19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
				313441 2002 RJ_{105}					
	h m	° ′			°	m	°	°	°
12 23	2 9.43	+24 16.2	1.196	1.954	23.7	19.7	127 E	69	40
1 2	2 17.21	+24 28.7	1.324	1.995	25.6	20.0	119 E	69	40
1 12	2 27.56	+24 50.2	1.462	2.037	26.7	20.3	111 E	70	39*
1 22	2 39.97	+25 18.8	1.607	2.079	27.3	20.5	104 E	70	38*
2 1	2 54.08	+25 52.4	1.759	2.122	27.4	20.8	97 E	71	36*
2 11	3 9.53	+26 28.7	1.914	2.165	27.1	21.0	91 E	71*	34*
2 21	3 26.07	+27 5.6	2.073	2.209	26.5	21.2	84 E	71*	32*
3 2	3 43.47	+27 41.2	2.232	2.253	25.5	21.4	78 E	67*	30*
				345130 2005 RS_{29}					
12 23	2 9.72	−17 27.8	0.979	1.608	35.1	20.6	110 E	28	81
12 28	2 14.63	−16 47.6	1.025	1.614	35.6	20.8	107 E	28	81
1 2	2 20.17	−16 0.9	1.072	1.621	36.0	20.9	104 E	29	80
1 7	2 26.28	−15 8.9	1.119	1.628	36.3	21.0	101 E	30	79
1 12	2 32.89	−14 12.5	1.166	1.634	36.5	21.1	99 E	31	78*
1 17	2 39.97	−13 12.8	1.213	1.641	36.6	21.2	96 E	32	76*
1 22	2 47.48	−12 10.4	1.261	1.649	36.6	21.3	94 E	33	74*
1 27	2 55.38	−11 6.0	1.309	1.656	36.5	21.4	91 E	34	72*
2 1	3 3.66	−10 0.2	1.357	1.663	36.3	21.4	89 E	35	69*
				187852 2000 AA_{170}					
12 23	2 10.34	− 1 21.2	0.928	1.643	31.8	19.5	118 E	44	65
12 28	2 15.66	− 0 6.8	0.972	1.651	32.6	19.6	115 E	45	64
1 2	2 21.61	+ 1 9.2	1.018	1.661	33.2	19.7	112 E	46	63
1 7	2 28.16	+ 2 26.0	1.065	1.671	33.7	19.9	109 E	47	62
1 12	2 35.23	+ 3 42.8	1.115	1.682	34.1	20.0	106 E	49	60*
1 22	2 50.76	+ 6 14.5	1.219	1.705	34.5	20.2	101 E	51	57*
2 1	3 7.92	+ 8 40.6	1.329	1.730	34.5	20.4	96 E	54	53*
2 11	3 26.42	+10 58.0	1.444	1.757	34.2	20.6	91 E	56	50*
2 21	3 46.01	+13 4.5	1.563	1.786	33.5	20.8	86 E	58*	47*
3 2	4 6.52	+14 58.3	1.685	1.816	32.6	21.0	81 E	58*	44*
3 12	4 27.77	+16 38.1	1.810	1.847	31.5	21.2	76 E	57*	42*
3 22	4 49.58	+18 3.0	1.936	1.879	30.2	21.3	72 E	54*	40*
4 1	5 11.82	+19 12.7	2.063	1.912	28.8	21.4	67 E	51*	38*
				100485 Russelldavies					
12 23	2 11.80	+15 5.0	1.519	2.236	21.1	19.9	125 E	60	49
1 2	2 11.10	+15 18.3	1.602	2.206	23.8	20.1	115 E	60	49
1 12	2 13.84	+15 46.5	1.693	2.174	25.8	20.2	106 E	61	48*
1 22	2 19.67	+16 27.9	1.787	2.142	27.1	20.3	97 E	61	45*
2 1	2 28.27	+17 20.4	1.881	2.109	27.9	20.4	89 E	62	41*
2 11	2 39.31	+18 21.3	1.973	2.075	28.1	20.5	82 E	63*	38*
2 21	2 52.52	+19 28.0	2.059	2.040	27.9	20.6	75 E	60*	35*
3 2	3 7.70	+20 38.2	2.140	2.004	27.4	20.6	69 E	57*	31*
3 12	3 24.67	+21 49.2	2.213	1.968	26.7	20.6	63 E	52*	29*
3 22	3 43.30	+22 58.5	2.278	1.932	25.7	20.6	57 E	48*	26*
4 1	4 3.51	+24 3.8	2.335	1.895	24.6	20.6	52 E	43*	24*
4 11	4 25.20	+25 2.5	2.383	1.858	23.4	20.5	47 E	38*	22*
4 21	4 48.29	+25 52.2	2.423	1.820	22.1	20.5	43 E	33*	21*
5 1	5 12.71	+26 30.5	2.454	1.783	20.7	20.4	39 E	29*	19*
5 11	5 38.32	+26 55.1	2.478	1.747	19.3	20.4	35 E	24*	18*
5 21	6 5.02	+27 3.6	2.494	1.711	17.8	20.3	31 E	20*	16*
5 31	6 32.66	+26 54.1	2.504	1.675	16.4	20.2	28 E	16*	15*
6 10	7 1.04	+26 24.9	2.509	1.641	14.9	20.1	25 E	12*	13*
6 20	7 29.98	+25 34.8	2.508	1.608	13.5	20.0	22 E	9*	11*
6 30	7 59.30	+24 23.1	2.504	1.577	12.1	19.9	19 E	7*	10*
7 10	8 28.80	+22 49.6	2.496	1.548	10.7	19.8	16 E	5*	8*
7 20	8 58.34	+20 54.8	2.487	1.521	9.3	19.7	14 E	3*	6*
7 30	9 27.78	+18 39.8	2.476	1.497	8.0	19.6	12 E	2*	4*
8 9	9 57.05	+16 6.4	2.465	1.476	6.7	19.5	10 E	1*	3*
8 19	10 26.10	+13 16.8	2.455	1.459	5.5	19.4	8 E	—	1*
8 29	10 54.95	+10 13.6	2.445	1.445	4.2	19.3	6 E	—	—
9 8	11 23.62	+ 7 0.0	2.437	1.435	3.1	19.2	4 E	—	—
9 18	11 52.19	+ 3 39.5	2.432	1.429	2.1	19.1	3 E	—	—
9 28	12 20.72	+ 0 15.7	2.428	1.428	1.6	19.1	2 E	—	—
10 8	12 49.30	− 3 7.7	2.427	1.430	2.1	19.2	3 W	—	—
10 18	13 18.03	− 6 26.9	2.428	1.437	3.2	19.2	5 W	—	—
10 28	13 46.98	− 9 38.1	2.431	1.448	4.5	19.3	7 W	—	—
11 7	14 16.17	−12 38.0	2.435	1.463	5.9	19.4	9 W	2*	—
11 17	14 45.66	−15 23.3	2.439	1.482	7.4	19.5	11 W	4*	2*
11 27	15 15.39	−17 51.4	2.444	1.503	8.9	19.6	14 W	5*	4*
12 7	15 45.30	−20 0.1	2.447	1.528	10.5	19.7	16 W	6*	7*
12 17	16 15.28	−21 47.8	2.449	1.555	12.1	19.8	19 W	7*	10*
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*
				254419 2004 VT_{60}					
12 23	2 12.05	+15 30.8	1.323	2.056	22.9	20.9	125 E	61	48
12 28	2 9.81	+16 50.1	1.406	2.082	24.1	21.1	120 E	62	47
1 2	2 8.71	+18 4.6	1.491	2.108	24.9	21.2	115 E	63	46
1 7	2 8.63	+19 14.9	1.579	2.133	25.6	21.4	111 E	64	45*
1 12	2 9.46	+20 21.8	1.669	2.158	26.0	21.6	106 E	65	43*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
				5246 Migliorini					
	h m	° ′			°	m	°	°	°
12 23	2 12.61	+ 5 58.5	1.404	2.100	23.4	17.8	122 E	51	58
1 2	2 17.78	+ 6 43.9	1.541	2.134	25.0	18.0	114 E	52	57
1 12	2 25.32	+ 7 40.8	1.686	2.167	25.9	18.3	106 E	53	56*
1 22	2 34.82	+ 8 45.4	1.836	2.200	26.3	18.5	98 E	54	53*
2 1	2 45.96	+ 9 54.8	1.990	2.233	26.2	18.7	91 E	55	50*
2 11	2 58.45	+11 6.1	2.145	2.265	25.7	18.9	84 E	56*	46*
2 21	3 12.07	+12 17.1	2.299	2.297	24.8	19.1	77 E	55*	43*
3 2	3 26.63	+13 26.2	2.450	2.328	23.8	19.2	71 E	53*	40*
3 12	3 41.97	+14 31.8	2.598	2.359	22.5	19.3	65 E	49*	37*
3 22	3 57.95	+15 32.6	2.741	2.388	21.0	19.4	59 E	45*	34*
4 1	4 14.47	+16 27.6	2.877	2.417	19.4	19.5	53 E	39*	32*
4 11	4 31.42	+17 15.9	3.005	2.446	17.6	19.6	48 E	34*	29*
4 21	4 48.71	+17 56.9	3.125	2.473	15.8	19.6	42 E	28*	26*
5 1	5 6.26	+18 30.1	3.235	2.500	13.9	19.6	37 E	22*	23*
5 11	5 23.97	+18 55.1	3.334	2.525	12.0	19.7	31 E	16*	20*
5 21	5 41.78	+19 11.8	3.422	2.550	10.0	19.7	26 E	11*	17*
5 31	5 59.60	+19 19.9	3.499	2.574	8.0	19.6	21 E	5*	13*
6 10	6 17.38	+19 19.7	3.562	2.597	5.9	19.6	15 E	—	9*
6 20	6 35.03	+19 11.2	3.613	2.619	4.0	19.5	10 E	—	4*
6 30	6 52.50	+18 54.8	3.650	2.640	2.2	19.5	6 E	—	—
7 10	7 9.73	+18 30.7	3.674	2.661	1.6	19.5	4 W	—	—
7 20	7 26.66	+17 59.5	3.683	2.680	3.0	19.6	8 W	—	2*
7 30	7 43.23	+17 21.7	3.678	2.698	4.9	19.7	13 W	2*	6*
8 9	7 59.39	+16 37.9	3.658	2.715	6.8	19.8	18 W	7*	10*
8 19	8 15.09	+15 48.8	3.624	2.732	8.7	19.9	24 W	13*	14*
8 29	8 30.28	+14 55.2	3.576	2.747	10.6	19.9	30 W	19*	17*
9 8	8 44.89	+13 58.0	3.514	2.761	12.3	20.0	36 W	25*	21*
9 18	8 58.87	+12 57.9	3.439	2.775	14.0	20.0	42 W	31*	24*
9 28	9 12.13	+11 56.2	3.350	2.787	15.6	20.0	48 W	36*	28*
10 8	9 24.59	+10 53.9	3.250	2.798	17.0	20.0	55 W	42*	31*
10 18	9 36.15	+ 9 52.1	3.139	2.809	18.2	20.0	62 W	46*	35*
10 28	9 46.67	+ 8 52.4	3.018	2.818	19.2	19.9	69 W	50*	39*
11 7	9 56.01	+ 7 56.2	2.889	2.826	19.9	19.9	76 W	52*	44*
11 17	10 3.98	+ 7 5.2	2.755	2.833	20.3	19.8	84 W	52	49*
11 27	10 10.35	+ 6 21.4	2.617	2.839	20.3	19.7	93 W	51	53*
12 7	10 14.91	+ 5 46.8	2.480	2.845	19.8	19.5	101 W	51	57*
12 17	10 17.39	+ 5 23.8	2.345	2.849	18.8	19.4	111 W	50	59
12 27	10 17.54	+ 5 14.6	2.219	2.852	17.2	19.2	121 W	50	59
1 6	10 15.21	+ 5 21.1	2.104	2.854	14.9	19.0	132 W	50	59
1 16	10 10.36	+ 5 44.3	2.007	2.855	12.0	18.8	143 W	51	58
				207648 2007 LP_{18}					
12 23	2 12.78	+10 17.6	1.596	2.295	20.8	20.3	124 E	55	54
1 2	2 16.69	+10 48.9	1.747	2.336	22.5	20.6	115 E	56	53
1 12	2 22.93	+11 30.9	1.906	2.377	23.4	20.9	106 E	57	52*
1 22	2 31.12	+12 20.9	2.072	2.418	23.8	21.1	98 E	57	50*
2 1	2 40.94	+13 16.2	2.240	2.458	23.6	21.3	91 E	58	46*
2 11	2 52.11	+14 14.5	2.410	2.497	23.1	21.5	83 E	59*	43*
				218813 2006 SO_{14}					
12 23	2 12.98	+14 31.2	1.627	2.338	20.1	21.3	125 E	60	49
1 2	2 15.72	+14 27.9	1.765	2.364	22.0	21.6	116 E	59	50
1 12	2 21.06	+14 39.7	1.912	2.390	23.2	21.8	107 E	60	49*
1 22	2 28.58	+15 3.6	2.064	2.415	23.8	22.0	99 E	60	47*
2 1	2 37.95	+15 36.9	2.219	2.439	23.8	22.2	91 E	61	44*
				452140 2015 QR_{9}					
12 23	2 13.84	+10 49.3	1.001	1.754	27.6	20.5	124 E	56	53
1 2	2 22.86	+12 53.2	1.105	1.781	29.5	20.8	117 E	58	51
1 12	2 34.56	+14 54.9	1.219	1.809	30.7	21.0	110 E	60	49*
1 22	2 48.45	+16 52.0	1.340	1.840	31.3	21.3	104 E	62	46*
2 1	3 4.19	+18 42.7	1.468	1.873	31.4	21.5	98 E	64	43*
				174806 2003 XL					
12 23	2 14.06	+32 51.4	1.073	1.860	24.1	19.7	129 E	78	31
12 28	2 11.67	+31 55.7	1.080	1.823	26.6	19.8	124 E	77	32
1 2	2 10.66	+31 3.0	1.088	1.785	28.8	19.8	119 E	76	33
1 7	2 11.01	+30 14.7	1.099	1.747	30.9	19.8	114 E	75	34*
1 12	2 12.67	+29 31.2	1.111	1.710	32.9	19.9	109 E	75	34*
1 22	2 19.69	+28 20.3	1.136	1.634	36.3	19.9	101 E	73	34*
2 1	2 31.28	+27 30.2	1.160	1.559	39.1	19.9	93 E	73	33*
2 11	2 47.02	+26 57.4	1.179	1.485	41.5	19.9	86 E	71*	31*
2 21	3 6.56	+26 36.5	1.192	1.413	43.6	19.9	80 E	68*	30*
3 2	3 29.70	+26 20.9	1.197	1.344	45.5	19.9	75 E	64*	30*
3 12	3 56.25	+26 3.1	1.195	1.279	47.2	19.8	71 E	60*	30*
3 22	4 26.01	+25 34.7	1.185	1.220	48.9	19.7	67 E	56*	30*
4 1	4 58.81	+24 47.4	1.169	1.169	50.6	19.7	65 E	53*	31*
4 11	5 34.30	+23 32.7	1.148	1.127	52.2	19.6	63 E	49*	33*
4 21	6 12.03	+21 43.4	1.125	1.098	53.7	19.5	62 E	45*	36*
5 1	6 51.53	+19 14.9	1.103	1.081	54.9	19.5	61 E	41*	39*
5 11	7 32.19	+16 5.7	1.086	1.079	55.6	19.5	62 E	37*	42*

174806 2003 *XL* *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 16	7 52.77	+14 16.8	1.080	1.084	55.7	19.5	62 E	35*	44*
5 21	8 13.46	+12 19.2	1.077	1.091	55.7	19.5	63 E	32*	46*
5 26	8 34.18	+10 14.1	1.076	1.103	55.4	19.5	64 E	30*	49*
5 31	8 54.87	+ 8 2.9	1.079	1.117	55.0	19.5	64 E	28*	51*
6 5	9 15.49	+ 5 47.2	1.085	1.135	54.3	19.5	65 E	25*	53*
6 10	9 35.98	+ 3 28.7	1.096	1.156	53.5	19.6	66 E	23*	55*
6 15	9 56.30	+ 1 9.1	1.111	1.179	52.6	19.6	67 E	21*	57*
6 20	10 16.41	− 1 9.9	1.130	1.204	51.5	19.7	68 E	19*	59*
6 25	10 36.28	− 3 26.6	1.154	1.232	50.3	19.7	69 E	17*	60*
6 30	10 55.87	− 5 39.6	1.183	1.261	49.0	19.8	69 E	16*	62*
7 5	11 15.14	− 7 47.7	1.216	1.292	47.7	19.9	70 E	14*	63*
7 10	11 34.07	− 9 49.8	1.253	1.324	46.4	20.0	70 E	13*	64*
7 20	12 10.84	−13 33.5	1.341	1.392	43.6	20.1	71 E	11*	65*
7 30	12 46.09	−16 48.1	1.445	1.463	40.9	20.3	71 E	9*	65*
8 9	13 19.79	−19 33.3	1.562	1.537	38.2	20.5	70 E	8*	63*
8 19	13 51.98	−21 50.9	1.692	1.612	35.6	20.7	68 E	8*	61*
8 29	14 22.76	−23 43.6	1.831	1.687	33.0	20.9	66 E	7*	59*
9 8	14 52.22	−25 14.0	1.977	1.763	30.6	21.1	63 E	7*	56*
9 18	15 20.47	−26 24.6	2.129	1.838	28.1	21.3	60 E	7*	53*
9 28	15 47.63	−27 17.7	2.283	1.912	25.7	21.5	56 E	7*	50*

440254 2004 RV_{68}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	2 14.40	− 1 26.6	0.912	1.636	31.6	19.4	119 E	44	65
12 28	2 19.79	− 0 38.7	0.950	1.639	32.6	19.5	116 E	44	65
1 2	2 25.88	+ 0 13.8	0.990	1.643	33.5	19.7	113 E	45	64
1 7	2 32.61	+ 1 10.0	1.032	1.648	34.1	19.8	110 E	46	63
1 12	2 39.92	+ 2 8.9	1.075	1.654	34.7	19.9	107 E	47	62*
1 17	2 47.75	+ 3 9.7	1.120	1.661	35.1	20.0	104 E	48	61*
1 22	2 56.07	+ 4 11.7	1.166	1.668	35.3	20.1	101 E	49	59*
2 1	3 14.00	+ 6 16.6	1.262	1.685	35.5	20.3	96 E	51	56*
2 11	3 33.40	+ 8 18.8	1.363	1.705	35.3	20.5	92 E	53	53*
2 21	3 53.99	+10 14.4	1.469	1.728	34.9	20.7	87 E	55*	50*
3 2	4 15.56	+12 0.3	1.578	1.753	34.1	20.8	83 E	56*	48*
3 12	4 37.89	+13 34.1	1.691	1.780	33.1	21.0	78 E	55*	45*
3 22	5 0.79	+14 53.9	1.806	1.809	32.0	21.1	74 E	53*	44*
4 1	5 24.10	+15 58.6	1.924	1.840	30.7	21.3	70 E	50*	42*
4 11	5 47.64	+16 47.5	2.043	1.873	29.2	21.4	66 E	46*	41*

452666 2005 WP_{54}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	2 14.97	+28 59.1	1.100	1.883	23.9	19.1	129 E	74	35
12 28	2 16.82	+27 20.8	1.124	1.865	25.8	19.2	124 E	72	37
1 2	2 19.71	+25 49.7	1.151	1.848	27.5	19.3	120 E	71	38
1 7	2 23.57	+24 26.4	1.181	1.831	29.0	19.3	115 E	69	40*
1 12	2 28.33	+23 11.1	1.213	1.815	30.4	19.4	111 E	68	41*
1 22	2 40.19	+21 3.3	1.282	1.783	32.5	19.6	103 E	66	42*
2 1	2 54.78	+19 23.2	1.355	1.752	34.0	19.7	96 E	64	42*
2 11	3 11.65	+18 5.7	1.431	1.723	34.9	19.8	89 E	63	42*
2 21	3 30.41	+17 4.9	1.505	1.697	35.3	19.9	83 E	61*	41*
3 2	3 50.79	+16 15.6	1.579	1.672	35.3	20.0	77 E	58*	41*
3 12	4 12.52	+15 32.7	1.650	1.651	35.0	20.0	73 E	54*	41*
3 22	4 35.41	+14 51.9	1.717	1.632	34.5	20.1	68 E	50*	40*
4 1	4 59.30	+14 9.5	1.782	1.616	33.8	20.1	64 E	45*	40*
4 11	5 24.01	+13 22.3	1.843	1.604	32.9	20.1	60 E	40*	40*
4 21	5 49.38	+12 28.0	1.901	1.594	31.9	20.2	57 E	35*	40*
5 1	6 15.30	+11 24.5	1.957	1.589	30.8	20.2	54 E	29*	40*
5 11	6 41.61	+10 10.7	2.011	1.587	29.7	20.2	51 E	24*	40*
5 21	7 8.18	+ 8 45.8	2.063	1.589	28.6	20.2	49 E	18*	39*
5 31	7 34.91	+ 7 9.6	2.115	1.594	27.4	20.3	46 E	13*	39*
6 10	8 1.67	+ 5 22.6	2.167	1.603	26.2	20.3	44 E	8*	38*
6 20	8 28.39	+ 3 25.6	2.219	1.615	24.9	20.3	42 E	4*	36*
6 30	8 55.00	+ 1 19.8	2.273	1.631	23.6	20.4	40 E	—	34*
7 10	9 21.43	− 0 53.1	2.328	1.650	22.3	20.4	38 E	—	32*
7 20	9 47.67	− 3 11.4	2.385	1.671	20.9	20.4	36 E	—	29*
7 30	10 13.67	− 5 33.3	2.443	1.696	19.4	20.5	34 E	—	26*
8 9	10 39.45	− 7 56.6	2.503	1.722	17.9	20.5	31 E	—	23*
8 19	11 5.00	−10 19.5	2.565	1.751	16.3	20.5	29 E	—	20*
8 29	11 30.35	−12 40.2	2.626	1.781	14.7	20.6	27 E	—	17*
9 8	11 55.51	−14 56.7	2.688	1.813	13.0	20.6	24 E	—	14*
9 18	12 20.50	−17 7.7	2.748	1.847	11.3	20.6	21 E	—	11*
9 28	12 45.35	−19 11.8	2.805	1.881	9.7	20.6	18 E	—	7*
10 8	13 10.06	−21 7.5	2.859	1.917	8.1	20.7	16 E	—	4*
10 18	13 34.64	−22 53.9	2.909	1.953	6.7	20.7	13 E	—	1*
10 28	13 59.07	−24 30.0	2.952	1.989	5.8	20.7	12 W	—	2*
11 7	14 23.31	−25 54.9	2.988	2.026	5.5	20.8	11 W	—	4*
11 17	14 47.34	−27 8.3	3.016	2.063	6.1	20.8	13 W	—	6*
11 27	15 11.07	−28 9.7	3.035	2.101	7.2	21.0	15 W	—	9*
12 7	15 34.41	−28 58.7	3.043	2.138	8.7	21.1	19 W	1*	13*
12 17	15 57.28	−29 35.4	3.041	2.175	10.4	21.2	24 W	3*	17*
12 27	16 19.55	−30 0.1	3.026	2.211	12.2	21.3	28 W	5*	22*
1 6	16 41.09	−30 12.9	3.000	2.248	14.0	21.3	34 W	7*	27*
1 16	17 1.78	−30 14.6	2.962	2.284	15.7	21.4	39 W	8*	33*

491424 2012 ET_{14}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 23	2 15.65	−87 46.7	1.244	1.261	46.2	20.3	68 E	—	28
12 24	2 38.97	−87 24.2	1.248	1.270	46.0	20.3	68 E	—	29
12 25	2 56.56	−87 0.4	1.252	1.279	45.7	20.4	69 E	—	29
12 26	3 10.25	−86 35.6	1.256	1.288	45.5	20.4	69 E	—	29
12 27	3 21.19	−86 10.1	1.259	1.297	45.2	20.4	69 E	—	30
12 28	3 30.14	−85 44.0	1.263	1.306	45.0	20.4	70 E	—	30
12 29	3 37.64	−85 17.3	1.266	1.314	44.7	20.4	70 E	—	31
12 30	3 44.03	−84 50.2	1.270	1.323	44.5	20.4	71 E	—	31
12 31	3 49.57	−84 22.7	1.273	1.332	44.3	20.4	71 E	—	32
1 1	3 54.45	−83 54.8	1.276	1.341	44.1	20.5	72 E	—	32
1 2	3 58.79	−83 26.6	1.279	1.350	43.8	20.5	72 E	—	33
1 3	4 2.70	−82 57.9	1.281	1.359	43.6	20.5	72 E	—	33
1 4	4 6.26	−82 28.9	1.284	1.367	43.4	20.5	73 E	—	34
1 5	4 9.54	−81 59.6	1.286	1.376	43.2	20.5	73 E	—	34
1 6	4 12.57	−81 29.9	1.289	1.385	43.0	20.5	74 E	—	35
1 7	4 15.40	−80 59.8	1.291	1.393	42.8	20.5	74 E	—	35
1 8	4 18.06	−80 29.4	1.293	1.402	42.6	20.5	75 E	—	36
1 9	4 20.58	−79 58.7	1.296	1.411	42.3	20.6	75 E	—	36
1 10	4 22.96	−79 27.6	1.298	1.419	42.1	20.6	76 E	—	37
1 11	4 25.25	−78 56.1	1.300	1.428	41.9	20.6	76 E	—	37
1 12	4 27.43	−78 24.3	1.301	1.436	41.7	20.6	76 E	—	38
1 13	4 29.54	−77 52.2	1.303	1.445	41.5	20.6	77 E	—	38
1 14	4 31.58	−77 19.6	1.305	1.453	41.3	20.6	77 E	—	39
1 15	4 33.55	−76 46.8	1.307	1.462	41.1	20.6	78 E	—	39
1 16	4 35.47	−76 13.6	1.309	1.470	40.9	20.6	78 E	—	40
1 17	4 37.34	−75 40.0	1.310	1.478	40.8	20.6	79 E	—	40
1 18	4 39.18	−75 6.0	1.312	1.487	40.6	20.6	79 E	—	41
1 19	4 40.97	−74 31.7	1.314	1.495	40.4	20.7	80 E	—	41
1 20	4 42.74	−73 57.1	1.315	1.503	40.2	20.7	80 E	—	42
1 21	4 44.48	−73 22.1	1.317	1.511	40.0	20.7	81 E	—	43
1 22	4 46.19	−72 46.7	1.318	1.520	39.8	20.7	81 E	—	43
1 24	4 49.56	−71 34.9	1.322	1.536	39.4	20.7	82 E	—	44
1 26	4 52.86	−70 21.7	1.325	1.552	39.0	20.7	83 E	—	46
1 28	4 56.11	−69 7.2	1.328	1.568	38.6	20.7	84 E	—	47
1 30	4 59.33	−67 51.4	1.332	1.584	38.3	20.8	85 E	—	48
2 1	5 2.52	−66 34.4	1.335	1.600	37.9	20.8	86 E	—	49
2 6	5 10.41	−63 16.7	1.346	1.639	37.0	20.8	88 E	—	53
2 11	5 18.24	−59 52.9	1.359	1.677	36.0	20.9	90 E	—	56
2 16	5 26.04	−56 24.4	1.375	1.714	35.2	20.9	92 E	—	60
2 21	5 33.86	−52 52.7	1.395	1.751	34.3	21.0	93 E	—	63
2 26	5 41.71	−49 20.0	1.420	1.786	33.6	21.0	94 E	—	67
3 2	5 49.60	−45 48.3	1.449	1.821	32.9	21.1	95 E	—	70
3 7	5 57.54	−42 19.8	1.483	1.855	32.2	21.2	95 E	3	74
3 12	6 5.50	−38 56.5	1.522	1.888	31.6	21.2	95 E	6	77
3 17	6 13.50	−35 40.0	1.566	1.920	31.1	21.3	94 E	9*	80*
3 22	6 21.51	−32 31.7	1.615	1.951	30.6	21.4	94 E	12*	83*

86964 2000 JV_2

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	2 16.03	+ 3 33.0	1.890	2.550	19.1	20.2	122 E	49	60
1 2	2 17.48	+ 4 28.4	2.041	2.583	20.6	20.4	113 E	49	60
1 12	2 21.30	+ 5 32.4	2.200	2.615	21.4	20.6	104 E	51	58*
1 22	2 27.15	+ 6 42.1	2.364	2.646	21.7	20.8	95 E	52	55*
2 1	2 34.75	+ 7 55.4	2.530	2.676	21.6	21.0	88 E	53	50*
2 11	2 43.83	+ 9 10.4	2.696	2.706	21.1	21.1	80 E	54*	46*
2 21	2 54.13	+10 25.5	2.859	2.734	20.2	21.3	73 E	52*	42*
3 2	3 5.48	+11 39.5	3.017	2.762	19.1	21.4	66 E	49*	38*
3 12	3 17.70	+12 51.2	3.167	2.788	17.8	21.5	59 E	44*	34*

