.20	−18 22.5	3.055	2.192	10.5	20.8	24 W	12*	13*
1 16	17 49.90	−18 20.0	2.954	2.143	12.7	20.8	29 W	14*	18*
1 26	18 13.11	−18 3.7	2.848	2.095	14.9	20.7	33 W	15*	24*
2 5	18 36.75	−17 32.9	2.736	2.046	17.1	20.6	38 W	16*	29*
2 15	19 0.77	−16 46.9	2.621	1.999	19.3	20.6	42 W	17*	34*
2 25	19 25.07	−15 45.3	2.503	1.951	21.4	20.5	46 W	18*	38*
3 7	19 49.60	−14 28.1	2.385	1.905	23.5	20.4	50 W	19*	43*
3 17	20 14.32	−12 55.5	2.267	1.861	25.5	20.3	54 W	20*	46*
3 27	20 39.16	−11 7.9	2.151	1.817	27.5	20.2	57 W	21*	50*
4 6	21 4.11	− 9 6.5	2.038	1.776	29.4	20.1	61 W	22*	53*
4 16	21 29.16	− 6 52.4	1.928	1.736	31.2	20.0	64 W	23*	56*
4 26	21 54.28	− 4 27.6	1.823	1.700	33.0	19.8	67 W	25*	58*
5 6	22 19.49	− 1 54.3	1.723	1.666	34.6	19.7	70 W	26*	59*
5 16	22 44.80	+ 0 44.7	1.629	1.636	36.1	19.6	72 W	28*	59*
5 26	23 10.18	+ 3 26.1	1.540	1.609	37.4	19.5	75 W	31*	59*
6 5	23 35.63	+ 6 6.3	1.458	1.587	38.6	19.4	78 W	34*	57*
6 15	0 1.07	+ 8 41.2	1.380	1.569	39.7	19.2	80 W	38*	55*
6 20	0 13.76	+ 9 55.3	1.344	1.561	40.1	19.2	82 W	40*	54*
6 25	0 26.40	+11 6.6	1.308	1.555	40.4	19.1	83 W	42*	53
6 30	0 38.97	+12 14.5	1.274	1.551	40.7	19.1	84 W	45*	52
7 5	0 51.44	+13 18.4	1.240	1.547	41.0	19.0	86 W	47*	51
7 10	1 3.78	+14 18.0	1.208	1.545	41.1	19.0	88 W	49*	50
7 15	1 15.93	+15 12.7	1.177	1.544	41.2	18.9	89 W	52*	49
7 20	1 27.86	+16 2.0	1.146	1.545	41.1	18.9	91 W	54*	48
7 25	1 39.51	+16 45.7	1.117	1.546	41.0	18.8	93 W	56*	47
7 30	1 50.83	+17 23.3	1.088	1.549	40.8	18.7	95 W	59*	47
8 4	2 1.75	+17 54.6	1.059	1.554	40.4	18.7	97 W	60*	46
8 9	2 12.18	+18 19.2	1.032	1.559	39.9	18.6	99 W	62*	46
8 14	2 22.06	+18 37.0	1.005	1.566	39.3	18.5	102 W	63*	45
8 19	2 31.30	+18 47.6	0.979	1.574	38.5	18.5	104 W	64*	45
8 24	2 39.83	+18 51.2	0.954	1.583	37.6	18.4	107 W	64	45
9 3	2 54.41	+18 36.6	0.906	1.605	35.1	18.3	114 W	64	45
9 13	3 5.09	+17 52.9	0.863	1.631	31.8	18.1	121 W	63	46
9 23	3 11.38	+16 41.4	0.828	1.661	27.6	17.9	130 W	62	47
10 3	3 13.05	+15 5.2	0.802	1.694	22.5	17.7	140 W	60	49
10 8	3 12.20	+14 9.6	0.794	1.711	19.6	17.7	145 W	59	50
10 13	3 10.35	+13 10.4	0.790	1.730	16.5	17.6	150 W	58	51
10 18	3 7.64	+12 9.3	0.791	1.749	13.3	17.5	156 W	57	52
10 23	3 4.26	+11 7.7	0.796	1.769	10.2	17.4	162 W	56	53
10 28	3 0.41	+10 7.6	0.807	1.789	7.1	17.3	167 W	55	54
11 2	2 56.33	+ 9 10.5	0.823	1.810	4.8	17.3	171 W	54	55
11 7	2 52.23	+ 8 18.3	0.844	1.831	4.3	17.3	172 W	53	56
11 12	2 48.36	+ 7 32.3	0.872	1.853	5.9	17.5	169 E	53	56
11 17	2 44.90	+ 6 53.7	0.905	1.875	8.4	17.7	164 E	52	57
11 22	2 42.00	+ 6 22.8	0.943	1.898	10.9	17.9	159 E	51	58

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 2	2 38.23	+ 5 44.7	1.035	1.943	15.6	18.4	148 E	51	58
12 12	2 37.48	+ 5 36.2	1.146	1.990	19.3	18.8	138 E	51	58
12 22	2 39.73	+ 5 52.6	1.272	2.038	22.1	19.1	129 E	51	58
12 27	2 41.88	+ 6 8.2	1.340	2.062	23.2	19.3	124 E	51	58
1 1	2 44.65	+ 6 27.8	1.411	2.086	24.1	19.5	120 E	51	58
1 6	2 48.01	+ 6 50.7	1.485	2.110	24.8	19.6	116 E	52	57
1 11	2 51.91	+ 7 16.5	1.561	2.135	25.3	19.8	112 E	52	57
1 16	2 56.29	+ 7 44.5	1.639	2.159	25.6	19.9	108 E	53	56*
1 21	3 1.11	+ 8 14.1	1.719	2.183	25.9	20.1	104 E	53	55*

98333 2000 SC_{295}

12 27	17 5.37	−26 4.9	3.680	2.761	6.3	21.3	18 W	3*	11*
1 6	17 23.30	−26 23.0	3.606	2.737	8.4	21.4	24 W	6*	17*
1 16	17 41.28	−26 34.0	3.517	2.712	10.5	21.4	30 W	8*	23*
1 26	17 59.21	−26 38.0	3.416	2.686	12.5	21.4	36 W	9*	30*
2 5	18 16.98	−26 34.9	3.302	2.659	14.5	21.3	42 W	10*	36*
2 15	18 34.50	−26 25.0	3.178	2.631	16.4	21.3	49 W	11*	42*
2 25	18 51.63	−26 8.8	3.044	2.602	18.1	21.2	55 W	12*	49*
3 7	19 8.26	−25 46.8	2.901	2.572	19.7	21.2	61 W	13*	55*
3 17	19 24.28	−25 19.9	2.753	2.542	21.2	21.1	67 W	14*	61*
3 27	19 39.53	−24 48.9	2.599	2.510	22.4	20.9	74 W	15*	68*
4 6	19 53.88	−24 15.1	2.442	2.478	23.5	20.8	80 W	16*	74*
4 16	20 7.15	−23 39.8	2.283	2.446	24.2	20.7	87 W	17*	81*
4 26	20 19.14	−23 4.4	2.124	2.412	24.6	20.5	94 W	18*	87*
5 6	20 29.62	−22 30.6	1.967	2.378	24.6	20.3	101 W	20*	87
5 16	20 38.31	−22 0.1	1.814	2.343	24.1	20.1	109 W	21*	86
5 26	20 44.87	−21 34.8	1.667	2.308	23.1	19.8	117 W	23*	86
6 5	20 48.95	−21 16.4	1.530	2.273	21.4	19.5	125 W	24*	85
6 15	20 50.13	−21 6.2	1.403	2.236	18.9	19.2	135 W	24	85
6 25	20 48.10	−21 4.6	1.292	2.200	15.5	18.9	145 W	24	85
7 5	20 42.72	−21 10.5	1.197	2.163	11.3	18.6	155 W	24	85
7 15	20 34.20	−21 21.3	1.124	2.126	6.3	18.2	167 W	24	85
7 20	20 28.98	−21 27.1	1.096	2.108	3.6	18.0	173 W	24	85
7 25	20 23.34	−21 32.2	1.074	2.089	1.1	17.7	178 W	23	86
7 30	20 17.44	−21 36.1	1.058	2.071	2.7	17.8	175 E	23	86
8 4	20 11.51	−21 38.3	1.048	2.052	5.6	17.9	169 E	23	86
8 9	20 5.76	−21 38.3	1.044	2.034	8.6	18.0	163 E	23	86
8 14	20 0.43	−21 35.9	1.045	2.016	11.5	18.1	157 E	23	86
8 19	19 55.72	−21 31.0	1.052	1.997	14.3	18.2	151 E	23	86
8 24	19 51.80	−21 23.6	1.064	1.979	17.0	18.3	145 E	24	85
9 3	19 46.74	−21 2.0	1.099	1.943	21.8	18.5	134 E	24	85
9 13	19 45.82	−20 32.3	1.148	1.908	25.8	18.7	125 E	24	85
9 23	19 49.09	−19 55.3	1.207	1.874	28.9	18.8	116 E	25	84
10 3	19 56.20	−19 10.8	1.271	1.840	31.2	19.0	108 E	26	83
10 13	20 6.73	−18 17.9	1.339	1.808	32.9	19.1	100 E	27	82
10 23	20 20.18	−17 15.3	1.409	1.778	34.0	19.2	94 E	28	80*
11 2	20 36.06	−16 2.0	1.478	1.749	34.5	19.3	88 E	29	75*
11 12	20 53.98	−14 36.7	1.547	1.722	34.7	19.4	82 E	30	68*
11 22	21 13.54	−12 58.7	1.615	1.697	34.6	19.4	77 E	32	62*
12 2	21 34.43	−11 8.0	1.681	1.675	34.2	19.5	73 E	34*	55*
12 12	21 56.41	− 9 4.7	1.745	1.655	33.5	19.5	68 E	36*	49*
12 22	22 19.27	− 6 49.6	1.807	1.639	32.7	19.5	64 E	37*	43*
1 1	22 42.84	− 4 24.2	1.869	1.625	31.7	19.6	60 E	39*	38*
1 11	23 7.04	− 1 50.2	1.929	1.615	30.6	19.6	57 E	39*	33*
1 21	23 31.76	+ 0 50.2	1.989	1.608	29.4	19.6	53 E	39*	29*

162015 1994 TF_2

12 27	17 5.41	−12 50.8	1.667	0.831	25.4	21.1	21 W	14*	5*
1 6	17 50.93	−12 7.4	1.725	0.880	23.6	21.2	21 W	14*	5*
1 16	18 33.77	−11 5.9	1.780	0.931	22.2	21.4	21 W	14*	6*
1 26	19 13.95	− 9 49.2	1.833	0.982	21.2	21.5	21 W	13*	7*
2 5	19 51.67	− 8 20.6	1.881	1.030	20.6	21.7	22 W	13*	9*

162780 2000 XJ_{38}

12 27	17 5.54	−38 51.0	3.930	3.047	7.2	21.4	23 W	—	16*
1 6	17 24.13	−39 11.5	3.871	3.034	8.6	21.4	28 W	—	21*
1 16	17 42.62	−39 27.5	3.796	3.020	10.2	21.5	33 W	—	26*
1 26	18 0.87	−39 39.4	3.707	3.004	11.9	21.5	39 W	—	32*
2 5	18 18.75	−39 47.5	3.605	2.988	13.5	21.4	45 W	—	38*
2 15	18 36.15	−39 52.4	3.491	2.971	15.0	21.4	51 W	—	43*
2 25	18 52.88	−39 55.0	3.366	2.953	16.4	21.4	57 W	—	49*
3 7	19 8.81	−39 56.4	3.232	2.934	17.7	21.3	64 W	—	55*
3 17	19 23.77	−39 57.6	3.089	2.914	18.8	21.2	71 W	1*	60*
3 27	19 37.56	−40 0.2	2.941	2.894	19.7	21.1	77 W	1*	66*
4 6	19 49.98	−40 5.5	2.789	2.872	20.3	21.0	85 W	1*	70*
4 16	20 0.77	−40 15.0	2.634	2.849	20.6	20.9	92 W	2*	74*
4 26	20 9.63	−40 30.2	2.481	2.825	20.6	20.7	99 W	2*	75
5 6	20 16.23	−40 52.0	2.330	2.801	20.1	20.6	107 W	3*	75
5 16	20 20.15	−41 20.8	2.185	2.775	19.2	20.4	116 W	3*	75

162780 2000 XJ_{38} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 21	20 20.97	−41 37.6	2.116	2.762	18.5	20.3	120 W	3*	74
5 26	20 20.95	−41 55.8	2.049	2.748	17.8	20.2	124 W	3*	74
5 31	20 20.06	−42 14.8	1.986	2.735	16.9	20.1	129 W	3*	74
6 5	20 18.24	−42 34.3	1.926	2.721	15.8	20.0	133 W	2	73
6 10	20 15.46	−42 53.5	1.871	2.707	14.7	19.8	137 W	2	73
6 15	20 11.71	−43 11.5	1.820	2.693	13.5	19.7	142 W	2	73
6 20	20 7.01	−43 27.3	1.774	2.678	12.2	19.6	146 W	2	73
6 25	20 1.43	−43 39.8	1.733	2.664	10.9	19.5	150 W	1	72
6 30	19 55.04	−43 47.8	1.699	2.649	9.8	19.4	154 W	1	72
7 5	19 47.99	−43 50.3	1.670	2.634	8.9	19.3	156 W	1	72
7 10	19 40.45	−43 46.3	1.648	2.618	8.4	19.3	158 W	1	72
7 15	19 32.64	−43 35.0	1.632	2.603	8.4	19.2	158 E	1	72
7 20	19 24.80	−43 16.2	1.623	2.587	9.0	19.2	156 E	2	73
7 25	19 17.19	−42 50.0	1.621	2.571	10.1	19.3	154 E	2	73
7 30	19 10.01	−42 16.7	1.625	2.555	11.5	19.3	150 E	3	74
8 4	19 3.46	−41 37.1	1.635	2.539	13.0	19.4	146 E	3	74
8 9	18 57.70	−40 52.2	1.650	2.522	14.6	19.4	141 E	4	75
8 14	18 52.86	−40 3.1	1.671	2.505	16.1	19.5	137 E	5	76
8 19	18 49.01	−39 10.8	1.697	2.489	17.7	19.6	132 E	6	77
8 24	18 46.18	−38 16.4	1.727	2.472	19.1	19.6	127 E	7	78
8 29	18 44.36	−37 20.9	1.761	2.454	20.3	19.7	122 E	8	79
9 3	18 43.52	−36 24.9	1.798	2.437	21.5	19.8	118 E	9	80
9 8	18 43.63	−35 29.0	1.838	2.419	22.5	19.8	113 E	10	81
9 13	18 44.65	−34 33.5	1.880	2.402	23.4	19.9	109 E	10	81
9 23	18 49.15	−32 44.9	1.969	2.366	24.7	20.0	100 E	12	83
10 3	18 56.51	−30 59.5	2.061	2.329	25.4	20.1	92 E	14	84*
10 13	19 6.30	−29 16.5	2.153	2.292	25.7	20.1	85 E	16*	79*
10 23	19 18.10	−27 34.4	2.244	2.255	25.6	20.2	78 E	17*	72*
11 2	19 31.56	−25 51.4	2.330	2.217	25.1	20.2	71 E	19*	64*
11 12	19 46.40	−24 5.8	2.411	2.179	24.2	20.2	65 E	20*	57*
11 22	20 2.37	−22 15.7	2.484	2.141	23.2	20.2	59 E	21*	50*
12 2	20 19.26	−20 19.8	2.549	2.103	21.9	20.2	53 E	22*	42*
12 12	20 36.92	−18 16.9	2.606	2.065	20.4	20.2	47 E	23*	35*
12 22	20 55.20	−16 6.1	2.653	2.027	18.8	20.1	42 E	23*	28*
1 1	21 14.01	−13 46.6	2.691	1.989	17.1	20.0	37 E	22*	22*
1 11	21 33.29	−11 18.1	2.719	1.952	15.3	20.0	32 E	21*	16*
1 21	21 52.98	− 8 40.5	2.739	1.915	13.5	19.9	27 E	19*	11*

231707 1998 *TP*

12 27	17 5.94	−31 0.1	3.543	2.632	6.9	21.0	19 W	—	13*
1 6	17 24.70	−31 58.6	3.513	2.652	8.9	21.0	25 W	1*	19*
1 16	17 43.34	−32 51.2	3.469	2.671	10.8	21.1	31 W	2*	25*
1 26	18 1.74	−33 38.8	3.411	2.689	12.7	21.2	37 W	3*	31*
2 5	18 19.79	−34 22.4	3.341	2.706	14.4	21.2	43 W	3*	37*
2 15	18 37.37	−35 3.1	3.258	2.723	16.0	21.2	50 W	3*	43*
2 25	18 54.32	−35 42.5	3.165	2.738	17.4	21.2	56 W	3*	49*
3 7	19 10.51	−36 22.1	3.063	2.752	18.7	21.2	63 W	3*	55*
3 17	19 25.79	−37 4.0	2.953	2.766	19.7	21.2	70 W	3*	61*
3 27	19 39.95	−37 50.0	2.837	2.779	20.4	21.1	76 W	3*	66*
4 6	19 52.80	−38 42.4	2.717	2.790	20.9	21.0	84 W	2*	71*
4 16	20 4.11	−39 43.4	2.596	2.801	21.0	20.9	91 W	2*	74*
4 26	20 13.55	−40 54.7	2.476	2.811	20.7	20.8	99 W	2*	75*
5 6	20 20.82	−42 17.7	2.361	2.820	20.0	20.7	107 W	1*	74
5 16	20 25.47	−43 52.9	2.252	2.828	19.0	20.6	115 W	—	72
5 26	20 27.05	−45 39.0	2.155	2.835	17.5	20.4	123 W	—	70
5 31	20 26.56	−46 35.1	2.111	2.838	16.6	20.4	127 W	—	69
6 5	20 25.13	−47 32.4	2.071	2.841	15.7	20.3	131 W	—	68
6 10	20 22.73	−48 30.0	2.036	2.844	14.7	20.2	135 W	—	68
6 15	20 19.33	−49 26.7	2.006	2.846	13.7	20.2	138 W	—	67
6 20	20 14.95	−50 21.3	1.981	2.848	12.8	20.1	142 W	—	66
6 25	20 9.63	−51 12.6	1.961	2.850	12.0	20.1	144 W	—	65
6 30	20 3.46	−51 59.0	1.948	2.852	11.3	20.0	147 W	—	64
7 5	19 56.54	−52 39.5	1.940	2.854	10.9	20.0	148 W	—	63
7 10	19 49.07	−53 12.8	1.939	2.855	10.7	20.0	148 W	—	63
7 15	19 41.26	−53 38.0	1.943	2.856	10.9	20.0	148 W	—	62
7 20	19 33.36	−53 54.7	1.954	2.857	11.3	20.0	146 E	—	62
7 25	19 25.63	−54 2.9	1.970	2.857	12.0	20.1	144 E	—	62
7 30	19 18.31	−54 2.7	1.992	2.857	12.8	20.1	141 E	—	62
8 4	19 11.60	−53 54.8	2.020	2.858	13.7	20.2	138 E	—	62
8 9	19 5.69	−53 39.9	2.053	2.857	14.6	20.3	135 E	—	62
8 14	19 0.71	−53 19.0	2.090	2.857	15.6	20.3	131 E	—	63
8 19	18 56.75	−52 53.1	2.131	2.856	16.5	20.4	127 E	—	63
8 24	18 53.83	−52 23.3	2.177	2.855	17.3	20.5	123 E	—	64
8 29	18 51.95	−51 50.5	2.225	2.854	18.0	20.6	119 E	—	64
9 3	18 51.09	−51 15.4	2.277	2.853	18.7	20.6	115 E	—	65
9 8	18 51.20	−50 38.6	2.331	2.851	19.3	20.7	111 E	—	65
9 13	18 52.24	−50 0.7	2.387	2.849	19.7	20.8	107 E	—	66
9 18	18 54.14	−49 22.1	2.444	2.847	20.1	20.8	103 E	—	67
9 23	18 56.82	−48 43.1	2.503	2.845	20.4	20.9	99 E	—	67
9 28	19 0.22	−48 3.9	2.563	2.842	20.5	20.9	96 E	—	68
10 3	19 4.27	−47 24.5	2.623	2.840	20.6	21.0	92 E	—	69*

231707 1998 *TP* *(continuation)*

10 8	19 8.92	−46 45.0	2.684	2.837	20.6	21.0	88 E	—	69*
10 13	19 14.11	−46 5.5	2.744	2.833	20.5	21.1	85 E	—	68*
10 18	19 19.78	−45 25.9	2.804	2.830	20.4	21.1	81 E	—	67*
10 23	19 25.88	−44 46.1	2.863	2.826	20.1	21.1	78 E	—	66*
10 28	19 32.35	−44 6.1	2.921	2.822	19.8	21.2	74 E	1*	64*
11 2	19 39.17	−43 25.7	2.978	2.818	19.5	21.2	71 E	1*	62*
11 7	19 46.29	−42 44.9	3.033	2.813	19.0	21.2	68 E	2*	60*
11 12	19 53.68	−42 3.6	3.087	2.809	18.6	21.2	65 E	3*	57*
11 17	20 1.29	−41 21.8	3.139	2.804	18.0	21.3	61 E	3*	55*
11 22	20 9.11	−40 39.4	3.189	2.799	17.5	21.3	58 E	4*	52*
11 27	20 17.09	−39 56.2	3.237	2.793	16.9	21.3	55 E	4*	49*
12 2	20 25.23	−39 12.2	3.282	2.788	16.2	21.3	52 E	4*	46*
12 7	20 33.49	−38 27.4	3.325	2.782	15.5	21.3	49 E	5*	43*
12 12	20 41.85	−37 41.8	3.366	2.776	14.8	21.3	46 E	5*	40*
12 17	20 50.30	−36 55.3	3.403	2.769	14.1	21.3	43 E	5*	37*
12 22	20 58.81	−36 8.0	3.438	2.763	13.3	21.3	40 E	5*	34*
12 27	21 7.37	−35 19.7	3.469	2.756	12.6	21.2	38 E	4*	32*
1 1	21 15.97	−34 30.6	3.498	2.749	11.8	21.2	35 E	4*	29*
1 6	21 24.59	−33 40.6	3.523	2.742	11.0	21.2	32 E	3*	26*
1 11	21 33.23	−32 49.7	3.545	2.734	10.3	21.2	30 E	2*	24*
1 16	21 41.87	−31 58.1	3.564	2.727	9.5	21.2	27 E	1*	21*
1 21	21 50.51	−31 5.7	3.580	2.719	8.8	21.1	25 E	—	19*

23726 1998 HG_{48}

12 27	17 6.21	−21 27.0	2.893	1.981	8.8	19.4	18 W	7*	9*
1 6	17 31.21	−22 7.1	2.825	1.951	11.0	19.4	22 W	8*	14*
1 16	17 56.82	−22 33.1	2.751	1.922	13.2	19.4	27 W	9*	19*
1 26	18 22.90	−22 44.1	2.672	1.893	15.4	19.4	31 W	10*	23*
2 5	18 49.36	−22 39.6	2.589	1.865	17.5	19.3	35 W	10*	28*
2 15	19 16.09	−22 19.4	2.502	1.838	19.6	19.3	39 W	11*	32*
2 25	19 42.95	−21 43.5	2.413	1.811	21.7	19.3	43 W	11*	36*
3 7	20 9.83	−20 52.5	2.322	1.786	23.7	19.2	46 W	11*	40*
3 17	20 36.63	−19 47.3	2.230	1.762	25.6	19.1	50 W	11*	44*
3 27	21 3.24	−18 29.0	2.139	1.739	27.4	19.1	53 W	11*	47*
4 6	21 29.61	−16 59.2	2.048	1.718	29.2	19.0	57 W	12*	51*
4 16	21 55.68	−15 19.7	1.958	1.699	30.8	18.9	60 W	12*	54*
4 26	22 21.37	−13 32.6	1.870	1.682	32.4	18.9	64 W	13*	57*
5 6	22 46.68	−11 40.2	1.783	1.667	33.8	18.8	67 W	14*	60*
5 16	23 11.53	− 9 44.8	1.699	1.655	35.1	18.7	70 W	16*	63*
5 26	23 35.88	− 7 49.1	1.617	1.645	36.2	18.6	73 W	18*	65*
6 5	23 59.68	− 5 55.6	1.538	1.637	37.1	18.5	77 W	21*	67*
6 15	0 22.81	− 4 7.1	1.460	1.632	37.8	18.4	80 W	25*	67*
6 25	0 45.14	− 2 26.1	1.385	1.630	38.3	18.3	84 W	29*	66*
7 5	1 6.51	− 0 54.9	1.311	1.631	38.5	18.2	88 W	33*	65
7 15	1 26.65	+ 0 24.0	1.240	1.634	38.4	18.1	92 W	38*	64
7 25	1 45.27	+ 1 28.8	1.170	1.640	37.9	17.9	97 W	42*	63
8 4	2 1.99	+ 2 18.1	1.103	1.649	37.0	17.8	102 W	45*	62
8 14	2 16.34	+ 2 50.5	1.038	1.660	35.5	17.6	108 W	48*	61
8 24	2 27.76	+ 3 5.9	0.977	1.673	33.3	17.5	115 W	48	61
9 3	2 35.72	+ 3 4.6	0.921	1.689	30.4	17.3	122 W	48	61
9 13	2 39.61	+ 2 48.4	0.872	1.707	26.6	17.1	131 W	48	61
9 23	2 39.12	+ 2 20.9	0.833	1.727	21.9	16.8	140 W	47	62
9 28	2 37.23	+ 2 4.7	0.818	1.738	19.3	16.7	145 W	47	62
10 3	2 34.31	+ 1 48.1	0.808	1.749	16.5	16.6	150 W	47	62
10 8	2 30.47	+ 1 32.0	0.801	1.760	13.6	16.5	156 W	47	62
10 13	2 25.89	+ 1 17.7	0.799	1.772	10.8	16.4	161 W	46	63
10 18	2 20.79	+ 1 6.4	0.803	1.784	8.3	16.4	165 W	46	63
10 23	2 15.39	+ 0 59.1	0.811	1.796	6.7	16.3	168 W	46	63
10 28	2 9.96	+ 0 56.6	0.826	1.809	6.6	16.4	168 W	46	63
11 2	2 4.72	+ 0 59.3	0.845	1.822	8.0	16.5	165 E	46	63
11 12	1 55.74	+ 1 22.1	0.901	1.849	12.6	16.9	156 E	46	63
11 22	1 49.76	+ 2 7.0	0.976	1.877	17.3	17.2	146 E	47	62
12 2	1 47.30	+ 3 10.6	1.070	1.905	21.1	17.6	136 E	48	61
12 12	1 48.38	+ 4 28.9	1.178	1.934	24.1	17.9	127 E	49	60
12 22	1 52.68	+ 5 57.7	1.298	1.963	26.2	18.2	118 E	51	58
1 1	1 59.74	+ 7 33.1	1.427	1.993	27.6	18.5	110 E	53	56*
1 11	2 9.12	+ 9 12.5	1.563	2.023	28.3	18.8	103 E	54	54*
1 21	2 20.44	+10 53.3	1.704	2.052	28.5	19.0	96 E	56	50*

11311 Peleus

12 27	17 7.24	−26 27.1	3.010	2.094	8.1	20.5	18 W	3*	11*
1 6	17 30.19	−27 40.6	2.901	2.029	10.7	20.4	23 W	4*	16*
1 16	17 54.60	−28 46.1	2.782	1.962	13.4	20.4	27 W	4*	21*
1 26	18 20.59	−29 42.1	2.655	1.894	16.0	20.3	32 W	4*	26*
2 5	18 48.31	−30 26.6	2.522	1.823	18.7	20.2	36 W	4*	30*
2 10	19 2.88	−30 43.7	2.454	1.788	20.0	20.1	38 W	3*	32*
2 15	19 17.94	−30 56.9	2.386	1.751	21.3	20.0	40 W	3*	34*
2 20	19 33.50	−31 5.8	2.317	1.715	22.7	20.0	42 W	2*	36*
2 25	19 49.60	−31 9.9	2.249	1.678	24.0	19.9	44 W	2*	37*
3 2	20 6.23	−31 8.6	2.181	1.641	25.4	19.8	45 W	1*	38*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
11311 Peleus *(continuation)*									
3 7	20 23.41	−31 1.4	2.114	1.604	26.7	19.8	47 W	1*	40*
3 12	20 41.15	−30 47.4	2.048	1.567	28.1	19.7	48 W	—	40*
3 17	20 59.44	−30 26.2	1.985	1.529	29.4	19.6	49 W	—	41*
3 22	21 18.25	−29 56.8	1.923	1.492	30.8	19.5	50 W	—	42*
3 27	21 37.57	−29 18.6	1.863	1.454	32.1	19.4	51 W	—	42*
4 1	21 57.36	−28 30.7	1.807	1.417	33.4	19.3	51 W	—	43*
4 6	22 17.58	−27 32.6	1.754	1.380	34.7	19.3	52 W	—	43*
4 11	22 38.16	−26 23.6	1.705	1.343	36.0	19.2	52 W	—	43*
4 16	22 59.03	−25 3.4	1.660	1.307	37.2	19.1	52 W	—	43*
4 21	23 20.11	−23 31.7	1.619	1.271	38.4	19.0	52 W	—	43*
4 26	23 41.31	−21 48.6	1.584	1.237	39.4	18.9	51 W	—	42*
5 6	0 23.76	−17 49.7	1.527	1.171	41.3	18.8	50 W	—	42*
5 16	1 5.79	−13 13.3	1.492	1.111	42.7	18.7	48 W	—	40*
5 26	1 46.94	− 8 10.1	1.476	1.060	43.3	18.5	46 W	—	39*
5 31	2 7.12	− 5 32.5	1.476	1.038	43.4	18.5	45 W	—	38*
6 5	2 27.05	− 2 53.3	1.479	1.020	43.2	18.5	43 W	—	37*
6 10	2 46.72	− 0 14.0	1.487	1.005	42.9	18.4	42 W	—	36*
6 15	3 6.16	+ 2 23.6	1.498	0.994	42.4	18.4	41 W	2*	35*
6 20	3 25.40	+ 4 58.0	1.511	0.986	41.7	18.4	40 W	4*	34*
6 25	3 44.46	+ 7 27.8	1.527	0.983	41.0	18.4	39 W	6*	33*
6 30	4 3.39	+ 9 52.0	1.545	0.983	40.2	18.4	39 W	8*	32*
7 5	4 22.20	+12 9.3	1.564	0.988	39.4	18.4	38 W	11*	30*
7 10	4 40.91	+14 18.9	1.584	0.997	38.6	18.4	38 W	13*	29*
7 15	4 59.53	+16 19.9	1.604	1.009	37.8	18.5	37 W	15*	28*
7 25	5 36.47	+19 54.7	1.645	1.045	36.4	18.6	38 W	20*	25*
8 4	6 12.92	+22 51.5	1.684	1.093	35.4	18.7	39 W	25*	23*
8 14	6 48.62	+25 11.0	1.719	1.150	34.7	18.8	40 W	29*	21*
8 24	7 23.26	+26 56.2	1.750	1.214	34.2	19.0	42 W	34*	19*
9 3	7 56.57	+28 11.8	1.774	1.283	34.0	19.1	45 W	38*	17*
9 13	8 28.28	+29 3.7	1.792	1.355	33.8	19.2	49 W	42*	16*
9 23	8 58.18	+29 38.1	1.801	1.429	33.8	19.4	52 W	46*	16*
10 3	9 26.19	+30 1.4	1.803	1.504	33.7	19.5	57 W	50*	16*
10 13	9 52.20	+30 19.8	1.796	1.579	33.6	19.6	61 W	55*	16*
10 23	10 16.16	+30 39.1	1.781	1.653	33.4	19.6	66 W	60*	16*
11 2	10 38.05	+31 4.8	1.758	1.727	33.1	19.7	72 W	65*	18*
11 12	10 57.74	+31 41.9	1.729	1.799	32.5	19.7	78 W	71*	19*
11 22	11 15.09	+32 34.9	1.694	1.870	31.7	19.8	84 W	76*	21*
12 2	11 29.91	+33 47.7	1.654	1.939	30.6	19.7	91 W	79*	22*
12 12	11 41.84	+35 23.2	1.614	2.007	29.1	19.7	98 W	80	24*
12 17	11 46.59	+36 19.8	1.594	2.040	28.2	19.7	102 W	81	24*
12 22	11 50.45	+37 22.1	1.575	2.072	27.2	19.7	106 W	82	25*
12 27	11 53.34	+38 29.9	1.558	2.104	26.1	19.7	110 W	83	24*
1 1	11 55.18	+39 42.7	1.542	2.136	24.9	19.6	114 W	85	24*
1 6	11 55.89	+40 59.6	1.529	2.167	23.7	19.6	118 W	86	23*
1 11	11 55.39	+42 19.3	1.518	2.198	22.4	19.6	121 W	87	22
1 16	11 53.63	+43 40.3	1.511	2.228	21.2	19.6	125 W	89	20
1 21	11 50.55	+45 0.7	1.508	2.258	19.9	19.6	129 W	90	19
333707 2008 YT_{30}									
12 27	17 7.38	−27 3.9	1.809	0.921	18.8	21.5	18 W	2*	11*
1 1	17 32.53	−26 38.8	1.815	0.920	18.2	21.5	17 W	2*	10*
1 6	17 57.32	−25 57.5	1.823	0.922	17.5	21.4	16 W	2*	10*
1 11	18 21.60	−25 1.1	1.832	0.926	16.9	21.4	16 W	2*	9*
1 16	18 45.26	−23 50.8	1.843	0.932	16.3	21.5	15 W	2*	9*
1 21	19 8.22	−22 28.2	1.855	0.941	15.9	21.5	15 W	2*	8*
1 26	19 30.43	−20 55.1	1.868	0.952	15.5	21.5	15 W	2*	8*
44200 1998 MJ_{25}									
12 27	17 8.46	−22 0.2	3.022	2.104	8.0	19.6	17 W	6*	9*
1 6	17 32.52	−22 18.8	2.945	2.066	10.3	19.6	22 W	8*	13*
1 16	17 57.13	−22 23.4	2.863	2.030	12.5	19.6	26 W	9*	18*
1 26	18 22.16	−22 12.9	2.774	1.994	14.7	19.5	31 W	11*	23*
2 5	18 47.50	−21 46.9	2.681	1.958	16.8	19.5	35 W	11*	28*
2 15	19 13.05	−21 4.8	2.584	1.924	19.0	19.4	39 W	12*	33*
2 25	19 38.68	−20 6.7	2.485	1.890	21.0	19.4	43 W	13*	37*
3 7	20 4.28	−18 53.0	2.385	1.858	23.0	19.3	47 W	13*	41*
3 17	20 29.78	−17 24.1	2.284	1.827	25.0	19.3	51 W	14*	45*
3 27	20 55.07	−15 41.2	2.183	1.798	26.9	19.2	54 W	15*	48*
4 6	21 20.11	−13 45.6	2.084	1.771	28.6	19.1	58 W	16*	52*
4 16	21 44.85	−11 38.9	1.987	1.746	30.3	19.0	61 W	17*	55*
4 26	22 9.23	− 9 23.1	1.892	1.723	31.9	18.9	65 W	18*	58*
5 6	22 33.25	− 7 0.2	1.800	1.703	33.3	18.8	68 W	20*	60*
5 16	22 56.86	− 4 32.8	1.710	1.686	34.6	18.7	71 W	22*	62*
5 26	23 20.01	− 2 3.3	1.624	1.672	35.8	18.6	75 W	25*	63*
6 5	23 42.67	+ 0 25.4	1.541	1.661	36.7	18.5	78 W	29*	62*
6 15	0 4.73	+ 2 50.7	1.461	1.653	37.4	18.4	82 W	33*	61*
6 25	0 26.06	+ 5 9.6	1.384	1.649	37.9	18.3	85 W	38*	59
7 5	0 46.50	+ 7 19.4	1.309	1.649	38.1	18.2	89 W	43*	57
7 15	1 5.78	+ 9 17.5	1.237	1.651	37.9	18.1	94 W	48*	55