416470 2003 WD_{82}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	2 16.35	+23 20.0	1.134	1.909	23.8	18.7	128 E	68	41
1 2	2 27.16	+22 29.7	1.259	1.953	25.7	19.0	121 E	67	42
1 12	2 39.80	+21 59.8	1.395	1.999	26.9	19.3	113 E	67	42*
1 22	2 53.89	+21 46.0	1.541	2.047	27.5	19.6	106 E	67	42*
2 1	3 9.13	+21 44.3	1.694	2.096	27.6	19.9	100 E	67	41*
2 11	3 25.26	+21 50.7	1.854	2.146	27.3	20.1	93 E	67	40*
2 21	3 42.08	+22 1.8	2.017	2.196	26.7	20.3	87 E	67*	38*
3 2	3 59.44	+22 14.9	2.183	2.247	25.8	20.5	81 E	64*	37*
3 12	4 17.18	+22 27.7	2.350	2.299	24.6	20.7	75 E	61*	35*
3 22	4 35.19	+22 38.3	2.517	2.351	23.3	20.9	69 E	56*	34*
4 1	4 53.37	+22 45.4	2.681	2.403	21.8	21.0	63 E	50*	32*
4 11	5 11.62	+22 47.7	2.842	2.454	20.2	21.1	58 E	45*	31*
4 21	5 29.86	+22 44.6	2.997	2.506	18.4	21.2	52 E	39*	29*
5 1	5 48.01	+22 35.5	3.146	2.558	16.6	21.3	46 E	32*	27*
5 11	6 6.00	+22 20.2	3.287	2.609	14.7	21.4	41 E	26*	25*
5 21	6 23.76	+21 58.4	3.420	2.660	12.7	21.4	35 E	20*	23*
5 31	6 41.26	+21 30.2	3.542	2.711	10.7	21.5	30 E	14*	20*

302898 2003 QU_{10}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	2 17.58	+16 5.9	0.965	1.743	26.8	21.1	127 E	61	48
1 2	2 28.74	+16 50.7	1.085	1.787	28.6	21.5	119 E	62	47
1 12	2 41.89	+17 42.6	1.214	1.833	29.7	21.8	113 E	63	46*
1 22	2 56.61	+18 38.3	1.353	1.879	30.2	22.1	106 E	64	45*
2 1	3 12.60	+19 35.2	1.498	1.927	30.3	22.4	100 E	65	43*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
18181 2000 QD_{34}									
	h m	° ′			°	m	°	°	°
12 23	2 18.21	+44 19.7	2.231	2.962	14.7	18.1	130 E	89	20
12 28	2 16.71	+43 32.9	2.271	2.956	15.7	18.2	126 E	89	20
1 2	2 16.11	+42 47.6	2.314	2.950	16.5	18.3	121 E	88	21
1 7	2 16.36	+42 4.7	2.362	2.943	17.3	18.3	117 E	87	22*
1 12	2 17.43	+41 24.6	2.413	2.937	18.0	18.4	113 E	86	22*
1 17	2 19.24	+40 47.7	2.466	2.930	18.6	18.4	108 E	86	22*
1 22	2 21.76	+40 14.1	2.521	2.923	19.0	18.5	104 E	85	22*
1 27	2 24.94	+39 44.1	2.577	2.915	19.4	18.6	100 E	85	22*
2 1	2 28.71	+39 17.6	2.635	2.908	19.7	18.6	96 E	84	21*
2 11	2 37.89	+38 34.8	2.751	2.892	19.9	18.7	88 E	81*	20*
2 21	2 48.94	+38 4.2	2.867	2.875	19.8	18.8	81 E	74*	19*
3 2	3 1.62	+37 44.0	2.980	2.858	19.4	18.8	73 E	67*	17*
3 12	3 15.67	+37 31.9	3.087	2.839	18.7	18.9	66 E	60*	15*
3 22	3 30.93	+37 25.7	3.186	2.820	17.8	18.9	60 E	54*	14*
4 1	3 47.23	+37 23.4	3.277	2.799	16.7	18.9	53 E	47*	12*
4 11	4 4.44	+37 22.8	3.357	2.778	15.4	18.9	47 E	41*	10*
4 21	4 22.44	+37 22.0	3.427	2.756	14.0	18.9	42 E	35*	9*
5 1	4 41.12	+37 19.4	3.484	2.733	12.5	18.8	36 E	30*	7*
5 11	5 0.37	+37 13.6	3.529	2.709	10.9	18.8	31 E	24*	5*
5 21	5 20.10	+37 3.1	3.562	2.685	9.4	18.7	26 E	19*	2*
5 31	5 40.20	+36 46.9	3.581	2.659	7.8	18.6	21 E	15*	—
6 10	6 0.56	+36 24.1	3.588	2.633	6.4	18.6	17 E	11*	—
6 20	6 21.09	+35 53.8	3.582	2.605	5.3	18.5	14 E	7*	—
6 30	6 41.71	+35 15.7	3.562	2.577	4.8	18.4	12 E	5*	—
7 10	7 2.29	+34 29.3	3.531	2.549	5.0	18.4	13 W	6*	—
7 20	7 22.79	+33 34.4	3.486	2.519	6.0	18.4	15 W	9*	—
7 30	7 43.10	+32 31.0	3.430	2.489	7.5	18.4	19 W	13*	—
8 9	8 3.16	+31 19.2	3.362	2.458	9.2	18.4	23 W	17*	1*
8 19	8 22.92	+29 59.1	3.283	2.427	11.0	18.4	27 W	21*	4*
8 29	8 42.32	+28 31.0	3.193	2.395	12.8	18.4	32 W	26*	7*
9 8	9 1.32	+26 55.4	3.093	2.362	14.7	18.3	37 W	30*	10*
9 18	9 19.89	+25 12.5	2.984	2.329	16.6	18.3	42 W	35*	13*
9 28	9 37.99	+23 22.8	2.865	2.295	18.5	18.2	47 W	40*	16*
10 8	9 55.58	+21 26.8	2.740	2.261	20.3	18.2	52 W	44*	19*
10 18	10 12.65	+19 24.8	2.607	2.227	22.0	18.1	57 W	49*	22*
10 28	10 29.12	+17 17.3	2.468	2.192	23.7	18.0	62 W	53*	26*
11 7	10 44.94	+15 4.4	2.325	2.157	25.2	17.9	68 W	55*	31*
11 17	11 0.04	+12 46.2	2.177	2.123	26.5	17.7	74 W	56*	35*
11 27	11 14.30	+10 23.0	2.028	2.088	27.7	17.6	80 W	55*	41*
12 7	11 27.58	+ 7 54.4	1.878	2.053	28.6	17.4	86 W	53	47*
12 17	11 39.67	+ 5 19.8	1.729	2.019	29.2	17.2	92 W	50	53*
12 27	11 50.31	+ 2 38.7	1.582	1.985	29.3	17.0	99 W	48	59*
1 6	11 59.16	− 0 10.2	1.440	1.952	29.0	16.7	106 W	45	64*
1 16	12 5.76	− 3 8.0	1.305	1.919	28.1	16.4	113 W	42	67
380928 2006 HJ_3									
12 23	2 19.07	+14 42.7	1.407	2.147	21.5	21.4	127 E	60	49
1 2	2 21.85	+15 23.3	1.543	2.179	23.6	21.7	117 E	60	49
1 12	2 27.49	+16 12.6	1.688	2.211	24.9	22.0	109 E	61	48*
1 22	2 35.51	+17 8.3	1.840	2.242	25.5	22.2	101 E	62	45*
2 1	2 45.55	+18 8.5	1.994	2.273	25.6	22.5	93 E	63	42*
439887 2000 MO_6									
12 23	2 19.38	+21 1.0	1.698	2.437	18.4	21.2	129 E	66	43
1 2	2 21.54	+20 39.3	1.840	2.471	20.4	21.5	119 E	66	43
1 12	2 26.34	+20 32.2	1.993	2.505	21.7	21.7	110 E	66	43*
1 22	2 33.36	+20 37.6	2.154	2.538	22.3	22.0	101 E	66	42*
2 1	2 42.27	+20 53.4	2.318	2.570	22.5	22.2	93 E	66	40*
418849 2008 WM_{64}									
12 23	2 19.71	−26 38.6	0.080	1.009	69.1	17.6	106 E	18	89
12 24	2 11.77	−19 29.3	0.079	1.011	67.4	17.5	108 E	26	83
12 25	2 4.40	−12 8.0	0.079	1.013	65.9	17.4	110 E	33	76
12 26	1 57.57	− 4 50.2	0.080	1.015	64.7	17.4	111 E	40	69
12 27	1 51.24	+ 2 9.7	0.082	1.017	64.0	17.5	112 E	47	62
12 28	1 45.38	+ 8 40.5	0.086	1.018	63.6	17.6	112 E	54	55
12 29	1 39.94	+14 35.7	0.090	1.020	63.6	17.7	112 E	60	49*
12 30	1 34.91	+19 53.0	0.096	1.022	63.7	17.8	111 E	65	44*
12 31	1 30.26	+24 33.4	0.102	1.024	64.0	18.0	111 E	70	39*
1 1	1 25.95	+28 39.7	0.109	1.026	64.3	18.1	110 E	74	35*
1 2	1 21.96	+32 15.6	0.116	1.027	64.7	18.3	109 E	77	31*
1 3	1 18.27	+35 25.0	0.124	1.029	65.1	18.4	108 E	80	27*
1 4	1 14.86	+38 11.4	0.132	1.031	65.5	18.6	107 E	83	24*
1 5	1 11.70	+40 38.2	0.141	1.033	65.8	18.7	107 E	86	22*
1 6	1 8.79	+42 48.3	0.149	1.034	66.1	18.9	106 E	88	19*
1 7	1 6.10	+44 44.1	0.158	1.036	66.4	19.0	105 E	90	17*
1 8	1 3.61	+46 27.7	0.167	1.038	66.6	19.1	104 E	89	15*
1 9	1 1.33	+48 0.8	0.176	1.039	66.8	19.3	104 E	87	13*
1 10	0 59.22	+49 24.9	0.185	1.041	66.9	19.4	103 E	86	11*
1 11	0 57.29	+50 41.2	0.195	1.043	67.1	19.5	102 E	84	10*
1 12	0 55.51	+51 50.7	0.204	1.044	67.2	19.6	102 E	83	9*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
418849 2008 WM_{64} *(continuation)*									
	h m	° ′			°	m	°	°	°
1 13	0 53.89	+52 54.4	0.213	1.046	67.3	19.7	101 E	82	7*
1 14	0 52.42	+53 52.9	0.222	1.048	67.3	19.8	101 E	81	6*
1 15	0 51.08	+54 47.0	0.232	1.049	67.4	19.9	100 E	80	5*
1 16	0 49.87	+55 37.0	0.241	1.051	67.4	20.0	100 E	79*	4*
1 17	0 48.79	+56 23.6	0.250	1.052	67.4	20.1	99 E	78*	3*
1 18	0 47.82	+57 7.1	0.260	1.054	67.4	20.2	98 E	78*	2*
1 19	0 46.97	+57 47.9	0.269	1.055	67.4	20.2	98 E	77*	1*
1 20	0 46.23	+58 26.2	0.278	1.057	67.3	20.3	98 E	76*	—
1 21	0 45.60	+59 2.3	0.288	1.058	67.3	20.4	97 E	75*	—
1 22	0 45.07	+59 36.5	0.297	1.060	67.3	20.5	97 E	74*	—
1 24	0 44.30	+60 39.9	0.315	1.063	67.1	20.6	96 E	73*	—
1 26	0 43.88	+61 37.6	0.333	1.066	67.0	20.7	95 E	71*	—
1 28	0 43.80	+62 30.8	0.351	1.069	66.8	20.8	94 E	70*	—
1 30	0 44.04	+63 20.3	0.369	1.071	66.6	20.9	93 E	68*	—
2 1	0 44.57	+64 6.7	0.386	1.074	66.4	21.0	93 E	67*	—
2 6	0 47.07	+65 52.5	0.428	1.080	65.9	21.3	91 E	64*	—
2 11	0 51.17	+67 28.0	0.469	1.086	65.3	21.4	89 E	61*	—
2 16	0 56.85	+68 56.9	0.506	1.091	64.7	21.6	88 E	59*	—
2 21	1 4.19	+70 21.7	0.541	1.096	64.2	21.7	86 E	56*	—
450274 2004 BQ_{102}									
12 23	2 20.05	−14 46.6	1.812	2.382	22.2	20.9	114 E	30	79
12 28	2 18.64	−13 31.3	1.841	2.359	23.1	21.0	109 E	31	78
1 2	2 18.01	−12 12.2	1.873	2.336	23.9	21.0	105 E	33	76
1 7	2 18.15	−10 50.0	1.907	2.313	24.6	21.1	101 E	34	75*
1 12	2 19.02	− 9 25.4	1.943	2.290	25.2	21.1	98 E	36	72*
1 17	2 20.60	− 7 59.0	1.979	2.266	25.7	21.1	94 E	37	69*
1 22	2 22.85	− 6 31.2	2.016	2.243	26.0	21.2	90 E	38	66*
1 27	2 25.75	− 5 2.5	2.053	2.219	26.3	21.2	86 E	40	62*
2 1	2 29.26	− 3 33.3	2.090	2.196	26.4	21.2	83 E	41	59*
2 6	2 33.35	− 2 3.9	2.127	2.172	26.5	21.2	79 E	43*	56*
2 11	2 37.97	− 0 34.5	2.163	2.149	26.5	21.2	76 E	44*	53*
2 16	2 43.12	+ 0 54.7	2.198	2.125	26.3	21.2	73 E	44*	50*
2 21	2 48.76	+ 2 23.4	2.232	2.102	26.2	21.2	70 E	44*	47*
2 26	2 54.87	+ 3 51.4	2.265	2.078	25.9	21.2	66 E	44*	44*
3 2	3 1.44	+ 5 18.7	2.297	2.055	25.6	21.2	63 E	43*	42*
3 7	3 8.45	+ 6 45.1	2.327	2.032	25.2	21.2	61 E	42*	39*
3 12	3 15.88	+ 8 10.3	2.356	2.009	24.7	21.2	58 E	40*	37*
3 17	3 23.72	+ 9 34.3	2.383	1.986	24.2	21.2	55 E	39*	35*
3 22	3 31.96	+10 56.9	2.408	1.963	23.7	21.2	52 E	37*	33*
3 27	3 40.61	+12 18.0	2.432	1.940	23.1	21.2	50 E	35*	31*
4 1	3 49.66	+13 37.4	2.453	1.918	22.4	21.1	47 E	33*	29*
4 6	3 59.09	+14 55.0	2.473	1.896	21.8	21.1	45 E	31*	27*
4 11	4 8.92	+16 10.5	2.491	1.874	21.1	21.1	42 E	29*	26*
4 16	4 19.13	+17 23.8	2.507	1.853	20.3	21.0	40 E	27*	24*
4 21	4 29.73	+18 34.7	2.521	1.831	19.6	21.0	38 E	25*	22*
4 26	4 40.73	+19 42.9	2.533	1.811	18.8	21.0	35 E	23*	21*
5 1	4 52.12	+20 48.4	2.544	1.790	18.0	20.9	33 E	21*	19*
5 6	5 3.89	+21 50.7	2.553	1.771	17.2	20.9	31 E	19*	18*
5 11	5 16.06	+22 49.7	2.560	1.751	16.4	20.8	29 E	18*	16*
5 16	5 28.62	+23 45.0	2.565	1.733	15.6	20.8	28 E	16*	15*
5 21	5 41.57	+24 36.6	2.570	1.715	14.8	20.7	26 E	14*	14*
5 26	5 54.90	+25 23.9	2.572	1.697	14.0	20.7	24 E	13*	12*
5 31	6 8.61	+26 6.9	2.574	1.681	13.3	20.7	22 E	12*	11*
6 5	6 22.67	+26 45.1	2.574	1.665	12.5	20.6	21 E	10*	10*
6 10	6 37.09	+27 18.3	2.573	1.650	11.8	20.6	19 E	9*	8*
6 15	6 51.83	+27 46.1	2.571	1.635	11.1	20.5	18 E	9*	7*
6 20	7 6.90	+28 8.5	2.568	1.622	10.5	20.5	17 E	8*	6*
6 30	7 37.85	+28 35.5	2.560	1.598	9.4	20.4	15 E	7*	3*
7 10	8 9.68	+28 37.8	2.550	1.578	8.6	20.3	13 E	6*	1*
7 20	8 42.12	+28 14.4	2.540	1.563	8.1	20.3	13 E	6*	—
7 30	9 14.85	+27 25.1	2.529	1.553	8.0	20.2	12 E	6*	—
8 9	9 47.54	+26 11.0	2.520	1.547	8.2	20.2	13 E	7*	—
8 19	10 19.91	+24 33.8	2.513	1.546	8.7	20.2	13 E	7*	—
8 29	10 51.75	+22 36.4	2.510	1.550	9.2	20.3	14 E	7*	—
9 8	11 22.85	+20 22.4	2.509	1.559	9.7	20.3	15 E	7*	—
9 18	11 53.14	+17 55.7	2.513	1.573	10.3	20.3	16 E	7*	—
9 28	12 22.56	+15 20.8	2.520	1.592	10.8	20.4	17 E	7*	—
10 8	12 51.08	+12 41.9	2.530	1.614	11.4	20.5	19 W	8*	—
10 18	13 18.74	+10 3.0	2.542	1.641	11.9	20.5	20 W	10*	—
10 28	13 45.55	+ 7 28.0	2.556	1.671	12.6	20.6	21 W	13*	—
11 7	14 11.53	+ 4 59.9	2.569	1.704	13.2	20.7	23 W	16*	—
11 17	14 36.74	+ 2 41.2	2.582	1.740	14.0	20.8	25 W	19*	—
11 27	15 1.15	+ 0 33.8	2.591	1.778	15.0	20.8	28 W	22*	—
12 7	15 24.77	− 1 20.9	2.597	1.819	16.0	20.9	31 W	24*	4*
12 17	15 47.57	− 3 2.3	2.597	1.861	17.1	21.0	34 W	27*	9*
12 27	16 9.51	− 4 30.0	2.589	1.904	18.3	21.1	37 W	29*	14*
1 6	16 30.52	− 5 44.4	2.574	1.949	19.5	21.2	41 W	30*	21*
1 16	16 50.53	− 6 46.1	2.550	1.995	20.7	21.3	46 W	31*	27*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
				12520 1998 HV_{78}					
	h m	° ′			°	m	°	°	°
12 23	2 20.82	+15 29.4	1.084	1.855	24.9	17.2	127 E	60	49
1 2	2 28.95	+15 28.8	1.203	1.888	27.1	17.5	119 E	60	49
1 12	2 39.50	+15 45.2	1.331	1.922	28.4	17.8	111 E	61	48*
1 22	2 51.99	+16 14.1	1.466	1.956	29.2	18.1	104 E	61	47*
2 1	3 6.07	+16 51.2	1.607	1.991	29.4	18.3	98 E	62	45*
2 11	3 21.45	+17 33.0	1.751	2.026	29.1	18.5	91 E	63	43*
2 21	3 37.86	+18 16.2	1.898	2.062	28.5	18.7	85 E	63*	41*
3 2	3 55.12	+18 58.4	2.046	2.097	27.7	18.9	79 E	61*	39*
3 12	4 13.06	+19 37.5	2.193	2.132	26.5	19.0	73 E	58*	37*
3 22	4 31.51	+20 11.7	2.338	2.166	25.2	19.2	68 E	53*	35*
4 1	4 50.39	+20 39.7	2.480	2.201	23.7	19.3	62 E	48*	34*
4 11	5 9.54	+21 0.5	2.617	2.235	22.1	19.4	57 E	43*	32*
4 21	5 28.88	+21 13.4	2.750	2.269	20.3	19.5	52 E	37*	30*
5 1	5 48.32	+21 17.9	2.876	2.302	18.5	19.6	47 E	31*	28*
5 11	6 7.75	+21 13.7	2.995	2.334	16.6	19.6	41 E	25*	26*
5 21	6 27.10	+21 0.6	3.105	2.366	14.7	19.7	36 E	20*	24*
5 31	6 46.31	+20 38.9	3.206	2.397	12.7	19.7	31 E	14*	21*
6 10	7 5.29	+20 8.6	3.297	2.427	10.6	19.7	26 E	9*	18*
6 20	7 24.01	+19 30.3	3.378	2.457	8.5	19.7	21 E	4*	14*
6 30	7 42.41	+18 44.2	3.447	2.485	6.5	19.7	16 E	—	10*
7 10	8 0.44	+17 51.0	3.504	2.513	4.4	19.6	11 E	—	5*
7 20	8 18.09	+16 51.2	3.549	2.540	2.4	19.5	6 E	—	—
7 30	8 35.32	+15 45.4	3.580	2.567	1.1	19.5	3 W	—	—
8 9	8 52.09	+14 34.5	3.598	2.592	2.3	19.6	6 W	—	—
8 19	9 8.41	+13 19.0	3.602	2.616	4.3	19.8	11 W	2*	4*
8 29	9 24.24	+11 59.8	3.593	2.640	6.2	19.9	16 W	7*	7*
9 8	9 39.55	+10 37.5	3.569	2.662	8.2	20.0	22 W	13*	11*
9 18	9 54.33	+ 9 13.0	3.531	2.684	10.1	20.0	28 W	18*	15*
9 28	10 8.52	+ 7 47.2	3.478	2.705	11.9	20.1	34 W	24*	18*
10 8	10 22.09	+ 6 20.8	3.413	2.724	13.6	20.1	40 W	29*	22*
10 18	10 34.98	+ 4 54.9	3.334	2.743	15.2	20.1	46 W	34*	26*
10 28	10 47.11	+ 3 30.3	3.242	2.761	16.7	20.2	53 W	39*	31*
11 7	10 58.38	+ 2 8.2	3.139	2.777	18.0	20.1	60 W	42*	36*
11 17	11 8.66	+ 0 49.7	3.027	2.793	19.0	20.1	67 W	44*	42*
11 27	11 17.81	− 0 23.9	2.905	2.808	19.8	20.1	74 W	45*	48*
12 7	11 25.64	− 1 31.2	2.778	2.821	20.2	20.0	82 W	43	54*
12 17	11 31.94	− 2 30.7	2.646	2.834	20.3	19.9	91 W	42	61*
12 27	11 36.46	− 3 20.4	2.514	2.846	19.9	19.8	99 W	42	66*
1 6	11 38.95	− 3 58.4	2.384	2.856	19.0	19.6	109 W	41	68
1 16	11 39.17	− 4 22.5	2.261	2.866	17.5	19.5	119 W	41	68
				5131 1990 BG					
12 23	2 22.31	−32 8.0	1.689	2.144	26.5	18.7	104 E	13	84
12 28	2 21.13	−30 11.2	1.749	2.161	26.6	18.8	101 E	15	86
1 2	2 20.88	−28 14.7	1.811	2.177	26.6	18.9	98 E	17	88
1 7	2 21.45	−26 19.4	1.875	2.193	26.5	19.0	95 E	19	89*
1 12	2 22.76	−24 26.1	1.940	2.207	26.4	19.1	92 E	21	85*
1 17	2 24.72	−22 35.0	2.006	2.221	26.3	19.1	89 E	22	80*
1 22	2 27.27	−20 46.5	2.073	2.234	26.1	19.2	86 E	24	76*
2 1	2 33.91	−17 18.2	2.208	2.257	25.5	19.4	80 E	28	68*
2 11	2 42.24	−14 2.2	2.342	2.277	24.6	19.5	74 E	31*	62*
2 21	2 51.94	−10 58.9	2.474	2.294	23.6	19.6	68 E	32*	56*
3 2	3 2.79	− 8 8.1	2.600	2.308	22.3	19.7	62 E	31*	50*
3 12	3 14.59	− 5 29.5	2.719	2.319	20.9	19.7	56 E	29*	45*
3 22	3 27.19	− 3 2.7	2.830	2.326	19.3	19.8	50 E	25*	40*
4 1	3 40.49	− 0 47.3	2.930	2.331	17.6	19.8	45 E	21*	36*
4 11	3 54.39	+ 1 17.0	3.018	2.332	15.8	19.8	39 E	16*	31*
4 21	4 8.82	+ 3 10.7	3.094	2.330	14.0	19.8	34 E	11*	27*
5 1	4 23.73	+ 4 53.9	3.156	2.325	12.1	19.8	29 E	5*	23*
5 11	4 39.06	+ 6 27.0	3.203	2.317	10.2	19.7	24 E	—	18*
5 21	4 54.77	+ 7 50.4	3.235	2.306	8.5	19.6	20 E	—	13*
5 31	5 10.82	+ 9 4.2	3.251	2.292	6.9	19.6	16 E	—	8*
6 10	5 27.19	+10 8.7	3.251	2.275	5.9	19.5	13 E	—	3*
6 20	5 43.85	+11 4.3	3.235	2.254	5.7	19.5	13 W	—	2*
6 30	6 0.78	+11 51.2	3.202	2.230	6.4	19.5	14 W	—	7*
7 10	6 17.95	+12 29.9	3.153	2.203	7.9	19.5	17 W	—	11*
7 20	6 35.37	+13 0.8	3.089	2.173	9.7	19.5	21 W	1*	15*
7 30	6 53.03	+13 24.3	3.008	2.139	11.9	19.5	26 W	7*	18*
8 9	7 10.94	+13 41.0	2.913	2.102	14.1	19.4	30 W	13*	21*
8 19	7 29.12	+13 51.7	2.804	2.061	16.4	19.4	35 W	20*	24*
8 29	7 47.60	+13 57.1	2.681	2.017	18.8	19.3	40 W	26*	26*
9 8	8 6.45	+13 58.2	2.546	1.969	21.2	19.2	45 W	31*	28*
9 18	8 25.78	+13 56.2	2.400	1.917	23.7	19.1	50 W	37*	30*
9 28	8 45.68	+13 52.5	2.244	1.862	26.2	19.0	55 W	42*	31*
10 8	9 6.39	+13 48.7	2.081	1.802	28.7	18.8	60 W	47*	33*
10 18	9 28.17	+13 46.9	1.911	1.739	31.2	18.6	65 W	51*	34*
10 28	9 51.43	+13 49.5	1.737	1.671	33.8	18.4	69 W	54*	35*
11 7	10 16.76	+13 59.4	1.563	1.599	36.5	18.2	74 W	57*	36*
11 17	10 45.03	+14 19.7	1.390	1.523	39.3	17.9	78 W	59*	37*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
				5131 1990 BG *(continuation)*					
	h m	° ′			°	m	°	°	°
11 22	11 0.63	+14 34.8	1.306	1.483	40.9	17.7	79 W	59*	37*
11 27	11 17.46	+14 53.6	1.224	1.443	42.5	17.6	81 W	60*	37*
12 2	11 35.76	+15 16.0	1.145	1.401	44.2	17.4	82 W	60*	37*
12 7	11 55.81	+15 41.9	1.070	1.358	46.0	17.3	83 W	61*	37*
12 12	12 17.90	+16 10.5	0.999	1.314	48.0	17.1	83 W	61	36*
12 17	12 42.32	+16 40.4	0.934	1.269	50.3	16.9	83 W	62*	35*
12 22	13 9.33	+17 9.1	0.876	1.223	52.8	16.8	82 W	62*	34*
12 27	13 39.07	+17 32.8	0.826	1.176	55.6	16.7	81 W	62*	33*
1 1	14 11.51	+17 46.5	0.786	1.129	58.6	16.5	78 W	62*	31*
1 6	14 46.28	+17 44.5	0.757	1.080	61.8	16.5	76 W	62*	29*
1 11	15 22.68	+17 21.9	0.739	1.032	65.0	16.4	72 W	60*	27*
1 16	15 59.71	+16 35.5	0.734	0.983	68.1	16.4	68 W	57*	25*
				431177 2006 SJ_{11}					
12 23	2 22.42	+19 30.6	1.381	2.141	20.9	21.4	129 E	65	44
1 2	2 25.23	+19 45.5	1.513	2.173	23.2	21.7	120 E	65	44
1 12	2 31.02	+20 11.3	1.655	2.205	24.6	22.0	111 E	65	44*
1 22	2 39.28	+20 45.9	1.804	2.237	25.4	22.2	103 E	66	42*
2 1	2 49.61	+21 27.2	1.957	2.268	25.6	22.4	95 E	66	40*
				366733 2004 BG_{121}					
12 23	2 23.53	−22 41.9	0.743	1.418	40.8	20.8	110 E	22	87
12 28	2 30.40	−19 22.0	0.786	1.442	40.2	21.0	109 E	26	83
1 2	2 37.48	−16 11.0	0.832	1.467	39.7	21.1	108 E	29	80
1 7	2 44.78	−13 9.3	0.881	1.492	39.3	21.3	106 E	32	77
1 12	2 52.28	−10 17.2	0.932	1.516	38.9	21.4	105 E	35	74
				334626 2002 VF_{39}					
12 23	2 24.57	+10 35.8	1.090	1.854	25.2	20.1	127 E	56	53
1 2	2 30.15	+12 25.2	1.206	1.884	27.3	20.4	118 E	57	52
1 12	2 38.65	+14 14.2	1.331	1.915	28.7	20.7	111 E	59	50*
1 22	2 49.56	+16 0.6	1.464	1.947	29.4	21.0	104 E	61	47*
2 1	3 2.50	+17 43.0	1.602	1.980	29.6	21.2	97 E	63	44*
2 11	3 17.10	+19 20.1	1.745	2.013	29.4	21.4	91 E	64	41*
				326350 2000 SS_{217}					
12 23	2 26.24	+12 35.2	1.169	1.934	23.7	20.5	128 E	58	51
1 2	2 30.75	+13 48.6	1.296	1.971	25.9	20.8	119 E	59	50
1 12	2 38.14	+15 6.2	1.433	2.007	27.2	21.1	111 E	60	49*
1 22	2 47.90	+16 25.7	1.577	2.043	27.9	21.4	103 E	61	47*
2 1	2 59.63	+17 45.2	1.726	2.079	28.1	21.6	96 E	63	44*
				63160 2000 YN_{8}					
12 23	2 26.41	+ 4 26.0	1.408	2.127	22.4	19.3	125 E	49	60
1 2	2 29.27	+ 5 47.1	1.539	2.157	24.2	19.5	116 E	51	58
1 12	2 34.85	+ 7 14.7	1.679	2.187	25.4	19.8	108 E	52	57*
1 22	2 42.72	+ 8 45.7	1.826	2.216	25.9	20.0	100 E	54	54*
2 1	2 52.52	+10 17.8	1.976	2.245	26.0	20.2	92 E	55	50*
2 11	3 3.95	+11 48.9	2.127	2.274	25.6	20.4	86 E	57*	47*
2 21	3 16.71	+13 17.3	2.279	2.302	24.9	20.6	79 E	57*	43*
3 2	3 30.62	+14 41.9	2.428	2.329	23.9	20.7	72 E	55*	40*
3 12	3 45.49	+16 1.3	2.574	2.355	22.7	20.8	66 E	51*	36*
3 22	4 1.14	+17 14.7	2.714	2.381	21.3	20.9	60 E	46*	33*
4 1	4 17.48	+18 21.3	2.848	2.406	19.7	21.0	54 E	41*	31*
4 11	4 34.37	+19 20.3	2.974	2.431	18.0	21.0	49 E	36*	28*
4 21	4 51.72	+20 11.4	3.092	2.454	16.2	21.1	43 E	30*	25*
5 1	5 9.43	+20 54.0	3.200	2.477	14.3	21.1	37 E	24*	22*
5 11	5 27.40	+21 28.0	3.298	2.499	12.4	21.1	32 E	19*	19*
5 21	5 45.56	+21 53.1	3.384	2.520	10.3	21.1	27 E	13*	16*
5 31	6 3.82	+22 9.4	3.459	2.540	8.3	21.1	21 E	8*	12*
6 10	6 22.10	+22 17.0	3.521	2.559	6.2	21.1	16 E	3*	8*
6 20	6 40.34	+22 16.1	3.570	2.577	4.1	21.0	11 E	—	4*
6 30	6 58.46	+22 7.0	3.606	2.595	2.0	20.9	5 E	—	—
7 10	7 16.39	+21 50.2	3.628	2.611	0.2	20.7	1 W	—	—
7 20	7 34.08	+21 26.2	3.636	2.627	2.2	21.0	6 W	—	—
7 30	7 51.47	+20 55.6	3.630	2.641	4.3	21.1	11 W	3*	3*
8 9	8 8.50	+20 19.3	3.610	2.655	6.3	21.2	17 W	8*	6*
8 19	8 25.14	+19 38.0	3.576	2.668	8.3	21.3	22 W	14*	10*
8 29	8 41.32	+18 52.6	3.528	2.679	10.2	21.3	28 W	19*	13*
9 8	8 56.99	+18 4.2	3.466	2.690	12.1	21.4	34 W	25*	16*
9 18	9 12.11	+17 13.7	3.391	2.700	13.8	21.4	40 W	31*	19*
9 28	9 26.60	+16 22.4	3.303	2.708	15.5	21.4	46 W	37*	22*
10 8	9 40.38	+15 31.7	3.203	2.716	17.0	21.4	53 W	43*	25*
10 18	9 53.39	+14 43.0	3.092	2.723	18.3	21.4	59 W	48*	29*
10 28	10 5.49	+13 57.8	2.972	2.729	19.5	21.3	66 W	53*	33*
11 7	10 16.57	+13 18.0	2.844	2.733	20.3	21.3	74 W	56*	37*
11 17	10 26.44	+12 45.6	2.709	2.737	20.9	21.2	81 W	58*	41*
11 27	10 34.91	+12 22.6	2.570	2.740	21.1	21.1	89 W	57	45*
12 7	10 41.76	+12 11.2	2.430	2.741	20.9	20.9	98 W	57	49*
12 17	10 46.69	+12 13.8	2.292	2.742	20.1	20.8	107 W	57	51*
12 27	10 49.41	+12 32.4	2.160	2.742	18.7	20.6	116 W	58	51

63160 2000 YN_8 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 6	10 49.66	+13 8.3	2.038	2.741	16.7	20.4	127 W	58	51
1 16	10 47.23	+14 1.6	1.931	2.738	14.0	20.2	138 W	59	50

306811 2001 QV_{147}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 26.56	− 6 3.0	1.891	2.527	19.8	19.5	120 E	39	70
1 2	2 28.13	− 4 23.7	2.047	2.572	20.9	19.7	111 E	41	68
1 12	2 31.95	− 2 39.9	2.211	2.617	21.5	20.0	103 E	42	66*
1 22	2 37.71	− 0 54.7	2.382	2.661	21.6	20.2	95 E	44	63*
2 1	2 45.13	+ 0 49.7	2.556	2.705	21.3	20.3	88 E	46	58*
2 11	2 53.92	+ 2 31.7	2.730	2.748	20.8	20.5	81 E	47*	53*
2 21	3 3.86	+ 4 9.9	2.903	2.790	19.9	20.6	74 E	47*	48*
3 2	3 14.76	+ 5 43.5	3.072	2.831	18.8	20.8	67 E	45*	44*
3 12	3 26.45	+ 7 11.8	3.235	2.872	17.5	20.9	60 E	41*	40*
3 22	3 38.78	+ 8 34.2	3.390	2.912	16.0	20.9	54 E	36*	36*
4 1	3 51.66	+ 9 50.3	3.537	2.951	14.4	21.0	47 E	31*	32*
4 11	4 4.95	+10 59.7	3.672	2.990	12.7	21.1	41 E	25*	28*
4 21	4 18.57	+12 2.2	3.796	3.027	11.0	21.1	35 E	19*	24*
5 1	4 32.44	+12 57.7	3.907	3.064	9.1	21.1	29 E	12*	20*
5 11	4 46.47	+13 46.0	4.004	3.100	7.3	21.1	23 E	6*	16*
5 21	5 0.59	+14 27.1	4.087	3.135	5.5	21.1	17 E	—	11*
5 31	5 14.73	+15 1.1	4.153	3.169	3.9	21.1	12 E	—	6*
6 10	5 28.79	+15 28.1	4.204	3.203	2.6	21.0	8 E	—	1*
6 20	5 42.73	+15 48.3	4.238	3.235	2.6	21.1	8 W	—	—
6 30	5 56.46	+16 2.1	4.256	3.267	3.7	21.2	12 W	—	6*
7 10	6 9.90	+16 9.7	4.256	3.298	5.2	21.3	17 W	—	11*
7 20	6 22.99	+16 11.7	4.240	3.328	6.8	21.4	23 W	6*	16*
7 30	6 35.63	+16 8.4	4.207	3.357	8.5	21.4	29 W	12*	20*
8 9	6 47.74	+16 0.6	4.158	3.386	10.0	21.5	36 W	19*	24*

227764 2006 SU_{59}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 27.05	+28 10.3	1.279	2.068	20.8	20.4	132 E	73	36
1 2	2 31.14	+27 17.9	1.403	2.103	23.2	20.7	123 E	72	37
1 12	2 38.29	+26 43.5	1.537	2.137	24.8	21.0	114 E	72	37*
1 22	2 47.92	+26 24.7	1.680	2.170	25.8	21.3	106 E	71	37*
2 1	2 59.59	+26 18.7	1.830	2.204	26.2	21.5	99 E	71	36*

337066 1998 BM_{10}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 27.45	−17 28.8	1.994	2.550	20.7	20.7	113 E	28	81
12 28	2 26.21	−16 32.2	2.028	2.531	21.5	20.7	109 E	28	81
1 2	2 25.69	−15 31.4	2.064	2.512	22.2	20.7	105 E	29	80
1 7	2 25.87	−14 27.1	2.102	2.492	22.7	20.8	102 E	31	78
1 12	2 26.73	−13 19.9	2.141	2.472	23.2	20.8	98 E	32	77*
1 17	2 28.24	−12 10.5	2.181	2.453	23.6	20.9	94 E	33	74*
1 22	2 30.37	−10 59.4	2.221	2.432	23.9	20.9	90 E	34	70*
1 27	2 33.10	− 9 46.9	2.262	2.412	24.0	20.9	87 E	35	67*
2 1	2 36.40	− 8 33.5	2.302	2.392	24.1	20.9	83 E	36	64*
2 6	2 40.23	− 7 19.6	2.342	2.371	24.1	20.9	80 E	38*	61*
2 11	2 44.56	− 6 5.4	2.380	2.350	24.1	21.0	76 E	39*	58*
2 16	2 49.36	− 4 51.2	2.418	2.329	23.9	21.0	73 E	39*	55*
2 21	2 54.61	− 3 37.1	2.455	2.308	23.7	21.0	70 E	39*	52*
2 26	3 0.29	− 2 23.5	2.491	2.287	23.4	21.0	67 E	39*	49*
3 2	3 6.38	− 1 10.5	2.525	2.266	23.1	21.0	64 E	38*	47*
3 7	3 12.86	+ 0 1.8	2.557	2.244	22.7	21.0	61 E	37*	44*
3 12	3 19.70	+ 1 13.2	2.587	2.223	22.2	21.0	58 E	35*	42*
3 17	3 26.90	+ 2 23.5	2.616	2.201	21.7	21.0	55 E	34*	40*
3 22	3 34.44	+ 3 32.6	2.643	2.180	21.2	20.9	52 E	32*	38*
3 27	3 42.31	+ 4 40.3	2.668	2.158	20.6	20.9	50 E	30*	36*
4 1	3 50.51	+ 5 46.6	2.690	2.136	20.0	20.9	47 E	28*	34*
4 6	3 59.02	+ 6 51.3	2.711	2.114	19.3	20.9	44 E	25*	32*
4 11	4 7.83	+ 7 54.3	2.729	2.092	18.6	20.8	42 E	23*	30*
4 16	4 16.94	+ 8 55.4	2.746	2.071	17.9	20.8	39 E	21*	29*
4 21	4 26.35	+ 9 54.5	2.760	2.049	17.2	20.8	37 E	19*	27*
4 26	4 36.05	+10 51.5	2.772	2.027	16.4	20.7	35 E	16*	25*
5 1	4 46.04	+11 46.2	2.783	2.005	15.6	20.7	32 E	14*	24*
5 6	4 56.30	+12 38.5	2.791	1.984	14.8	20.6	30 E	12*	22*
5 11	5 6.84	+13 28.3	2.797	1.962	13.9	20.6	28 E	10*	20*
5 16	5 17.66	+14 15.5	2.801	1.941	13.1	20.5	26 E	7*	18*
5 21	5 28.75	+14 59.8	2.803	1.919	12.2	20.5	24 E	5*	17*
5 31	5 51.72	+16 19.5	2.802	1.878	10.4	20.4	20 E	2*	13*
6 10	6 15.70	+17 26.3	2.794	1.837	8.6	20.2	16 E	—	9*
6 20	6 40.67	+18 19.3	2.780	1.797	6.7	20.1	12 E	—	6*
6 30	7 6.55	+18 57.4	2.759	1.759	4.7	19.9	8 E	—	2*
7 10	7 33.27	+19 20.0	2.734	1.722	2.7	19.8	5 E	—	—
7 20	8 0.74	+19 26.4	2.704	1.688	0.8	19.5	1 E	—	—
7 30	8 28.89	+19 16.3	2.670	1.656	1.4	19.5	2 W	—	—
8 9	8 57.59	+18 49.6	2.634	1.628	3.3	19.6	5 W	—	—
8 19	9 26.76	+18 6.6	2.596	1.602	5.3	19.6	8 W	2*	—
8 29	9 56.29	+17 8.1	2.557	1.580	7.2	19.7	11 W	5*	—
9 8	10 26.08	+15 55.1	2.518	1.562	9.1	19.7	14 W	8*	—
9 18	10 56.06	+14 29.4	2.480	1.547	11.0	19.7	17 W	11*	—
9 28	11 26.12	+12 52.8	2.443	1.538	12.7	19.7	20 W	14*	—

337066 1998 BM_{10} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 8	11 56.19	+11 8.0	2.408	1.532	14.4	19.7	22 W	16*	—
10 18	12 26.21	+ 9 17.8	2.376	1.532	15.9	19.8	25 W	19*	—
10 28	12 56.10	+ 7 25.2	2.347	1.536	17.4	19.8	28 W	21*	1*
11 7	13 25.76	+ 5 33.6	2.320	1.544	18.7	19.8	30 W	24*	3*
11 17	13 55.13	+ 3 46.0	2.297	1.557	20.0	19.9	33 W	26*	4*
11 27	14 24.10	+ 2 5.6	2.275	1.574	21.1	19.9	35 W	29*	7*
12 7	14 52.54	+ 0 35.0	2.255	1.595	22.2	19.9	38 W	31*	10*
12 17	15 20.35	− 0 43.8	2.236	1.620	23.3	20.0	41 W	32*	14*
12 27	15 47.37	− 1 49.1	2.216	1.648	24.2	20.0	43 W	34*	18*
1 6	16 13.47	− 2 40.2	2.194	1.679	25.2	20.1	47 W	35*	23*
1 16	16 38.52	− 3 16.8	2.170	1.713	26.1	20.1	50 W	35*	28*

225416 1999 YC

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 28.13	+ 5 11.1	1.573	2.287	20.5	21.0	125 E	50	59
1 2	2 16.74	+ 6 2.0	1.658	2.234	23.9	21.2	113 E	51	58
1 12	2 9.64	+ 7 6.2	1.753	2.176	26.3	21.3	102 E	52	56*
1 22	2 6.39	+ 8 21.5	1.850	2.114	27.7	21.4	91 E	53	51*
2 1	2 6.53	+ 9 46.0	1.943	2.046	28.5	21.5	82 E	55*	45*
2 11	2 9.57	+11 18.1	2.027	1.972	28.5	21.5	73 E	54*	39*
2 21	2 15.09	+12 56.6	2.098	1.893	28.1	21.4	64 E	50*	34*
3 2	2 22.79	+14 41.1	2.151	1.807	27.3	21.4	57 E	46*	28*
3 12	2 32.47	+16 30.9	2.185	1.714	26.1	21.3	49 E	40*	24*
3 22	2 44.03	+18 25.9	2.198	1.614	24.8	21.1	43 E	34*	19*
4 1	2 57.47	+20 26.2	2.186	1.506	23.3	20.9	37 E	29*	15*
4 11	3 12.93	+22 31.8	2.149	1.388	21.8	20.6	31 E	24*	11*
4 21	3 30.69	+24 42.8	2.085	1.260	20.4	20.3	26 E	19*	8*
5 1	3 51.28	+26 59.3	1.992	1.119	19.4	19.9	22 E	15*	4*
5 6	4 2.89	+28 9.3	1.934	1.044	19.2	19.7	20 E	13*	3*
5 11	4 15.57	+29 19.9	1.868	0.965	19.4	19.5	18 E	12*	1*
5 16	4 29.52	+30 30.6	1.793	0.881	20.0	19.2	17 E	11*	—
5 21	4 45.01	+31 40.0	1.709	0.793	21.3	18.9	17 E	10*	—
5 26	5 2.37	+32 45.6	1.613	0.699	23.8	18.6	16 E	10*	—
5 31	5 21.98	+33 42.7	1.504	0.600	27.9	18.2	16 E	10*	—
6 2	5 30.53	+34 1.2	1.456	0.559	30.3	18.1	16 E	10*	—
6 4	5 39.51	+34 15.9	1.406	0.517	33.3	17.9	16 E	10*	—
6 6	5 48.92	+34 25.3	1.352	0.474	37.1	17.7	16 E	10*	—
6 8	5 58.70	+34 27.4	1.294	0.431	41.9	17.6	16 E	10*	—
6 10	6 8.74	+34 19.2	1.232	0.388	48.2	17.4	17 E	10*	—
6 11	6 13.79	+34 10.0	1.200	0.367	52.0	17.3	17 E	10*	—
6 12	6 18.80	+33 56.5	1.166	0.347	56.3	17.3	17 E	10*	—
6 13	6 23.70	+33 37.7	1.131	0.327	61.4	17.2	16 E	10*	—
6 14	6 28.39	+33 12.7	1.095	0.308	67.2	17.2	16 E	10*	1*
6 15	6 32.76	+32 40.2	1.057	0.290	74.0	17.2	16 E	9*	1*
6 16	6 36.65	+31 58.9	1.019	0.274	81.7	17.3	15 E	9*	1*
6 17	6 39.87	+31 7.1	0.980	0.261	90.4	17.4	15 E	8*	1*
6 18	6 42.24	+30 3.7	0.942	0.251	100.2	17.7	14 E	7*	2*
6 19	6 43.55	+28 47.5	0.904	0.244	110.7	18.1	13 E	5*	2*
6 20	6 43.67	+27 18.2	0.869	0.241	121.8	18.8	12 E	4*	2*
6 21	6 42.56	+25 36.7	0.836	0.243	132.8	19.7	10 E	2*	2*
6 22	6 40.30	+23 44.7	0.808	0.248	142.9	21.0	8 E	—	1*

304908 2007 RM_{281}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 29.34	− 0 0.6	1.001	1.746	28.1	19.2	123 E	45	64
12 28	2 32.70	+ 1 35.7	1.049	1.759	29.0	19.3	120 E	47	62
1 2	2 36.80	+ 3 10.8	1.101	1.773	29.8	19.4	116 E	48	61
1 7	2 41.56	+ 4 44.0	1.155	1.788	30.4	19.6	113 E	50	59
1 12	2 46.94	+ 6 15.0	1.211	1.802	30.8	19.7	110 E	51	58
1 22	2 59.33	+ 9 8.7	1.330	1.834	31.4	20.0	104 E	54	54*
2 1	3 13.62	+11 50.1	1.457	1.867	31.5	20.2	98 E	57	51*
2 11	3 29.48	+14 17.9	1.590	1.902	31.2	20.4	92 E	59	47*
2 21	3 46.63	+16 31.4	1.727	1.938	30.6	20.6	87 E	61*	44*
3 2	4 4.87	+18 30.3	1.867	1.976	29.7	20.8	81 E	61*	41*
3 12	4 23.99	+20 14.2	2.010	2.014	28.6	21.0	76 E	60*	38*
3 22	4 43.80	+21 43.2	2.153	2.053	27.3	21.1	71 E	56*	36*
4 1	5 4.16	+22 57.3	2.295	2.093	25.8	21.3	66 E	52*	34*
4 11	5 24.91	+23 56.7	2.436	2.133	24.2	21.4	61 E	48*	32*

513233 2005 WE_2

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 29.80	+ 2 50.4	0.842	1.618	30.0	20.4	125 E	48	61
12 28	2 30.07	+ 5 19.5	0.887	1.627	31.3	20.5	121 E	50	59
1 2	2 31.48	+ 7 41.4	0.936	1.637	32.4	20.7	117 E	53	56
1 7	2 33.94	+ 9 55.9	0.987	1.646	33.3	20.8	113 E	55	54
1 12	2 37.34	+12 3.1	1.040	1.655	34.0	21.0	110 E	57	52*
1 17	2 41.60	+14 3.3	1.095	1.665	34.5	21.1	106 E	59	50*
1 22	2 46.65	+15 56.9	1.152	1.675	34.9	21.3	103 E	61	47*
1 27	2 52.44	+17 44.1	1.211	1.685	35.2	21.4	100 E	63	45*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
306587 2000 FL_{24}									
	h m	° ′			°	m	°	°	°
12 23	2 30.65	+ 3 50.0	2.322	3.000	15.5	20.9	125 E	49	60
1 2	2 29.80	+ 4 40.8	2.483	3.038	17.0	21.1	115 E	50	59
1 12	2 31.18	+ 5 38.8	2.654	3.076	17.9	21.3	106 E	51	58*
1 22	2 34.54	+ 6 42.1	2.832	3.112	18.3	21.5	97 E	52	55*
2 1	2 39.63	+ 7 48.7	3.013	3.148	18.2	21.6	89 E	53	51*
168381 1997 LY_{4}									
12 23	2 31.06	+17 12.2	1.141	1.929	22.9	19.5	130 E	62	47
1 2	2 35.04	+16 31.7	1.265	1.960	25.5	19.8	121 E	62	47
1 12	2 42.01	+16 15.0	1.398	1.990	27.2	20.1	112 E	61	48*
1 22	2 51.40	+16 16.6	1.538	2.019	28.2	20.4	104 E	61	47*
2 1	3 2.78	+16 31.8	1.682	2.046	28.6	20.6	97 E	62	45*
2 11	3 15.77	+16 56.2	1.828	2.072	28.4	20.8	90 E	62	43*
2 21	3 30.06	+17 26.1	1.974	2.096	27.9	21.0	83 E	62*	41*
3 2	3 45.44	+17 58.5	2.118	2.120	27.1	21.2	77 E	59*	39*
3 12	4 1.72	+18 30.8	2.258	2.142	25.9	21.3	70 E	55*	37*
3 22	4 18.73	+19 0.8	2.393	2.162	24.6	21.4	65 E	51*	35*
4 1	4 36.37	+19 27.0	2.523	2.181	23.1	21.5	59 E	45*	33*
150340 1999 XH_{31}									
12 23	2 31.08	+14 56.8	0.908	1.712	26.3	18.0	130 E	60	49
1 2	2 40.86	+15 9.2	1.014	1.745	28.6	18.4	122 E	60	49
1 12	2 53.02	+15 37.4	1.130	1.779	30.2	18.7	115 E	61	48
1 22	3 7.09	+16 16.1	1.254	1.815	31.1	19.0	108 E	61	48*
2 1	3 22.72	+17 1.1	1.385	1.851	31.4	19.3	101 E	62	46*
2 11	3 39.59	+17 48.5	1.521	1.889	31.3	19.5	95 E	63	44*
2 21	3 57.43	+18 35.0	1.661	1.927	30.9	19.8	90 E	64*	43*
3 2	4 16.06	+19 18.3	1.804	1.965	30.1	20.0	84 E	63*	41*
3 12	4 35.29	+19 56.2	1.949	2.004	29.1	20.1	79 E	61*	39*
3 22	4 54.96	+20 27.3	2.093	2.043	27.8	20.3	73 E	57*	38*
4 1	5 14.95	+20 50.3	2.237	2.081	26.4	20.4	68 E	52*	37*
4 11	5 35.14	+21 4.6	2.379	2.120	24.9	20.6	63 E	47*	35*
4 21	5 55.39	+21 9.5	2.517	2.158	23.2	20.7	58 E	42*	34*
5 1	6 15.64	+21 4.8	2.651	2.195	21.5	20.8	53 E	36*	33*
5 11	6 35.78	+20 50.6	2.780	2.232	19.6	20.9	48 E	30*	31*
5 21	6 55.73	+20 26.9	2.902	2.269	17.7	20.9	43 E	24*	29*
5 31	7 15.44	+19 54.2	3.017	2.305	15.7	21.0	38 E	19*	27*
6 10	7 34.84	+19 12.8	3.124	2.340	13.7	21.0	33 E	13*	24*
6 20	7 53.90	+18 23.4	3.222	2.375	11.7	21.0	28 E	8*	20*
6 30	8 12.58	+17 26.5	3.310	2.409	9.6	21.0	23 E	4*	16*
7 10	8 30.84	+16 22.9	3.387	2.442	7.5	21.0	18 E	—	12*
7 20	8 48.69	+15 13.2	3.452	2.474	5.4	21.0	13 E	—	7*
7 30	9 6.10	+13 58.1	3.506	2.505	3.3	20.9	8 E	—	2*
8 9	9 23.07	+12 38.5	3.546	2.535	1.4	20.9	4 E	—	—
8 19	9 39.59	+11 15.1	3.574	2.565	1.5	20.9	4 W	—	—
8 29	9 55.65	+ 9 48.6	3.587	2.593	3.3	21.1	9 W	—	2*
9 8	10 11.25	+ 8 19.8	3.587	2.620	5.3	21.2	14 W	6*	5*
9 18	10 26.38	+ 6 49.5	3.572	2.647	7.3	21.3	20 W	11*	9*
9 28	10 41.01	+ 5 18.5	3.542	2.672	9.3	21.4	25 W	16*	13*
10 8	10 55.12	+ 3 47.6	3.499	2.697	11.1	21.5	31 W	22*	16*
153842 2001 XT_{30}									
12 23	2 31.85	− 3 25.9	0.769	1.537	32.8	18.3	122 E	42	67
1 2	2 47.73	+ 0 19.1	0.890	1.604	32.8	18.8	118 E	45	64
1 12	3 3.88	+ 3 38.7	1.023	1.673	32.8	19.1	113 E	49	60
1 22	3 20.36	+ 6 34.6	1.168	1.743	32.5	19.5	108 E	52	57*
2 1	3 37.21	+ 9 8.9	1.322	1.814	32.0	19.9	103 E	54	54*
2 11	3 54.41	+11 23.4	1.485	1.885	31.3	20.2	97 E	56	52*
2 21	4 11.92	+13 19.5	1.655	1.957	30.3	20.5	92 E	58	49*
3 2	4 29.69	+14 58.9	1.830	2.027	29.2	20.7	87 E	59*	46*
3 12	4 47.66	+16 22.7	2.009	2.098	27.9	21.0	81 E	59*	44*
3 22	5 5.75	+17 31.8	2.189	2.167	26.4	21.2	76 E	56*	42*
4 1	5 23.91	+18 27.4	2.370	2.236	24.8	21.4	70 E	52*	40*
272499 2005 UJ_{157}									
12 23	2 31.96	+23 44.4	1.730	2.499	17.0	20.6	132 E	69	40
1 2	2 32.40	+23 9.0	1.863	2.526	19.3	20.8	122 E	68	41
1 12	2 35.72	+22 48.3	2.008	2.553	20.8	21.1	113 E	68	41*
1 22	2 41.51	+22 40.9	2.161	2.579	21.8	21.3	104 E	68	40*
2 1	2 49.40	+22 44.9	2.320	2.604	22.1	21.5	95 E	68	38*
215664 2003 UL_{214}									
12 23	2 32.08	+14 54.1	1.760	2.507	17.5	20.9	130 E	60	49
1 2	2 32.23	+14 40.1	1.891	2.526	19.8	21.2	120 E	60	49
1 12	2 35.12	+14 41.3	2.033	2.545	21.3	21.4	110 E	60	49*
1 22	2 40.41	+14 55.3	2.183	2.563	22.1	21.6	101 E	60	48*
2 1	2 47.77	+15 19.6	2.335	2.579	22.4	21.8	93 E	60	45*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
26209 1997 RD_{1}									
	h m	° ′			°	m	°	°	°
12 23	2 32.26	− 4 21.4	1.492	2.176	22.6	19.2	122 E	41	68
12 28	2 34.04	− 3 42.3	1.562	2.199	23.3	19.4	118 E	41	68
1 2	2 36.43	− 3 0.3	1.636	2.222	23.9	19.5	114 E	42	67
1 7	2 39.37	− 2 16.2	1.711	2.245	24.3	19.7	110 E	43	66
1 12	2 42.82	− 1 30.5	1.788	2.268	24.6	19.8	106 E	43	66*
1 22	2 51.09	+ 0 3.7	1.947	2.313	24.9	20.0	99 E	45	63*
2 1	3 0.93	+ 1 39.2	2.110	2.358	24.7	20.2	92 E	47	59*
2 11	3 12.09	+ 3 13.3	2.276	2.403	24.1	20.4	85 E	48	55*
2 21	3 24.31	+ 4 44.3	2.442	2.448	23.3	20.6	79 E	49*	51*
3 2	3 37.43	+ 6 10.6	2.606	2.493	22.3	20.7	72 E	47*	47*
3 12	3 51.28	+ 7 31.1	2.768	2.537	21.0	20.9	66 E	45*	44*
3 22	4 5.71	+ 8 44.9	2.925	2.580	19.6	21.0	60 E	41*	40*
4 1	4 20.62	+ 9 51.4	3.076	2.623	18.0	21.1	54 E	36*	37*
4 11	4 35.90	+10 49.9	3.219	2.665	16.4	21.1	49 E	30*	34*
4 21	4 51.45	+11 40.3	3.354	2.707	14.7	21.2	43 E	24*	31*
5 1	5 7.19	+12 22.3	3.479	2.748	12.9	21.3	37 E	18*	27*
5 11	5 23.04	+12 55.7	3.594	2.788	11.0	21.3	32 E	12*	24*
5 21	5 38.91	+13 20.7	3.697	2.827	9.2	21.3	26 E	6*	20*
5 31	5 54.75	+13 37.2	3.787	2.866	7.4	21.3	21 E	—	15*
6 10	6 10.47	+13 45.4	3.864	2.904	5.7	21.3	16 E	—	10*
6 20	6 26.02	+13 45.8	3.927	2.941	4.2	21.3	12 E	—	5*
6 30	6 41.33	+13 38.5	3.975	2.977	3.3	21.3	10 E	—	—
7 10	6 56.33	+13 24.1	4.008	3.013	3.4	21.3	10 W	—	3*
7 20	7 10.97	+13 3.0	4.026	3.048	4.5	21.4	14 W	—	8*
129322 2005 TN_{45}									
12 23	2 35.42	+27 1.9	1.845	2.620	15.8	20.8	133 E	72	37
1 2	2 33.99	+26 39.2	1.974	2.643	18.2	21.0	123 E	72	37
1 12	2 35.64	+26 27.2	2.115	2.664	19.8	21.2	113 E	71	37*
1 22	2 39.98	+26 25.9	2.265	2.685	20.8	21.4	104 E	71	37*
2 1	2 46.65	+26 34.5	2.420	2.705	21.2	21.6	96 E	72	35*
101402 1998 VG_{1}									
12 23	2 36.12	+15 29.5	1.281	2.064	21.1	18.9	131 E	60	49
1 2	2 38.56	+16 25.2	1.410	2.100	23.5	19.3	122 E	61	48
1 12	2 44.07	+17 26.3	1.550	2.135	25.1	19.6	113 E	62	47*
1 22	2 52.14	+18 31.0	1.697	2.171	26.0	19.8	105 E	64	45*
2 1	3 2.36	+19 37.6	1.850	2.206	26.3	20.0	97 E	65	42*
2 11	3 14.35	+20 44.5	2.006	2.241	26.1	20.3	90 E	66	40*
2 21	3 27.81	+21 50.0	2.164	2.275	25.6	20.4	84 E	66*	37*
3 2	3 42.49	+22 52.7	2.320	2.309	24.7	20.6	77 E	63*	34*
3 12	3 58.18	+23 51.3	2.474	2.343	23.6	20.7	71 E	59*	32*
3 22	4 14.69	+24 44.7	2.624	2.376	22.3	20.8	65 E	54*	29*
4 1	4 31.89	+25 32.1	2.769	2.408	20.8	20.9	59 E	49*	27*
4 11	4 49.63	+26 12.7	2.907	2.440	19.2	21.0	53 E	43*	25*
4 21	5 7.79	+26 45.8	3.038	2.471	17.4	21.1	47 E	37*	23*
5 1	5 26.27	+27 11.1	3.160	2.501	15.6	21.1	42 E	31*	21*
5 11	5 44.95	+27 28.4	3.272	2.531	13.7	21.2	36 E	26*	18*
5 21	6 3.74	+27 37.4	3.374	2.560	11.7	21.2	31 E	20*	15*
5 31	6 22.55	+27 38.3	3.464	2.587	9.8	21.2	26 E	15*	12*
6 10	6 41.29	+27 31.3	3.543	2.615	7.8	21.2	20 E	10*	9*
6 20	6 59.89	+27 16.6	3.608	2.641	5.8	21.2	15 E	6*	5*
6 30	7 18.28	+26 54.7	3.661	2.666	3.9	21.1	10 E	3*	1*
7 10	7 36.38	+26 26.1	3.700	2.691	2.3	21.0	6 E	—	—
7 20	7 54.16	+25 51.4	3.725	2.714	2.0	21.1	5 W	—	—
7 30	8 11.56	+25 11.4	3.735	2.737	3.3	21.2	9 W	3*	—
8 9	8 28.52	+24 26.9	3.731	2.759	5.1	21.3	14 W	8*	—
8 19	8 45.02	+23 38.8	3.712	2.780	7.0	21.4	20 W	13*	3*
8 29	9 1.00	+22 48.0	3.679	2.799	8.9	21.5	25 W	19*	7*
29180 1990 SW_{1}									
12 23	2 37.19	−18 38.1	1.076	1.734	31.1	17.0	115 E	26	83
12 28	2 41.05	−18 5.3	1.124	1.744	31.6	17.1	112 E	27	82
1 2	2 45.55	−17 24.9	1.174	1.755	32.1	17.2	109 E	28	81
1 7	2 50.63	−16 38.5	1.225	1.766	32.4	17.3	106 E	28	81
1 12	2 56.25	−15 47.2	1.277	1.778	32.6	17.5	103 E	29	80
1 17	3 2.35	−14 52.0	1.329	1.791	32.7	17.6	100 E	30	79*
1 22	3 8.90	−13 53.7	1.383	1.804	32.7	17.7	98 E	31	77*
1 27	3 15.87	−12 53.2	1.437	1.817	32.6	17.8	95 E	32	76*
2 1	3 23.23	−11 51.2	1.491	1.831	32.5	17.9	93 E	33	74*
2 6	3 30.93	−10 48.4	1.547	1.845	32.3	17.9	91 E	34	71*
2 11	3 38.94	− 9 45.4	1.602	1.859	32.0	18.0	88 E	35	69*
2 21	3 55.78	− 7 40.5	1.715	1.889	31.4	18.2	84 E	37*	66*
3 2	4 13.59	− 5 40.0	1.830	1.920	30.5	18.3	80 E	38*	62*
3 12	4 32.17	− 3 46.9	1.946	1.952	29.5	18.5	76 E	38*	59*
3 22	4 51.38	− 2 3.3	2.063	1.985	28.4	18.6	71 E	37*	56*
4 1	5 11.08	− 0 30.9	2.180	2.019	27.2	18.7	67 E	34*	53*
4 11	5 31.15	+ 0 49.1	2.298	2.053	25.9	18.8	63 E	31*	51*
4 21	5 51.45	+ 1 55.9	2.414	2.087	24.4	18.9	59 E	27*	48*
5 1	6 11.90	+ 2 49.1	2.530	2.122	22.9	19.0	55 E	23*	46*