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
44200 1998 MJ_{25} *(continuation)*									
7 25	1 23.57	+11 1.4	1.167	1.658	37.3	17.9	99 W	53*	53
8 4	1 39.49	+12 28.8	1.101	1.667	36.2	17.8	104 W	57*	52
8 14	1 53.01	+13 37.5	1.037	1.680	34.5	17.6	110 W	59	50
8 24	2 3.58	+14 25.5	0.978	1.696	32.1	17.5	117 W	59	50
9 3	2 10.66	+14 51.3	0.925	1.715	28.8	17.3	125 W	60	49
9 13	2 13.75	+14 53.1	0.880	1.737	24.7	17.1	134 W	60	49
9 23	2 12.71	+14 30.9	0.847	1.761	19.6	16.9	144 W	60	49
10 3	2 7.89	+13 46.3	0.829	1.787	13.6	16.6	155 W	59	50
10 8	2 4.34	+13 17.0	0.826	1.801	10.4	16.5	161 W	58	51
10 13	2 0.29	+12 44.5	0.829	1.815	7.0	16.4	167 W	58	51
10 18	1 55.96	+12 10.0	0.837	1.830	3.6	16.3	173 W	57	52
10 23	1 51.57	+11 35.1	0.851	1.846	0.3	16.1	179 W	57	52
10 28	1 47.36	+11 1.2	0.870	1.861	3.0	16.4	174 E	56	53
11 2	1 43.50	+10 29.5	0.895	1.877	6.2	16.6	168 E	55	54
11 7	1 40.19	+10 1.4	0.925	1.894	9.1	16.8	162 E	55	54
11 12	1 37.56	+ 9 37.7	0.961	1.910	11.9	17.0	157 E	55	54
11 22	1 34.64	+ 9 6.3	1.047	1.945	16.7	17.4	146 E	54	55
12 2	1 34.96	+ 8 56.8	1.152	1.980	20.4	17.8	136 E	54	55
12 12	1 38.37	+ 9 8.1	1.270	2.016	23.2	18.1	126 E	54	55
12 22	1 44.53	+ 9 37.0	1.401	2.052	25.1	18.5	118 E	55	54
1 1	1 52.99	+10 19.9	1.541	2.089	26.3	18.7	110 E	55	54*
1 11	2 3.39	+11 13.3	1.689	2.126	26.9	19.0	102 E	56	52*
1 21	2 15.36	+12 13.9	1.841	2.163	26.9	19.2	95 E	57	49*
388798 2008 BU_2									
12 27	17 9.06	− 5 24.3	1.541	0.777	32.8	20.1	25 W	19*	1*
1 6	18 6.23	−10 38.2	1.463	0.621	30.9	19.4	19 W	13*	1*
1 16	19 15.01	−16 18.1	1.406	0.467	20.8	18.4	10 W	3*	—
1 26	20 39.56	−21 20.4	1.345	0.366	8.0	17.3	3 E	—	—
1 28	20 58.33	−22 1.6	1.328	0.360	15.0	17.5	5 E	—	—
1 30	21 17.47	−22 31.6	1.309	0.361	22.5	17.8	8 E	—	2*
2 1	21 36.79	−22 48.8	1.289	0.369	29.7	18.0	11 E	—	5*
2 3	21 56.12	−22 52.2	1.267	0.382	36.4	18.2	13 E	—	7*
2 5	22 15.31	−22 41.4	1.245	0.401	42.2	18.4	16 E	—	10*
2 7	22 34.22	−22 16.8	1.224	0.424	47.1	18.7	18 E	—	12*
2 9	22 52.76	−21 39.1	1.205	0.449	51.1	18.9	21 E	2*	15*
2 11	23 10.87	−20 49.2	1.188	0.477	54.2	19.0	23 E	4*	17*
2 13	23 28.50	−19 48.4	1.173	0.507	56.5	19.2	25 E	6*	19*
2 15	23 45.62	−18 38.0	1.160	0.537	58.1	19.4	27 E	8*	21*
2 17	0 2.20	−17 19.3	1.151	0.568	59.1	19.5	30 E	9*	23*
2 19	0 18.23	−15 53.8	1.145	0.600	59.7	19.6	32 E	11*	24*
2 21	0 33.71	−14 22.8	1.141	0.631	59.9	19.7	34 E	13*	26*
2 23	0 48.63	−12 47.6	1.141	0.663	59.7	19.8	35 E	15*	27*
2 25	1 2.99	−11 9.5	1.144	0.694	59.3	19.9	37 E	17*	28*
2 27	1 16.80	− 9 29.8	1.150	0.726	58.7	20.0	39 E	19*	30*
3 1	1 30.08	− 7 49.4	1.158	0.756	57.9	20.1	40 E	21*	30*
3 3	1 42.84	− 6 9.4	1.169	0.787	57.0	20.2	42 E	22*	31*
3 5	1 55.10	− 4 30.4	1.183	0.817	55.9	20.3	43 E	24*	32*
3 7	2 6.88	− 2 53.4	1.198	0.847	54.8	20.3	44 E	25*	32*
3 12	2 34.38	+ 0 58.0	1.247	0.919	52.0	20.5	47 E	29*	33*
3 17	2 59.39	+ 4 29.0	1.307	0.988	49.0	20.7	49 E	31*	33*
3 22	3 22.23	+ 7 37.6	1.375	1.055	46.1	20.9	50 E	33*	33*
3 27	3 43.23	+10 23.8	1.450	1.118	43.4	21.0	50 E	34*	33*
4 1	4 2.67	+12 49.1	1.530	1.179	40.8	21.2	50 E	35*	32*
4 6	4 20.78	+14 55.4	1.613	1.238	38.3	21.3	50 E	35*	31*
4 11	4 37.77	+16 44.8	1.698	1.294	36.0	21.5	49 E	35*	30*
430804 2005 AD_{13}									
12 27	17 9.26	−18 19.7	2.286	1.385	12.7	21.2	18 W	9*	7*
1 1	17 25.50	−18 55.5	2.213	1.324	14.1	21.0	19 W	9*	9*
1 6	17 42.82	−19 27.3	2.139	1.261	15.5	20.9	20 W	9*	10*
1 11	18 1.34	−19 54.0	2.065	1.197	16.9	20.8	21 W	9*	11*
1 16	18 21.17	−20 14.4	1.992	1.131	18.2	20.6	21 W	8*	12*
1 21	18 42.45	−20 26.9	1.921	1.063	19.4	20.4	21 W	7*	13*
1 26	19 5.31	−20 29.4	1.852	0.995	20.6	20.2	21 W	6*	13*
1 31	19 29.86	−20 19.6	1.786	0.925	21.5	20.0	20 W	5*	13*
2 5	19 56.23	−19 54.7	1.724	0.854	22.0	19.8	19 W	4*	12*
2 10	20 24.46	−19 11.4	1.668	0.783	22.1	19.5	17 W	2*	11*
2 15	20 54.57	−18 6.4	1.617	0.713	21.4	19.3	15 W	—	9*
2 20	21 26.49	−16 36.0	1.573	0.646	19.6	18.9	13 W	—	7*
2 25	22 0.07	−14 37.2	1.537	0.584	16.3	18.5	10 W	—	3*
3 2	22 35.07	−12 7.9	1.506	0.532	11.7	18.1	6 W	—	—
3 7	23 11.08	− 9 7.9	1.481	0.495	7.6	17.8	4 E	—	—
3 12	23 47.53	− 5 40.5	1.459	0.478	11.1	17.8	5 E	—	—
3 17	0 23.74	− 1 53.2	1.440	0.486	19.4	18.1	9 E	—	3*
3 19	0 38.03	− 0 19.2	1.434	0.495	22.7	18.2	11 E	2*	4*
3 21	0 52.17	+ 1 15.6	1.429	0.508	25.8	18.4	13 E	4*	5*
3 23	1 6.14	+ 2 50.3	1.425	0.524	28.6	18.5	15 E	6*	6*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
430804 2005 AD_{13} *(continuation)*									
3 25	1 19.93	+ 4 24.3	1.422	0.542	31.0	18.7	16 E	7*	7*
3 27	1 33.53	+ 5 56.9	1.421	0.563	33.1	18.8	18 E	9*	8*
4 1	2 6.73	+ 9 39.0	1.426	0.622	36.7	19.1	22 E	13*	11*
4 6	2 38.77	+13 2.3	1.442	0.688	38.6	19.4	25 E	16*	13*
4 11	3 9.63	+16 2.3	1.469	0.757	39.1	19.7	28 E	19*	14*
4 16	3 39.27	+18 36.7	1.507	0.827	38.6	19.9	31 E	21*	16*
4 26	4 34.53	+22 28.8	1.610	0.968	36.2	20.3	35 E	24*	18*
5 6	5 24.15	+24 50.3	1.740	1.106	32.9	20.7	37 E	25*	19*
5 16	6 8.17	+26 1.3	1.887	1.237	29.4	21.0	37 E	24*	20*
5 26	6 47.04	+26 21.6	2.045	1.362	25.9	21.3	36 E	22*	21*
133090 2003 MS_9									
12 27	17 9.35	−22 9.9	3.235	2.313	7.2	20.9	17 W	6*	9*
1 6	17 30.74	−22 26.0	3.147	2.269	9.5	20.9	22 W	8*	14*
1 16	17 52.62	−22 30.9	3.050	2.224	11.8	20.9	27 W	10*	19*
1 26	18 14.92	−22 23.8	2.944	2.179	14.1	20.8	33 W	11*	25*
2 5	18 37.58	−22 4.0	2.830	2.133	16.3	20.8	37 W	12*	30*
2 15	19 0.53	−21 31.1	2.711	2.087	18.5	20.7	42 W	13*	35*
2 25	19 23.69	−20 44.6	2.586	2.040	20.7	20.6	47 W	14*	40*
3 7	19 47.03	−19 44.2	2.458	1.994	22.8	20.5	51 W	15*	45*
3 17	20 10.50	−18 30.0	2.328	1.947	24.9	20.4	56 W	15*	49*
3 27	20 34.04	−17 2.1	2.197	1.901	27.0	20.3	60 W	16*	53*
4 6	20 57.67	−15 20.6	2.068	1.855	28.9	20.2	64 W	17*	57*
4 16	21 21.38	−13 26.1	1.939	1.810	30.8	20.0	67 W	19*	61*
4 26	21 45.16	−11 19.2	1.814	1.765	32.6	19.9	71 W	20*	64*
5 6	22 9.08	− 9 0.7	1.694	1.722	34.3	19.7	74 W	22*	66*
5 16	22 33.15	− 6 31.8	1.578	1.681	36.0	19.6	78 W	24*	67*
5 26	22 57.42	− 3 54.1	1.467	1.642	37.5	19.4	81 W	27*	67*
6 5	23 21.95	− 1 9.2	1.364	1.605	38.9	19.3	83 W	30*	65*
6 15	23 46.75	+ 1 40.2	1.266	1.570	40.2	19.1	86 W	34*	62
6 25	0 11.82	+ 4 31.2	1.176	1.540	41.3	18.9	89 W	39*	59
7 5	0 37.15	+ 7 20.4	1.094	1.513	42.2	18.7	91 W	44*	57
7 10	0 49.87	+ 8 43.1	1.055	1.501	42.6	18.7	93 W	46*	55
7 15	1 2.60	+10 3.7	1.018	1.490	42.9	18.6	94 W	49*	54
7 20	1 15.31	+11 21.8	0.982	1.480	43.1	18.5	96 W	51*	53
7 25	1 27.97	+12 36.8	0.948	1.471	43.3	18.4	97 W	54*	51
7 30	1 40.54	+13 48.3	0.916	1.464	43.3	18.3	98 W	56*	50
8 4	1 52.97	+14 55.7	0.885	1.458	43.3	18.2	100 W	58*	49
8 9	2 5.18	+15 58.5	0.856	1.453	43.1	18.1	102 W	60*	48
8 14	2 17.10	+16 56.1	0.828	1.450	42.8	18.1	103 W	62*	47
8 19	2 28.64	+17 48.3	0.801	1.448	42.4	18.0	105 W	63*	46
8 24	2 39.74	+18 34.8	0.776	1.447	41.8	17.9	107 W	64	45
8 29	2 50.30	+19 15.4	0.751	1.448	41.1	17.8	110 W	64	45
9 3	3 0.18	+19 49.9	0.728	1.450	40.1	17.7	112 W	65	44
9 8	3 9.28	+20 18.0	0.707	1.453	39.0	17.6	115 W	65	44
9 13	3 17.48	+20 39.7	0.686	1.458	37.7	17.5	118 W	66	43
9 18	3 24.68	+20 55.2	0.667	1.464	36.1	17.4	121 W	66	43
9 23	3 30.76	+21 4.5	0.649	1.471	34.3	17.3	124 W	66	43
10 3	3 39.23	+21 4.9	0.619	1.489	29.8	17.1	132 W	66	43
10 13	3 42.34	+20 42.1	0.597	1.512	24.3	16.9	141 W	66	43
10 23	3 40.34	+19 59.1	0.587	1.538	17.7	16.7	152 W	65	44
10 28	3 37.73	+19 31.5	0.587	1.553	14.0	16.6	158 W	65	44
11 2	3 34.30	+19 1.1	0.592	1.569	10.3	16.5	164 W	64	45
11 7	3 30.34	+18 29.0	0.601	1.586	6.4	16.4	170 W	63	46
11 12	3 26.16	+17 56.6	0.614	1.603	2.6	16.2	176 W	63	46
11 17	3 22.07	+17 25.4	0.633	1.621	1.3	16.2	178 E	62	47
11 22	3 18.32	+16 56.8	0.656	1.640	4.8	16.6	172 E	62	47
11 27	3 15.14	+16 31.8	0.684	1.659	8.2	16.8	166 E	62	47
12 2	3 12.67	+16 11.2	0.717	1.679	11.4	17.1	160 E	61	48
12 12	3 10.32	+15 45.5	0.798	1.720	16.8	17.6	150 E	61	48
12 22	3 11.63	+15 40.4	0.894	1.763	21.2	18.0	140 E	61	48
1 1	3 16.31	+15 53.2	1.006	1.808	24.4	18.4	131 E	61	48
1 11	3 23.98	+16 20.0	1.130	1.853	26.6	18.8	122 E	61	48
1 21	3 34.11	+16 56.4	1.264	1.899	28.1	19.1	115 E	62	47
455398 2003 AW_{72}									
12 27	17 9.53	−24 23.1	3.702	2.776	5.9	20.5	17 W	4*	9*
1 6	17 25.65	−25 23.3	3.689	2.814	8.0	20.6	23 W	6*	16*
1 16	17 41.41	−26 18.1	3.659	2.851	10.0	20.7	30 W	8*	23*
1 26	17 56.69	−27 8.5	3.614	2.887	11.8	20.8	37 W	9*	30*
2 5	18 11.38	−27 55.6	3.554	2.922	13.5	20.9	44 W	10*	38*
2 15	18 25.35	−28 41.0	3.480	2.957	15.0	20.9	51 W	10*	45*
2 25	18 38.44	−29 26.0	3.393	2.991	16.3	20.9	58 W	10*	52*
3 7	18 50.51	−30 12.5	3.296	3.024	17.4	20.9	66 W	11*	59*
3 17	19 1.38	−31 2.1	3.190	3.056	18.2	20.9	73 W	10*	67*
3 27	19 10.82	−31 56.8	3.078	3.087	18.6	20.8	81 W	10*	74*
4 6	19 18.64	−32 58.2	2.963	3.118	18.7	20.8	89 W	10*	80*
4 16	19 24.56	−34 7.8	2.847	3.148	18.4	20.7	98 W	10*	82

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
455398 2003 AW_{72} *(continuation)*									
4 26	19 28.28	−35 26.6	2.735	3.177	17.6	20.6	107 W	9*	81
5 6	19 29.53	−36 54.5	2.630	3.205	16.4	20.5	116 W	8*	79
5 16	19 28.00	−38 30.1	2.538	3.232	14.8	20.4	126 W	6	77
5 26	19 23.53	−40 10.1	2.462	3.258	12.7	20.3	135 W	5	76
5 31	19 20.18	−41 0.2	2.431	3.271	11.6	20.2	140 W	4	75
6 5	19 16.11	−41 49.3	2.406	3.283	10.4	20.2	144 W	3	74
6 10	19 11.35	−42 36.5	2.387	3.296	9.3	20.1	149 W	2	73
6 15	19 5.99	−43 21.0	2.375	3.308	8.2	20.0	152 W	2	73
6 20	19 0.13	−44 1.8	2.369	3.320	7.3	20.0	155 W	1	72
6 25	18 53.88	−44 38.2	2.371	3.332	6.8	20.0	157 W	—	71
6 30	18 47.40	−45 9.6	2.380	3.343	6.6	20.0	158 W	—	71
7 5	18 40.82	−45 35.5	2.395	3.355	6.8	20.0	157 E	—	70
7 10	18 34.31	−45 55.8	2.418	3.366	7.4	20.1	155 E	—	70
7 15	18 28.03	−46 10.6	2.447	3.377	8.2	20.2	152 E	—	70
7 20	18 22.13	−46 20.0	2.483	3.387	9.2	20.2	148 E	—	70
7 25	18 16.74	−46 24.6	2.526	3.398	10.2	20.3	144 E	—	70
7 30	18 11.96	−46 24.8	2.574	3.408	11.2	20.4	139 E	—	70
8 4	18 7.85	−46 21.4	2.627	3.418	12.2	20.5	135 E	—	70
8 9	18 4.48	−46 14.8	2.685	3.428	13.0	20.6	130 E	—	70
8 14	18 1.87	−46 5.9	2.747	3.438	13.8	20.7	126 E	—	70
8 19	18 0.03	−45 55.0	2.813	3.447	14.6	20.8	121 E	—	70
8 24	17 58.96	−45 42.9	2.882	3.456	15.1	20.8	117 E	—	70
8 29	17 58.62	−45 29.7	2.954	3.465	15.6	20.9	112 E	—	71
9 3	17 59.00	−45 16.0	3.028	3.474	16.0	21.0	108 E	—	71
9 8	18 0.05	−45 2.0	3.104	3.483	16.3	21.0	104 E	—	71
9 13	18 1.75	−44 47.9	3.181	3.491	16.5	21.1	99 E	—	71
9 18	18 4.05	−44 33.8	3.259	3.499	16.6	21.2	95 E	—	71*
9 23	18 6.90	−44 19.8	3.337	3.507	16.6	21.2	91 E	—	71*
9 28	18 10.27	−44 6.0	3.415	3.515	16.5	21.3	87 E	1*	70*
10 3	18 14.11	−43 52.4	3.493	3.522	16.4	21.3	83 E	1*	69*
10 8	18 18.40	−43 38.9	3.570	3.530	16.2	21.4	80 E	1*	67*
10 13	18 23.10	−43 25.6	3.646	3.537	15.9	21.4	76 E	1*	65*
10 18	18 28.16	−43 12.4	3.721	3.544	15.5	21.5	72 E	1*	62*
10 23	18 33.57	−42 59.3	3.793	3.550	15.1	21.5	68 E	1*	59*
126410 2002 BU_{18}									
12 27	17 9.61	− 9 44.6	3.839	2.953	7.3	20.6	22 W	16*	3*
1 6	17 25.06	− 9 59.4	3.755	2.919	9.0	20.6	28 W	19*	10*
1 16	17 40.57	−10 5.8	3.657	2.884	10.8	20.6	33 W	22*	17*
1 26	17 56.03	−10 3.6	3.545	2.848	12.6	20.6	39 W	24*	25*
2 5	18 11.34	− 9 53.0	3.422	2.812	14.3	20.5	45 W	26*	32*
2 15	18 26.41	− 9 34.1	3.289	2.774	16.0	20.5	51 W	27*	39*
2 25	18 41.12	− 9 7.4	3.146	2.736	17.7	20.4	57 W	29*	45*
3 7	18 55.37	− 8 33.4	2.996	2.697	19.2	20.3	63 W	30*	52*
3 17	19 9.04	− 7 52.7	2.840	2.658	20.5	20.2	69 W	32*	58*
3 27	19 21.99	− 7 6.5	2.679	2.617	21.7	20.1	76 W	33*	63*
4 6	19 34.09	− 6 15.7	2.515	2.576	22.6	19.9	82 W	34*	67*
4 16	19 45.16	− 5 21.9	2.350	2.535	23.3	19.8	89 W	36*	69*
4 26	19 55.01	− 4 27.0	2.185	2.493	23.7	19.6	96 W	38*	68
5 6	20 3.44	− 3 33.1	2.024	2.450	23.7	19.4	103 W	40*	68
5 16	20 10.16	− 2 43.2	1.866	2.407	23.3	19.2	110 W	41*	67
5 26	20 14.91	− 2 0.9	1.715	2.363	22.3	18.9	118 W	43*	66
6 5	20 17.40	− 1 30.5	1.574	2.319	20.8	18.6	126 W	43	66
6 10	20 17.70	− 1 21.4	1.507	2.297	19.7	18.5	130 W	44	65
6 15	20 17.32	− 1 17.3	1.444	2.275	18.6	18.3	135 W	44	65
6 20	20 16.27	− 1 19.1	1.385	2.253	17.2	18.2	139 W	44	65
6 25	20 14.53	− 1 27.4	1.329	2.231	15.7	18.0	144 W	44	65
7 5	20 9.06	− 2 6.3	1.232	2.186	12.3	17.7	153 W	43	66
7 15	20 1.26	− 3 18.1	1.156	2.142	9.0	17.4	161 W	42	67
7 25	19 52.02	− 5 3.1	1.103	2.098	7.6	17.2	164 E	40	69
7 30	19 47.23	− 6 6.6	1.085	2.076	8.4	17.1	163 E	39	70
8 4	19 42.55	− 7 16.1	1.073	2.054	10.0	17.2	159 E	38	71
8 9	19 38.18	− 8 30.3	1.067	2.033	12.1	17.2	155 E	36	73
8 14	19 34.31	− 9 47.7	1.067	2.011	14.4	17.3	150 E	35	74
8 19	19 31.09	−11 6.6	1.073	1.990	16.8	17.3	145 E	34	75
8 24	19 28.66	−12 25.6	1.083	1.969	19.2	17.4	140 E	33	76
8 29	19 27.11	−13 43.3	1.097	1.948	21.4	17.5	135 E	31	78
9 3	19 26.52	−14 58.6	1.115	1.928	23.5	17.6	130 E	30	79
9 8	19 26.94	−16 10.7	1.137	1.907	25.5	17.6	125 E	29	80
9 13	19 28.40	−17 18.7	1.162	1.887	27.2	17.7	121 E	28	81
9 23	19 34.38	−19 20.4	1.218	1.849	30.1	17.9	112 E	26	83
10 3	19 44.25	−21 0.7	1.280	1.812	32.3	18.0	105 E	24	85
10 13	19 57.66	−22 18.1	1.346	1.777	33.8	18.1	97 E	23	86
10 23	20 14.18	−23 11.4	1.414	1.744	34.8	18.2	91 E	22	84*
11 2	20 33.34	−23 40.1	1.481	1.714	35.2	18.3	85 E	21	78*
11 12	20 54.71	−23 43.9	1.548	1.687	35.3	18.3	80 E	21	72*
11 22	21 17.83	−23 22.9	1.613	1.663	35.1	18.4	75 E	22	67*
12 2	21 42.29	−22 37.6	1.677	1.643	34.5	18.4	71 E	22	61*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
126410 2002 BU_{18} *(continuation)*									
12 7	21 54.91	−22 6.1	1.709	1.634	34.2	18.4	69 E	23	59*
12 12	22 7.73	−21 29.0	1.740	1.626	33.8	18.5	67 E	23*	56*
12 17	22 20.72	−20 46.5	1.770	1.619	33.4	18.5	65 E	24*	54*
12 22	22 33.83	−19 58.8	1.800	1.614	32.9	18.5	63 E	25*	52*
12 27	22 47.05	−19 6.2	1.831	1.609	32.4	18.5	61 E	25*	49*
1 1	23 0.34	−18 9.1	1.861	1.606	31.9	18.5	60 E	26*	47*
1 6	23 13.69	−17 7.8	1.891	1.603	31.3	18.5	58 E	27*	45*
1 11	23 27.07	−16 2.6	1.921	1.602	30.8	18.6	56 E	27*	43*
1 16	23 40.47	−14 54.0	1.951	1.602	30.2	18.6	55 E	28*	42*
1 21	23 53.87	−13 42.4	1.981	1.602	29.5	18.6	53 E	28*	40*
47199 1999 TY_{204}									
12 27	17 9.87	−25 27.9	2.841	1.922	8.6	20.0	17 W	3*	10*
1 6	17 36.65	−25 56.3	2.780	1.895	10.7	20.0	21 W	4*	14*
1 16	18 3.98	−26 7.8	2.712	1.868	12.9	20.0	25 W	5*	18*
1 26	18 31.71	−26 1.2	2.641	1.842	15.0	20.0	29 W	6*	22*
2 5	18 59.67	−25 36.2	2.566	1.817	17.1	19.9	33 W	7*	27*
2 15	19 27.68	−24 52.4	2.488	1.793	19.1	19.9	37 W	7*	30*
2 25	19 55.58	−23 50.2	2.408	1.770	21.1	19.9	40 W	7*	34*
3 7	20 23.21	−22 30.4	2.327	1.749	23.1	19.8	44 W	8*	38*
3 17	20 50.46	−20 54.2	2.246	1.729	24.9	19.8	47 W	8*	41*
3 27	21 17.20	−19 3.2	2.164	1.711	26.7	19.7	50 W	9*	44*
4 6	21 43.39	−16 59.3	2.083	1.695	28.4	19.7	54 W	10*	48*
4 16	22 8.97	−14 44.4	2.002	1.681	30.0	19.6	57 W	11*	51*
4 26	22 33.90	−12 21.0	1.922	1.670	31.5	19.6	60 W	12*	54*
5 6	22 58.19	− 9 51.4	1.844	1.660	32.9	19.5	63 W	14*	57*
5 16	23 21.81	− 7 17.9	1.767	1.653	34.2	19.4	67 W	16*	60*
5 26	23 44.73	− 4 43.1	1.691	1.649	35.3	19.4	70 W	19*	61*
6 5	0 6.93	− 2 9.1	1.615	1.647	36.2	19.3	74 W	23*	62*
6 15	0 28.33	+ 0 21.8	1.541	1.647	37.0	19.2	77 W	27*	62*
6 25	0 48.84	+ 2 47.3	1.467	1.650	37.5	19.1	81 W	32*	61*
7 5	1 8.32	+ 5 5.9	1.394	1.656	37.7	19.0	85 W	38*	59
7 15	1 26.55	+ 7 15.7	1.322	1.664	37.7	18.9	90 W	44*	57
7 25	1 43.25	+ 9 15.3	1.250	1.675	37.2	18.8	95 W	49*	55
8 4	1 58.07	+11 3.6	1.180	1.687	36.3	18.7	100 W	54*	53
8 14	2 10.53	+12 39.5	1.111	1.702	34.8	18.5	106 W	58*	51
8 24	2 20.12	+14 1.9	1.046	1.719	32.7	18.4	113 W	59	50
9 3	2 26.25	+15 9.9	0.985	1.738	29.8	18.2	121 W	60	49
9 13	2 28.36	+16 1.8	0.932	1.758	25.9	18.0	130 W	61	48
9 23	2 26.14	+16 35.7	0.889	1.780	21.1	17.7	140 W	62	47
10 3	2 19.75	+16 50.1	0.860	1.803	15.4	17.5	151 W	62	47
10 8	2 15.21	+16 49.6	0.852	1.815	12.3	17.4	157 W	62	47
10 13	2 10.01	+16 44.4	0.850	1.828	9.1	17.3	163 W	62	47
10 18	2 4.40	+16 34.9	0.852	1.840	5.8	17.1	169 W	62	47
10 23	1 58.63	+16 22.0	0.860	1.853	3.0	17.0	174 W	61	48
10 28	1 52.95	+16 6.7	0.874	1.866	2.6	17.0	175 E	61	48
11 2	1 47.60	+15 50.1	0.894	1.879	5.2	17.3	170 E	61	48
11 7	1 42.81	+15 33.4	0.920	1.893	8.2	17.5	164 E	61	48
11 12	1 38.76	+15 18.0	0.951	1.906	11.0	17.7	158 E	60	49
11 17	1 35.57	+15 4.8	0.987	1.920	13.7	17.9	153 E	60	49
11 22	1 33.29	+14 54.5	1.028	1.934	16.1	18.1	147 E	60	49
12 2	1 31.58	+14 44.9	1.124	1.962	20.2	18.4	137 E	60	49
12 12	1 33.50	+14 51.1	1.235	1.990	23.3	18.8	127 E	60	49
12 22	1 38.66	+15 12.8	1.357	2.018	25.4	19.1	118 E	60	49
1 1	1 46.55	+15 47.6	1.489	2.047	26.8	19.3	110 E	61	48*
1 11	1 56.71	+16 33.1	1.627	2.075	27.6	19.6	102 E	62	46*
1 21	2 8.75	+17 26.5	1.770	2.103	27.8	19.8	95 E	62	43*
240313 2003 GO_{35}									
12 27	17 10.06	−31 49.4	2.549	1.645	10.8	21.1	18 W	—	12*
1 1	17 26.58	−32 38.3	2.525	1.635	11.8	21.1	20 W	—	14*
1 6	17 43.50	−33 20.8	2.501	1.626	12.8	21.1	21 W	—	15*
1 11	18 0.80	−33 56.5	2.477	1.618	13.7	21.1	23 W	—	17*
1 16	18 18.41	−34 25.0	2.454	1.611	14.6	21.1	24 W	—	18*
1 21	18 36.28	−34 45.9	2.431	1.604	15.5	21.1	26 W	—	19*
1 26	18 54.35	−34 59.0	2.409	1.598	16.4	21.1	27 W	—	21*
1 31	19 12.56	−35 4.0	2.387	1.593	17.2	21.1	29 W	—	22*
2 5	19 30.82	−35 0.9	2.366	1.589	18.0	21.1	30 W	—	23*
2 10	19 49.07	−34 49.7	2.345	1.586	18.8	21.1	31 W	—	24*
2 15	20 7.22	−34 30.5	2.326	1.584	19.6	21.1	32 W	—	25*
2 20	20 25.20	−34 3.7	2.307	1.583	20.3	21.1	34 W	—	26*
2 25	20 42.95	−33 29.4	2.288	1.582	21.0	21.1	35 W	—	27*
3 2	21 0.40	−32 48.3	2.271	1.583	21.7	21.1	36 W	—	28*
3 7	21 17.52	−32 0.7	2.254	1.584	22.3	21.1	37 W	—	28*
3 12	21 34.26	−31 7.3	2.238	1.587	23.0	21.1	39 W	—	29*
3 17	21 50.59	−30 8.6	2.222	1.590	23.6	21.2	40 W	—	30*
3 22	22 6.48	−29 5.4	2.207	1.594	24.2	21.2	41 W	—	31*
3 27	22 21.91	−27 58.3	2.192	1.599	24.7	21.2	42 W	—	33*
4 1	22 36.89	−26 47.9	2.178	1.605	25.3	21.2	43 W	—	34*
4 6	22 51.42	−25 34.8	2.164	1.612	25.8	21.2	45 W	—	35*
4 11	23 5.49	−24 19.7	2.150	1.619	26.3	21.2	46 W	—	36*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
240313 2003 GO_{35} *(continuation)*									
4 16	23 19.12	−23 3.1	2.135	1.628	26.9	21.2	47 W	—	38*
4 21	23 32.30	−21 45.6	2.120	1.637	27.3	21.2	48 W	—	40*
4 26	23 45.05	−20 27.6	2.106	1.646	27.8	21.2	50 W	—	41*
5 1	23 57.39	−19 9.6	2.090	1.657	28.3	21.2	51 W	—	43*
5 6	0 9.33	−17 51.9	2.074	1.668	28.7	21.3	53 W	—	45*
5 11	0 20.88	−16 35.1	2.057	1.680	29.2	21.3	54 W	—	47*
5 16	0 32.04	−15 19.3	2.039	1.693	29.6	21.3	56 W	—	49*
5 21	0 42.81	−14 4.9	2.021	1.706	30.0	21.3	57 W	1*	51*
5 26	0 53.22	−12 52.2	2.001	1.719	30.4	21.3	59 W	2*	53*
5 31	1 3.26	−11 41.2	1.980	1.733	30.8	21.3	61 W	4*	55*
6 5	1 12.94	−10 32.3	1.958	1.748	31.1	21.3	63 W	6*	57*
6 10	1 22.26	− 9 25.5	1.934	1.763	31.4	21.3	65 W	8*	59*
6 15	1 31.20	− 8 21.0	1.909	1.778	31.7	21.3	67 W	11*	61*
6 20	1 39.76	− 7 18.9	1.882	1.794	32.0	21.3	69 W	13*	62*
6 25	1 47.93	− 6 19.2	1.855	1.810	32.2	21.3	72 W	16*	64*
6 30	1 55.70	− 5 22.0	1.825	1.827	32.3	21.3	74 W	19*	65*
7 5	2 3.05	− 4 27.3	1.795	1.844	32.4	21.3	76 W	22*	65*
7 10	2 9.96	− 3 35.1	1.763	1.861	32.4	21.2	79 W	25*	66*
7 15	2 16.40	− 2 45.5	1.729	1.878	32.4	21.2	82 W	29*	66*
7 20	2 22.34	− 1 58.4	1.695	1.896	32.3	21.2	85 W	32*	66*
7 25	2 27.75	− 1 13.6	1.660	1.914	32.0	21.2	88 W	35*	65
7 30	2 32.59	− 0 31.1	1.623	1.931	31.7	21.1	91 W	38*	65
8 4	2 36.81	+ 0 9.0	1.586	1.950	31.3	21.1	95 W	41*	64
8 9	2 40.36	+ 0 47.1	1.549	1.968	30.7	21.0	98 W	43*	63
8 14	2 43.20	+ 1 23.0	1.511	1.986	29.9	21.0	102 W	45*	63
8 19	2 45.26	+ 1 57.1	1.474	2.004	29.0	20.9	106 W	47*	62
8 24	2 46.49	+ 2 29.5	1.437	2.023	28.0	20.9	110 W	47	62
8 29	2 46.85	+ 3 0.3	1.401	2.041	26.7	20.8	115 W	48	61
9 3	2 46.27	+ 3 29.7	1.367	2.060	25.2	20.7	119 W	48	61
9 8	2 44.71	+ 3 57.8	1.335	2.078	23.6	20.6	124 W	49	60
9 13	2 42.16	+ 4 24.8	1.305	2.097	21.7	20.5	130 W	49	60
9 18	2 38.60	+ 4 50.9	1.280	2.115	19.5	20.4	135 W	50	59
9 23	2 34.08	+ 5 16.2	1.258	2.134	17.2	20.4	141 W	50	59
10 3	2 22.41	+ 6 4.9	1.229	2.171	11.9	20.2	153 W	51	58
10 13	2 8.13	+ 6 51.6	1.225	2.207	6.2	19.9	166 W	52	57
10 23	1 52.87	+ 7 37.2	1.249	2.243	1.7	19.7	176 W	53	56
11 2	1 38.39	+ 8 22.8	1.303	2.279	5.9	20.1	166 E	53	56
11 12	1 26.23	+ 9 10.1	1.384	2.314	10.9	20.5	154 E	54	55
11 22	1 17.34	+10 0.8	1.490	2.349	15.0	20.9	142 E	55	54
12 2	1 12.03	+10 56.0	1.617	2.383	18.2	21.2	131 E	56	53
12 12	1 10.17	+11 56.6	1.759	2.416	20.5	21.5	121 E	57	52
85989 1999 JD_6									
12 27	17 10.11	−13 31.3	2.235	1.353	14.4	20.3	20 W	13*	5*
1 6	17 35.67	−13 58.4	2.235	1.389	16.3	20.4	23 W	14*	9*
1 16	18 0.74	−14 10.9	2.218	1.415	18.5	20.5	27 W	16*	14*
1 26	18 25.45	−14 9.2	2.185	1.433	20.7	20.6	31 W	17*	20*
2 5	18 49.95	−13 54.2	2.135	1.441	23.0	20.6	35 W	18*	25*
2 15	19 14.40	−13 26.1	2.070	1.440	25.4	20.6	39 W	18*	30*
2 25	19 38.97	−12 45.3	1.992	1.431	27.9	20.6	43 W	19*	34*
3 7	20 3.88	−11 52.1	1.901	1.412	30.6	20.6	46 W	19*	38*
3 17	20 29.45	−10 46.0	1.799	1.384	33.3	20.5	50 W	20*	42*
3 27	20 56.07	− 9 26.7	1.687	1.346	36.2	20.4	53 W	20*	45*
4 6	21 24.29	− 7 52.8	1.570	1.298	39.4	20.2	55 W	20*	48*
4 16	21 54.90	− 6 2.2	1.448	1.240	43.0	20.0	57 W	20*	50*
4 26	22 28.92	− 3 52.0	1.327	1.171	47.0	19.8	58 W	20*	51*
5 6	23 7.83	− 1 17.8	1.211	1.090	51.7	19.6	58 W	19*	50*
5 16	23 53.47	+ 1 44.6	1.107	0.997	57.2	19.4	56 W	18*	48*
5 26	0 47.83	+ 5 15.7	1.028	0.889	63.3	19.2	52 W	16*	43*
5 31	1 18.77	+ 7 9.6	1.001	0.829	66.5	19.0	49 W	15*	41*
6 5	1 52.29	+ 9 6.0	0.986	0.766	69.5	18.9	45 W	13*	37*
6 10	2 28.24	+11 1.1	0.985	0.699	71.9	18.8	41 W	11*	33*
6 15	3 6.30	+12 50.9	0.999	0.628	73.3	18.7	36 W	9*	29*
6 20	3 46.13	+14 32.1	1.031	0.554	72.8	18.4	31 W	7*	24*
6 25	4 27.50	+16 2.9	1.080	0.480	69.5	18.1	26 W	5*	19*
6 30	5 10.55	+17 23.9	1.146	0.409	61.5	17.6	21 W	2*	14*
7 5	5 55.79	+18 35.4	1.222	0.352	47.2	17.1	15 W	—	8*
7 10	6 43.36	+19 33.8	1.297	0.325	26.6	16.4	8 W	—	2*
7 15	7 31.57	+20 7.3	1.354	0.340	5.7	15.9	2 W	—	—
7 17	7 50.36	+20 10.9	1.371	0.356	4.7	15.9	2 E	—	—
7 19	8 8.63	+20 8.4	1.386	0.378	10.0	16.3	4 E	—	—
7 21	8 26.28	+19 59.9	1.399	0.402	15.1	16.7	6 E	—	—
7 23	8 43.28	+19 45.8	1.411	0.429	19.4	17.0	8 E	—	1*
7 25	8 59.61	+19 26.6	1.422	0.458	22.8	17.3	10 E	—	3*
7 30	9 37.59	+18 19.3	1.451	0.532	28.5	17.8	14 E	3*	7*
8 4	10 11.79	+16 51.3	1.482	0.606	31.3	18.2	18 E	6*	10*
8 9	10 42.66	+15 9.8	1.518	0.678	32.5	18.5	21 E	8*	13*
8 14	11 10.63	+13 20.4	1.558	0.746	32.7	18.8	23 E	9*	15*
8 19	11 36.10	+11 27.4	1.601	0.811	32.2	19.0	25 E	11*	17*