29180 1990 SW_1 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 11	6 32.38	+ 3 28.4	2.643	2.156	21.4	19.1	51 E	18*	43*
5 21	6 52.79	+ 3 54.4	2.753	2.191	19.7	19.2	47 E	12*	40*
5 31	7 13.08	+ 4 7.2	2.860	2.225	18.0	19.3	43 E	7*	36*
6 10	7 33.14	+ 4 7.6	2.961	2.259	16.3	19.3	39 E	2*	33*
6 20	7 52.94	+ 3 56.4	3.058	2.293	14.5	19.3	34 E	—	28*
6 30	8 12.42	+ 3 34.3	3.147	2.327	12.8	19.4	30 E	—	24*
7 10	8 31.54	+ 3 2.5	3.229	2.360	11.0	19.4	26 E	—	19*
7 20	8 50.28	+ 2 22.0	3.302	2.393	9.3	19.4	22 E	—	14*
7 30	9 8.61	+ 1 33.6	3.366	2.425	7.7	19.4	19 E	—	8*
8 9	9 26.53	+ 0 38.6	3.419	2.457	6.3	19.4	15 E	—	3*
8 19	9 44.03	− 0 22.1	3.461	2.488	5.4	19.4	13 W	—	2*
8 29	10 1.09	− 1 27.5	3.492	2.518	5.2	19.5	13 W	—	5*
9 8	10 17.71	− 2 36.4	3.509	2.548	5.8	19.5	15 W	—	9*
9 18	10 33.89	− 3 48.0	3.513	2.577	7.0	19.6	18 W	2*	12*
9 28	10 49.60	− 5 1.2	3.504	2.605	8.4	19.7	22 W	7*	15*
10 8	11 4.82	− 6 14.9	3.480	2.633	10.0	19.8	27 W	13*	19*
10 18	11 19.53	− 7 28.3	3.442	2.659	11.7	19.8	33 W	18*	23*
10 28	11 33.67	− 8 40.1	3.390	2.685	13.3	19.9	39 W	22*	27*
11 7	11 47.18	− 9 49.3	3.324	2.711	14.9	19.9	45 W	26*	31*
11 17	12 0.00	−10 54.9	3.244	2.735	16.4	19.9	51 W	29*	37*
11 27	12 11.99	−11 55.4	3.153	2.758	17.6	19.9	58 W	31*	43*
12 7	12 23.04	−12 49.7	3.050	2.781	18.7	19.9	65 W	32*	49*
12 17	12 32.98	−13 36.2	2.937	2.802	19.6	19.9	72 W	31	57*
12 27	12 41.62	−14 13.2	2.816	2.823	20.1	19.8	80 W	31	64*
1 6	12 48.74	−14 39.0	2.691	2.843	20.2	19.7	89 W	30	72*
1 16	12 54.10	−14 51.3	2.563	2.862	19.9	19.6	97 W	30	78*

189080 2001 MO_6

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 38.01	+16 8.6	1.068	1.872	23.1	18.9	132 E	61	48
1 2	2 44.55	+15 55.4	1.181	1.903	25.7	19.2	123 E	61	48
1 12	2 53.78	+16 1.2	1.304	1.935	27.5	19.5	115 E	61	48
1 22	3 5.20	+16 21.0	1.436	1.968	28.5	19.8	107 E	61	47*
2 1	3 18.44	+16 50.4	1.574	2.001	29.0	20.1	100 E	62	46*
2 11	3 33.14	+17 25.7	1.716	2.035	28.9	20.3	94 E	62	44*
2 21	3 49.01	+18 3.2	1.861	2.069	28.5	20.5	87 E	63*	42*
3 2	4 5.84	+18 40.4	2.008	2.104	27.8	20.7	81 E	62*	41*
3 12	4 23.43	+19 14.8	2.155	2.138	26.8	20.8	76 E	59*	39*
3 22	4 41.61	+19 44.6	2.301	2.173	25.5	21.0	70 E	55*	37*
4 1	5 0.25	+20 8.6	2.444	2.207	24.1	21.1	65 E	50*	35*
4 11	5 19.20	+20 25.4	2.583	2.242	22.6	21.2	59 E	44*	34*
4 21	5 38.36	+20 34.4	2.718	2.276	20.9	21.3	54 E	39*	32*
5 1	5 57.63	+20 35.0	2.847	2.309	19.1	21.4	49 E	33*	30*
5 11	6 16.90	+20 27.0	2.969	2.343	17.3	21.4	44 E	27*	28*
5 21	6 36.09	+20 10.3	3.083	2.375	15.4	21.5	38 E	21*	26*

447945 2008 AR_{108}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 38.31	+ 4 32.8	0.909	1.696	27.4	19.5	127 E	50	59
12 28	2 42.46	+ 5 30.9	0.954	1.709	28.6	19.6	124 E	51	58
1 2	2 47.32	+ 6 30.8	1.003	1.722	29.6	19.8	120 E	52	57
1 7	2 52.83	+ 7 31.7	1.054	1.736	30.4	19.9	117 E	53	56
1 12	2 58.93	+ 8 32.9	1.107	1.750	31.0	20.1	114 E	54	55
1 22	3 12.69	+10 34.1	1.220	1.781	31.8	20.3	107 E	56	53*
2 1	3 28.26	+12 30.8	1.340	1.815	32.1	20.6	102 E	58	51*
2 11	3 45.29	+14 20.1	1.467	1.850	32.0	20.8	96 E	59	48*
2 21	4 3.48	+15 59.9	1.599	1.887	31.6	21.0	90 E	61*	46*
3 2	4 22.63	+17 28.6	1.735	1.925	30.9	21.2	85 E	62*	43*
3 12	4 42.52	+18 45.2	1.875	1.965	29.9	21.4	80 E	60*	41*

335271 2005 NC_{17}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 38.49	+22 1.3	1.395	2.189	19.1	20.6	133 E	67	42
1 2	2 39.95	+21 59.9	1.523	2.222	21.7	20.9	123 E	67	42
1 12	2 44.54	+22 10.0	1.662	2.254	23.4	21.2	114 E	67	42*
1 22	2 51.78	+22 30.0	1.810	2.286	24.5	21.4	106 E	68	41*
2 1	3 1.26	+22 57.9	1.963	2.317	24.9	21.6	98 E	68	39*

175519 2006 SR_{54}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 39.23	+15 56.9	1.728	2.494	17.1	21.1	132 E	61	48
1 2	2 38.22	+16 7.6	1.854	2.511	19.5	21.3	121 E	61	48
1 12	2 40.15	+16 29.7	1.992	2.528	21.2	21.5	112 E	61	47*
1 22	2 44.68	+17 1.3	2.138	2.544	22.2	21.7	103 E	62	46*
2 1	2 51.47	+17 40.7	2.287	2.559	22.6	21.9	94 E	63	43*

340048 2005 VT_5

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 39.35	− 5 5.8	0.707	1.491	33.7	20.5	123 E	40	69
12 28	2 38.57	− 5 54.3	0.731	1.472	36.3	20.6	118 E	39	70
1 2	2 39.10	− 6 28.8	0.757	1.454	38.6	20.7	113 E	39	70
1 7	2 40.87	− 6 50.8	0.782	1.435	40.6	20.8	108 E	38	71
1 12	2 43.79	− 7 2.2	0.807	1.416	42.3	20.9	104 E	38	71*
1 17	2 47.77	− 7 4.3	0.832	1.397	43.8	21.0	100 E	38	71*
1 22	2 52.73	− 6 58.5	0.856	1.378	45.2	21.1	97 E	38	70*
1 27	2 58.62	− 6 45.9	0.878	1.359	46.3	21.1	94 E	38	68*

340048 2005 VT_5 *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 1	3 5.38	− 6 27.5	0.899	1.340	47.3	21.2	91 E	39	67*
2 6	3 12.93	− 6 4.5	0.917	1.320	48.3	21.2	88 E	39	65*
2 11	3 21.24	− 5 37.5	0.934	1.301	49.1	21.3	85 E	39	64*
2 16	3 30.25	− 5 7.2	0.949	1.282	49.9	21.3	83 E	40*	62*
2 21	3 39.94	− 4 34.2	0.961	1.263	50.6	21.3	81 E	40*	61*
2 26	3 50.30	− 3 58.9	0.972	1.245	51.3	21.3	79 E	40*	59*
3 2	4 1.31	− 3 21.8	0.980	1.227	51.9	21.3	77 E	40*	58*
3 7	4 12.96	− 2 43.4	0.986	1.209	52.6	21.3	75 E	40*	57*
3 12	4 25.22	− 2 4.1	0.989	1.192	53.2	21.3	74 E	39*	57*
3 17	4 38.11	− 1 24.0	0.991	1.176	53.8	21.3	73 E	39*	56*
3 22	4 51.63	− 0 43.5	0.990	1.161	54.5	21.3	71 E	38*	55*
3 27	5 5.78	− 0 2.8	0.988	1.146	55.1	21.3	70 E	37*	55*
4 1	5 20.58	+ 0 37.7	0.984	1.133	55.8	21.3	70 E	37*	54*
4 6	5 36.03	+ 1 17.8	0.979	1.120	56.5	21.2	69 E	36*	54*
4 11	5 52.12	+ 1 57.1	0.973	1.109	57.1	21.2	68 E	35*	53*
4 16	6 8.88	+ 2 35.6	0.966	1.099	57.7	21.2	68 E	34*	53*
4 21	6 26.30	+ 3 12.8	0.958	1.091	58.3	21.2	67 E	33*	53*
4 26	6 44.38	+ 3 48.4	0.950	1.084	58.9	21.2	67 E	33*	53*
5 1	7 3.13	+ 4 22.0	0.942	1.078	59.4	21.2	67 E	32*	53*
5 6	7 22.50	+ 4 53.2	0.935	1.074	59.8	21.2	67 E	31*	53*
5 11	7 42.46	+ 5 21.5	0.928	1.072	60.2	21.1	67 E	31*	53*
5 16	8 2.96	+ 5 46.5	0.923	1.072	60.4	21.1	67 E	30*	53*
5 21	8 23.97	+ 6 7.7	0.919	1.073	60.5	21.1	67 E	30*	53*
5 26	8 45.39	+ 6 24.6	0.917	1.076	60.5	21.1	68 E	29*	53*
5 31	9 7.14	+ 6 36.6	0.917	1.080	60.4	21.1	68 E	29*	53*
6 5	9 29.10	+ 6 43.5	0.919	1.086	60.1	21.1	68 E	28*	54*
6 10	9 51.17	+ 6 45.0	0.925	1.094	59.7	21.2	68 E	28*	54*
6 15	10 13.23	+ 6 41.0	0.932	1.103	59.2	21.2	69 E	28*	54*
6 20	10 35.19	+ 6 31.4	0.943	1.113	58.5	21.2	69 E	28*	54*
6 25	10 56.93	+ 6 16.3	0.957	1.125	57.8	21.2	69 E	28*	55*
6 30	11 18.38	+ 5 55.9	0.973	1.138	57.0	21.3	70 E	28*	55*
7 5	11 39.45	+ 5 30.8	0.992	1.152	56.0	21.3	70 E	28*	55*
7 10	12 0.07	+ 5 1.4	1.013	1.167	55.1	21.4	70 E	28*	56*
7 15	12 20.22	+ 4 28.2	1.037	1.182	54.0	21.4	70 E	29*	56*
7 20	12 39.88	+ 3 51.6	1.064	1.199	53.0	21.5	70 E	29*	56*

285902 2001 QS_{99}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 39.41	−22 55.9	0.988	1.637	33.8	18.9	112 E	22	87
12 28	2 42.29	−20 31.5	1.014	1.639	34.2	18.9	110 E	24	85
1 2	2 45.99	−18 3.4	1.042	1.642	34.7	19.0	108 E	27	82
1 7	2 50.46	−15 33.1	1.072	1.645	35.0	19.1	106 E	29	80
1 12	2 55.64	−13 2.3	1.105	1.649	35.3	19.2	104 E	32	77
1 17	3 1.47	−10 32.1	1.140	1.654	35.6	19.2	102 E	34	75*
1 22	3 7.90	− 8 3.7	1.178	1.659	35.8	19.3	100 E	37	72*
1 27	3 14.90	− 5 38.0	1.218	1.666	35.9	19.4	98 E	39	69*
2 1	3 22.43	− 3 16.0	1.260	1.673	35.9	19.5	96 E	42	66*
2 6	3 30.43	− 0 58.2	1.304	1.680	35.9	19.6	93 E	44	63*
2 11	3 38.88	+ 1 14.6	1.350	1.689	35.7	19.7	91 E	46	60*
2 21	3 56.95	+ 5 23.7	1.449	1.708	35.3	19.8	87 E	50*	55*
3 2	4 16.43	+ 9 8.8	1.553	1.729	34.6	20.0	82 E	53*	50*
3 12	4 37.11	+12 28.4	1.664	1.752	33.7	20.1	78 E	54*	46*
3 22	4 58.79	+15 21.9	1.778	1.778	32.5	20.3	74 E	53*	43*
4 1	5 21.29	+17 49.4	1.896	1.805	31.2	20.4	69 E	51*	40*
4 11	5 44.43	+19 51.5	2.015	1.834	29.7	20.5	65 E	48*	38*
4 21	6 8.03	+21 29.1	2.135	1.864	28.1	20.6	61 E	44*	35*
5 1	6 31.92	+22 43.3	2.254	1.895	26.3	20.7	57 E	40*	33*
5 11	6 55.93	+23 35.5	2.372	1.928	24.5	20.8	52 E	36*	32*
5 21	7 19.90	+24 7.4	2.487	1.961	22.6	20.9	48 E	31*	30*
5 31	7 43.70	+24 20.6	2.598	1.994	20.6	21.0	44 E	26*	28*
6 10	8 7.20	+24 17.0	2.704	2.028	18.6	21.1	40 E	22*	25*
6 20	8 30.33	+23 58.2	2.805	2.063	16.6	21.1	35 E	18*	23*
6 30	8 53.01	+23 26.2	2.899	2.097	14.6	21.1	31 E	15*	20*
7 10	9 15.20	+22 42.9	2.986	2.132	12.5	21.2	27 E	12*	17*
7 20	9 36.87	+21 49.8	3.065	2.167	10.6	21.2	23 E	10*	13*
7 30	9 58.02	+20 48.9	3.136	2.201	8.7	21.2	19 E	8*	9*
8 9	10 18.65	+19 41.8	3.197	2.235	6.9	21.2	15 E	7*	5*
8 19	10 38.79	+18 30.1	3.248	2.269	5.4	21.2	12 E	6*	1*
8 29	10 58.45	+17 15.2	3.289	2.303	4.5	21.2	10 E	4*	—
9 8	11 17.65	+15 58.7	3.319	2.336	4.6	21.2	11 E	3*	—
9 18	11 36.43	+14 42.0	3.337	2.368	5.4	21.3	13 W	4*	—
9 28	11 54.80	+13 26.6	3.344	2.400	6.8	21.4	17 W	9*	—

145888 1999 TT_{103}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 40.16	+13 2.6	1.324	2.106	20.6	19.5	131 E	58	51
1 2	2 42.97	+13 4.5	1.450	2.136	23.1	19.9	122 E	58	51
1 12	2 48.63	+13 22.5	1.586	2.166	24.7	20.1	113 E	58	51
1 22	2 56.68	+13 52.8	1.730	2.196	25.7	20.4	105 E	59	50*
2 1	3 6.74	+14 31.8	1.879	2.225	26.1	20.6	97 E	60	48*
2 11	3 18.47	+15 16.3	2.030	2.254	26.0	20.8	90 E	60	45*
2 21	3 31.57	+16 3.5	2.182	2.283	25.5	21.0	83 E	60*	42*
3 2	3 45.82	+16 51.0	2.333	2.311	24.6	21.1	76 E	58*	40*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		145888 1999 TT_{103}				*(continuation)*			
	h m	° ′			°	m	°	°	°
3 12	4 1.00	+17 36.8	2.481	2.339	23.6	21.2	70 E	54*	37*
3 22	4 16.95	+18 19.2	2.625	2.366	22.3	21.3	64 E	50*	35*
4 1	4 33.55	+18 57.0	2.763	2.392	20.8	21.4	58 E	44*	33*
4 11	4 50.64	+19 29.0	2.895	2.418	19.2	21.5	52 E	39*	30*
		483493 2002 TY_{188}							
12 23	2 40.41	+12 27.2	0.879	1.695	26.0	20.1	131 E	57	52
1 2	2 49.45	+12 45.9	0.978	1.723	28.6	20.5	123 E	58	51
1 12	3 1.06	+13 21.5	1.087	1.754	30.4	20.8	116 E	58	51
1 22	3 14.75	+14 8.1	1.205	1.786	31.4	21.1	109 E	59	50*
2 1	3 30.16	+15 1.0	1.329	1.819	31.9	21.4	103 E	60	48*
		106589 2000 WN_{107}							
12 23	2 42.56	−10 34.9	0.988	1.712	29.7	18.3	120 E	34	75
12 28	2 38.11	−10 16.5	0.992	1.669	32.2	18.4	115 E	35	74
1 2	2 34.82	− 9 48.0	0.998	1.625	34.6	18.4	110 E	35	74
1 7	2 32.71	− 9 10.5	1.004	1.581	36.8	18.4	105 E	36	73
1 12	2 31.78	− 8 25.0	1.010	1.537	38.9	18.4	101 E	37	72*
1 17	2 32.01	− 7 32.3	1.016	1.492	40.9	18.4	97 E	37	70*
1 22	2 33.36	− 6 33.2	1.020	1.447	42.8	18.4	92 E	38	67*
2 1	2 39.31	− 4 18.0	1.022	1.356	46.4	18.4	85 E	41	61*
2 11	2 49.28	− 1 42.9	1.013	1.264	49.9	18.3	78 E	43*	55*
2 21	3 2.99	+ 1 10.4	0.991	1.174	53.5	18.2	73 E	44*	50*
3 2	3 20.30	+ 4 22.5	0.955	1.087	57.6	18.1	68 E	44*	46*
3 12	3 41.13	+ 7 55.4	0.904	1.006	62.4	17.9	64 E	44*	42*
3 17	3 52.86	+ 9 50.8	0.874	0.969	65.1	17.8	62 E	43*	40*
3 22	4 5.51	+11 53.1	0.839	0.935	68.1	17.8	61 E	43*	38*
3 27	4 19.11	+14 3.4	0.802	0.904	71.3	17.7	59 E	43*	36*
4 1	4 33.71	+16 22.7	0.763	0.878	74.7	17.6	58 E	43*	35*
4 6	4 49.38	+18 52.3	0.721	0.857	78.2	17.6	57 E	43*	33*
4 11	5 6.24	+21 33.6	0.677	0.842	81.8	17.5	56 E	43*	31*
4 16	5 24.51	+24 27.9	0.634	0.832	85.3	17.5	56 E	43*	29*
4 21	5 44.54	+27 36.3	0.590	0.829	88.5	17.5	56 E	44*	27*
4 26	6 6.87	+30 58.9	0.548	0.833	91.1	17.4	56 E	45*	25*
5 1	6 32.26	+34 34.1	0.509	0.843	93.0	17.4	57 E	47*	23*
5 3	6 43.51	+36 2.7	0.494	0.849	93.5	17.3	57 E	48*	22*
5 5	6 55.50	+37 32.0	0.479	0.856	93.8	17.3	58 E	49*	22*
5 7	7 8.33	+39 1.4	0.466	0.864	93.9	17.3	59 E	50*	21*
5 9	7 22.09	+40 30.0	0.453	0.872	93.9	17.2	60 E	51*	20*
5 11	7 36.88	+41 56.5	0.441	0.881	93.6	17.2	61 E	53*	19*
5 13	7 52.80	+43 19.7	0.430	0.892	93.1	17.1	62 E	54*	18*
5 15	8 9.93	+44 37.8	0.420	0.903	92.4	17.1	63 E	56*	18*
5 17	8 28.31	+45 49.1	0.411	0.914	91.4	17.0	65 E	57*	17*
5 19	8 47.96	+46 51.5	0.403	0.926	90.3	16.9	66 E	59*	16*
5 21	9 8.81	+47 42.8	0.396	0.939	88.9	16.9	68 E	61*	16*
5 23	9 30.74	+48 20.8	0.390	0.953	87.3	16.8	70 E	63*	16*
5 25	9 53.51	+48 43.6	0.385	0.967	85.6	16.8	72 E	65*	15*
5 27	10 16.83	+48 49.8	0.382	0.981	83.7	16.7	74 E	67*	15
5 29	10 40.33	+48 38.4	0.380	0.996	81.7	16.6	77 E	70*	15
5 31	11 3.64	+48 9.3	0.380	1.011	79.6	16.6	79 E	72*	16
6 1	11 15.10	+47 48.2	0.380	1.019	78.5	16.6	80 E	73*	16
6 2	11 26.38	+47 22.9	0.380	1.027	77.4	16.6	81 E	74*	17
6 3	11 37.43	+46 53.6	0.381	1.035	76.2	16.5	82 E	75*	17
6 4	11 48.23	+46 20.6	0.382	1.043	75.1	16.5	84 E	76*	18
6 5	11 58.74	+45 44.0	0.384	1.051	73.9	16.5	85 E	77*	18
6 6	12 8.95	+45 4.1	0.385	1.060	72.8	16.5	86 E	78*	19
6 7	12 18.84	+44 21.1	0.388	1.068	71.7	16.5	87 E	79*	20
6 8	12 28.40	+43 35.5	0.390	1.076	70.5	16.5	88 E	79*	20
6 9	12 37.62	+42 47.3	0.393	1.085	69.4	16.5	89 E	80*	21
6 10	12 46.49	+41 57.1	0.396	1.093	68.2	16.5	91 E	80*	22
6 12	13 3.23	+40 11.1	0.403	1.110	66.0	16.5	93 E	81*	24
6 14	13 18.65	+38 19.7	0.411	1.127	63.9	16.5	95 E	81*	26
6 16	13 32.84	+36 24.8	0.421	1.145	61.8	16.5	97 E	80*	28
6 18	13 45.88	+34 28.0	0.432	1.163	59.8	16.5	99 E	78*	30
6 20	13 57.87	+32 30.7	0.444	1.180	57.9	16.6	100 E	77*	31
6 22	14 8.93	+30 34.1	0.457	1.198	56.0	16.6	102 E	75*	33
6 24	14 19.15	+28 39.1	0.470	1.216	54.3	16.7	104 E	73*	35
6 26	14 28.61	+26 46.3	0.485	1.234	52.7	16.7	105 E	71*	37
6 28	14 37.41	+24 56.4	0.501	1.252	51.2	16.8	106 E	70*	39
6 30	14 45.62	+23 9.6	0.518	1.270	49.8	16.8	107 E	68*	41
7 5	15 3.96	+18 58.2	0.564	1.316	46.8	17.0	109 E	64*	45
7 10	15 19.86	+15 9.6	0.614	1.362	44.3	17.2	111 E	60*	49
7 15	15 33.93	+11 43.4	0.669	1.407	42.2	17.4	112 E	56*	52
7 20	15 46.66	+ 8 37.9	0.729	1.453	40.6	17.6	112 E	53*	55
7 25	15 58.40	+ 5 51.3	0.792	1.498	39.2	17.8	111 E	51*	58
7 30	16 9.40	+ 3 21.8	0.859	1.543	38.1	18.0	111 E	48*	61
8 4	16 19.83	+ 1 7.6	0.929	1.587	37.1	18.2	109 E	46*	63
8 9	16 29.82	− 0 52.9	1.003	1.631	36.3	18.4	108 E	44*	65