85989 1999 JD_6 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
8 24	11 59.43	+ 9 33.9	1.648	0.871	31.3	19.2	27 E	11*	18*
8 29	12 20.96	+ 7 42.0	1.697	0.928	30.3	19.4	28 E	12*	19*
9 3	12 40.95	+ 5 52.9	1.747	0.981	29.0	19.5	28 E	13*	20*
9 8	12 59.65	+ 4 7.6	1.799	1.031	27.7	19.7	28 E	13*	20*
9 13	13 17.27	+ 2 26.7	1.850	1.077	26.4	19.8	28 E	13*	20*
9 23	13 49.87	− 0 41.3	1.952	1.160	23.6	20.0	28 E	13*	19*
10 3	14 19.86	− 3 30.5	2.049	1.231	20.9	20.1	26 E	12*	17*
10 13	14 48.03	− 6 1.5	2.139	1.290	18.2	20.2	24 E	12*	15*
10 23	15 14.94	− 8 15.1	2.218	1.339	15.6	20.3	21 E	11*	12*
11 2	15 41.02	−10 12.2	2.285	1.378	13.1	20.4	18 E	9*	8*
11 12	16 6.60	−11 53.5	2.339	1.408	10.6	20.4	15 E	8*	4*
11 22	16 31.92	−13 19.4	2.379	1.428	8.4	20.3	12 E	6*	—
12 2	16 57.17	−14 30.2	2.403	1.439	6.5	20.3	9 E	3*	—
12 12	17 22.54	−15 26.2	2.411	1.442	5.3	20.2	8 E	1*	—
12 22	17 48.14	−16 7.4	2.403	1.435	5.4	20.2	8 W	1*	—
1 1	18 14.16	−16 33.6	2.378	1.419	6.7	20.2	10 W	4*	—
1 11	18 40.72	−16 44.6	2.338	1.393	8.7	20.3	12 W	5*	1*
1 21	19 8.02	−16 39.8	2.282	1.359	11.1	20.2	15 W	6*	6*

9292 1982 UE_2

12 27	17 10.57	−24 36.3	3.190	2.266	7.2	19.9	17 W	4*	9*
1 6	17 32.66	−25 4.7	3.116	2.233	9.4	19.9	22 W	6*	15*
1 16	17 55.19	−25 22.2	3.032	2.201	11.7	19.9	27 W	7*	20*
1 26	18 18.05	−25 28.1	2.939	2.168	13.9	19.9	32 W	8*	25*
2 5	18 41.17	−25 22.1	2.839	2.134	16.1	19.9	37 W	9*	30*
2 15	19 4.47	−25 4.1	2.732	2.100	18.2	19.8	42 W	10*	36*
2 25	19 27.83	−24 34.0	2.619	2.066	20.3	19.8	46 W	10*	40*
3 7	19 51.19	−23 52.2	2.501	2.031	22.4	19.7	51 W	11*	45*
3 17	20 14.49	−22 59.0	2.381	1.997	24.3	19.6	56 W	11*	50*
3 27	20 37.63	−21 55.1	2.258	1.962	26.2	19.5	60 W	12*	54*
4 6	21 0.58	−20 41.4	2.134	1.928	27.9	19.4	65 W	12*	59*
4 16	21 23.30	−19 18.7	2.009	1.894	29.6	19.3	69 W	13*	63*
4 26	21 45.73	−17 48.3	1.886	1.861	31.1	19.2	73 W	15*	67*
5 6	22 7.87	−16 11.3	1.765	1.829	32.5	19.0	77 W	16*	71*
5 16	22 29.67	−14 29.1	1.646	1.797	33.8	18.9	81 W	18*	74*
5 26	22 51.08	−12 43.4	1.530	1.766	34.9	18.7	85 W	20*	75*
6 5	23 12.05	−10 55.8	1.418	1.737	35.7	18.5	90 W	23*	75*
6 15	23 32.49	− 9 8.0	1.310	1.710	36.4	18.3	94 W	27*	73
6 25	23 52.25	− 7 22.2	1.208	1.684	36.7	18.1	98 W	31*	71
7 5	0 11.18	− 5 40.1	1.110	1.660	36.7	17.9	103 W	35*	70
7 15	0 28.99	− 4 4.1	1.019	1.639	36.3	17.7	107 W	39*	68
7 25	0 45.33	− 2 36.3	0.933	1.620	35.4	17.5	112 W	42*	67
8 4	0 59.78	− 1 18.4	0.854	1.604	33.9	17.2	118 W	44	65
8 14	1 11.73	− 0 12.4	0.782	1.591	31.7	16.9	124 W	45	64
8 24	1 20.58	+ 0 41.0	0.718	1.581	28.6	16.6	131 W	46	63
9 3	1 25.70	+ 1 21.5	0.664	1.575	24.5	16.3	140 W	46	63
9 13	1 26.62	+ 1 50.1	0.622	1.571	19.4	16.0	149 W	47	62
9 23	1 23.45	+ 2 10.5	0.593	1.572	13.3	15.7	159 W	47	62
9 28	1 20.54	+ 2 19.1	0.585	1.573	9.9	15.6	164 W	47	62
10 3	1 16.98	+ 2 27.7	0.580	1.575	6.6	15.4	170 W	47	62
10 8	1 12.99	+ 2 36.9	0.581	1.578	3.6	15.3	174 W	48	61
10 13	1 8.87	+ 2 47.9	0.585	1.582	3.1	15.2	175 E	48	61
10 18	1 4.88	+ 3 1.4	0.595	1.587	5.7	15.4	171 E	48	61
10 23	1 1.29	+ 3 17.9	0.609	1.592	9.0	15.6	166 E	48	61
11 2	0 56.08	+ 4 1.3	0.650	1.605	15.2	16.0	155 E	49	60
11 12	0 54.41	+ 4 59.7	0.708	1.622	20.5	16.4	145 E	50	59
11 22	0 56.65	+ 6 12.2	0.781	1.640	24.8	16.8	136 E	51	58
12 2	1 2.53	+ 7 36.4	0.865	1.662	28.0	17.1	128 E	53	56
12 12	1 11.63	+ 9 9.7	0.961	1.686	30.3	17.5	120 E	54	55
12 22	1 23.39	+10 49.4	1.065	1.712	31.9	17.8	113 E	56	53
1 1	1 37.31	+12 32.6	1.177	1.739	32.8	18.0	107 E	58	51*
1 11	1 53.02	+14 16.9	1.296	1.768	33.1	18.3	101 E	59	48*
1 21	2 10.16	+16 0.2	1.420	1.799	33.0	18.5	95 E	61	45*

397131 2005 WS_{56}

12 27	17 10.64	−23 37.4	3.088	2.164	7.5	21.4	17 W	4*	9*
1 6	17 33.79	−23 46.4	3.016	2.133	9.8	21.4	22 W	7*	14*
1 16	17 57.29	−23 42.0	2.937	2.102	12.0	21.4	26 W	8*	19*
1 26	18 21.03	−23 23.6	2.849	2.070	14.2	21.4	31 W	10*	24*
2 5	18 44.90	−22 50.8	2.755	2.038	16.4	21.3	36 W	11*	29*
2 15	19 8.82	−22 3.1	2.655	2.006	18.6	21.3	40 W	12*	34*
2 25	19 32.67	−21 0.6	2.550	1.974	20.7	21.2	45 W	13*	38*
3 7	19 56.36	−19 43.6	2.442	1.943	22.7	21.2	49 W	14*	43*
3 17	20 19.84	−18 12.3	2.331	1.912	24.7	21.1	53 W	15*	47*
3 27	20 43.01	−16 27.5	2.219	1.881	26.6	21.0	57 W	16*	51*
4 6	21 5.87	−14 30.0	2.106	1.851	28.4	20.9	62 W	17*	55*
4 16	21 28.37	−12 20.7	1.994	1.822	30.1	20.8	65 W	19*	59*
4 26	21 50.47	−10 0.9	1.882	1.794	31.6	20.7	69 W	20*	62*
5 6	22 12.19	− 7 31.8	1.773	1.768	33.1	20.6	73 W	23*	64*
5 16	22 33.51	− 4 55.0	1.666	1.742	34.4	20.4	77 W	26*	65*

397131 2005 WS_{56} *(continuation)*

5 26	22 54.38	− 2 12.2	1.562	1.719	35.6	20.3	81 W	29*	65*
6 5	23 14.80	+ 0 34.9	1.462	1.697	36.5	20.2	84 W	33*	63*
6 15	23 34.70	+ 3 24.1	1.365	1.678	37.2	20.0	88 W	37*	61
6 25	23 53.97	+ 6 13.0	1.273	1.660	37.7	19.8	92 W	43*	58
7 5	0 12.48	+ 8 59.3	1.185	1.645	37.9	19.7	96 W	48*	55
7 15	0 29.99	+11 40.1	1.101	1.633	37.7	19.5	101 W	54*	52
7 25	0 46.20	+14 12.1	1.022	1.623	37.1	19.3	106 W	58*	50
7 30	0 53.71	+15 23.9	0.984	1.620	36.5	19.2	108 W	60*	49
8 4	1 0.72	+16 32.3	0.948	1.617	35.9	19.1	111 W	62	47
8 9	1 7.18	+17 36.6	0.913	1.614	35.1	19.0	114 W	63	46
8 14	1 12.99	+18 36.3	0.879	1.613	34.1	18.9	117 W	64	45
8 19	1 18.10	+19 30.9	0.847	1.612	32.9	18.8	120 W	65	44
8 24	1 22.43	+20 19.8	0.817	1.612	31.6	18.6	123 W	65	44
8 29	1 25.90	+21 2.3	0.789	1.613	30.0	18.5	127 W	66	43
9 3	1 28.44	+21 37.5	0.762	1.614	28.2	18.4	131 W	67	42
9 8	1 29.97	+22 4.7	0.739	1.617	26.1	18.3	135 W	67	42
9 13	1 30.49	+22 22.9	0.717	1.620	23.9	18.1	139 W	67	42
9 18	1 30.02	+22 31.7	0.699	1.623	21.4	18.0	144 W	68	41
9 23	1 28.62	+22 30.5	0.685	1.628	18.7	17.9	149 W	68	41
9 28	1 26.38	+22 19.1	0.673	1.633	15.8	17.8	154 W	67	42
10 3	1 23.46	+21 57.4	0.666	1.639	12.9	17.7	158 W	67	42
10 8	1 20.06	+21 26.1	0.663	1.645	10.2	17.5	163 W	66	43
10 13	1 16.45	+20 46.6	0.665	1.652	7.9	17.5	167 W	66	43
10 18	1 12.90	+20 0.6	0.672	1.660	6.8	17.4	169 E	65	44
10 23	1 9.64	+19 10.3	0.683	1.669	7.4	17.5	168 E	64	45
10 28	1 6.88	+18 18.1	0.700	1.678	9.3	17.7	164 E	63	46
11 2	1 4.79	+17 26.0	0.721	1.687	11.7	17.8	160 E	62	47
11 7	1 3.52	+16 36.4	0.747	1.697	14.3	18.0	155 E	62	47
11 12	1 3.14	+15 50.9	0.777	1.708	16.8	18.2	150 E	61	48
11 17	1 3.67	+15 10.9	0.812	1.719	19.2	18.4	145 E	60	49
11 22	1 5.12	+14 37.2	0.850	1.731	21.3	18.6	140 E	60	49
12 2	1 10.55	+13 49.5	0.938	1.755	24.9	18.9	132 E	59	50
12 12	1 19.03	+13 28.1	1.039	1.781	27.5	19.3	123 E	58	51
12 22	1 30.06	+13 29.8	1.149	1.808	29.3	19.6	116 E	58	51
1 1	1 43.12	+13 50.3	1.268	1.837	30.5	19.9	109 E	59	50*
1 11	1 57.86	+14 25.1	1.394	1.866	31.0	20.1	102 E	59	48*
1 21	2 13.92	+15 10.1	1.525	1.896	31.1	20.3	96 E	60	46*

480808 1994 XL_1

12 27	17 10.77	−29 41.4	1.144	0.360	55.1	21.0	17 W	—	11*
12 29	17 29.40	−28 23.9	1.176	0.342	48.4	20.7	15 W	—	9*
12 31	17 48.06	−26 55.4	1.208	0.328	40.9	20.5	13 W	—	6*
1 2	18 6.69	−25 17.5	1.237	0.320	32.8	20.3	10 W	—	4*
1 4	18 25.18	−23 32.2	1.263	0.318	24.8	20.1	8 W	—	1*
1 6	18 43.40	−21 42.0	1.285	0.322	17.6	19.9	6 W	—	—
1 8	19 1.22	−19 49.5	1.303	0.331	12.9	19.8	4 W	—	—
1 10	19 18.54	−17 56.8	1.318	0.346	12.4	19.9	4 W	—	—
1 12	19 35.29	−16 5.8	1.330	0.364	15.3	20.2	6 E	—	—
1 14	19 51.46	−14 17.5	1.340	0.386	19.1	20.4	7 E	1*	—
1 16	20 7.04	−12 32.7	1.348	0.409	22.8	20.7	9 E	3*	—
1 21	20 43.60	− 8 28.0	1.367	0.473	29.7	21.2	14 E	8*	—
1 26	21 17.20	− 4 48.4	1.386	0.537	33.7	21.7	18 E	12*	—
1 31	21 48.31	− 1 33.1	1.409	0.600	35.6	22.0	21 E	15*	—
2 5	22 17.31	+ 1 19.7	1.436	0.658	36.3	22.3	23 E	17*	—

108182 2001 HY_{13}

12 27	17 10.95	−26 26.4	2.824	1.904	8.6	20.4	17 W	2*	10*
1 6	17 38.25	−27 3.8	2.760	1.873	10.7	20.4	21 W	3*	14*
1 16	18 6.29	−27 23.8	2.690	1.843	12.9	20.4	25 W	4*	18*
1 26	18 34.90	−27 25.2	2.617	1.813	15.0	20.4	28 W	5*	22*
2 5	19 3.90	−27 7.1	2.540	1.785	17.1	20.4	32 W	5*	26*
2 15	19 33.12	−26 29.0	2.462	1.757	19.2	20.4	36 W	5*	30*
2 25	20 2.33	−25 31.0	2.383	1.732	21.1	20.3	39 W	5*	33*
3 7	20 31.38	−24 13.7	2.303	1.707	23.1	20.3	42 W	5*	36*
3 17	21 0.11	−22 38.2	2.224	1.685	25.0	20.2	46 W	6*	39*
3 27	21 28.37	−20 46.3	2.146	1.665	26.7	20.2	49 W	6*	42*
4 6	21 56.08	−18 39.7	2.069	1.647	28.5	20.1	52 W	7*	45*
4 16	22 23.19	−16 20.9	1.994	1.631	30.1	20.1	55 W	8*	48*
4 26	22 49.64	−13 52.4	1.920	1.618	31.6	20.0	57 W	9*	51*
5 6	23 15.43	−11 16.8	1.849	1.608	33.0	20.0	60 W	10*	54*
5 16	23 40.54	− 8 36.8	1.780	1.601	34.3	19.9	63 W	13*	57*
5 26	0 4.95	− 5 55.2	1.712	1.597	35.4	19.8	66 W	15*	59*
6 5	0 28.65	− 3 14.2	1.645	1.595	36.4	19.8	69 W	19*	60*
6 15	0 51.59	− 0 36.5	1.580	1.597	37.3	19.7	72 W	23*	61*
6 25	1 13.68	+ 1 56.0	1.514	1.602	37.9	19.6	76 W	28*	60*
7 5	1 34.83	+ 4 21.5	1.450	1.610	38.4	19.6	79 W	33*	59*
7 15	1 54.86	+ 6 38.5	1.385	1.621	38.5	19.5	83 W	39*	57*
7 25	2 13.54	+ 8 46.1	1.319	1.635	38.4	19.4	88 W	45*	55
8 4	2 30.60	+10 43.6	1.254	1.651	37.9	19.3	93 W	51*	53
8 14	2 45.62	+12 30.9	1.189	1.670	36.9	19.2	98 W	56*	51

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	108182 2001 HY_{13} *(continuation)*								
	h m	° ′			°	m	°	°	°
8 24	2 58.14	+14 8.0	1.124	1.690	35.4	19.0	105 W	59*	50
9 3	3 7.63	+15 35.4	1.062	1.713	33.2	18.9	112 W	61	48
9 13	3 13.42	+16 53.0	1.004	1.738	30.2	18.7	120 W	62	47
9 23	3 14.98	+18 0.4	0.953	1.764	26.3	18.5	129 W	63	46
10 3	3 11.95	+18 56.1	0.912	1.792	21.5	18.3	139 W	64	45
10 13	3 4.43	+19 37.6	0.885	1.820	15.8	18.1	150 W	65	44
10 18	2 59.25	+19 52.3	0.879	1.835	12.6	18.0	156 W	65	44
10 23	2 53.37	+20 2.7	0.877	1.850	9.4	17.9	162 W	65	44
10 28	2 47.02	+20 8.9	0.881	1.865	6.1	17.8	168 W	65	44
11 2	2 40.48	+20 11.1	0.891	1.881	3.3	17.6	174 W	65	44
11 7	2 34.03	+20 10.0	0.907	1.896	2.7	17.7	175 E	65	44
11 12	2 27.95	+20 6.5	0.929	1.912	5.1	17.9	170 E	65	44
11 17	2 22.48	+20 1.6	0.957	1.927	8.0	18.1	164 E	65	44
11 22	2 17.79	+19 56.4	0.990	1.943	10.8	18.3	158 E	65	44
11 27	2 14.00	+19 51.8	1.029	1.959	13.4	18.5	153 E	65	44
12 2	2 11.19	+19 48.6	1.073	1.975	15.8	18.7	147 E	65	44
12 12	2 8.58	+19 48.8	1.175	2.007	19.7	19.1	136 E	65	44
12 22	2 9.82	+20 0.1	1.292	2.039	22.7	19.4	127 E	65	44
1 1	2 14.44	+20 22.6	1.421	2.071	24.8	19.7	118 E	65	44
1 11	2 21.95	+20 55.2	1.559	2.103	26.2	20.0	110 E	66	43*
1 21	2 31.85	+21 35.8	1.704	2.134	26.8	20.2	102 E	67	41*
	6041 Juterkilian								
12 27	17 11.74	−17 53.6	2.736	1.823	9.4	18.4	18 W	9*	6*
1 6	17 39.25	−17 56.3	2.675	1.794	11.4	18.4	21 W	11*	10*
1 16	18 7.22	−17 40.8	2.613	1.767	13.4	18.4	25 W	12*	14*
1 26	18 35.46	−17 6.1	2.549	1.743	15.4	18.4	28 W	13*	19*
2 5	19 3.80	−16 12.4	2.485	1.721	17.3	18.4	31 W	14*	22*
2 15	19 32.08	−15 0.0	2.421	1.701	19.2	18.3	34 W	15*	26*
2 25	20 0.13	−13 30.1	2.358	1.684	21.0	18.3	38 W	15*	30*
3 7	20 27.81	−11 44.4	2.296	1.671	22.7	18.3	40 W	16*	33*
3 17	20 55.01	− 9 45.1	2.236	1.661	24.3	18.3	43 W	17*	36*
3 27	21 21.66	− 7 34.9	2.177	1.654	25.9	18.3	46 W	18*	39*
4 6	21 47.69	− 5 16.4	2.119	1.650	27.3	18.2	49 W	18*	42*
4 16	22 13.07	− 2 52.8	2.063	1.651	28.7	18.2	52 W	20*	44*
4 26	22 37.76	− 0 27.0	2.007	1.654	30.0	18.2	55 W	21*	47*
5 6	23 1.76	+ 1 58.0	1.952	1.661	31.1	18.2	58 W	23*	49*
5 16	23 25.03	+ 4 19.5	1.896	1.672	32.2	18.2	62 W	25*	51*
5 26	23 47.52	+ 6 34.7	1.839	1.686	33.0	18.1	65 W	28*	52*
6 5	0 9.16	+ 8 41.2	1.781	1.703	33.8	18.1	69 W	31*	52*
6 15	0 29.86	+10 36.8	1.721	1.723	34.3	18.1	73 W	35*	52*
6 25	0 49.46	+12 19.5	1.660	1.745	34.6	18.0	77 W	40*	51*
7 5	1 7.79	+13 47.5	1.596	1.770	34.7	18.0	82 W	45*	50
7 15	1 24.58	+14 59.1	1.530	1.797	34.4	17.9	87 W	50*	49
7 25	1 39.53	+15 52.5	1.463	1.826	33.7	17.8	93 W	56*	48
8 4	1 52.28	+16 26.2	1.395	1.857	32.6	17.7	100 W	60*	48
8 14	2 2.39	+16 38.5	1.328	1.890	30.9	17.6	107 W	62*	47
8 24	2 9.45	+16 27.6	1.264	1.923	28.5	17.5	115 W	61	48
9 3	2 13.08	+15 52.2	1.207	1.958	25.3	17.3	124 W	61	48
9 13	2 13.03	+14 51.1	1.158	1.994	21.3	17.2	134 W	60	49
9 23	2 9.41	+13 25.7	1.124	2.031	16.4	17.0	145 W	58	51
9 28	2 6.42	+12 35.1	1.114	2.049	13.7	16.9	151 W	58	51
10 3	2 2.77	+11 40.4	1.109	2.068	10.9	16.8	157 W	57	52
10 8	1 58.62	+10 42.7	1.109	2.086	7.9	16.7	163 W	56	53
10 13	1 54.14	+ 9 43.6	1.116	2.105	5.0	16.6	169 W	55	54
10 18	1 49.52	+ 8 44.7	1.129	2.124	2.2	16.5	175 W	54	55
10 23	1 44.96	+ 7 47.5	1.149	2.143	1.7	16.5	176 E	53	56
10 28	1 40.62	+ 6 53.6	1.175	2.162	4.2	16.7	171 E	52	57
11 2	1 36.65	+ 6 4.2	1.208	2.180	6.9	16.9	165 E	51	58
11 7	1 33.19	+ 5 20.4	1.246	2.199	9.4	17.1	159 E	50	59
11 12	1 30.35	+ 4 42.9	1.291	2.218	11.8	17.3	153 E	50	59
11 22	1 26.71	+ 3 48.1	1.397	2.256	15.8	17.7	142 E	49	60
12 2	1 25.91	+ 3 19.8	1.521	2.294	18.9	18.0	131 E	48	61
12 12	1 27.85	+ 3 15.4	1.660	2.331	21.1	18.3	121 E	48	61
12 22	1 32.23	+ 3 31.0	1.810	2.368	22.6	18.5	112 E	49	60
1 1	1 38.72	+ 4 2.6	1.968	2.404	23.4	18.8	104 E	49	59*
1 11	1 46.99	+ 4 46.4	2.132	2.440	23.6	19.0	96 E	50	56*
1 21	1 56.73	+ 5 39.1	2.297	2.476	23.4	19.2	89 E	51	52*
	90943 1997 UX_2								
12 27	17 12.34	−19 2.7	2.749	1.832	9.1	19.8	17 W	8*	7*
1 6	17 39.53	−18 59.2	2.691	1.807	11.2	19.8	21 W	10*	11*
1 16	18 7.07	−18 37.3	2.630	1.783	13.2	19.8	25 W	11*	15*
1 26	18 34.78	−17 56.5	2.567	1.761	15.3	19.8	28 W	13*	19*
2 5	19 2.51	−16 56.6	2.502	1.740	17.2	19.8	32 W	14*	23*
2 15	19 30.12	−15 38.2	2.436	1.722	19.2	19.8	35 W	14*	27*
2 25	19 57.43	−14 2.3	2.370	1.706	21.0	19.8	38 W	15*	30*
3 7	20 24.36	−12 10.4	2.305	1.692	22.8	19.7	41 W	16*	34*
3 17	20 50.80	−10 4.4	2.239	1.681	24.5	19.7	44 W	17*	37*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	90943 1997 UX_2 *(continuation)*								
	h m	° ′			°	m	°	°	°
3 27	21 16.69	− 7 46.8	2.175	1.673	26.1	19.7	48 W	18*	40*
4 6	21 41.99	− 5 20.1	2.111	1.667	27.6	19.7	51 W	19*	43*
4 16	22 6.69	− 2 47.0	2.049	1.664	29.1	19.6	54 W	21*	46*
4 26	22 30.75	− 0 10.4	1.986	1.664	30.4	19.6	57 W	22*	48*
5 6	22 54.19	+ 2 27.0	1.924	1.667	31.6	19.6	60 W	24*	50*
5 16	23 16.97	+ 5 2.4	1.862	1.673	32.7	19.5	63 W	27*	51*
5 26	23 39.07	+ 7 33.2	1.800	1.682	33.6	19.5	67 W	30*	52*
6 5	0 0.43	+ 9 56.9	1.736	1.693	34.4	19.5	70 W	33*	52*
6 15	0 20.96	+12 11.3	1.672	1.707	35.0	19.4	74 W	38*	51*
6 25	0 40.52	+14 14.1	1.606	1.723	35.3	19.4	79 W	43*	50*
7 5	0 58.93	+16 3.5	1.539	1.741	35.4	19.3	83 W	48*	48
7 15	1 15.94	+17 37.6	1.470	1.762	35.2	19.2	88 W	54*	46
7 25	1 31.21	+18 54.4	1.400	1.784	34.6	19.1	94 W	59*	45
8 4	1 44.39	+19 52.1	1.329	1.808	33.5	19.0	100 W	64*	44
8 14	1 55.00	+20 28.5	1.260	1.834	31.9	18.9	107 W	65	44
8 24	2 2.55	+20 41.2	1.194	1.861	29.5	18.7	115 W	66	43
9 3	2 6.62	+20 27.6	1.133	1.889	26.4	18.5	124 W	65	44
9 13	2 6.88	+19 45.0	1.081	1.918	22.4	18.4	133 W	65	44
9 23	2 3.41	+18 32.3	1.042	1.948	17.5	18.2	144 W	64	45
9 28	2 0.43	+17 45.2	1.029	1.963	14.7	18.0	150 W	63	46
10 3	1 56.75	+16 51.6	1.021	1.978	11.8	17.9	156 W	62	47
10 8	1 52.55	+15 52.6	1.018	1.994	8.7	17.8	162 W	61	48
10 13	1 48.01	+14 49.7	1.021	2.009	5.6	17.7	169 W	60	49
10 18	1 43.35	+13 44.5	1.031	2.025	2.6	17.6	175 W	59	50
10 23	1 38.76	+12 39.1	1.046	2.041	1.5	17.5	177 E	58	51
10 28	1 34.45	+11 35.3	1.069	2.057	4.1	17.8	171 E	57	52
11 2	1 30.56	+10 34.6	1.097	2.072	7.0	18.0	165 E	56	53
11 7	1 27.24	+ 9 38.8	1.132	2.088	9.7	18.2	159 E	55	54
11 12	1 24.60	+ 8 48.9	1.172	2.104	12.2	18.4	153 E	54	55
11 22	1 21.55	+ 7 29.6	1.269	2.136	16.5	18.8	142 E	52	57
12 2	1 21.54	+ 6 38.8	1.384	2.168	19.9	19.1	132 E	52	57
12 12	1 24.41	+ 6 14.8	1.514	2.199	22.3	19.4	122 E	51	58
12 22	1 29.82	+ 6 13.9	1.654	2.231	23.9	19.7	113 E	51	58
1 1	1 37.38	+ 6 31.9	1.803	2.262	24.9	19.9	105 E	52	57*
1 11	1 46.76	+ 7 4.6	1.956	2.292	25.2	20.1	97 E	52	54*
1 21	1 57.64	+ 7 48.2	2.112	2.322	25.1	20.3	90 E	53	51*
	125472 2001 WM_{14}								
12 27	17 12.43	−25 57.6	2.813	1.890	8.4	19.9	16 W	2*	9*
1 6	17 40.05	−26 15.0	2.753	1.862	10.5	19.9	20 W	4*	13*
1 16	18 8.17	−26 13.7	2.689	1.835	12.6	19.9	24 W	5*	17*
1 26	18 36.59	−25 52.8	2.621	1.810	14.7	19.9	28 W	6*	21*
2 5	19 5.12	−25 11.8	2.550	1.786	16.8	19.9	31 W	6*	25*
2 15	19 33.57	−24 10.7	2.478	1.763	18.8	19.9	35 W	7*	29*
2 25	20 1.74	−22 50.3	2.404	1.743	20.7	19.8	39 W	7*	32*
3 7	20 29.49	−21 11.5	2.330	1.724	22.6	19.8	42 W	8*	36*
3 17	20 56.70	−19 15.9	2.255	1.707	24.4	19.8	45 W	9*	39*
3 27	21 23.25	−17 5.4	2.181	1.693	26.2	19.7	48 W	10*	42*
4 6	21 49.12	−14 42.4	2.108	1.681	27.8	19.7	52 W	11*	46*
4 16	22 14.27	−12 9.0	2.035	1.672	29.4	19.6	55 W	12*	49*
4 26	22 38.66	− 9 28.0	1.962	1.665	30.8	19.6	58 W	14*	52*
5 6	23 2.32	− 6 41.7	1.891	1.661	32.2	19.5	61 W	16*	54*
5 16	23 25.24	− 3 52.7	1.821	1.660	33.4	19.5	65 W	19*	57*
5 26	23 47.39	− 1 3.5	1.751	1.662	34.4	19.4	68 W	22*	58*
6 5	0 8.75	+ 1 43.7	1.681	1.667	35.3	19.4	72 W	26*	59*
6 15	0 29.25	+ 4 26.8	1.612	1.674	36.0	19.3	75 W	30*	58*
6 25	0 48.78	+ 7 3.7	1.542	1.684	36.4	19.3	79 W	36*	57*
7 5	1 7.20	+ 9 32.9	1.472	1.696	36.6	19.2	84 W	42*	54
7 15	1 24.29	+11 52.6	1.403	1.711	36.4	19.1	89 W	48*	52
7 25	1 39.75	+14 1.7	1.333	1.729	35.9	19.0	94 W	54*	50
8 4	1 53.22	+15 59.0	1.264	1.748	34.9	18.9	100 W	59*	48
8 14	2 4.23	+17 43.1	1.197	1.769	33.4	18.7	106 W	63*	46
8 24	2 12.25	+19 12.5	1.132	1.792	31.2	18.6	113 W	64	45
9 3	2 16.77	+20 25.3	1.073	1.816	28.3	18.4	121 W	65	44
9 13	2 17.29	+21 18.5	1.022	1.842	24.5	18.2	131 W	66	43
9 23	2 13.68	+21 48.6	0.981	1.869	19.9	18.0	141 W	67	42
10 3	2 6.28	+21 52.4	0.957	1.897	14.5	17.8	152 W	67	42
10 8	2 1.45	+21 43.9	0.951	1.912	11.7	17.7	157 W	67	42
10 13	1 56.14	+21 28.8	0.951	1.926	8.9	17.6	163 W	66	43
10 18	1 50.57	+21 7.9	0.956	1.941	6.4	17.5	167 W	66	43
10 23	1 45.00	+20 42.1	0.968	1.956	4.8	17.5	171 E	66	43
10 28	1 39.65	+20 12.7	0.985	1.971	5.0	17.6	170 E	65	44
11 2	1 34.73	+19 41.2	1.008	1.986	6.8	17.7	166 E	65	44
11 7	1 30.44	+19 9.1	1.037	2.001	9.1	17.9	161 E	64	45
11 12	1 26.91	+18 37.9	1.072	2.017	11.6	18.1	156 E	64	45
11 17	1 24.23	+18 8.9	1.112	2.032	13.9	18.3	151 E	63	46
11 22	1 22.45	+17 43.1	1.158	2.048	16.0	18.4	145 E	63	46
12 2	1 21.54	+17 3.4	1.261	2.079	19.6	18.8	135 E	62	47
12 12	1 24.01	+16 41.7	1.380	2.110	22.3	19.1	125 E	62	47