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		106589 2000 WN_{107}				*(continuation)*			
	h m	° ′			°	m	°	°	°
8 14	16 39.49	− 2 41.3	1.079	1.674	35.5	18.6	106 E	42*	67
8 19	16 48.92	− 4 18.8	1.158	1.717	34.8	18.8	104 E	40*	68
8 24	16 58.18	− 5 46.6	1.240	1.760	34.1	19.0	102 E	39*	70
8 29	17 7.31	− 7 5.4	1.324	1.801	33.5	19.2	100 E	37*	71
9 3	17 16.34	− 8 16.2	1.410	1.843	32.8	19.4	98 E	36*	72
9 8	17 25.28	− 9 19.7	1.497	1.883	32.2	19.5	95 E	35*	73
9 13	17 34.17	−10 16.4	1.587	1.923	31.5	19.7	93 E	34*	74*
9 18	17 43.03	−11 7.0	1.678	1.963	30.8	19.8	90 E	33*	74*
9 28	18 0.65	−12 31.2	1.862	2.039	29.3	20.1	85 E	32*	72*
10 8	18 18.18	−13 35.6	2.049	2.114	27.7	20.3	80 E	30*	68*
10 18	18 35.64	−14 22.4	2.237	2.186	26.0	20.5	74 E	29*	63*
10 28	18 53.01	−14 53.7	2.424	2.256	24.2	20.7	68 E	29*	58*
11 7	19 10.26	−15 11.1	2.607	2.323	22.2	20.9	63 E	28*	51*
11 17	19 27.36	−15 16.1	2.785	2.388	20.2	21.0	57 E	27*	45*
11 27	19 44.28	−15 9.8	2.955	2.451	18.1	21.1	51 E	26*	38*
12 7	20 0.98	−14 53.5	3.117	2.511	16.0	21.2	45 E	25*	31*
12 17	20 17.42	−14 28.3	3.268	2.570	13.7	21.3	38 E	23*	24*
12 27	20 33.57	−13 55.2	3.406	2.626	11.5	21.4	32 E	20*	17*
1 6	20 49.38	−13 15.2	3.530	2.680	9.2	21.4	26 E	16*	11*
1 16	21 4.85	−12 29.4	3.639	2.732	6.9	21.4	20 E	12*	6*
		269745 1998 WU_8							
12 23	2 42.77	+ 4 21.2	1.091	1.868	24.4	18.7	128 E	49	60
1 2	2 47.37	+ 6 17.6	1.203	1.898	26.6	19.0	120 E	51	58
1 12	2 54.84	+ 8 16.2	1.325	1.930	28.1	19.3	113 E	53	56
1 22	3 4.74	+10 13.4	1.456	1.962	28.9	19.5	105 E	55	53*
2 1	3 16.68	+12 6.9	1.592	1.995	29.2	19.8	99 E	57	51*
2 11	3 30.32	+13 54.7	1.733	2.028	29.1	20.0	92 E	59	47*
2 21	3 45.34	+15 35.2	1.878	2.062	28.6	20.2	86 E	60*	44*
3 2	4 1.52	+17 7.3	2.023	2.096	27.8	20.4	80 E	60*	41*
3 12	4 18.65	+18 30.1	2.169	2.130	26.7	20.5	74 E	57*	39*
3 22	4 36.56	+19 42.9	2.313	2.163	25.4	20.7	69 E	54*	36*
4 1	4 55.09	+20 45.1	2.455	2.197	24.0	20.8	63 E	49*	34*
4 11	5 14.09	+21 36.4	2.593	2.231	22.4	20.9	58 E	44*	32*
4 21	5 33.44	+22 16.6	2.726	2.264	20.7	21.0	53 E	39*	30*
5 1	5 53.03	+22 45.6	2.853	2.297	18.9	21.0	48 E	33*	28*
5 11	6 12.74	+23 3.6	2.973	2.329	17.0	21.1	42 E	28*	26*
5 21	6 32.48	+23 10.9	3.085	2.361	15.1	21.1	37 E	22*	23*
5 31	6 52.15	+23 7.8	3.188	2.393	13.1	21.2	32 E	17*	20*
6 10	7 11.67	+22 54.8	3.282	2.424	11.0	21.2	27 E	12*	17*
6 20	7 30.97	+22 32.6	3.366	2.454	9.0	21.2	22 E	7*	13*
6 30	7 50.00	+22 1.9	3.438	2.483	6.9	21.2	17 E	4*	9*
7 10	8 8.69	+21 23.4	3.498	2.512	4.8	21.1	12 E	1*	5*
7 20	8 27.02	+20 38.0	3.547	2.540	2.7	21.1	7 E	—	—
7 30	8 44.95	+19 46.6	3.582	2.568	0.8	21.0	2 E	—	—
8 9	9 2.44	+18 50.1	3.604	2.594	1.7	21.1	4 W	—	—
8 19	9 19.49	+17 49.4	3.612	2.620	3.7	21.2	10 W	3*	—
8 29	9 36.06	+16 45.6	3.606	2.645	5.7	21.4	15 W	9*	3*
9 8	9 52.14	+15 39.7	3.586	2.669	7.7	21.5	21 W	14*	6*
		287396 2002 VU_{85}							
12 23	2 43.50	+20 20.7	1.417	2.216	18.6	20.2	134 E	65	44
1 2	2 45.10	+19 52.2	1.546	2.249	21.2	20.5	124 E	65	44
1 12	2 49.68	+19 40.2	1.686	2.282	23.0	20.8	115 E	65	44
1 22	2 56.78	+19 42.2	1.836	2.314	24.1	21.1	106 E	65	44*
2 1	3 5.98	+19 55.3	1.991	2.346	24.6	21.3	98 E	65	42*
2 11	3 16.93	+20 16.4	2.149	2.377	24.5	21.5	91 E	65	40*
		224000 2005 GX_8							
12 23	2 45.84	+36 40.5	1.688	2.491	15.9	20.2	136 E	82	27
12 28	2 43.22	+36 28.3	1.745	2.502	17.3	20.3	131 E	81	28
1 2	2 41.65	+36 16.9	1.807	2.514	18.4	20.4	126 E	81	28
1 7	2 41.08	+36 7.0	1.872	2.526	19.5	20.6	121 E	81	28
1 12	2 41.44	+35 58.9	1.940	2.537	20.3	20.7	117 E	81	28*
1 17	2 42.67	+35 53.1	2.010	2.548	21.0	20.8	112 E	81	28*
1 22	2 44.69	+35 49.5	2.082	2.559	21.5	20.9	108 E	81	28*
1 27	2 47.46	+35 48.3	2.156	2.569	21.9	21.0	103 E	81	27*
2 1	2 50.92	+35 49.5	2.231	2.579	22.1	21.1	99 E	81	26*
2 6	2 54.99	+35 52.9	2.306	2.590	22.3	21.2	95 E	81	25*
2 11	2 59.63	+35 58.3	2.381	2.599	22.3	21.2	91 E	81*	24*
2 16	3 4.79	+36 5.5	2.456	2.609	22.2	21.3	88 E	79*	23*
2 21	3 10.42	+36 14.3	2.531	2.618	22.1	21.4	84 E	77*	22*
2 26	3 16.50	+36 24.6	2.605	2.628	21.8	21.4	80 E	74*	21*
3 2	3 22.98	+36 36.0	2.679	2.637	21.5	21.5	77 E	70*	20*
		436073 2009 ST_{100}							
12 23	2 45.96	+23 16.3	1.107	1.933	21.0	20.3	135 E	68	41
1 2	2 50.56	+22 26.0	1.224	1.969	23.8	20.6	126 E	67	42
1 12	2 58.15	+21 56.4	1.354	2.006	25.8	20.9	117 E	67	42
1 22	3 8.17	+21 43.7	1.492	2.042	27.0	21.2	109 E	67	42*
2 1	3 20.18	+21 43.9	1.637	2.079	27.6	21.5	102 E	67	41*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		436947 2012 TK_{140}							
	h m	° ′			°	m	°	°	°
12 23	2 46.15	+12 24.8	1.524	2.303	18.4	21.4	132 E	57	52
1 2	2 43.59	+14 7.1	1.661	2.337	20.9	21.7	122 E	59	50
1 12	2 44.40	+15 47.5	1.811	2.370	22.5	21.9	113 E	61	48*
1 22	2 48.13	+17 25.7	1.970	2.402	23.5	22.2	104 E	62	46*
2 1	2 54.35	+19 1.6	2.134	2.434	23.8	22.4	95 E	64	42*
		334412 2002 EZ_2							
12 23	2 46.52	−23 22.9	0.440	1.226	47.5	20.7	113 E	22	87
12 28	2 51.95	−21 34.8	0.461	1.229	48.1	20.8	111 E	23	86
1 2	2 58.19	−19 40.0	0.482	1.233	48.6	20.9	110 E	25	84
1 7	3 5.17	−17 40.2	0.503	1.236	49.1	21.0	108 E	27	82
1 12	3 12.83	−15 36.8	0.525	1.240	49.5	21.1	107 E	29	80
1 17	3 21.10	−13 31.1	0.546	1.243	49.8	21.2	105 E	31	78
1 22	3 29.97	−11 23.9	0.569	1.247	50.1	21.3	104 E	34	75
1 27	3 39.40	− 9 16.4	0.591	1.250	50.3	21.4	102 E	36	73*
		219914 2002 GX_7							
12 23	2 47.44	+18 32.0	1.744	2.532	16.1	21.3	134 E	64	45
1 2	2 45.59	+18 38.7	1.875	2.557	18.6	21.6	124 E	64	45
1 12	2 46.77	+18 55.4	2.019	2.581	20.4	21.8	114 E	64	45
1 22	2 50.60	+19 21.2	2.171	2.603	21.4	22.0	105 E	64	44*
2 1	2 56.75	+19 54.6	2.329	2.625	21.9	22.2	96 E	65	42*
		185854 2000 EU_{106}							
12 23	2 47.85	− 3 59.8	1.790	2.491	18.8	19.5	125 E	41	68
12 28	2 47.53	− 3 49.2	1.863	2.510	19.7	19.6	121 E	41	68
1 2	2 47.87	− 3 33.9	1.939	2.529	20.4	19.8	116 E	41	68
1 7	2 48.84	− 3 14.6	2.016	2.548	21.0	19.9	112 E	42	67
1 12	2 50.39	− 2 52.0	2.096	2.567	21.5	20.0	107 E	42	67
1 22	2 55.09	− 1 59.1	2.260	2.604	21.9	20.2	99 E	43	65*
2 1	3 1.68	− 0 59.2	2.427	2.639	21.9	20.4	91 E	44	61*
2 11	3 9.84	+ 0 4.5	2.593	2.674	21.5	20.6	84 E	45*	57*
2 21	3 19.33	+ 1 9.5	2.757	2.708	20.8	20.7	77 E	45*	53*
3 2	3 29.92	+ 2 13.7	2.917	2.741	19.9	20.8	70 E	43*	49*
3 12	3 41.44	+ 3 15.5	3.071	2.772	18.7	20.9	63 E	40*	45*
3 22	3 53.71	+ 4 13.6	3.217	2.803	17.4	21.0	57 E	35*	41*
4 1	4 6.62	+ 5 6.9	3.354	2.832	15.9	21.1	51 E	30*	38*
4 11	4 20.03	+ 5 54.6	3.480	2.861	14.3	21.1	45 E	24*	34*
4 21	4 33.85	+ 6 35.9	3.595	2.888	12.7	21.1	39 E	18*	30*
5 1	4 47.99	+ 7 10.4	3.697	2.915	11.1	21.2	34 E	11*	27*
5 11	5 2.35	+ 7 37.5	3.786	2.940	9.5	21.2	29 E	5*	22*
5 21	5 16.86	+ 7 57.0	3.861	2.964	8.0	21.2	24 E	—	18*
5 31	5 31.45	+ 8 8.5	3.922	2.988	6.6	21.1	20 E	—	13*
6 10	5 46.02	+ 8 12.1	3.968	3.010	5.6	21.1	17 E	—	8*
6 20	6 0.53	+ 8 7.6	3.999	3.031	5.1	21.1	15 E	—	2*
6 30	6 14.89	+ 7 55.0	4.014	3.051	5.3	21.2	16 W	—	6*
7 10	6 29.04	+ 7 34.4	4.015	3.070	6.1	21.2	19 W	—	11*
7 20	6 42.90	+ 7 6.0	4.000	3.088	7.3	21.3	23 W	—	16*
7 30	6 56.40	+ 6 30.1	3.970	3.104	8.7	21.3	27 W	2*	21*
8 9	7 9.47	+ 5 46.8	3.925	3.120	10.1	21.4	33 W	8*	26*
8 19	7 22.01	+ 4 56.7	3.866	3.135	11.5	21.4	38 W	15*	30*
8 29	7 33.94	+ 4 0.0	3.793	3.148	12.9	21.4	44 W	21*	35*
9 8	7 45.16	+ 2 57.4	3.708	3.161	14.2	21.4	50 W	27*	39*
9 18	7 55.56	+ 1 49.4	3.610	3.172	15.4	21.4	57 W	32*	43*
9 28	8 5.00	+ 0 36.7	3.502	3.183	16.4	21.4	63 W	37*	48*
10 8	8 13.35	− 0 39.6	3.385	3.192	17.2	21.4	70 W	40*	52*
10 18	8 20.43	− 1 58.6	3.261	3.200	17.7	21.3	78 W	42*	57*
10 28	8 26.05	− 3 18.9	3.132	3.207	18.0	21.2	85 W	42	62*
11 7	8 30.02	− 4 38.5	3.001	3.213	17.9	21.2	93 W	40	66*
11 17	8 32.12	− 5 55.5	2.871	3.218	17.5	21.0	102 W	39	70*
11 27	8 32.17	− 7 6.8	2.746	3.222	16.7	20.9	110 W	38	71
12 7	8 30.03	− 8 8.9	2.629	3.225	15.5	20.8	119 W	37	72
12 17	8 25.68	− 8 58.0	2.526	3.227	13.9	20.7	128 W	36	73
12 27	8 19.25	− 9 29.7	2.441	3.228	12.1	20.5	137 W	36	73
1 6	8 11.13	− 9 40.4	2.378	3.228	10.3	20.4	144 W	35	74
1 16	8 1.91	− 9 27.8	2.340	3.226	8.9	20.3	149 W	36	73
		36236 1999 VV							
12 23	2 49.26	+ 4 46.0	1.075	1.865	23.9	18.5	130 E	50	59
12 28	2 45.32	+ 2 55.9	1.143	1.872	26.1	18.7	123 E	48	61
1 2	2 42.78	+ 1 25.3	1.214	1.879	27.8	18.9	117 E	46	63
1 7	2 41.46	+ 0 11.5	1.288	1.884	29.1	19.1	111 E	45	64
1 12	2 41.23	− 0 48.0	1.363	1.888	30.0	19.3	106 E	44	65*
1 17	2 41.93	− 1 35.4	1.439	1.892	30.7	19.4	101 E	43	65*
1 22	2 43.48	− 2 12.6	1.514	1.894	31.1	19.5	96 E	43	64*
1 27	2 45.76	− 2 41.3	1.589	1.896	31.3	19.6	92 E	42	63*
2 1	2 48.70	− 3 3.1	1.663	1.897	31.3	19.7	88 E	42	62*
2 6	2 52.23	− 3 19.2	1.735	1.897	31.1	19.8	84 E	42	60*
2 11	2 56.27	− 3 30.6	1.805	1.896	30.8	19.9	80 E	41*	58*
2 16	3 0.77	− 3 38.3	1.873	1.894	30.4	20.0	76 E	41*	56*
2 21	3 5.70	− 3 43.0	1.938	1.892	29.9	20.0	72 E	40*	54*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		36236 1999 VV *(continuation)*							
	h m	° ′			°	m	°	°	°
3 2	3 16.70	− 3 46.0	2.057	1.884	28.7	20.1	66 E	36*	50*
3 12	3 29.03	− 3 44.1	2.163	1.873	27.3	20.2	60 E	32*	47*
3 22	3 42.52	− 3 40.8	2.253	1.858	25.8	20.2	54 E	27*	44*
4 1	3 57.09	− 3 38.6	2.326	1.840	24.4	20.2	49 E	21*	41*
4 11	4 12.65	− 3 40.0	2.383	1.818	22.9	20.2	45 E	16*	38*
4 21	4 29.19	− 3 46.8	2.421	1.792	21.7	20.1	41 E	9*	35*
5 1	4 46.71	− 4 0.9	2.443	1.763	20.6	20.1	38 E	3*	32*
5 11	5 5.23	− 4 23.8	2.448	1.730	19.9	20.0	36 E	—	29*
5 21	5 24.81	− 4 57.1	2.437	1.694	19.5	20.0	34 E	—	26*
5 31	5 45.55	− 5 42.0	2.411	1.654	19.5	19.9	33 E	—	23*
6 10	6 7.53	− 6 40.0	2.372	1.610	19.8	19.8	32 E	—	19*
6 20	6 30.93	− 7 51.7	2.322	1.563	20.4	19.7	33 E	—	16*
6 30	6 55.94	− 9 17.9	2.263	1.512	21.4	19.6	33 E	—	13*
7 10	7 22.75	−10 58.5	2.197	1.458	22.5	19.5	33 E	—	10*
7 20	7 51.67	−12 52.2	2.129	1.400	23.7	19.4	34 W	—	10*
7 30	8 22.98	−14 56.6	2.059	1.338	24.9	19.3	34 W	—	12*
8 4	8 39.62	−16 1.4	2.026	1.307	25.4	19.2	34 W	—	12*
8 9	8 56.97	−17 6.8	1.993	1.274	25.9	19.1	33 W	—	12*
8 14	9 15.06	−18 11.8	1.962	1.241	26.4	19.0	33 W	—	12*
8 19	9 33.92	−19 15.3	1.933	1.207	26.7	18.9	32 W	—	12*
8 24	9 53.55	−20 15.9	1.906	1.173	26.9	18.9	32 W	—	12*
8 29	10 13.94	−21 12.0	1.881	1.138	27.0	18.8	31 W	—	11*
9 3	10 35.08	−22 1.9	1.859	1.104	27.0	18.7	30 W	—	10*
9 8	10 56.91	−22 43.8	1.839	1.069	26.8	18.6	29 W	—	9*
9 13	11 19.39	−23 16.1	1.823	1.034	26.3	18.5	27 W	—	7*
9 18	11 42.40	−23 37.1	1.808	1.000	25.6	18.4	26 W	—	5*
9 23	12 5.83	−23 45.3	1.796	0.966	24.7	18.2	24 E	—	6*
9 28	12 29.55	−23 39.4	1.786	0.934	23.5	18.1	22 E	—	6*
10 3	12 53.41	−23 18.4	1.778	0.903	22.0	18.0	20 E	—	6*
10 8	13 17.29	−22 42.0	1.771	0.873	20.3	17.9	18 E	—	6*
10 13	13 41.05	−21 50.0	1.764	0.847	18.5	17.7	16 E	—	6*
10 18	14 4.58	−20 42.7	1.757	0.823	16.6	17.6	14 E	—	6*
10 23	14 27.82	−19 20.8	1.749	0.803	14.9	17.5	12 E	—	6*
10 28	14 50.72	−17 45.4	1.740	0.787	13.8	17.4	11 E	—	5*
11 2	15 13.27	−15 57.8	1.729	0.775	13.7	17.3	11 E	—	4*
11 7	15 35.51	−13 59.7	1.715	0.769	14.8	17.3	11 E	3*	3*
11 12	15 57.52	−11 52.8	1.699	0.768	16.9	17.4	13 E	6*	2*
11 17	16 19.37	− 9 38.8	1.682	0.772	19.6	17.5	15 E	9*	—
11 22	16 41.18	− 7 19.4	1.663	0.782	22.6	17.5	18 E	12*	—
11 27	17 3.04	− 4 56.3	1.643	0.796	25.6	17.7	20 E	14*	—
12 2	17 25.08	− 2 31.0	1.623	0.814	28.4	17.8	23 E	17*	—
12 7	17 47.39	− 0 5.1	1.604	0.837	30.9	17.9	26 E	19*	—
12 12	18 10.04	+ 2 20.1	1.588	0.862	33.0	18.0	29 E	22*	—
12 17	18 33.08	+ 4 43.2	1.576	0.891	34.7	18.1	31 E	24*	—
12 22	18 56.49	+ 7 2.5	1.568	0.921	35.9	18.2	33 E	26*	—
12 27	19 20.24	+ 9 16.5	1.565	0.953	36.7	18.3	35 E	27*	—
1 1	19 44.25	+11 23.6	1.568	0.986	37.2	18.3	37 E	29*	—
1 6	20 8.41	+13 22.4	1.578	1.020	37.2	18.4	39 E	30*	—
1 11	20 32.57	+15 11.7	1.595	1.055	36.9	18.5	40 E	32*	—
1 16	20 56.59	+16 50.7	1.618	1.090	36.4	18.6	41 E	32*	—
		5189 1990 UQ							
12 23	2 49.69	+ 9 50.1	0.948	1.765	24.4	20.1	132 E	55	54
1 2	2 51.30	+10 46.4	1.089	1.819	27.0	20.5	123 E	56	53
1 12	2 56.38	+11 50.3	1.239	1.871	28.7	20.9	114 E	57	52
1 22	3 4.15	+12 58.4	1.396	1.919	29.5	21.2	106 E	58	51*
2 1	3 14.07	+14 8.3	1.557	1.963	29.7	21.5	99 E	59	48*
		100743 1998 DC_{30}							
12 23	2 49.71	+ 7 57.5	1.819	2.577	16.6	20.4	131 E	53	56
1 2	2 48.48	+ 8 9.2	1.948	2.596	18.9	20.7	121 E	53	56
1 12	2 49.95	+ 8 34.6	2.088	2.614	20.5	20.9	112 E	54	55
1 22	2 53.84	+ 9 10.8	2.236	2.632	21.4	21.1	103 E	54	54*
2 1	2 59.87	+ 9 55.2	2.389	2.648	21.8	21.3	94 E	55	51*
2 11	3 7.73	+10 45.0	2.542	2.663	21.7	21.4	86 E	56*	48*
		339739 2005 SU_{50}							
12 23	2 50.59	+ 8 59.0	1.268	2.060	20.8	21.2	132 E	54	55
1 2	2 53.25	+ 9 23.2	1.395	2.096	23.3	21.5	123 E	54	55
1 12	2 58.73	+10 2.0	1.533	2.132	24.9	21.8	114 E	55	54
1 22	3 6.58	+10 50.8	1.678	2.167	25.9	22.1	106 E	56	53*
2 1	3 16.43	+11 46.1	1.830	2.203	26.3	22.3	99 E	57	51*
		63341 2001 FD_{77}							
12 23	2 51.00	+42 51.6	2.125	2.915	13.5	18.8	136 E	88	21
12 28	2 47.94	+42 30.0	2.186	2.933	14.5	19.0	132 E	88	21
1 2	2 45.85	+42 8.6	2.253	2.950	15.4	19.1	127 E	87	22
1 7	2 44.69	+41 48.3	2.323	2.967	16.3	19.2	122 E	87	22
1 12	2 44.40	+41 29.5	2.396	2.984	16.9	19.3	118 E	86	23*
1 17	2 44.92	+41 12.7	2.473	3.001	17.5	19.4	113 E	86	23*
1 22	2 46.21	+40 58.1	2.551	3.018	18.0	19.5	109 E	86	22*

63341 2001 *FD*$_{77}$ *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 27	2 48.20	+40 46.0	2.632	3.034	18.3	19.6	105 E	86	22*
2 1	2 50.84	+40 36.3	2.714	3.050	18.5	19.6	100 E	86	22*
2 6	2 54.07	+40 29.1	2.796	3.066	18.6	19.7	96 E	85	21*
2 11	2 57.84	+40 24.3	2.880	3.082	18.7	19.8	92 E	85*	20*
2 21	3 6.81	+40 21.2	3.046	3.113	18.4	19.9	85 E	78*	18*
3 2	3 17.44	+40 25.7	3.210	3.143	17.9	20.1	77 E	71*	16*
3 12	3 29.47	+40 36.3	3.369	3.172	17.1	20.2	70 E	64*	15*
3 22	3 42.65	+40 51.4	3.521	3.200	16.2	20.2	63 E	57*	13*
4 1	3 56.83	+41 9.6	3.664	3.227	15.0	20.3	57 E	51*	11*
4 11	4 11.84	+41 29.5	3.797	3.254	13.8	20.3	51 E	45*	9*
4 21	4 27.54	+41 50.0	3.918	3.279	12.4	20.4	45 E	39*	6*
5 1	4 43.83	+42 9.9	4.026	3.304	11.1	20.4	39 E	33*	4*
5 11	5 0.57	+42 28.6	4.121	3.328	9.7	20.4	34 E	28*	2*
5 21	5 17.68	+42 45.3	4.201	3.351	8.4	20.4	29 E	23*	—
5 31	5 35.05	+42 59.5	4.266	3.373	7.2	20.4	25 E	19*	—
6 10	5 52.59	+43 11.1	4.316	3.394	6.4	20.4	22 E	15*	—
6 20	6 10.20	+43 19.8	4.351	3.414	5.9	20.4	20 E	12*	—
6 30	6 27.79	+43 25.8	4.369	3.434	5.9	20.4	20 W	12*	—
7 10	6 45.27	+43 29.3	4.372	3.453	6.4	20.5	22 W	15*	—
7 20	7 2.55	+43 30.8	4.359	3.470	7.3	20.5	26 W	19*	—
7 30	7 19.55	+43 30.8	4.330	3.487	8.3	20.6	30 W	24*	—
8 9	7 36.17	+43 30.1	4.287	3.503	9.5	20.6	35 W	29*	—
8 19	7 52.34	+43 29.6	4.229	3.518	10.7	20.6	40 W	34*	1*
8 29	8 7.95	+43 30.5	4.157	3.532	11.9	20.7	46 W	40*	3*
9 8	8 22.92	+43 34.0	4.073	3.546	13.0	20.7	52 W	46*	5*
9 18	8 37.13	+43 41.5	3.977	3.558	13.9	20.7	59 W	52*	7*
9 28	8 50.47	+43 54.5	3.872	3.570	14.8	20.6	65 W	59*	9*
10 8	9 2.78	+44 14.6	3.758	3.581	15.4	20.6	72 W	66*	10*
10 18	9 13.91	+44 43.3	3.638	3.591	15.8	20.5	79 W	73*	12*
10 28	9 23.62	+45 22.2	3.515	3.600	16.0	20.5	87 W	80*	13*
11 7	9 31.69	+46 12.4	3.391	3.608	15.9	20.4	95 W	88*	14*
11 17	9 37.80	+47 14.6	3.270	3.615	15.5	20.3	102 W	88	15*
11 22	9 40.00	+47 50.1	3.211	3.618	15.2	20.3	107 W	87	15*
11 27	9 41.57	+48 28.4	3.155	3.622	14.8	20.2	111 W	87	15*
12 2	9 42.48	+49 9.2	3.101	3.624	14.3	20.2	115 W	86	15*
12 7	9 42.65	+49 52.2	3.051	3.627	13.8	20.1	119 W	85	14*
12 12	9 42.05	+50 36.8	3.004	3.630	13.2	20.1	123 W	84	13
12 17	9 40.62	+51 22.4	2.961	3.632	12.6	20.0	126 W	84	13
12 22	9 38.34	+52 8.2	2.922	3.634	12.0	20.0	130 W	83	12
12 27	9 35.20	+52 53.2	2.889	3.636	11.3	19.9	133 W	82	11
1 1	9 31.18	+53 36.6	2.861	3.637	10.7	19.9	136 W	81	10
1 6	9 26.34	+54 17.1	2.839	3.639	10.2	19.8	139 W	81	10
1 11	9 20.70	+54 53.8	2.823	3.640	9.8	19.8	141 W	80	9
1 16	9 14.39	+55 25.5	2.813	3.641	9.5	19.8	142 W	80	9

128472 2004 *PS*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	2 51.17	+23 48.4	1.214	2.043	19.4	19.2	136 E	69	40
1 2	2 54.17	+23 13.5	1.333	2.078	22.2	19.5	127 E	68	41
1 12	3 0.28	+22 54.8	1.465	2.114	24.2	19.8	118 E	68	41
1 22	3 8.96	+22 50.1	1.607	2.151	25.5	20.1	110 E	68	41*
2 1	3 19.79	+22 56.2	1.755	2.187	26.1	20.3	102 E	68	40*
2 11	3 32.35	+23 10.0	1.909	2.223	26.2	20.5	95 E	68	39*
2 21	3 46.31	+23 28.6	2.065	2.259	25.9	20.7	88 E	68*	37*
3 2	4 1.41	+23 49.3	2.222	2.295	25.3	20.9	81 E	66*	35*
3 12	4 17.42	+24 9.9	2.378	2.330	24.3	21.1	75 E	62*	34*
3 22	4 34.14	+24 28.5	2.532	2.365	23.2	21.2	69 E	57*	32*
4 1	4 51.43	+24 43.6	2.682	2.400	21.8	21.3	63 E	51*	31*
4 11	5 9.13	+24 54.0	2.827	2.434	20.2	21.4	57 E	46*	29*
4 21	5 27.12	+24 58.7	2.965	2.468	18.6	21.5	51 E	39*	27*

285567 2000 *OM*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	2 52.90	− 5 4.5	1.015	1.778	26.7	21.1	126 E	40	69
12 28	2 46.17	− 4 32.4	1.024	1.738	29.4	21.1	120 E	40	69
1 2	2 40.64	− 3 51.6	1.035	1.696	31.9	21.2	114 E	41	68
1 7	2 36.33	− 3 3.2	1.048	1.653	34.3	21.2	109 E	42	67
1 12	2 33.26	− 2 8.1	1.062	1.609	36.4	21.2	104 E	43	66*
1 17	2 31.38	− 1 7.4	1.075	1.564	38.4	21.3	99 E	44	64*
1 22	2 30.66	− 0 1.5	1.088	1.518	40.3	21.3	94 E	45	61*
1 27	2 31.04	+ 1 8.8	1.100	1.470	42.0	21.3	90 E	46	58*
2 1	2 32.47	+ 2 23.2	1.109	1.422	43.7	21.3	85 E	47	55*
2 6	2 34.87	+ 3 41.2	1.115	1.373	45.2	21.3	81 E	49*	52*
2 11	2 38.19	+ 5 2.7	1.119	1.322	46.8	21.2	78 E	49*	48*
2 16	2 42.36	+ 6 27.4	1.119	1.271	48.3	21.2	74 E	50*	46*
2 21	2 47.34	+ 7 55.4	1.115	1.218	49.9	21.1	71 E	49*	43*
2 26	2 53.10	+ 9 26.8	1.106	1.165	51.6	21.1	67 E	49*	40*
3 2	2 59.58	+11 1.7	1.093	1.111	53.4	21.0	64 E	48*	37*
3 7	3 6.74	+12 40.2	1.075	1.056	55.5	20.9	61 E	47*	35*
3 12	3 14.52	+14 22.6	1.051	1.002	57.8	20.8	59 E	45*	33*
3 17	3 22.86	+16 9.3	1.022	0.947	60.6	20.7	56 E	44*	30*
3 22	3 31.67	+18 0.9	0.987	0.892	63.8	20.6	53 E	42*	28*
3 27	3 40.81	+19 57.9	0.946	0.839	67.7	20.5	51 E	41*	26*

285567 2000 *OM* *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 1	3 50.05	+22 1.1	0.899	0.788	72.3	20.4	49 E	39*	23*
4 6	3 59.02	+24 11.1	0.845	0.740	78.0	20.3	46 E	37*	21*
4 11	4 7.15	+26 28.7	0.786	0.697	84.8	20.3	44 E	36*	18*
4 16	4 13.56	+28 54.3	0.723	0.660	92.9	20.3	41 E	34*	15*
4 21	4 16.99	+31 27.0	0.656	0.633	102.4	20.4	38 E	31*	12*
4 23	4 17.15	+32 29.5	0.629	0.625	106.6	20.5	37 E	30*	10*
4 25	4 16.41	+33 32.1	0.603	0.619	110.9	20.7	35 E	29*	8*
4 27	4 14.64	+34 34.3	0.576	0.614	115.4	20.9	33 E	27*	6*
4 29	4 11.70	+35 35.1	0.551	0.612	120.0	21.1	32 E	26*	4*
5 1	4 7.45	+36 33.4	0.526	0.612	124.6	21.3	30 E	24*	2*

7345 Happer

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	2 53.71	+16 17.6	1.221	2.040	19.8	17.7	135 E	61	48
1 2	2 56.00	+16 50.3	1.343	2.077	22.6	18.0	126 E	62	47
1 12	3 1.38	+17 31.8	1.477	2.114	24.5	18.3	117 E	63	46
1 22	3 9.36	+18 19.6	1.621	2.151	25.7	18.6	109 E	63	46*
2 1	3 19.53	+19 11.4	1.772	2.188	26.2	18.8	101 E	64	44*
2 11	3 31.50	+20 4.9	1.927	2.225	26.3	19.1	94 E	65	42*
2 21	3 44.94	+20 58.1	2.084	2.263	25.9	19.2	87 E	66*	39*
3 2	3 59.61	+21 49.2	2.242	2.300	25.2	19.4	81 E	64*	37*
3 12	4 15.25	+22 36.6	2.400	2.337	24.2	19.6	74 E	60*	35*
3 22	4 31.69	+23 19.1	2.554	2.373	23.0	19.7	68 E	56*	33*
4 1	4 48.77	+23 55.6	2.705	2.409	21.5	19.8	62 E	50*	31*
4 11	5 6.33	+24 25.4	2.851	2.445	20.0	19.9	57 E	45*	29*
4 21	5 24.24	+24 47.9	2.989	2.480	18.3	20.0	51 E	39*	27*
5 1	5 42.41	+25 2.7	3.121	2.515	16.5	20.1	45 E	33*	25*
5 11	6 0.70	+25 9.5	3.243	2.549	14.7	20.1	40 E	27*	22*
5 21	6 19.04	+25 8.3	3.356	2.582	12.7	20.1	34 E	21*	20*
5 31	6 37.33	+24 59.1	3.458	2.615	10.8	20.2	29 E	15*	17*
6 10	6 55.48	+24 42.3	3.549	2.647	8.7	20.2	23 E	10*	13*
6 20	7 13.45	+24 18.2	3.627	2.679	6.7	20.1	18 E	6*	9*
6 30	7 31.15	+23 47.2	3.693	2.709	4.7	20.1	13 E	2*	5*
7 10	7 48.53	+23 9.8	3.745	2.739	2.7	20.0	7 E	—	—
7 20	8 5.55	+22 26.7	3.783	2.768	0.9	19.9	2 E	—	—
7 30	8 22.17	+21 38.7	3.807	2.797	1.7	20.1	5 W	—	—
8 9	8 38.34	+20 46.3	3.816	2.824	3.7	20.2	10 W	4*	—
8 19	8 54.02	+19 50.5	3.810	2.851	5.6	20.3	16 W	9*	4*
8 29	9 9.19	+18 52.1	3.789	2.877	7.5	20.4	22 W	15*	7*
9 8	9 23.79	+17 52.1	3.753	2.902	9.4	20.5	28 W	20*	11*
9 18	9 37.79	+16 51.3	3.703	2.926	11.1	20.6	34 W	26*	14*
9 28	9 51.12	+15 50.9	3.638	2.949	12.8	20.6	41 W	32*	18*
10 8	10 3.73	+14 52.0	3.559	2.972	14.3	20.6	47 W	38*	21*
10 18	10 15.54	+13 55.8	3.467	2.993	15.6	20.6	54 W	44*	25*
10 28	10 26.43	+13 3.5	3.363	3.014	16.8	20.6	61 W	49*	29*
11 7	10 36.30	+12 16.7	3.250	3.034	17.7	20.6	69 W	54*	34*
11 17	10 45.00	+11 36.7	3.128	3.053	18.4	20.5	77 W	56*	39*
11 27	10 52.34	+11 5.3	2.999	3.071	18.7	20.5	85 W	56	44*
12 7	10 58.13	+10 43.9	2.868	3.088	18.6	20.4	93 W	56	48*
12 17	11 2.16	+10 34.2	2.737	3.104	18.0	20.3	103 W	56	52*
12 27	11 4.19	+10 37.6	2.611	3.119	17.0	20.2	112 W	56	53
1 6	11 4.04	+10 54.7	2.493	3.134	15.3	20.0	123 W	56	53
1 16	11 1.57	+11 25.6	2.389	3.147	13.1	19.8	133 W	56	53

354332 2003 *AD*$_1$

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	2 53.94	−23 13.1	1.088	1.745	30.8	20.8	115 E	22	87
12 28	2 51.12	−21 16.9	1.100	1.723	32.1	20.8	112 E	24	85
1 2	2 49.44	−19 12.2	1.113	1.702	33.3	20.9	108 E	26	83
1 7	2 48.88	−17 0.9	1.129	1.680	34.4	20.9	105 E	28	81
1 12	2 49.41	−14 44.6	1.146	1.658	35.4	20.9	102 E	30	79
1 17	2 50.98	−12 24.7	1.165	1.637	36.4	21.0	99 E	33	76*
1 22	2 53.52	−10 2.2	1.184	1.615	37.3	21.0	96 E	35	73*
1 27	2 57.00	− 7 38.1	1.204	1.593	38.1	21.0	93 E	37	69*
2 1	3 1.36	− 5 13.3	1.225	1.572	38.8	21.1	90 E	40	65*
2 6	3 6.55	− 2 48.6	1.247	1.550	39.4	21.1	87 E	42	61*
2 11	3 12.52	− 0 24.5	1.268	1.529	40.0	21.1	84 E	45	58*
2 16	3 19.24	+ 1 58.5	1.289	1.507	40.4	21.1	82 E	47*	55*
2 21	3 26.68	+ 4 20.0	1.311	1.487	40.8	21.2	79 E	49*	52*
2 26	3 34.82	+ 6 39.5	1.332	1.466	41.1	21.2	77 E	50*	49*
3 2	3 43.64	+ 8 56.7	1.352	1.446	41.3	21.2	74 E	51*	46*
3 7	3 53.13	+11 11.1	1.373	1.426	41.5	21.2	72 E	51*	43*
3 12	4 3.27	+13 22.3	1.392	1.407	41.6	21.2	70 E	51*	41*
3 17	4 14.08	+15 30.0	1.411	1.388	41.6	21.2	68 E	51*	39*
3 22	4 25.54	+17 33.7	1.430	1.370	41.6	21.2	66 E	50*	37*
3 27	4 37.68	+19 33.1	1.447	1.353	41.6	21.2	64 E	50*	35*
4 1	4 50.49	+21 27.6	1.464	1.337	41.5	21.2	62 E	49*	33*
4 6	5 3.98	+23 16.8	1.480	1.321	41.4	21.2	61 E	48*	31*
4 11	5 18.16	+25 0.0	1.495	1.307	41.2	21.2	59 E	47*	30*
4 16	5 33.02	+26 36.6	1.509	1.293	41.1	21.2	58 E	46*	29*
4 21	5 48.58	+28 6.1	1.523	1.281	40.9	21.2	57 E	45*	27*
4 26	6 4.83	+29 27.8	1.536	1.270	40.7	21.2	55 E	44*	26*
5 1	6 21.75	+30 41.0	1.548	1.260	40.5	21.1	54 E	43*	25*

354332 2003 AD_1 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 6	6 39.32	+31 44.9	1.559	1.252	40.2	21.1	53 E	42*	25*
5 11	6 57.49	+32 38.9	1.570	1.245	40.0	21.1	52 E	41*	24*
5 16	7 16.21	+33 22.3	1.580	1.239	39.8	21.1	52 E	40*	24*
5 21	7 35.42	+33 54.6	1.589	1.235	39.6	21.1	51 E	39*	23*
5 26	7 55.05	+34 15.1	1.599	1.233	39.3	21.1	50 E	39*	23*
5 31	8 14.99	+34 23.6	1.608	1.232	39.1	21.1	50 E	38*	23*
6 5	8 35.13	+34 19.7	1.617	1.233	38.8	21.1	50 E	37*	23*
6 10	8 55.38	+34 3.3	1.626	1.235	38.6	21.2	49 E	36*	24*
6 15	9 15.62	+33 34.5	1.636	1.239	38.3	21.2	49 E	36*	24*
6 20	9 35.76	+32 53.6	1.646	1.244	38.1	21.2	49 E	35*	25*
6 25	9 55.70	+32 0.9	1.657	1.251	37.8	21.2	49 E	34*	25*
6 30	10 15.36	+30 57.0	1.669	1.260	37.4	21.2	49 E	34*	26*
7 5	10 34.66	+29 42.9	1.682	1.269	37.1	21.2	49 E	33*	27*
7 10	10 53.56	+28 19.2	1.696	1.280	36.7	21.3	49 E	33*	28*
7 15	11 12.02	+26 47.0	1.712	1.292	36.3	21.3	49 E	32*	29*
7 20	11 30.03	+25 7.4	1.730	1.306	35.8	21.3	49 E	32*	29*
7 25	11 47.58	+23 21.3	1.749	1.320	35.3	21.4	49 E	31*	30*
7 30	12 4.67	+21 30.1	1.771	1.335	34.7	21.4	49 E	31*	31*
8 4	12 21.30	+19 34.8	1.794	1.352	34.1	21.4	48 E	30*	32*
8 9	12 37.51	+17 36.5	1.820	1.369	33.4	21.5	48 E	29*	32*

137201 1999 KF_{13}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 54.09	+11 13.7	1.756	2.536	16.3	21.4	134 E	56	53
1 2	2 52.32	+11 29.2	1.882	2.557	18.8	21.7	123 E	56	53
1 12	2 53.41	+11 56.8	2.021	2.576	20.5	21.9	113 E	57	52
1 22	2 57.06	+12 34.1	2.169	2.594	21.6	22.1	104 E	58	51*
2 1	3 2.96	+13 18.8	2.321	2.612	22.0	22.3	96 E	58	48*

339634 2005 QG_{27}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 54.28	+15 1.0	1.555	2.355	17.2	21.4	135 E	60	49
1 2	2 53.60	+15 15.7	1.684	2.385	19.8	21.7	125 E	60	49
1 12	2 55.92	+15 41.6	1.826	2.415	21.6	22.0	115 E	61	48
1 22	3 0.87	+16 16.5	1.977	2.444	22.7	22.2	106 E	61	47*
2 1	3 8.09	+16 58.2	2.134	2.472	23.2	22.4	98 E	62	45*

501585 2014 QA_{43}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 54.45	−26 12.9	4.592	5.054	10.3	18.8	113 E	19	90
1 2	2 53.20	−24 56.6	4.715	5.072	10.7	18.9	106 E	20	89
1 12	2 53.26	−23 32.3	4.848	5.091	11.0	18.9	99 E	21	88
1 22	2 54.62	−22 2.8	4.987	5.110	11.1	19.0	92 E	23	82*
2 1	2 57.22	−20 30.4	5.130	5.130	11.0	19.1	84 E	24	75*
2 11	3 0.95	−18 57.3	5.274	5.150	10.8	19.1	77 E	26*	68*
2 21	3 5.69	−17 25.1	5.415	5.171	10.4	19.2	71 E	26*	61*
3 2	3 11.34	−15 55.2	5.552	5.192	9.9	19.2	64 E	25*	55*
3 12	3 17.75	−14 28.9	5.681	5.214	9.2	19.3	57 E	21*	50*
3 22	3 24.82	−13 7.0	5.802	5.236	8.5	19.3	51 E	17*	45*
4 1	3 32.44	−11 50.2	5.911	5.258	7.8	19.3	45 E	11*	39*
4 11	3 40.50	−10 39.1	6.008	5.281	7.0	19.3	40 E	5*	34*
4 21	3 48.90	− 9 34.0	6.092	5.304	6.3	19.3	35 E	—	29*
5 1	3 57.56	− 8 35.4	6.160	5.327	5.7	19.3	32 E	—	23*
5 11	4 6.37	− 7 43.5	6.213	5.351	5.2	19.3	29 E	—	17*
5 21	4 15.26	− 6 58.4	6.250	5.375	5.0	19.4	28 E	—	11*
5 31	4 24.15	− 6 20.3	6.271	5.400	5.1	19.4	28 W	—	8*
6 10	4 32.94	− 5 49.1	6.275	5.425	5.4	19.4	30 W	—	16*
6 20	4 41.56	− 5 24.9	6.263	5.450	6.0	19.4	34 W	—	23*
6 30	4 49.92	− 5 7.7	6.235	5.476	6.6	19.5	38 W	—	30*
7 10	4 57.94	− 4 57.1	6.192	5.501	7.3	19.5	44 W	—	37*
7 20	5 5.52	− 4 53.1	6.134	5.528	8.0	19.5	49 W	4*	43*
7 30	5 12.58	− 4 55.2	6.063	5.554	8.7	19.5	56 W	12*	49*
8 9	5 19.00	− 5 3.2	5.980	5.581	9.3	19.5	62 W	19*	55*
8 19	5 24.70	− 5 16.5	5.887	5.608	9.7	19.5	69 W	26*	60*
8 29	5 29.57	− 5 34.4	5.785	5.635	10.0	19.5	76 W	31*	64*
9 8	5 33.51	− 5 56.0	5.679	5.662	10.2	19.5	84 W	36*	68*
9 18	5 36.42	− 6 20.4	5.570	5.690	10.2	19.5	92 W	38*	70*
9 28	5 38.23	− 6 46.3	5.462	5.718	9.9	19.4	100 W	38	71
10 8	5 38.87	− 7 12.1	5.359	5.746	9.5	19.4	108 W	38	71
10 18	5 38.32	− 7 36.1	5.264	5.775	8.9	19.3	116 W	37	72
10 28	5 36.60	− 7 56.5	5.182	5.803	8.1	19.3	125 W	37	72
11 7	5 33.81	− 8 11.3	5.117	5.832	7.2	19.2	132 W	37	72
11 17	5 30.09	− 8 18.6	5.072	5.861	6.3	19.1	140 W	37	72
11 27	5 25.66	− 8 16.8	5.051	5.891	5.4	19.1	145 W	37	72
12 7	5 20.82	− 8 4.9	5.056	5.920	5.0	19.1	149 W	37	72
12 17	5 15.88	− 7 42.5	5.089	5.950	5.0	19.1	148 E	37	72
12 27	5 11.16	− 7 9.8	5.149	5.980	5.4	19.2	145 E	38	71
1 6	5 6.98	− 6 27.9	5.236	6.010	6.2	19.3	139 E	39	70
1 16	5 3.56	− 5 38.3	5.348	6.040	7.1	19.4	131 E	39	70

402138 2004 PC_{97}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 54.66	+54 31.0	1.305	2.106	19.8	20.4	133 E	80	9
12 28	2 54.15	+53 39.8	1.364	2.137	20.5	20.5	130 E	81	10
1 2	2 55.06	+52 49.3	1.427	2.169	21.1	20.7	127 E	82	11
1 7	2 57.20	+52 0.7	1.493	2.200	21.7	20.8	124 E	83	12

402138 2004 PC_{97} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 12	3 0.44	+51 14.6	1.562	2.231	22.2	21.0	121 E	84	13
1 17	3 4.62	+50 31.4	1.634	2.263	22.7	21.1	117 E	84	13*
1 22	3 9.61	+49 51.3	1.709	2.294	23.1	21.3	114 E	85	14*
1 27	3 15.33	+49 14.3	1.787	2.325	23.3	21.4	111 E	86	15*

483502 2002 VF_{98}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 55.68	+31 11.2	0.759	1.629	23.8	19.2	138 E	76	33
12 28	3 0.66	+28 52.0	0.794	1.639	25.5	19.3	134 E	74	35
1 2	3 6.34	+26 46.1	0.833	1.649	27.1	19.5	130 E	72	37
1 7	3 12.62	+24 53.9	0.876	1.660	28.5	19.7	126 E	70	39
1 12	3 19.42	+23 14.9	0.923	1.671	29.8	19.8	122 E	68	41
1 22	3 34.32	+20 33.2	1.026	1.696	31.7	20.2	115 E	66	43
2 1	3 50.63	+18 32.5	1.139	1.723	32.9	20.4	108 E	64	45*
2 11	4 8.01	+17 3.4	1.260	1.752	33.5	20.7	102 E	62	47*
2 21	4 26.18	+15 57.0	1.386	1.782	33.5	21.0	96 E	61	47*
3 2	4 44.98	+15 5.9	1.517	1.814	33.1	21.2	90 E	60*	47*
3 12	5 4.24	+14 24.3	1.650	1.848	32.4	21.4	85 E	58*	47*

73673 1986 RX_1

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 55.89	+26 40.1	1.741	2.557	15.0	18.7	138 E	72	37
1 2	2 54.98	+25 51.6	1.876	2.596	17.5	19.0	128 E	71	38
1 12	2 57.03	+25 16.7	2.026	2.634	19.3	19.2	118 E	70	39
1 22	3 1.65	+24 55.1	2.187	2.671	20.4	19.4	109 E	70	39*
2 1	3 8.47	+24 45.2	2.355	2.708	21.0	19.7	100 E	70	38*
2 11	3 17.12	+24 45.0	2.526	2.744	21.1	19.8	92 E	70	36*
2 21	3 27.28	+24 52.2	2.699	2.779	20.7	20.0	84 E	69*	34*
3 2	3 38.70	+25 4.6	2.870	2.813	20.1	20.1	77 E	65*	32*
3 12	3 51.14	+25 20.2	3.037	2.847	19.1	20.3	70 E	59*	30*
3 22	4 4.43	+25 37.3	3.199	2.880	17.9	20.4	63 E	53*	27*
4 1	4 18.40	+25 54.4	3.352	2.912	16.5	20.4	56 E	47*	25*
4 11	4 32.91	+26 10.1	3.496	2.943	15.0	20.5	49 E	40*	23*
4 21	4 47.85	+26 23.5	3.629	2.973	13.3	20.5	43 E	33*	20*
5 1	5 3.11	+26 33.7	3.750	3.003	11.6	20.6	37 E	27*	17*
5 11	5 18.58	+26 40.1	3.859	3.031	9.7	20.6	30 E	21*	14*
5 21	5 34.19	+26 42.1	3.953	3.059	7.8	20.6	24 E	15*	11*
5 31	5 49.84	+26 39.5	4.032	3.086	5.9	20.5	18 E	9*	7*
6 10	6 5.44	+26 32.0	4.096	3.112	4.0	20.5	12 E	4*	3*
6 20	6 20.94	+26 19.7	4.145	3.137	2.1	20.4	7 E	—	—
6 30	6 36.26	+26 2.5	4.176	3.161	0.9	20.3	3 W	—	—
7 10	6 51.31	+25 40.8	4.192	3.185	2.2	20.5	7 W	—	—
7 20	7 6.04	+25 14.8	4.190	3.207	4.0	20.6	13 W	5*	2*
7 30	7 20.37	+24 45.0	4.172	3.229	5.9	20.7	19 W	11*	7*
8 9	7 34.23	+24 11.7	4.137	3.250	7.7	20.8	25 W	17*	11*
8 19	7 47.55	+23 35.7	4.086	3.270	9.4	20.9	32 W	23*	14*
8 29	8 0.24	+22 57.6	4.019	3.288	11.0	20.9	38 W	29*	18*
9 8	8 12.22	+22 18.3	3.938	3.307	12.5	20.9	45 W	36*	21*
9 18	8 23.40	+21 38.5	3.842	3.324	13.8	20.9	52 W	43*	25*
9 28	8 33.64	+20 59.3	3.734	3.340	15.0	20.9	60 W	49*	28*
10 8	8 42.83	+20 21.9	3.614	3.355	15.9	20.9	67 W	55*	32*
10 18	8 50.82	+19 47.3	3.485	3.370	16.6	20.8	75 W	60*	35*
10 28	8 57.43	+19 16.8	3.350	3.384	17.0	20.8	83 W	64*	38*
11 7	9 2.46	+18 51.8	3.211	3.396	17.0	20.7	92 W	64	42*
11 17	9 5.72	+18 33.3	3.072	3.408	16.5	20.6	101 W	64	44*
11 27	9 6.99	+18 22.6	2.937	3.419	15.6	20.5	111 W	63	46*
12 7	9 6.11	+18 20.2	2.810	3.429	14.2	20.3	121 W	63	46
12 17	9 2.97	+18 26.2	2.697	3.438	12.2	20.2	132 W	63	46
12 27	8 57.59	+18 40.0	2.604	3.447	9.7	20.0	144 W	64	45
1 6	8 50.22	+18 59.6	2.534	3.454	6.7	19.8	156 W	64	45
1 16	8 41.32	+19 22.5	2.492	3.461	3.4	19.6	168 W	64	45

162186 1999 OP_3

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 56.92	+50 25.9	3.203	3.962	10.1	21.2	135 E	85	14
12 28	2 53.33	+49 40.8	3.228	3.948	10.8	21.2	131 E	85	14
1 2	2 50.50	+48 54.7	3.259	3.933	11.5	21.2	127 E	86	15
1 7	2 48.44	+48 8.6	3.295	3.918	12.1	21.3	123 E	87	16
1 12	2 47.12	+47 23.3	3.335	3.903	12.8	21.3	119 E	88	17
1 17	2 46.51	+46 39.2	3.379	3.887	13.3	21.4	114 E	88	17*
1 22	2 46.60	+45 56.9	3.426	3.872	13.8	21.4	110 E	89	18*
1 27	2 47.34	+45 16.8	3.475	3.856	14.3	21.4	105 E	90	18*
2 1	2 48.69	+44 39.2	3.527	3.839	14.6	21.5	101 E	90	18*