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
125472 2001 WM_{14} *(continuation)*									
12 22	1 29.46	+16 38.1	1.511	2.141	24.3	19.4	117 E	62	47
1 1	1 37.39	+16 50.2	1.651	2.172	25.5	19.6	108 E	62	47*
1 11	1 47.40	+17 15.7	1.798	2.202	26.0	19.9	101 E	62	45*
1 21	1 59.11	+17 51.7	1.948	2.233	26.1	20.1	93 E	63	42*
32827 1992 DF_1									
12 27	17 12.88	− 7 4.2	3.836	2.960	7.6	20.8	23 W	17*	1*
1 6	17 27.83	− 7 14.0	3.779	2.952	9.1	20.8	28 W	21*	8*
1 16	17 42.60	− 7 14.9	3.707	2.942	10.8	20.9	34 W	24*	16*
1 26	17 57.07	− 7 6.9	3.621	2.932	12.4	20.9	40 W	27*	23*
2 5	18 11.15	− 6 50.2	3.522	2.920	14.0	20.9	46 W	29*	30*
2 15	18 24.71	− 6 25.3	3.412	2.908	15.5	20.8	52 W	30*	38*
2 25	18 37.61	− 5 52.7	3.291	2.894	16.9	20.8	58 W	32*	45*
3 7	18 49.75	− 5 13.1	3.160	2.879	18.2	20.7	65 W	34*	51*
3 17	19 0.95	− 4 27.3	3.023	2.864	19.2	20.7	71 W	35*	57*
3 27	19 11.06	− 3 36.4	2.879	2.847	20.1	20.6	78 W	37*	62*
4 6	19 19.90	− 2 41.7	2.731	2.829	20.6	20.5	85 W	39*	65*
4 16	19 27.27	− 1 44.7	2.582	2.811	20.9	20.3	93 W	41*	66
4 26	19 32.93	− 0 47.5	2.433	2.791	20.8	20.2	100 W	43*	65
5 6	19 36.66	+ 0 7.4	2.288	2.770	20.3	20.0	108 W	45*	64
5 16	19 38.19	+ 0 57.2	2.149	2.749	19.3	19.8	116 W	46*	63
5 26	19 37.34	+ 1 37.9	2.019	2.726	17.8	19.6	125 W	47	62
6 5	19 33.98	+ 2 5.4	1.902	2.702	15.8	19.4	133 W	47	62
6 15	19 28.13	+ 2 15.0	1.802	2.678	13.5	19.2	142 W	47	62
6 25	19 20.08	+ 2 2.4	1.723	2.652	11.0	19.0	150 W	47	62
7 5	19 10.42	+ 1 24.8	1.666	2.626	9.2	18.8	156 W	46	63
7 15	19 0.02	+ 0 21.8	1.635	2.598	9.1	18.7	156 E	45	64
7 25	18 49.97	− 1 3.8	1.630	2.570	10.8	18.8	152 E	44	65
7 30	18 45.40	− 1 53.4	1.637	2.556	12.1	18.8	148 E	43	66
8 4	18 41.30	− 2 46.5	1.650	2.541	13.6	18.9	144 E	42	67
8 9	18 37.75	− 3 42.1	1.668	2.526	15.1	19.0	139 E	41	68
8 14	18 34.84	− 4 39.4	1.692	2.511	16.6	19.0	135 E	40	69
8 19	18 32.63	− 5 37.6	1.720	2.495	18.1	19.1	130 E	39	70
8 24	18 31.16	− 6 35.8	1.752	2.480	19.4	19.2	126 E	38	71
9 3	18 30.45	− 8 30.0	1.827	2.448	21.7	19.3	116 E	36	73
9 13	18 32.74	−10 17.9	1.912	2.416	23.4	19.4	108 E	35	74
9 23	18 37.87	−11 56.8	2.004	2.382	24.6	19.5	99 E	33	76
10 3	18 45.59	−13 24.8	2.098	2.348	25.2	19.6	92 E	32*	76*
10 13	18 55.66	−14 40.9	2.193	2.314	25.4	19.7	84 E	30*	72*
10 23	19 7.81	−15 44.3	2.286	2.279	25.2	19.7	77 E	29*	66*
11 2	19 21.79	−16 34.4	2.374	2.243	24.6	19.8	70 E	28*	60*
11 12	19 37.39	−17 11.0	2.457	2.207	23.7	19.8	64 E	27*	53*
11 22	19 54.38	−17 33.9	2.532	2.170	22.6	19.8	58 E	26*	46*
12 2	20 12.58	−17 42.9	2.598	2.133	21.3	19.8	52 E	24*	40*
12 12	20 31.83	−17 38.1	2.656	2.096	19.8	19.7	46 E	23*	34*
12 22	20 51.97	−17 19.8	2.704	2.059	18.1	19.7	41 E	21*	28*
1 1	21 12.87	−16 48.1	2.742	2.021	16.3	19.6	35 E	19*	23*
1 11	21 34.44	−16 3.7	2.770	1.984	14.5	19.5	30 E	17*	18*
1 21	21 56.57	−15 7.2	2.788	1.947	12.6	19.4	26 E	14*	14*
344806 2004 BK_{41}									
12 27	17 13.20	−30 27.5	2.682	1.767	9.5	21.2	17 W	—	11*
1 6	17 41.46	−29 45.1	2.646	1.760	11.3	21.2	21 W	1*	14*
1 16	18 9.21	−28 42.0	2.603	1.753	13.3	21.3	24 W	3*	18*
1 26	18 36.31	−27 18.6	2.552	1.747	15.4	21.3	28 W	4*	22*
2 5	19 2.62	−25 35.3	2.494	1.740	17.5	21.3	32 W	6*	26*
2 15	19 28.07	−23 32.8	2.430	1.733	19.6	21.3	36 W	8*	30*
2 25	19 52.59	−21 11.9	2.360	1.726	21.7	21.3	40 W	10*	34*
3 7	20 16.17	−18 33.4	2.284	1.720	23.8	21.3	44 W	12*	38*
3 17	20 38.82	−15 38.1	2.204	1.713	25.7	21.3	48 W	14*	42*
3 27	21 0.54	−12 26.9	2.121	1.707	27.6	21.2	52 W	17*	46*
4 6	21 21.40	− 9 0.5	2.035	1.701	29.4	21.2	56 W	19*	49*
4 16	21 41.43	− 5 19.5	1.948	1.695	31.0	21.1	60 W	23*	52*
4 26	22 0.67	− 1 24.7	1.860	1.689	32.5	21.1	64 W	26*	54*
5 6	22 19.16	+ 2 43.2	1.772	1.684	33.8	21.0	68 W	30*	55*
5 16	22 36.93	+ 7 3.4	1.686	1.679	35.0	20.9	72 W	35*	54*
5 26	22 53.98	+11 34.5	1.602	1.674	35.9	20.8	76 W	40*	52*
6 5	23 10.30	+16 15.3	1.520	1.670	36.7	20.7	80 W	46*	48*
6 15	23 25.83	+21 4.0	1.443	1.666	37.3	20.6	83 W	53*	43
6 25	23 40.46	+25 58.1	1.369	1.663	37.6	20.5	87 W	61*	38
7 5	23 54.01	+30 54.8	1.300	1.660	37.8	20.4	91 W	69*	33
7 10	0 0.30	+33 23.0	1.267	1.659	37.7	20.3	93 W	73*	31
7 15	0 6.18	+35 50.4	1.235	1.658	37.7	20.3	94 W	78*	28
7 20	0 11.62	+38 16.3	1.205	1.657	37.6	20.2	96 W	82*	26
7 25	0 16.55	+40 40.2	1.175	1.656	37.4	20.2	98 W	86*	23
7 30	0 20.90	+43 1.3	1.147	1.656	37.2	20.1	100 W	88	21
8 4	0 24.55	+45 18.8	1.120	1.655	36.9	20.0	102 W	90	19
8 9	0 27.39	+47 31.7	1.094	1.655	36.6	20.0	103 W	87	16
8 14	0 29.30	+49 39.0	1.069	1.655	36.2	19.9	105 W	85	14
8 19	0 30.17	+51 39.3	1.046	1.655	35.8	19.9	107 W	83	12

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
344806 2004 BK_{41} *(continuation)*									
8 24	0 29.88	+53 31.4	1.023	1.655	35.3	19.8	109 W	81	10
8 29	0 28.31	+55 13.9	1.002	1.655	34.8	19.7	111 W	80	9
9 3	0 25.35	+56 44.9	0.981	1.655	34.3	19.7	113 W	78	7
9 8	0 20.99	+58 2.6	0.962	1.656	33.7	19.6	114 W	77	6
9 13	0 15.29	+59 4.9	0.944	1.656	33.0	19.6	116 W	76	5
9 18	0 8.47	+59 50.1	0.928	1.657	32.4	19.5	118 W	75	4
9 23	0 0.83	+60 16.7	0.913	1.658	31.7	19.5	120 W	75	4
9 25	23 57.64	+60 21.8	0.908	1.658	31.5	19.4	120 E	75	4
9 27	23 54.42	+60 23.7	0.903	1.659	31.2	19.4	121 E	75	4
9 29	23 51.20	+60 22.3	0.898	1.659	30.9	19.4	122 E	75	4
10 1	23 48.01	+60 17.7	0.893	1.660	30.7	19.4	122 E	75	4
10 3	23 44.89	+60 9.7	0.889	1.660	30.4	19.4	123 E	75	4
10 5	23 41.87	+59 58.5	0.885	1.661	30.2	19.3	123 E	75	4
10 7	23 38.99	+59 44.1	0.881	1.661	29.9	19.3	124 E	75	4
10 9	23 36.29	+59 26.5	0.878	1.662	29.7	19.3	124 E	76	5
10 11	23 33.78	+59 5.8	0.875	1.662	29.5	19.3	125 E	76	5
10 13	23 31.49	+58 42.2	0.872	1.663	29.3	19.3	125 E	76	5
10 18	23 26.86	+57 31.1	0.867	1.664	28.8	19.3	126 E	77	6
10 23	23 23.92	+56 4.6	0.865	1.666	28.5	19.2	127 E	79	8
10 28	23 22.75	+54 25.0	0.865	1.668	28.2	19.2	127 E	81	10
11 2	23 23.32	+52 35.0	0.869	1.670	28.2	19.3	127 E	82	11
11 7	23 25.56	+50 37.4	0.876	1.672	28.3	19.3	127 E	84	13
11 12	23 29.31	+48 34.9	0.886	1.674	28.5	19.3	126 E	86	15
11 17	23 34.41	+46 30.2	0.899	1.676	28.9	19.4	125 E	88	17
11 22	23 40.67	+44 25.6	0.916	1.678	29.4	19.4	124 E	89	20
11 27	23 47.92	+42 23.2	0.937	1.681	30.0	19.5	122 E	87	22
12 2	23 56.02	+40 24.6	0.961	1.683	30.6	19.6	120 E	85	24
12 7	0 4.83	+38 31.3	0.988	1.686	31.3	19.6	117 E	84	25*
12 12	0 14.24	+36 44.5	1.019	1.688	32.0	19.7	115 E	82	27*
12 17	0 24.14	+35 5.0	1.053	1.691	32.6	19.8	112 E	80	28*
12 22	0 34.43	+33 33.1	1.089	1.694	33.2	19.9	109 E	79	30*
12 27	0 45.04	+32 8.9	1.129	1.697	33.7	20.0	107 E	77	30*
1 1	0 55.91	+30 52.4	1.170	1.700	34.2	20.1	104 E	76	31*
1 6	1 6.99	+29 43.4	1.214	1.703	34.5	20.2	101 E	75	31*
1 11	1 18.26	+28 41.6	1.260	1.706	34.8	20.3	98 E	74	32*
1 16	1 29.66	+27 46.5	1.308	1.709	35.0	20.4	95 E	73	32*
1 21	1 41.16	+26 57.4	1.357	1.712	35.0	20.5	93 E	72	32*
162117 1998 SD_{15}									
12 27	17 13.58	−14 47.3	1.461	0.615	30.6	20.1	19 W	11*	4*
1 1	17 44.73	−13 57.5	1.495	0.625	27.4	20.1	17 W	10*	2*
1 6	18 15.06	−13 3.9	1.531	0.642	24.4	20.1	16 W	9*	—
1 11	18 44.40	−12 7.7	1.568	0.663	21.8	20.1	14 W	8*	—
1 16	19 12.63	−11 9.6	1.606	0.689	19.4	20.2	13 W	7*	—
1 21	19 39.68	−10 10.2	1.645	0.717	17.4	20.3	13 W	7*	—
1 26	20 5.53	− 9 10.0	1.684	0.748	15.5	20.4	12 W	6*	—
2 5	20 53.76	− 7 8.9	1.764	0.812	12.4	20.5	10 W	4*	—
2 15	21 37.76	− 5 8.7	1.841	0.877	9.7	20.7	9 W	2*	—
2 25	22 18.13	− 3 11.1	1.915	0.940	7.3	20.8	7 W	1*	—
3 7	22 55.52	− 1 17.6	1.982	0.999	5.4	20.9	5 W	—	—
3 17	23 30.54	+ 0 30.8	2.041	1.052	4.2	21.0	4 W	—	—
3 27	0 3.72	+ 2 13.2	2.091	1.100	4.4	21.2	5 W	—	—
4 6	0 35.52	+ 3 48.6	2.130	1.141	5.7	21.4	6 W	—	—
282128 2001 NT_{12}									
12 27	17 13.73	−17 43.0	2.696	1.781	9.4	21.3	17 W	9*	6*
1 6	17 41.44	−17 58.5	2.644	1.759	11.4	21.3	21 W	10*	10*
1 16	18 9.53	−17 56.0	2.591	1.740	13.3	21.3	24 W	12*	14*
1 26	18 37.80	−17 35.2	2.535	1.722	15.3	21.3	27 W	12*	18*
2 5	19 6.10	−16 56.0	2.478	1.707	17.2	21.3	31 W	13*	22*
2 15	19 34.27	−15 59.2	2.421	1.693	19.0	21.3	34 W	14*	26*
2 25	20 2.14	−14 45.9	2.362	1.682	20.8	21.3	37 W	14*	30*
3 7	20 29.58	−13 17.9	2.303	1.674	22.5	21.3	40 W	15*	33*
3 17	20 56.52	−11 37.1	2.244	1.667	24.2	21.3	43 W	15*	36*
3 27	21 22.85	− 9 46.1	2.185	1.664	25.8	21.3	46 W	16*	40*
4 6	21 48.55	− 7 47.4	2.126	1.663	27.3	21.3	50 W	16*	43*
4 16	22 13.58	− 5 43.7	2.066	1.665	28.7	21.2	53 W	17*	46*
4 26	22 37.91	− 3 37.8	2.006	1.669	30.0	21.2	56 W	19*	49*
5 6	23 1.54	− 1 32.2	1.944	1.676	31.3	21.2	60 W	20*	51*
5 16	23 24.43	+ 0 30.3	1.882	1.686	32.3	21.2	63 W	22*	54*
5 26	23 46.53	+ 2 27.1	1.818	1.698	33.3	21.1	67 W	25*	55*
6 5	0 7.81	+ 4 16.1	1.752	1.712	34.0	21.1	71 W	28*	57*
6 15	0 28.16	+ 5 54.9	1.684	1.728	34.6	21.1	75 W	32*	57*
6 25	0 47.42	+ 7 21.1	1.615	1.746	34.9	21.0	80 W	36*	56*
7 5	1 5.43	+ 8 33.1	1.544	1.767	35.0	20.9	85 W	41*	55
7 15	1 21.94	+ 9 28.5	1.472	1.788	34.6	20.8	90 W	46*	55
7 25	1 36.63	+10 5.6	1.399	1.812	33.9	20.7	96 W	51*	54
8 4	1 49.14	+10 22.6	1.326	1.836	32.6	20.6	103 W	54*	54
8 14	1 59.04	+10 17.5	1.256	1.862	30.8	20.5	110 W	55*	54
8 24	2 5.87	+ 9 48.9	1.190	1.889	28.2	20.3	118 W	55	54