226082 2002 LQ_{20}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 57.31	+14 2.9	1.737	2.533	15.8	21.3	135 E	59	50
1 2	2 55.02	+14 23.9	1.864	2.556	18.4	21.5	125 E	59	50
1 12	2 55.69	+14 54.8	2.004	2.577	20.2	21.8	115 E	60	49
1 22	2 59.03	+15 33.9	2.153	2.598	21.4	22.0	106 E	61	48*
2 1	3 4.69	+16 19.5	2.308	2.618	21.9	22.2	97 E	61	46*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		57004 2000 SP_{349}							
	h m	° ′			°	m	°	°	°
12 23	2 57.80	+19 5.2	1.980	2.781	14.0	19.6	137 E	64	45
1 2	2 54.97	+19 6.4	2.112	2.806	16.4	19.8	126 E	64	45
1 12	2 54.95	+19 16.7	2.259	2.831	18.2	20.1	116 E	64	45
1 22	2 57.46	+19 35.7	2.416	2.855	19.3	20.3	106 E	65	44*
2 1	3 2.23	+20 2.1	2.579	2.879	19.8	20.4	98 E	65	42*
2 11	3 8.95	+20 34.6	2.744	2.901	19.9	20.6	89 E	66*	39*
2 21	3 17.31	+21 11.5	2.909	2.922	19.5	20.7	81 E	64*	36*
3 2	3 27.08	+21 51.4	3.070	2.942	18.8	20.8	73 E	60*	33*
3 12	3 38.03	+22 32.8	3.224	2.962	17.8	20.9	66 E	55*	30*
3 22	3 49.98	+23 14.3	3.371	2.980	16.6	21.0	59 E	49*	27*
4 1	4 2.78	+23 54.9	3.508	2.998	15.2	21.1	52 E	43*	24*
4 11	4 16.29	+24 33.6	3.634	3.015	13.7	21.1	45 E	36*	21*
4 21	4 30.39	+25 9.4	3.747	3.030	12.0	21.1	39 E	30*	18*
5 1	4 44.97	+25 41.7	3.847	3.045	10.2	21.1	32 E	23*	15*
5 11	4 59.94	+26 9.9	3.932	3.059	8.4	21.1	26 E	17*	11*
5 21	5 15.20	+26 33.6	4.002	3.072	6.5	21.0	20 E	11*	8*
5 31	5 30.68	+26 52.4	4.057	3.084	4.6	21.0	14 E	6*	3*
6 10	5 46.28	+27 6.2	4.096	3.095	2.8	20.9	8 E	2*	—
6 20	6 1.94	+27 14.9	4.118	3.105	1.3	20.8	4 E	—	—
6 30	6 17.56	+27 18.5	4.124	3.114	1.9	20.9	6 W	—	—
7 10	6 33.08	+27 17.4	4.113	3.122	3.7	21.0	11 W	4*	1*
7 20	6 48.41	+27 11.7	4.086	3.130	5.5	21.1	17 W	9*	5*
7 30	7 3.48	+27 1.9	4.043	3.136	7.3	21.1	23 W	15*	9*
8 9	7 18.20	+26 48.6	3.984	3.141	9.1	21.2	29 W	21*	12*
8 19	7 32.50	+26 32.4	3.910	3.146	10.9	21.2	36 W	27*	15*
8 29	7 46.28	+26 14.3	3.821	3.149	12.5	21.2	42 W	34*	18*
9 8	7 59.44	+25 55.1	3.719	3.152	14.0	21.2	49 W	41*	21*
9 18	8 11.88	+25 36.0	3.605	3.153	15.3	21.2	56 W	47*	24*
9 28	8 23.47	+25 18.2	3.479	3.154	16.4	21.2	63 W	54*	26*
10 8	8 34.06	+25 3.3	3.344	3.153	17.4	21.1	70 W	60*	29*
10 18	8 43.50	+24 52.6	3.202	3.152	18.0	21.1	78 W	66*	32*
10 28	8 51.56	+24 48.0	3.054	3.150	18.3	21.0	86 W	69*	34*
11 7	8 58.05	+24 51.0	2.904	3.147	18.3	20.8	95 W	70	36*
11 17	9 2.68	+25 3.3	2.756	3.142	17.8	20.7	104 W	70	38*
11 27	9 5.19	+25 26.2	2.612	3.137	16.8	20.6	113 W	70	39*
12 7	9 5.30	+26 0.0	2.479	3.131	15.2	20.4	123 W	71	38
12 17	9 2.80	+26 44.2	2.359	3.124	13.1	20.2	134 W	72	37
12 27	8 57.60	+27 36.6	2.258	3.116	10.4	20.0	145 W	73	36
1 6	8 49.88	+28 32.7	2.182	3.107	7.3	19.8	156 W	74	35
1 16	8 40.09	+29 27.1	2.134	3.097	4.4	19.6	166 W	74	35
		217262 2003 YN_3							
12 23	2 57.97	+25 31.5	0.844	1.708	22.6	18.9	138 E	71	38
1 2	3 5.05	+24 28.3	0.939	1.739	25.8	19.2	130 E	69	40
1 12	3 15.24	+23 47.2	1.046	1.772	28.2	19.6	122 E	69	40
1 22	3 27.90	+23 24.0	1.164	1.807	29.8	19.9	114 E	68	41
2 1	3 42.54	+23 14.3	1.290	1.842	30.7	20.2	107 E	68	41*
2 11	3 58.74	+23 13.5	1.422	1.878	31.1	20.5	101 E	68	40*
2 21	4 16.13	+23 17.4	1.560	1.914	31.0	20.7	95 E	68	39*
3 2	4 34.45	+23 22.6	1.701	1.951	30.5	20.9	89 E	68*	39*
3 12	4 53.47	+23 26.5	1.844	1.988	29.8	21.1	83 E	66*	38*
3 22	5 12.99	+23 26.7	1.988	2.025	28.7	21.3	78 E	62*	37*
4 1	5 32.85	+23 21.7	2.132	2.061	27.5	21.4	72 E	57*	36*
		138846 2000 VJ_{61}							
12 23	2 58.31	+29 40.7	1.360	2.197	17.2	19.3	139 E	75	34
12 28	2 54.09	+28 27.8	1.372	2.164	19.5	19.3	133 E	73	36
1 2	2 50.99	+27 17.4	1.389	2.131	21.6	19.4	127 E	72	37
1 7	2 49.03	+26 11.0	1.410	2.097	23.6	19.5	121 E	71	38
1 12	2 48.18	+25 9.3	1.433	2.062	25.4	19.5	116 E	70	39
1 22	2 49.61	+23 22.3	1.486	1.993	28.4	19.6	106 E	68	40*
2 1	2 54.91	+21 57.7	1.543	1.921	30.6	19.7	96 E	67	40*
2 11	3 3.60	+20 53.6	1.598	1.847	32.3	19.7	88 E	66*	38*
2 21	3 15.29	+20 6.1	1.647	1.772	33.4	19.7	80 E	63*	37*
3 2	3 29.66	+19 31.2	1.689	1.695	34.1	19.7	73 E	59*	35*
3 12	3 46.49	+19 4.0	1.721	1.617	34.5	19.6	67 E	54*	34*
3 22	4 5.59	+18 40.0	1.741	1.538	34.7	19.6	61 E	48*	33*
4 1	4 26.89	+18 14.8	1.749	1.459	34.8	19.5	57 E	43*	32*
4 11	4 50.33	+17 43.8	1.744	1.380	35.0	19.4	52 E	37*	32*
4 21	5 15.89	+17 2.5	1.727	1.303	35.4	19.2	49 E	32*	31*
5 1	5 43.60	+16 6.7	1.698	1.228	35.9	19.1	46 E	27*	31*
5 11	6 13.46	+14 51.9	1.658	1.157	36.9	18.9	43 E	22*	32*
5 21	6 45.53	+13 14.5	1.609	1.093	38.3	18.8	42 E	18*	32*
5 31	7 19.87	+11 11.6	1.553	1.038	40.2	18.6	41 E	13*	33*
6 10	7 56.52	+ 8 41.8	1.492	0.995	42.6	18.5	42 E	10*	34*
6 20	8 35.58	+ 5 46.0	1.432	0.967	45.2	18.4	42 E	7*	36*
6 30	9 17.10	+ 2 27.8	1.375	0.956	47.6	18.4	44 E	5*	38*
7 5	9 38.77	+ 0 42.4	1.351	0.957	48.7	18.4	45 E	4*	39*
7 10	10 1.02	− 1 5.6	1.330	0.963	49.5	18.4	46 E	4*	40*
7 15	10 23.83	− 2 54.9	1.312	0.973	50.2	18.4	47 E	3*	41*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		138846 2000 VJ_{61} *(continuation)*							
	h m	° ′			°	m	°	°	°
7 20	10 47.12	− 4 43.8	1.300	0.988	50.5	18.4	49 E	4*	43*
7 25	11 10.83	− 6 30.7	1.293	1.006	50.6	18.4	50 E	4*	44*
7 30	11 34.84	− 8 14.0	1.292	1.028	50.4	18.5	51 E	5*	45*
8 4	11 59.02	− 9 51.8	1.296	1.053	49.9	18.5	52 E	5*	46*
8 9	12 23.21	−11 22.8	1.307	1.080	49.1	18.6	54 E	6*	48*
8 14	12 47.29	−12 45.9	1.325	1.111	48.2	18.6	55 E	7*	49*
8 19	13 11.09	−14 0.1	1.349	1.143	47.0	18.7	56 E	8*	50*
8 29	13 57.32	−16 0.9	1.415	1.212	44.4	18.9	57 E	10*	51*
9 8	14 41.04	−17 25.2	1.502	1.286	41.5	19.1	58 E	12*	52*
9 18	15 21.79	−18 16.9	1.607	1.363	38.4	19.2	58 E	14*	51*
9 23	15 41.01	−18 32.2	1.666	1.403	36.9	19.3	57 E	15*	51*
9 28	15 59.48	−18 41.4	1.727	1.442	35.4	19.4	57 E	16*	50*
10 3	16 17.21	−18 45.0	1.791	1.482	34.0	19.5	56 E	17*	49*
10 8	16 34.23	−18 43.8	1.858	1.521	32.5	19.6	55 E	18*	48*
10 13	16 50.60	−18 38.0	1.926	1.561	31.1	19.7	54 E	18*	47*
10 18	17 6.35	−18 28.3	1.996	1.600	29.6	19.8	53 E	19*	45*
10 23	17 21.52	−18 15.0	2.067	1.639	28.2	19.9	51 E	19*	43*
10 28	17 36.14	−17 58.4	2.139	1.678	26.9	20.0	50 E	20*	42*
11 7	18 3.89	−17 16.3	2.284	1.755	24.2	20.1	47 E	21*	37*
11 17	18 29.87	−16 23.9	2.428	1.831	21.5	20.3	43 E	21*	32*
11 27	18 54.32	−15 22.6	2.569	1.905	19.0	20.4	39 E	21*	26*
12 7	19 17.41	−14 13.3	2.706	1.977	16.5	20.5	35 E	21*	21*
12 17	19 39.29	−12 57.0	2.836	2.047	14.0	20.6	30 E	20*	15*
12 27	20 0.08	−11 34.4	2.958	2.116	11.7	20.7	26 E	18*	9*
1 6	20 19.87	−10 6.3	3.069	2.182	9.4	20.8	21 E	15*	3*
1 16	20 38.75	− 8 33.2	3.170	2.247	7.3	20.8	17 E	11*	—
		18172 2000 QL_7							
12 23	2 59.33	+88 3.9	0.376	1.191	48.6	15.7	115 E	47	—
12 24	3 50.23	+87 55.4	0.375	1.193	48.3	15.7	115 E	47	—
12 25	4 33.77	+87 40.6	0.375	1.194	48.0	15.7	116 E	47	—
12 26	5 8.57	+87 20.6	0.374	1.195	47.7	15.6	116 E	48	—
12 27	5 35.52	+86 56.6	0.373	1.197	47.4	15.6	116 E	48	—
12 28	5 56.23	+86 29.4	0.372	1.198	47.1	15.6	117 E	49	—
12 29	6 12.23	+85 59.6	0.372	1.200	46.8	15.6	117 E	49	—
12 30	6 24.73	+85 27.6	0.371	1.202	46.4	15.6	118 E	50	—
12 31	6 34.63	+84 53.8	0.370	1.204	46.0	15.6	118 E	50	—
1 1	6 42.56	+84 18.3	0.370	1.206	45.6	15.6	119 W	51	—
1 2	6 49.01	+83 41.1	0.369	1.208	45.2	15.6	119 W	51	—
1 3	6 54.30	+83 2.5	0.369	1.210	44.8	15.6	120 W	52	—
1 4	6 58.70	+82 22.4	0.368	1.212	44.4	15.6	120 W	53	—
1 5	7 2.39	+81 41.0	0.368	1.215	43.9	15.5	121 W	53	—
1 6	7 5.51	+80 58.3	0.368	1.217	43.5	15.5	122 W	54	—
1 7	7 8.18	+80 14.2	0.368	1.220	43.0	15.5	122 E	55	—
1 8	7 10.49	+79 28.9	0.367	1.222	42.5	15.5	123 E	56	—
1 9	7 12.49	+78 42.4	0.367	1.225	42.0	15.5	124 E	56	—
1 10	7 14.25	+77 54.7	0.367	1.228	41.5	15.5	124 E	57	—
1 11	7 15.80	+77 5.9	0.368	1.231	41.0	15.5	125 E	58	—
1 12	7 17.19	+76 15.9	0.368	1.234	40.4	15.5	126 E	59	—
1 13	7 18.44	+75 24.9	0.368	1.237	39.9	15.5	126 E	60	—
1 14	7 19.56	+74 32.8	0.369	1.240	39.4	15.5	127 E	60	—
1 15	7 20.60	+73 39.8	0.369	1.244	38.8	15.5	128 E	61	—
1 16	7 21.55	+72 45.8	0.370	1.247	38.3	15.5	128 E	62	—
1 17	7 22.43	+71 50.8	0.371	1.250	37.7	15.5	129 E	63	—
1 18	7 23.26	+70 55.1	0.372	1.254	37.2	15.4	130 E	64	—
1 19	7 24.05	+69 58.5	0.373	1.258	36.7	15.4	130 E	65	—
1 20	7 24.80	+69 1.2	0.374	1.261	36.1	15.4	131 E	66	—
1 21	7 25.52	+68 3.2	0.376	1.265	35.6	15.4	132 E	67	—
1 22	7 26.23	+67 4.6	0.377	1.269	35.0	15.4	132 E	68	—
1 24	7 27.59	+65 5.7	0.381	1.277	34.0	15.5	133 E	70	—
1 26	7 28.94	+63 5.3	0.386	1.285	33.0	15.5	135 E	72	1
1 28	7 30.28	+61 3.7	0.391	1.294	32.1	15.5	136 E	74	3
1 30	7 31.66	+59 1.8	0.397	1.302	31.3	15.5	137 E	76	5
2 1	7 33.06	+57 0.0	0.403	1.311	30.5	15.5	138 E	78	7
2 6	7 36.78	+51 59.8	0.424	1.335	29.0	15.6	139 E	83	12
2 11	7 40.84	+47 12.1	0.450	1.360	28.1	15.8	139 E	88	17
2 16	7 45.23	+42 42.5	0.481	1.387	27.9	16.0	139 E	88	21
2 21	7 49.96	+38 34.5	0.517	1.414	28.1	16.2	138 E	84	25
2 26	7 55.06	+34 49.5	0.558	1.442	28.7	16.4	136 E	80	29
3 2	8 0.50	+31 27.1	0.603	1.472	29.4	16.6	133 E	76	33
3 7	8 6.26	+28 26.0	0.653	1.502	30.1	16.9	131 E	73	36
3 12	8 12.28	+25 44.2	0.707	1.533	30.8	17.1	128 E	71	38
3 17	8 18.54	+23 19.6	0.765	1.564	31.5	17.3	125 E	68	41
3 22	8 25.02	+21 9.7	0.826	1.596	32.0	17.6	122 E	66	43
3 27	8 31.69	+19 12.6	0.890	1.628	32.4	17.8	119 E	64	45
4 1	8 38.55	+17 26.2	0.958	1.660	32.7	18.0	116 E	62	47
4 6	8 45.55	+15 48.8	1.027	1.692	32.9	18.2	113 E	61	48
4 11	8 52.67	+14 19.0	1.099	1.725	33.0	18.4	110 E	59	50
4 16	8 59.90	+12 55.6	1.174	1.758	33.0	18.6	107 E	58	51
4 21	9 7.21	+11 37.4	1.250	1.791	32.9	18.7	105 E	57*	52

18172 2000 *QL*$_7$ *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	9 22.07	+ 9 13.3	1.408	1.856	32.4	19.1	99 E	53*	55
5 11	9 37.13	+ 7 1.1	1.571	1.922	31.6	19.3	94 E	47*	57
5 21	9 52.31	+ 4 56.9	1.738	1.987	30.6	19.6	88 E	41*	59
5 31	10 7.57	+ 2 57.8	1.907	2.051	29.4	19.8	83 E	35*	61*
6 10	10 22.85	+ 1 2.2	2.078	2.114	28.0	20.1	78 E	29*	62*
6 20	10 38.13	− 0 51.1	2.248	2.176	26.5	20.2	73 E	23*	61*
6 30	10 53.40	− 2 43.1	2.417	2.237	24.8	20.4	68 E	17*	59*
7 10	11 8.63	− 4 34.1	2.583	2.297	23.1	20.6	62 E	13*	56*
7 20	11 23.83	− 6 24.3	2.744	2.356	21.3	20.7	57 E	9*	51*
7 30	11 39.02	− 8 13.9	2.900	2.413	19.4	20.8	52 E	5*	46*
8 9	11 54.17	−10 2.8	3.048	2.469	17.4	20.9	47 E	2*	41*
8 19	12 9.31	−11 50.9	3.188	2.524	15.5	21.0	42 E	—	35*
8 29	12 24.45	−13 37.9	3.319	2.577	13.5	21.0	36 E	—	29*
9 8	12 39.58	−15 23.7	3.438	2.629	11.5	21.1	31 E	—	24*
9 18	12 54.71	−17 8.1	3.546	2.680	9.5	21.1	26 E	—	18*
9 28	13 9.83	−18 50.7	3.641	2.729	7.6	21.1	21 E	—	13*
10 8	13 24.94	−20 31.2	3.721	2.777	5.8	21.1	16 E	—	7*
10 18	13 40.03	−22 9.5	3.787	2.824	4.5	21.1	13 E	—	2*
10 28	13 55.07	−23 45.2	3.837	2.869	3.9	21.2	11 W	—	2*
11 7	14 10.02	−25 18.2	3.871	2.913	4.3	21.2	13 W	—	6*
11 17	14 24.85	−26 48.2	3.887	2.955	5.6	21.4	17 W	—	11*
11 27	14 39.48	−28 15.3	3.887	2.996	7.1	21.5	22 W	2*	16*

188717 2005 *TU*$_{171}$

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 59.95	+28 41.4	1.441	2.276	16.5	20.5	139 E	74	35
1 2	2 59.53	+27 43.4	1.564	2.312	19.3	20.8	129 E	73	36
1 12	3 2.47	+27 0.5	1.701	2.346	21.4	21.0	119 E	72	37
1 22	3 8.26	+26 32.3	1.849	2.380	22.8	21.3	111 E	72	37*
2 1	3 16.46	+26 17.2	2.004	2.414	23.5	21.5	102 E	71	37*

339580 2005 *MK*$_{13}$

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	2 59.99	+17 1.5	1.039	1.881	20.9	19.2	137 E	62	47
1 2	3 3.86	+16 45.2	1.145	1.910	24.1	19.5	128 E	62	47
1 12	3 10.85	+16 47.4	1.263	1.940	26.3	19.8	119 E	62	47
1 22	3 20.45	+17 3.8	1.390	1.971	27.8	20.1	111 E	62	47*
2 1	3 32.23	+17 30.3	1.525	2.002	28.6	20.4	104 E	63	46*
2 11	3 45.79	+18 2.8	1.664	2.033	28.8	20.6	97 E	63	45*
2 21	4 0.76	+18 37.9	1.807	2.065	28.6	20.8	90 E	64*	43*
3 2	4 16.91	+19 12.7	1.952	2.097	28.0	21.0	84 E	63*	41*
3 12	4 33.98	+19 44.9	2.097	2.129	27.2	21.2	78 E	60*	39*
3 22	4 51.77	+20 12.5	2.241	2.161	26.1	21.3	72 E	56*	38*
4 1	5 10.13	+20 34.2	2.384	2.193	24.8	21.4	67 E	52*	36*

213158 2000 *QE*$_{55}$

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 0.32	+25 46.0	1.588	2.416	15.6	20.9	139 E	71	38
1 2	2 57.97	+25 12.4	1.708	2.441	18.5	21.1	128 E	70	39
1 12	2 59.00	+24 50.9	1.841	2.464	20.6	21.4	118 E	70	39
1 22	3 2.98	+24 41.6	1.985	2.486	22.0	21.6	109 E	70	39*
2 1	3 9.53	+24 43.2	2.136	2.508	22.7	21.8	100 E	70	38*

273292 2006 *SP*$_{36}$

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 0.59	+ 7 51.7	1.460	2.255	18.4	20.5	134 E	53	56
1 2	2 59.47	+ 8 50.6	1.584	2.283	20.9	20.8	124 E	54	55
1 12	3 1.45	+ 9 57.9	1.721	2.311	22.7	21.1	115 E	55	54
1 22	3 6.16	+11 10.7	1.866	2.338	23.9	21.3	106 E	56	53*
2 1	3 13.22	+12 26.4	2.017	2.364	24.4	21.5	98 E	57	50*

306436 1998 *SB*$_{163}$

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 0.72	+24 59.7	1.720	2.544	14.8	20.9	139 E	70	39
1 2	2 58.92	+24 40.2	1.862	2.589	17.4	21.2	128 E	70	39
1 12	3 0.19	+24 30.7	2.019	2.633	19.2	21.5	118 E	70	39
1 22	3 4.12	+24 31.1	2.187	2.677	20.3	21.7	109 E	70	39*
2 1	3 10.32	+24 40.3	2.362	2.720	20.9	22.0	101 E	70	38*

5038 Overbeek

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 1.61	+16 7.9	1.873	2.678	14.5	18.1	137 E	61	48
1 2	2 58.41	+16 29.6	2.000	2.700	17.1	18.4	126 E	61	48
1 12	2 58.12	+16 59.4	2.142	2.722	18.9	18.6	116 E	62	47
1 22	3 0.49	+17 36.3	2.294	2.742	20.1	18.8	107 E	63	46*
2 1	3 5.21	+18 19.3	2.451	2.762	20.7	19.0	98 E	63	44*
2 11	3 11.96	+19 6.7	2.611	2.781	20.8	19.1	89 E	64	41*
2 21	3 20.45	+19 57.0	2.770	2.799	20.4	19.3	81 E	63*	38*
3 2	3 30.42	+20 49.0	2.926	2.816	19.8	19.4	74 E	60*	34*
3 12	3 41.65	+21 41.1	3.076	2.832	18.8	19.5	67 E	55*	31*
3 22	3 53.94	+22 32.3	3.219	2.847	17.6	19.5	60 E	49*	28*
4 1	4 7.14	+23 21.4	3.352	2.861	16.2	19.6	53 E	43*	25*
4 11	4 21.11	+24 7.6	3.474	2.874	14.6	19.6	46 E	37*	22*
4 21	4 35.73	+24 50.0	3.584	2.887	12.9	19.6	40 E	30*	19*
5 1	4 50.90	+25 28.0	3.682	2.898	11.1	19.6	34 E	24*	16*
5 11	5 6.50	+26 1.1	3.765	2.909	9.3	19.6	28 E	18*	13*
5 21	5 22.46	+26 28.8	3.835	2.918	7.4	19.6	22 E	12*	9*

5038 Overbeek *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 31	5 38.68	+26 50.8	3.889	2.927	5.4	19.5	16 E	7*	5*
6 10	5 55.08	+27 7.1	3.928	2.935	3.5	19.4	10 E	3*	—
6 20	6 11.59	+27 17.5	3.952	2.941	1.9	19.4	5 E	—	—
6 30	6 28.12	+27 22.2	3.959	2.947	1.6	19.3	5 W	—	—
7 10	6 44.59	+27 21.3	3.952	2.952	3.1	19.4	9 W	3*	—
7 20	7 0.95	+27 15.2	3.928	2.956	5.0	19.5	15 W	7*	2*
7 30	7 17.11	+27 4.4	3.889	2.959	6.9	19.6	20 W	13*	6*
8 9	7 32.98	+26 49.4	3.835	2.961	8.7	19.7	26 W	18*	9*
8 19	7 48.52	+26 31.1	3.767	2.962	10.5	19.7	32 W	25*	12*
8 29	8 3.62	+26 10.2	3.684	2.962	12.3	19.7	39 W	31*	15*
9 8	8 18.21	+25 47.8	3.588	2.961	13.9	19.7	45 W	37*	18*
9 18	8 32.21	+25 25.1	3.479	2.960	15.4	19.7	51 W	44*	21*
9 28	8 45.49	+25 3.5	3.359	2.957	16.7	19.7	58 W	50*	23*
10 8	8 57.95	+24 44.4	3.230	2.953	17.9	19.6	65 W	56*	26*
10 18	9 9.46	+24 29.5	3.092	2.949	18.8	19.6	72 W	62*	29*
10 28	9 19.83	+24 20.9	2.948	2.943	19.4	19.5	80 W	67*	31*
11 7	9 28.86	+24 20.3	2.800	2.937	19.7	19.4	88 W	69*	34*
11 17	9 36.34	+24 30.1	2.650	2.929	19.6	19.2	96 W	70	36*
11 27	9 41.95	+24 52.1	2.503	2.921	19.0	19.1	105 W	70	38*
12 7	9 45.41	+25 27.9	2.361	2.911	17.9	18.9	115 W	70	39*
12 17	9 46.38	+26 18.2	2.230	2.901	16.3	18.7	124 W	71	38
12 27	9 44.59	+27 22.1	2.113	2.890	14.0	18.5	135 W	72	37
1 6	9 39.89	+28 36.5	2.015	2.878	11.2	18.3	145 W	74	35
1 16	9 32.37	+29 55.9	1.940	2.865	8.2	18.1	156 W	75	34

339713 2005 *SG*$_1$

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 1.69	+26 39.6	1.196	2.044	18.4	20.1	139 E	72	37
1 2	3 2.38	+26 22.9	1.312	2.080	21.5	20.4	129 E	71	38
1 12	3 6.66	+26 16.9	1.442	2.115	23.7	20.7	120 E	71	38
1 22	3 13.96	+26 20.8	1.582	2.151	25.1	21.0	112 E	71	38*
2 1	3 23.78	+26 32.9	1.729	2.186	25.9	21.3	104 E	72	37*
2 11	3 35.65	+26 51.1	1.881	2.221	26.2	21.5	97 E	72	35*

14461 1993 *FL*$_{54}$

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 1.80	+43 6.4	2.214	3.019	12.6	19.2	138 E	88	21
12 28	2 58.45	+42 36.0	2.262	3.024	13.6	19.3	133 E	88	21
1 2	2 56.01	+42 5.5	2.315	3.030	14.6	19.4	129 E	87	22
1 7	2 54.46	+41 35.9	2.372	3.035	15.5	19.4	124 E	87	22
1 12	2 53.78	+41 7.9	2.433	3.040	16.3	19.5	120 E	86	23
1 17	2 53.91	+40 41.9	2.497	3.045	17.0	19.6	115 E	86	23*
1 22	2 54.81	+40 18.2	2.563	3.050	17.6	19.7	110 E	85	23*
1 27	2 56.43	+39 57.1	2.632	3.054	18.1	19.8	106 E	85	23*
2 1	2 58.72	+39 38.8	2.702	3.058	18.4	19.8	102 E	85	23*
2 11	3 5.11	+39 10.3	2.845	3.065	18.7	20.0	93 E	84*	22*
2 21	3 13.58	+38 52.0	2.989	3.071	18.7	20.1	85 E	79*	20*
3 2	3 23.83	+38 42.5	3.131	3.077	18.3	20.2	78 E	72*	19*
3 12	3 35.59	+38 40.2	3.267	3.081	17.7	20.2	70 E	64*	17*
3 22	3 48.61	+38 43.3	3.397	3.084	16.8	20.3	64 E	57*	15*
4 1	4 2.74	+38 50.1	3.518	3.086	15.7	20.3	57 E	51*	13*
4 11	4 17.78	+38 59.1	3.628	3.088	14.5	20.4	50 E	44*	11*
4 21	4 33.62	+39 8.8	3.726	3.088	13.1	20.4	44 E	38*	9*
5 1	4 50.14	+39 17.9	3.812	3.087	11.7	20.4	38 E	32*	7*
5 11	5 7.20	+39 25.4	3.884	3.085	10.2	20.3	33 E	27*	4*
5 21	5 24.72	+39 30.3	3.942	3.082	8.8	20.3	28 E	22*	2*
5 31	5 42.59	+39 31.9	3.985	3.079	7.4	20.3	23 E	17*	—
6 10	6 0.70	+39 29.8	4.014	3.074	6.3	20.2	19 E	13*	—
6 20	6 18.99	+39 23.4	4.027	3.068	5.5	20.2	17 E	10*	—
6 30	6 37.34	+39 12.7	4.025	3.061	5.3	20.2	16 E	7*	—
7 10	6 55.66	+38 57.7	4.008	3.053	5.7	20.2	17 W	10*	—
7 20	7 13.89	+38 38.5	3.976	3.044	6.7	20.2	20 W	14*	—
7 30	7 31.93	+38 15.5	3.930	3.034	7.9	20.2	24 W	18*	—
8 9	7 49.70	+37 49.2	3.869	3.023	9.4	20.3	29 W	23*	—
8 19	8 7.14	+37 20.3	3.794	3.011	10.9	20.3	34 W	28*	3*
8 29	8 24.17	+36 49.6	3.706	2.998	12.4	20.3	40 W	34*	5*
9 8	8 40.70	+36 18.1	3.606	2.984	13.9	20.3	45 W	39*	8*
9 18	8 56.67	+35 47.1	3.494	2.969	15.3	20.2	51 W	45*	10*
9 28	9 11.98	+35 17.8	3.371	2.953	16.6	20.2	57 W	51*	12*
10 8	9 26.53	+34 51.8	3.239	2.936	17.8	20.1	64 W	58*	14*
10 18	9 40.21	+34 30.8	3.100	2.918	18.7	20.0	70 W	64*	17*
10 28	9 52.86	+34 16.6	2.953	2.899	19.5	19.9	77 W	71*	19*
11 7	10 4.31	+34 11.1	2.803	2.880	20.0	19.8	84 W	76*	22*
11 17	10 14.33	+34 16.5	2.650	2.859	20.2	19.7	92 W	79*	24*
11 27	10 22.61	+34 34.5	2.498	2.837	20.1	19.6	100 W	80	26*
12 7	10 28.84	+35 6.7	2.350	2.814	19.5	19.4	108 W	80	28*
12 17	10 32.57	+35 53.7	2.209	2.790	18.4	19.2	116 W	81	28*
12 22	10 33.36	+36 22.6	2.142	2.777	17.7	19.1	121 W	81	28
12 27	10 33.35	+36 54.7	2.078	2.765	16.9	19.0	125 W	82	27
1 1	10 32.50	+37 29.5	2.018	2.752	16.0	18.9	130 W	82	27
1 6	10 30.74	+38 6.3	1.962	2.739	14.9	18.8	134 W	83	26
1 11	10 28.06	+38 44.3	1.911	2.726	13.9	18.7	138 W	84	25
1 16	10 24.42	+39 22.3	1.865	2.712	12.8	18.6	142 W	84	25