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	282128 2001 NT_{12}							*(continuation)*	
	h m	° ′			°	m	°	°	°
9 3	2 9.24	+ 8 56.3	1.130	1.916	24.8	20.1	127 W	54	55
9 13	2 8.86	+ 7 40.1	1.082	1.944	20.6	19.9	137 W	53	56
9 18	2 7.28	+ 6 54.2	1.063	1.959	18.2	19.8	143 W	52	57
9 23	2 4.84	+ 6 4.1	1.048	1.973	15.6	19.7	148 W	51	58
9 28	2 1.61	+ 5 10.9	1.038	1.988	12.8	19.6	154 W	50	59
10 3	1 57.72	+ 4 15.8	1.034	2.002	10.1	19.5	160 W	49	60
10 8	1 53.32	+ 3 20.4	1.035	2.017	7.4	19.4	165 W	48	61
10 13	1 48.59	+ 2 26.3	1.042	2.032	5.1	19.4	170 W	47	62
10 18	1 43.75	+ 1 35.1	1.056	2.046	4.1	19.3	171 W	47	62
10 23	1 38.99	+ 0 48.5	1.075	2.061	5.2	19.5	169 E	46	63
10 28	1 34.49	+ 0 7.5	1.101	2.076	7.3	19.6	165 E	45	64
11 2	1 30.41	− 0 27.0	1.133	2.091	9.7	19.8	159 E	45	64
11 12	1 24.02	− 1 14.1	1.214	2.120	14.3	20.2	148 E	44	65
11 22	1 20.51	− 1 31.9	1.315	2.150	18.1	20.5	138 E	43	66
12 2	1 20.00	− 1 23.3	1.432	2.179	21.0	20.8	128 E	44	65
12 12	1 22.37	− 0 52.4	1.562	2.208	23.1	21.1	118 E	44	65
12 22	1 27.30	− 0 4.1	1.701	2.236	24.4	21.3	110 E	45	64
	25037 1998 QC_{37}								
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*
1 26	18 47.09	−23 36.9	2.481	1.644	14.8	18.9	25 W	6*	18*
2 5	19 17.38	−22 35.1	2.439	1.639	16.6	18.9	28 W	7*	22*
2 15	19 47.06	−21 12.0	2.396	1.636	18.3	18.9	31 W	8*	25*
2 25	20 15.93	−19 30.0	2.353	1.636	20.0	18.9	35 W	8*	28*
3 7	20 43.87	−17 31.4	2.309	1.639	21.7	18.9	38 W	9*	31*
3 17	21 10.79	−15 19.1	2.264	1.645	23.3	19.0	41 W	10*	35*
3 27	21 36.65	−12 56.1	2.218	1.654	24.8	19.0	44 W	11*	38*
4 6	22 1.45	−10 25.2	2.171	1.665	26.2	19.0	47 W	12*	41*
4 16	22 25.21	− 7 49.3	2.122	1.678	27.6	19.0	51 W	14*	44*
4 26	22 47.91	− 5 11.1	2.071	1.694	28.8	19.0	54 W	16*	48*
5 6	23 9.60	− 2 32.9	2.017	1.712	30.0	19.0	58 W	18*	50*
5 16	23 30.28	+ 0 3.0	1.961	1.733	31.0	19.0	62 W	21*	53*
5 26	23 49.90	+ 2 34.8	1.902	1.755	31.8	19.0	66 W	24*	55*
6 5	0 8.44	+ 5 0.6	1.840	1.778	32.5	18.9	70 W	28*	56*
6 15	0 25.80	+ 7 18.9	1.775	1.803	33.0	18.9	75 W	33*	56*
6 25	0 41.83	+ 9 28.3	1.706	1.830	33.2	18.9	80 W	39*	54*
7 5	0 56.36	+11 27.7	1.635	1.857	33.1	18.8	86 W	45*	53
7 15	1 9.12	+13 15.5	1.562	1.886	32.6	18.7	91 W	51*	51
7 25	1 19.78	+14 50.4	1.488	1.915	31.7	18.6	98 W	57*	49
8 4	1 27.98	+16 10.9	1.415	1.944	30.2	18.5	105 W	61*	48
8 14	1 33.26	+17 14.9	1.344	1.974	28.2	18.4	113 W	62	47
8 24	1 35.25	+17 59.7	1.279	2.005	25.4	18.2	122 W	63	46
9 3	1 33.67	+18 22.5	1.222	2.036	21.8	18.0	131 W	63	46
9 13	1 28.50	+18 20.0	1.178	2.066	17.4	17.8	142 W	63	46
9 23	1 20.27	+17 50.9	1.151	2.097	12.4	17.7	153 W	63	46
9 28	1 15.31	+17 26.7	1.146	2.112	9.8	17.6	159 W	62	47
10 3	1 10.00	+16 56.7	1.146	2.127	7.3	17.5	164 W	62	47
10 8	1 4.54	+16 22.0	1.153	2.143	5.1	17.4	169 W	61	48
10 13	0 59.15	+15 43.7	1.166	2.158	4.0	17.4	171 E	61	48
10 18	0 54.02	+15 3.4	1.186	2.173	4.8	17.5	169 E	60	49
10 23	0 49.33	+14 22.4	1.212	2.188	6.8	17.6	165 E	59	50
10 28	0 45.21	+13 42.2	1.244	2.203	9.0	17.8	160 E	59	50
11 2	0 41.76	+13 4.0	1.282	2.217	11.3	18.0	154 E	58	51
11 7	0 39.07	+12 28.9	1.326	2.232	13.4	18.1	149 E	57	52
11 12	0 37.17	+11 57.8	1.375	2.247	15.3	18.3	143 E	57	52
11 22	0 35.79	+11 9.6	1.487	2.275	18.6	18.6	133 E	56	53
12 2	0 37.42	+10 41.2	1.614	2.303	21.1	18.9	123 E	56	53
12 12	0 41.75	+10 32.2	1.753	2.331	22.7	19.1	114 E	56	53
12 22	0 48.40	+10 40.7	1.901	2.358	23.7	19.4	105 E	56	53*
1 1	0 56.96	+11 4.1	2.053	2.384	24.2	19.6	97 E	56	50*
1 11	1 7.12	+11 39.8	2.208	2.409	24.1	19.8	90 E	57	46*
1 21	1 18.61	+12 25.2	2.363	2.434	23.6	19.9	82 E	57*	41*
	129558 1996 XQ_8								
12 27	17 15.41	−28 10.4	2.805	1.880	8.3	21.3	16 W	—	10*
1 6	17 43.71	−29 5.0	2.734	1.841	10.5	21.3	20 W	1*	14*
1 16	18 13.16	−29 41.6	2.660	1.803	12.7	21.3	24 W	1*	18*
1 26	18 43.58	−29 58.1	2.584	1.767	14.8	21.2	27 W	1*	21*
2 5	19 14.78	−29 52.8	2.506	1.732	16.9	21.2	31 W	1*	25*
2 15	19 46.51	−29 24.4	2.428	1.700	18.9	21.1	34 W	1*	28*
2 25	20 18.49	−28 32.5	2.351	1.669	20.8	21.1	37 W	1*	30*
3 7	20 50.44	−27 17.2	2.277	1.641	22.7	21.0	40 W	—	33*
3 17	21 22.11	−25 39.6	2.205	1.616	24.5	21.0	42 W	—	35*
3 27	21 53.27	−23 41.7	2.137	1.594	26.2	21.0	45 W	—	38*
4 6	22 23.74	−21 25.9	2.073	1.575	27.8	20.9	47 W	—	40*
4 16	22 53.41	−18 55.4	2.013	1.560	29.3	20.9	49 W	1*	43*
4 26	23 22.20	−16 13.7	1.956	1.549	30.6	20.8	52 W	2*	45*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	129558 1996 XQ_8							*(continuation)*	
	h m	° ′			°	m	°	°	°
5 6	23 50.06	−13 24.3	1.903	1.542	31.9	20.8	54 W	3*	48*
5 16	0 17.00	−10 30.8	1.853	1.539	33.1	20.8	56 W	5*	50*
5 26	0 42.98	− 7 36.5	1.805	1.541	34.1	20.7	59 W	8*	52*
6 5	1 8.02	− 4 44.5	1.758	1.547	35.0	20.7	61 W	11*	55*
6 15	1 32.10	− 1 57.2	1.711	1.557	35.8	20.7	64 W	15*	56*
6 25	1 55.18	+ 0 43.3	1.663	1.570	36.5	20.7	67 W	20*	57*
7 5	2 17.19	+ 3 15.5	1.615	1.588	37.0	20.6	70 W	26*	57*
7 15	2 38.03	+ 5 38.5	1.564	1.609	37.3	20.6	74 W	32*	56*
7 25	2 57.53	+ 7 52.0	1.511	1.634	37.4	20.6	78 W	39*	55*
8 4	3 15.49	+ 9 56.5	1.455	1.661	37.3	20.5	82 W	45*	54*
8 14	3 31.62	+11 52.4	1.396	1.691	36.8	20.5	88 W	51*	52
8 24	3 45.56	+13 41.3	1.335	1.723	35.8	20.4	93 W	57*	50
9 3	3 56.90	+15 24.7	1.273	1.757	34.4	20.3	100 W	60*	49
9 13	4 5.08	+17 4.5	1.212	1.793	32.4	20.2	108 W	62	47
9 23	4 9.54	+18 42.1	1.154	1.830	29.5	20.0	116 W	64	45
10 3	4 9.75	+20 17.9	1.102	1.869	25.9	19.8	125 W	65	44
10 13	4 5.30	+21 50.4	1.060	1.908	21.3	19.7	136 W	67	42
10 23	3 56.31	+23 15.6	1.034	1.948	15.9	19.5	148 W	68	41
10 28	3 50.33	+23 53.7	1.028	1.968	12.9	19.4	154 W	69	40
11 2	3 43.59	+24 27.7	1.028	1.989	9.9	19.3	160 W	69	40
11 7	3 36.33	+24 57.0	1.033	2.009	7.0	19.2	166 W	70	39
11 12	3 28.81	+25 21.3	1.046	2.029	4.4	19.1	171 W	70	39
11 17	3 21.35	+25 40.7	1.065	2.050	3.4	19.1	173 E	71	38
11 22	3 14.21	+25 55.5	1.090	2.070	4.8	19.3	170 E	71	38
11 27	3 7.63	+26 6.4	1.122	2.090	7.2	19.5	165 E	71	38
12 2	3 1.80	+26 14.1	1.161	2.111	9.7	19.7	159 E	71	38
12 7	2 56.88	+26 19.7	1.205	2.131	12.1	19.9	153 E	71	38
12 12	2 52.97	+26 24.1	1.255	2.151	14.2	20.1	147 E	71	38
12 22	2 48.24	+26 32.8	1.370	2.192	17.9	20.4	137 E	72	37
1 1	2 47.50	+26 45.0	1.501	2.232	20.7	20.7	127 E	72	37
1 11	2 50.33	+27 3.0	1.645	2.271	22.6	21.0	117 E	72	37
1 21	2 56.22	+27 27.5	1.799	2.311	23.8	21.3	109 E	72	36*
	7369 Gavrilin								
12 27	17 15.51	−29 47.8	3.720	2.791	5.7	18.8	17 W	—	10*
1 6	17 33.68	−29 37.3	3.650	2.765	7.7	18.9	22 W	2*	16*
1 16	17 51.76	−29 19.4	3.566	2.739	9.8	18.9	28 W	4*	22*
1 26	18 9.62	−28 53.7	3.468	2.711	11.8	18.9	34 W	6*	28*
2 5	18 27.17	−28 20.0	3.357	2.683	13.8	18.9	40 W	8*	34*
2 15	18 44.29	−27 38.4	3.234	2.654	15.7	18.8	47 W	9*	41*
2 25	19 0.86	−26 48.8	3.100	2.624	17.5	18.8	53 W	11*	47*
3 7	19 16.77	−25 51.6	2.957	2.593	19.2	18.7	59 W	12*	53*
3 17	19 31.88	−24 46.8	2.807	2.561	20.7	18.6	66 W	14*	60*
3 27	19 46.06	−23 34.8	2.651	2.529	22.1	18.5	72 W	16*	66*
4 6	19 59.16	−22 15.8	2.490	2.496	23.2	18.4	79 W	17*	73*
4 16	20 11.00	−20 50.1	2.327	2.462	24.0	18.2	86 W	19*	79*
4 26	20 21.36	−19 18.0	2.164	2.428	24.5	18.0	93 W	22*	83*
5 6	20 30.02	−17 39.6	2.002	2.393	24.5	17.8	100 W	24*	82
5 16	20 36.67	−15 55.0	1.845	2.357	24.1	17.6	108 W	27*	80
5 26	20 40.97	−14 4.4	1.694	2.321	23.2	17.4	116 W	30*	78
6 5	20 42.58	−12 8.2	1.553	2.284	21.5	17.1	124 W	33*	76
6 15	20 41.12	−10 7.1	1.425	2.247	19.2	16.8	133 W	35	74
6 25	20 36.34	− 8 2.7	1.313	2.210	16.2	16.5	143 W	37	72
7 5	20 28.23	− 5 57.9	1.221	2.172	12.6	16.2	152 W	39	70
7 10	20 23.03	− 4 56.9	1.183	2.153	10.9	16.0	156 W	40	69
7 15	20 17.20	− 3 57.8	1.151	2.135	9.4	15.9	160 W	41	68
7 20	20 10.87	− 3 1.4	1.126	2.116	8.5	15.8	162 W	42	67
7 25	20 4.24	− 2 8.7	1.107	2.097	8.5	15.7	162 E	43	66
7 30	19 57.48	− 1 20.2	1.094	2.078	9.5	15.7	160 E	44	65
8 4	19 50.82	− 0 36.8	1.088	2.059	11.2	15.7	157 E	44	65
8 14	19 38.65	+ 0 33.4	1.092	2.022	15.5	15.9	148 E	46	63
8 24	19 29.22	+ 1 21.8	1.116	1.985	20.0	16.0	138 E	46	63
9 3	19 23.46	+ 1 51.7	1.157	1.949	24.0	16.2	128 E	47	62
9 8	19 22.11	+ 2 1.3	1.181	1.931	25.8	16.3	124 E	47	62
9 13	19 21.80	+ 2 8.3	1.208	1.913	27.3	16.3	119 E	47	62
9 18	19 22.52	+ 2 13.5	1.237	1.896	28.7	16.4	115 E	47	62
9 23	19 24.21	+ 2 17.7	1.267	1.878	29.9	16.5	111 E	47	62
10 3	19 30.39	+ 2 25.1	1.329	1.845	31.8	16.6	104 E	47	62
10 13	19 39.97	+ 2 35.1	1.393	1.812	33.1	16.7	97 E	48	61*
10 23	19 52.54	+ 2 51.5	1.456	1.782	33.9	16.8	91 E	48	59*
11 2	20 7.73	+ 3 16.7	1.518	1.753	34.4	16.8	86 E	48	55*
11 12	20 25.23	+ 3 52.7	1.578	1.726	34.5	16.9	81 E	49*	50*
11 22	20 44.72	+ 4 40.8	1.635	1.701	34.4	16.9	77 E	50*	45*
12 2	21 5.96	+ 5 41.6	1.690	1.679	34.0	17.0	72 E	50*	40*
12 12	21 28.75	+ 6 54.8	1.743	1.660	33.5	17.0	69 E	51*	34*
12 22	21 52.87	+ 8 19.9	1.795	1.644	32.9	17.0	65 E	51*	29*
1 1	22 18.18	+ 9 55.2	1.847	1.631	32.1	17.1	62 E	50*	25*
1 11	22 44.53	+11 38.8	1.899	1.622	31.2	17.1	59 E	49*	21*
1 21	23 11.78	+13 28.2	1.952	1.616	30.2	17.1	56 E	48*	18*