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		2099 Öpik							
	h m	° ′			°	m	°	°	°
12 23	3 2.88	−10 56.4	0.879	1.647	29.6	17.3	124 E	34	75
12 28	3 6.31	−11 11.0	0.934	1.665	30.6	17.5	120 E	34	75
1 2	3 10.37	−11 13.2	0.992	1.683	31.4	17.6	117 E	34	75
1 7	3 15.00	−11 5.1	1.050	1.702	31.9	17.8	114 E	34	75
1 12	3 20.15	−10 48.7	1.110	1.721	32.4	18.0	110 E	34	75
1 17	3 25.77	−10 25.6	1.171	1.741	32.6	18.1	107 E	35	74
1 22	3 31.82	− 9 57.1	1.234	1.761	32.7	18.2	105 E	35	74
1 27	3 38.27	− 9 24.4	1.297	1.782	32.7	18.4	102 E	36	73*
2 1	3 45.09	− 8 48.5	1.361	1.802	32.7	18.5	99 E	36	73*
2 6	3 52.24	− 8 10.4	1.426	1.823	32.5	18.6	97 E	37	71*
2 11	3 59.69	− 7 30.9	1.491	1.844	32.3	18.7	94 E	37	70*
2 16	4 7.40	− 6 50.5	1.556	1.866	32.0	18.9	92 E	38	69*
2 21	4 15.36	− 6 9.9	1.623	1.887	31.6	19.0	89 E	39	67*
3 2	4 31.93	− 4 49.8	1.756	1.930	30.7	19.2	84 E	40*	64*
3 12	4 49.23	− 3 34.1	1.890	1.974	29.7	19.3	80 E	40*	62*
3 22	5 7.10	− 2 25.1	2.024	2.018	28.5	19.5	75 E	38*	59*
4 1	5 25.43	− 1 24.7	2.157	2.061	27.3	19.6	71 E	35*	57*
4 11	5 44.09	− 0 34.2	2.289	2.105	25.9	19.8	67 E	32*	54*
4 21	6 2.97	+ 0 5.5	2.420	2.148	24.5	19.9	62 E	28*	52*
5 1	6 21.98	+ 0 33.9	2.548	2.191	23.0	20.0	58 E	23*	49*
5 11	6 41.02	+ 0 50.8	2.672	2.233	21.5	20.1	54 E	17*	46*
5 21	7 0.02	+ 0 56.3	2.792	2.275	19.9	20.2	50 E	11*	43*
5 31	7 18.91	+ 0 50.5	2.908	2.316	18.3	20.3	46 E	6*	40*
6 10	7 37.61	+ 0 34.0	3.017	2.356	16.6	20.3	42 E	1*	36*
6 20	7 56.09	+ 0 7.3	3.120	2.396	15.0	20.4	38 E	—	31*
6 30	8 14.30	− 0 29.1	3.216	2.434	13.3	20.4	34 E	—	26*
7 10	8 32.20	− 1 14.2	3.303	2.472	11.8	20.5	30 E	—	21*
7 20	8 49.78	− 2 7.5	3.382	2.509	10.3	20.5	26 E	—	16*
7 30	9 7.00	− 3 8.1	3.450	2.545	8.9	20.5	23 E	—	10*
8 9	9 23.84	− 4 15.1	3.507	2.580	7.8	20.5	20 E	—	4*
8 19	9 40.31	− 5 27.9	3.553	2.613	7.1	20.5	19 W	—	5*
8 29	9 56.37	− 6 45.6	3.587	2.646	6.9	20.6	18 W	—	9*
9 8	10 12.02	− 8 7.3	3.607	2.678	7.2	20.6	19 W	—	12*
9 18	10 27.25	− 9 32.5	3.615	2.709	8.0	20.7	22 W	—	16*
9 28	10 42.01	−11 0.2	3.608	2.739	9.1	20.8	26 W	4*	19*
10 8	10 56.29	−12 29.7	3.588	2.768	10.4	20.8	30 W	9*	23*
10 18	11 10.04	−14 0.3	3.553	2.795	11.8	20.9	35 W	14*	27*
10 28	11 23.20	−15 31.1	3.504	2.822	13.2	20.9	40 W	18*	32*
11 7	11 35.69	−17 1.3	3.442	2.847	14.6	21.0	46 W	21*	37*
11 17	11 47.42	−18 30.1	3.366	2.872	15.8	21.0	52 W	23*	42*
11 27	11 58.27	−19 56.5	3.278	2.895	17.0	21.0	59 W	24*	48*
12 7	12 8.08	−21 19.5	3.179	2.918	17.9	20.9	66 W	24*	55*
12 17	12 16.68	−22 37.9	3.070	2.939	18.7	20.9	73 W	22	63*
12 27	12 23.84	−23 50.3	2.954	2.959	19.1	20.9	81 W	21	72*
1 6	12 29.34	−24 54.7	2.833	2.978	19.3	20.8	89 W	20	81*
1 16	12 32.91	−25 49.0	2.709	2.996	19.0	20.7	97 W	19	90
		391599 2007 UD_{29}							
12 23	3 2.98	+22 47.3	1.888	2.708	13.8	20.8	139 E	68	41
1 2	3 0.02	+22 40.9	2.022	2.740	16.4	21.1	128 E	68	41
1 12	3 0.02	+22 43.0	2.170	2.771	18.3	21.3	118 E	68	41
1 22	3 2.68	+22 53.5	2.329	2.801	19.5	21.6	108 E	68	41*
2 1	3 7.69	+23 11.8	2.495	2.831	20.1	21.7	100 E	68	39*
		187065 2005 MU_{40}							
12 23	3 3.80	+14 15.0	0.996	1.841	21.4	19.2	137 E	59	50
1 2	3 7.87	+14 22.0	1.106	1.876	24.5	19.5	128 E	59	50
1 12	3 14.99	+14 45.4	1.227	1.911	26.7	19.9	119 E	60	49
1 22	3 24.65	+15 20.2	1.358	1.948	28.0	20.2	112 E	60	49
2 1	3 36.42	+16 2.5	1.496	1.984	28.8	20.4	104 E	61	48*
2 11	3 49.91	+16 48.3	1.639	2.021	29.0	20.7	98 E	62	46*
2 21	4 4.76	+17 34.6	1.786	2.058	28.7	20.9	91 E	63	44*
3 2	4 20.75	+18 18.8	1.936	2.095	28.1	21.1	85 E	62*	42*
3 12	4 37.62	+18 59.0	2.086	2.132	27.2	21.3	79 E	60*	41*
3 22	4 55.18	+19 33.4	2.235	2.168	26.1	21.4	73 E	56*	39*
		369883 2012 QR_{18}							
12 23	3 4.35	+ 4 25.4	1.268	2.069	20.3	20.5	133 E	49	60
1 2	3 4.88	+ 5 48.9	1.388	2.102	22.8	20.8	124 E	51	58
1 12	3 8.49	+ 7 19.4	1.519	2.134	24.6	21.1	115 E	52	57
1 22	3 14.76	+ 8 53.1	1.660	2.167	25.7	21.4	107 E	54	55*
2 1	3 23.33	+10 27.0	1.807	2.200	26.2	21.6	100 E	55	53*
		153814 2001 WN_5							
12 23	3 4.39	+19 9.9	0.733	1.607	23.9	19.7	138 E	64	45
12 28	3 6.56	+19 3.4	0.797	1.639	25.6	20.0	134 E	64	45
1 2	3 9.59	+19 2.0	0.864	1.671	27.0	20.2	129 E	64	45
1 7	3 13.36	+19 5.0	0.934	1.702	28.2	20.5	125 E	64	45
1 12	3 17.78	+19 11.6	1.006	1.733	29.1	20.7	121 E	64	45
1 17	3 22.77	+19 21.1	1.080	1.763	29.7	20.9	117 E	64	45
1 22	3 28.25	+19 32.9	1.156	1.792	30.2	21.1	113 E	65	44

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		153814 2001 WN_5 *(continuation)*							
	h m	° ′			°	m	°	°	°
1 27	3 34.18	+19 46.5	1.235	1.821	30.6	21.3	110 E	65	44*
2 1	3 40.52	+20 1.4	1.314	1.849	30.8	21.5	106 E	65	44*
		121745 1999 XN_{207}							
12 23	3 4.65	+ 3 20.4	1.105	1.913	22.2	17.8	133 E	48	61
12 28	3 3.49	+ 5 6.6	1.159	1.929	23.6	18.0	128 E	50	59
1 2	3 3.32	+ 6 49.5	1.217	1.946	24.8	18.1	124 E	52	57
1 7	3 4.10	+ 8 28.7	1.278	1.962	25.8	18.3	120 E	53	56
1 12	3 5.74	+10 3.9	1.343	1.979	26.6	18.4	116 E	55	54
1 22	3 11.37	+13 2.2	1.479	2.012	27.8	18.7	108 E	58	51*
2 1	3 19.72	+15 44.7	1.624	2.046	28.3	19.0	100 E	61	47*
2 11	3 30.36	+18 12.4	1.774	2.079	28.3	19.2	93 E	63	43*
2 21	3 42.89	+20 26.1	1.927	2.113	27.8	19.4	87 E	65*	40*
3 2	3 57.02	+22 26.6	2.081	2.147	27.1	19.6	80 E	64*	36*
3 12	4 12.50	+24 14.5	2.233	2.180	26.0	19.7	74 E	61*	33*
3 22	4 29.09	+25 50.0	2.383	2.213	24.7	19.9	68 E	57*	30*
4 1	4 46.65	+27 13.5	2.528	2.246	23.2	20.0	62 E	52*	28*
4 11	5 5.00	+28 25.2	2.668	2.279	21.6	20.1	57 E	47*	25*
4 21	5 23.99	+29 25.1	2.802	2.311	19.8	20.2	51 E	42*	23*
5 1	5 43.49	+30 13.5	2.927	2.342	18.0	20.2	46 E	36*	21*
5 11	6 3.38	+30 50.6	3.044	2.373	16.2	20.3	41 E	31*	19*
5 21	6 23.52	+31 16.6	3.151	2.403	14.2	20.3	36 E	26*	16*
5 31	6 43.83	+31 32.1	3.248	2.432	12.3	20.3	31 E	21*	13*
6 10	7 4.16	+31 37.4	3.333	2.461	10.4	20.3	26 E	17*	10*
6 20	7 24.46	+31 33.2	3.407	2.489	8.6	20.3	21 E	13*	7*
6 30	7 44.61	+31 20.3	3.470	2.516	6.8	20.3	17 E	10*	3*
7 10	8 4.56	+30 59.5	3.519	2.542	5.4	20.3	14 E	7*	—
7 20	8 24.23	+30 31.6	3.556	2.568	4.5	20.3	11 E	5*	—
7 30	8 43.58	+29 57.7	3.579	2.593	4.5	20.3	12 E	4*	—
8 9	9 2.56	+29 19.0	3.590	2.616	5.3	20.4	14 W	6*	—
8 19	9 21.14	+28 36.4	3.587	2.639	6.6	20.5	18 W	11*	—
8 29	9 39.29	+27 51.4	3.570	2.661	8.2	20.6	22 W	16*	—
9 8	9 56.98	+27 5.1	3.540	2.682	9.8	20.6	27 W	21*	—
9 18	10 14.20	+26 19.0	3.497	2.703	11.5	20.7	32 W	26*	2*
9 28	10 30.90	+25 34.6	3.442	2.722	13.1	20.7	38 W	32*	4*
10 8	10 47.06	+24 53.4	3.374	2.740	14.6	20.7	44 W	38*	7*
10 18	11 2.64	+24 17.0	3.295	2.758	16.0	20.8	50 W	44*	10*
10 28	11 17.57	+23 47.3	3.205	2.774	17.3	20.8	56 W	50*	13*
11 7	11 31.78	+23 26.2	3.106	2.789	18.4	20.7	62 W	56*	17*
11 17	11 45.16	+23 15.4	2.999	2.804	19.2	20.7	69 W	61*	20*
11 27	11 57.59	+23 17.2	2.885	2.817	19.9	20.6	76 W	66*	24*
12 7	12 8.89	+23 33.5	2.768	2.830	20.2	20.6	83 W	68*	28*
12 17	12 18.86	+24 6.0	2.649	2.841	20.3	20.5	91 W	69	32*
12 27	12 27.24	+24 56.4	2.530	2.852	19.9	20.4	99 W	70	35*
1 6	12 33.74	+26 5.3	2.417	2.862	19.2	20.3	107 W	71	37*
1 16	12 38.02	+27 32.4	2.311	2.870	18.1	20.1	115 W	73	36
		3343 Nedzel							
12 23	3 6.33	+31 31.5	2.119	2.945	12.3	17.9	140 E	77	32
1 2	3 0.31	+31 22.0	2.236	2.960	14.9	18.1	129 E	76	33
1 12	2 57.51	+31 15.9	2.370	2.975	16.8	18.3	119 E	76	33
1 22	2 57.71	+31 16.0	2.516	2.989	18.1	18.5	109 E	76	32*
2 1	3 0.62	+31 23.5	2.668	3.002	18.8	18.7	100 E	76	31*
2 11	3 5.90	+31 38.3	2.824	3.014	19.1	18.8	91 E	77*	29*
2 21	3 13.20	+31 59.7	2.979	3.025	18.9	18.9	83 E	74*	26*
3 2	3 22.24	+32 26.6	3.130	3.035	18.4	19.0	75 E	68*	24*
3 12	3 32.78	+32 57.8	3.275	3.044	17.6	19.1	68 E	61*	21*
3 22	3 44.59	+33 31.9	3.411	3.052	16.6	19.2	61 E	54*	19*
4 1	3 57.52	+34 7.7	3.538	3.059	15.3	19.2	54 E	48*	16*
4 11	4 11.39	+34 43.9	3.652	3.066	14.0	19.2	48 E	41*	13*
4 21	4 26.10	+35 19.6	3.754	3.071	12.5	19.3	41 E	35*	11*
5 1	4 41.54	+35 53.7	3.841	3.075	10.9	19.2	35 E	29*	8*
5 11	4 57.59	+36 25.5	3.915	3.078	9.4	19.2	30 E	23*	5*
5 21	5 14.16	+36 54.4	3.973	3.081	7.8	19.2	25 E	18*	2*
5 31	5 31.18	+37 19.8	4.015	3.082	6.5	19.2	20 E	14*	—
6 10	5 48.54	+37 41.3	4.042	3.082	5.4	19.1	16 E	10*	—
6 20	6 6.17	+37 58.7	4.054	3.082	4.8	19.1	15 E	7*	—
6 30	6 23.98	+38 12.1	4.049	3.080	5.0	19.1	15 W	8*	—
7 10	6 41.89	+38 21.4	4.029	3.078	5.8	19.1	18 W	11*	—
7 20	6 59.82	+38 26.9	3.995	3.074	7.0	19.2	22 W	16*	—
7 30	7 17.68	+38 29.2	3.945	3.070	8.5	19.2	26 W	20*	—
8 9	7 35.40	+38 28.7	3.881	3.064	10.0	19.2	32 W	26*	2*
8 19	7 52.89	+38 26.4	3.803	3.058	11.5	19.2	37 W	31*	4*
8 29	8 10.07	+38 23.2	3.713	3.050	13.0	19.2	43 W	37*	6*
9 8	8 26.85	+38 20.3	3.611	3.042	14.4	19.2	49 W	43*	8*
9 18	8 43.16	+38 19.0	3.498	3.033	15.7	19.2	55 W	49*	10*
9 28	8 58.88	+38 21.2	3.376	3.022	16.9	19.1	61 W	55*	12*
10 8	9 13.90	+38 28.5	3.246	3.011	17.9	19.1	68 W	62*	13*
10 18	9 28.09	+38 42.9	3.110	2.999	18.7	19.0	74 W	68*	15*
10 28	9 41.28	+39 6.6	2.969	2.986	19.2	18.9	81 W	75*	17*
11 7	9 53.28	+39 41.8	2.826	2.972	19.5	18.8	89 W	82*	18*

3343 Nedzel *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 17	10 3.82	+40 30.7	2.684	2.957	19.4	18.7	96 W	86	19*
11 27	10 12.57	+41 35.0	2.546	2.940	19.0	18.5	104 W	87	20*
12 2	10 16.16	+42 13.2	2.479	2.932	18.7	18.5	108 W	87	20*
12 7	10 19.16	+42 55.6	2.414	2.923	18.3	18.4	112 W	88	20*
12 12	10 21.50	+43 42.0	2.352	2.915	17.8	18.3	115 W	89	20*
12 17	10 23.10	+44 32.2	2.293	2.906	17.2	18.2	119 W	90	19*
12 22	10 23.90	+45 25.7	2.237	2.896	16.5	18.1	123 W	90	19
12 27	10 23.84	+46 21.9	2.185	2.887	15.8	18.1	127 W	89	18
1 1	10 22.85	+47 20.0	2.138	2.877	15.0	18.0	131 W	88	17
1 6	10 20.89	+48 19.0	2.095	2.867	14.3	17.9	134 W	87	16
1 11	10 17.90	+49 17.6	2.058	2.857	13.6	17.8	137 W	86	15
1 16	10 13.86	+50 14.3	2.025	2.846	13.0	17.8	139 W	85	14

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 6.80	−22 9.0	0.357	1.191	47.1	19.3	118 E	23	86
12 28	3 8.41	−21 32.5	0.383	1.194	48.6	19.5	114 E	23	86
1 2	3 11.23	−20 43.6	0.409	1.196	49.8	19.7	112 E	24	85
1 7	3 15.12	−19 45.4	0.434	1.197	50.9	19.9	109 E	25	84
1 12	3 19.94	−18 39.9	0.459	1.198	51.9	20.0	107 E	26	83
1 17	3 25.60	−17 28.9	0.484	1.198	52.7	20.2	104 E	28	81
1 22	3 32.01	−16 13.5	0.507	1.197	53.5	20.3	102 E	29	80
1 27	3 39.14	−14 54.6	0.530	1.196	54.2	20.4	100 E	30	79*
2 1	3 46.93	−13 33.4	0.552	1.194	54.8	20.5	98 E	31	77*
2 6	3 55.33	−12 10.5	0.573	1.192	55.4	20.6	96 E	33	75*
2 11	4 4.28	−10 46.7	0.593	1.188	55.9	20.7	94 E	34	73*
2 16	4 13.75	− 9 22.4	0.612	1.185	56.4	20.7	92 E	36	72*
2 21	4 23.74	− 7 58.0	0.630	1.180	56.9	20.8	91 E	37	70*
2 26	4 34.23	− 6 33.9	0.647	1.175	57.4	20.9	89 E	38	68*
3 2	4 45.20	− 5 10.6	0.662	1.169	57.9	20.9	88 E	40*	66*
3 7	4 56.64	− 3 48.4	0.676	1.163	58.4	21.0	86 E	41*	65*
3 12	5 8.53	− 2 27.7	0.689	1.156	58.9	21.0	85 E	42*	63*
3 17	5 20.85	− 1 8.7	0.701	1.149	59.4	21.1	83 E	42*	62*
3 22	5 33.62	+ 0 8.4	0.712	1.141	59.9	21.1	82 E	43*	60*
3 27	5 46.83	+ 1 23.3	0.721	1.132	60.4	21.1	81 E	43*	59*
4 1	6 0.48	+ 2 35.7	0.729	1.123	61.0	21.1	79 E	43*	58*
4 6	6 14.56	+ 3 45.3	0.735	1.114	61.5	21.2	78 E	43*	57*
4 11	6 29.04	+ 4 52.0	0.741	1.105	62.2	21.2	77 E	42*	56*
4 16	6 43.94	+ 5 55.5	0.745	1.095	62.8	21.2	76 E	42*	55*
4 21	6 59.24	+ 6 55.8	0.748	1.084	63.4	21.2	75 E	41*	54*
4 26	7 14.95	+ 7 52.6	0.750	1.074	64.1	21.2	74 E	40*	53*
5 1	7 31.05	+ 8 45.7	0.751	1.063	64.8	21.2	73 E	40*	52*
5 6	7 47.52	+ 9 35.1	0.751	1.052	65.6	21.2	72 E	39*	52*
5 11	8 4.34	+10 20.7	0.749	1.041	66.4	21.2	71 E	38*	51*
5 16	8 21.49	+11 2.4	0.747	1.031	67.2	21.2	70 E	37*	50*
5 21	8 38.96	+11 40.3	0.744	1.020	68.0	21.2	69 E	36*	50*
5 26	8 56.75	+12 14.3	0.740	1.009	68.8	21.2	68 E	35*	49*
5 31	9 14.81	+12 44.4	0.735	0.999	69.7	21.2	68 E	34*	48*
6 5	9 33.11	+13 10.7	0.729	0.989	70.6	21.2	67 E	34*	48*
6 10	9 51.63	+13 33.4	0.722	0.979	71.5	21.2	66 E	33*	48*
6 15	10 10.35	+13 52.6	0.714	0.970	72.4	21.1	66 E	33*	47*
6 20	10 29.24	+14 8.2	0.706	0.962	73.3	21.1	65 E	32*	47*
6 25	10 48.28	+14 20.6	0.697	0.954	74.2	21.1	65 E	32*	46*
6 30	11 7.45	+14 29.6	0.687	0.947	75.1	21.1	64 E	32*	46*
7 5	11 26.72	+14 35.6	0.676	0.941	76.0	21.1	64 E	33*	46*
7 10	11 46.05	+14 38.7	0.665	0.935	76.9	21.1	64 E	33*	45*
7 15	12 5.45	+14 38.6	0.653	0.931	77.7	21.0	63 E	34*	45*
7 20	12 24.92	+14 35.3	0.640	0.928	78.5	21.0	63 E	34*	45*
7 25	12 44.45	+14 28.7	0.627	0.925	79.2	21.0	64 E	35*	45*
7 30	13 4.05	+14 18.6	0.613	0.924	79.9	21.0	64 E	36*	45*
8 4	13 23.73	+14 4.9	0.599	0.924	80.5	20.9	64 E	37*	45*
8 9	13 43.49	+13 47.0	0.584	0.925	81.0	20.9	64 E	38*	45*
8 14	14 3.40	+13 24.5	0.569	0.928	81.4	20.9	65 E	39*	45*
8 19	14 23.50	+12 56.6	0.554	0.931	81.7	20.8	66 E	40*	45*
8 24	14 43.86	+12 22.8	0.539	0.935	81.9	20.8	66 E	41*	45*
8 29	15 4.53	+11 42.6	0.523	0.941	81.9	20.7	67 E	42*	46*
9 3	15 25.58	+10 55.3	0.509	0.947	81.8	20.7	68 E	43*	46*
9 8	15 47.07	+10 0.2	0.494	0.954	81.5	20.6	69 E	44*	47*
9 13	16 9.11	+ 8 56.7	0.480	0.962	81.1	20.6	71 E	45*	48*
9 18	16 31.77	+ 7 44.4	0.468	0.970	80.5	20.5	72 E	45*	49*
9 28	17 19.16	+ 4 54.6	0.446	0.989	78.7	20.4	75 E	46*	52*
10 8	18 9.29	+ 1 37.5	0.433	1.009	76.3	20.3	79 E	45*	56*
10 18	19 1.59	− 1 51.3	0.430	1.031	73.3	20.2	82 E	43*	60*
10 23	19 28.18	− 3 32.5	0.434	1.041	71.8	20.2	84 E	41*	62*
10 28	19 54.76	− 5 7.1	0.440	1.052	70.2	20.2	85 E	40	63*
11 2	20 21.08	− 6 32.2	0.450	1.063	68.7	20.2	86 E	38	65*
11 7	20 46.90	− 7 45.8	0.463	1.074	67.2	20.2	87 E	37	66*
11 12	21 12.05	− 8 46.3	0.479	1.084	65.8	20.3	88 E	36	67*
11 17	21 36.38	− 9 33.1	0.497	1.095	64.6	20.4	88 E	35	68*
11 22	21 59.80	−10 6.0	0.518	1.105	63.4	20.4	89 E	35	68*
11 27	22 22.23	−10 25.8	0.541	1.114	62.3	20.5	89 E	35	69*

489486 2007 GS_3 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 2	22 43.66	−10 33.5	0.566	1.123	61.3	20.6	88 E	34	68*
12 7	23 4.11	−10 30.3	0.593	1.132	60.4	20.7	88 E	34	68*
12 12	23 23.65	−10 17.4	0.621	1.141	59.6	20.8	87 E	35	67*
12 17	23 42.36	− 9 56.0	0.650	1.149	58.8	20.9	87 E	35	66*
12 22	0 0.32	− 9 27.1	0.679	1.156	58.1	21.0	86 E	36	65*
12 27	0 17.60	− 8 51.9	0.709	1.163	57.4	21.1	85 E	36	64*
1 1	0 34.27	− 8 11.5	0.740	1.169	56.8	21.1	84 E	37	62*
1 6	0 50.41	− 7 26.7	0.770	1.175	56.2	21.2	83 E	38	61*
1 11	1 6.12	− 6 38.2	0.801	1.180	55.6	21.3	82 E	38	60*
1 16	1 21.47	− 5 46.6	0.831	1.185	55.1	21.4	81 E	39	58*

442586 2012 BX_{150}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 9.01	+20 2.2	0.796	1.672	22.4	18.6	140 E	65	44
1 2	3 7.99	+22 24.5	0.844	1.656	27.1	18.8	130 E	67	42
1 12	3 12.15	+24 44.2	0.904	1.644	30.8	19.1	121 E	70	39
1 22	3 21.19	+26 58.7	0.972	1.636	33.5	19.3	113 E	72	37*
2 1	3 34.69	+29 5.6	1.047	1.631	35.3	19.5	107 E	74	35*
2 11	3 52.13	+31 1.9	1.126	1.631	36.4	19.7	101 E	76	32*
2 16	4 2.14	+31 55.0	1.167	1.633	36.8	19.8	98 E	77	31*
2 21	4 12.94	+32 44.3	1.209	1.635	37.0	19.9	96 E	78	30*
2 26	4 24.45	+33 29.2	1.252	1.638	37.1	20.0	93 E	78*	29*
3 2	4 36.63	+34 9.5	1.295	1.643	37.1	20.0	91 E	78*	28*
3 7	4 49.39	+34 44.7	1.340	1.648	37.0	20.1	89 E	78*	28*
3 12	5 2.66	+35 14.5	1.385	1.655	36.8	20.2	87 E	77*	27*
3 17	5 16.37	+35 38.5	1.430	1.662	36.6	20.3	84 E	75*	27*
3 22	5 30.46	+35 56.5	1.476	1.670	36.3	20.3	83 E	74*	26*
3 27	5 44.85	+36 8.4	1.523	1.679	35.9	20.4	81 E	72*	26*
4 1	5 59.48	+36 14.1	1.571	1.689	35.5	20.5	79 E	70*	26*
4 6	6 14.27	+36 13.4	1.619	1.700	35.0	20.5	77 E	68*	26*
4 11	6 29.14	+36 6.4	1.668	1.711	34.5	20.6	75 E	66*	26*
4 16	6 44.03	+35 53.2	1.718	1.724	33.9	20.7	73 E	64*	26*
4 21	6 58.89	+35 34.0	1.768	1.737	33.3	20.7	72 E	62*	27*
4 26	7 13.66	+35 8.9	1.819	1.750	32.7	20.8	70 E	59*	27*
5 1	7 28.30	+34 38.2	1.870	1.765	32.0	20.9	68 E	57*	28*
5 6	7 42.75	+34 2.2	1.922	1.780	31.3	20.9	67 E	55*	28*
5 11	7 56.99	+33 21.3	1.974	1.795	30.6	21.0	65 E	52*	29*
5 16	8 10.98	+32 35.8	2.027	1.811	29.9	21.0	63 E	50*	29*
5 21	8 24.72	+31 46.1	2.081	1.828	29.1	21.1	61 E	47*	30*
5 26	8 38.18	+30 52.5	2.135	1.845	28.3	21.1	60 E	44*	30*
5 31	8 51.36	+29 55.5	2.189	1.863	27.5	21.2	58 E	42*	31*
6 5	9 4.24	+28 55.4	2.243	1.881	26.7	21.2	56 E	39*	31*
6 10	9 16.84	+27 52.5	2.297	1.899	25.8	21.3	55 E	37*	31*
6 15	9 29.14	+26 47.3	2.352	1.918	25.0	21.3	53 E	34*	31*
6 20	9 41.18	+25 40.0	2.407	1.937	24.1	21.4	51 E	32*	31*
6 25	9 52.94	+24 30.9	2.461	1.956	23.2	21.4	49 E	29*	31*
6 30	10 4.44	+23 20.4	2.516	1.976	22.3	21.5	47 E	27*	31*
7 5	10 15.69	+22 8.8	2.570	1.996	21.4	21.5	46 E	25*	31*

482888 2014 FH_{38}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 9.10	+22 26.0	0.720	1.605	23.1	20.3	140 E	67	42
1 2	3 9.55	+22 41.6	0.757	1.582	28.3	20.5	130 E	68	41
1 12	3 15.36	+23 10.6	0.804	1.562	32.5	20.8	122 E	68	41
1 22	3 26.09	+23 50.9	0.857	1.545	35.6	21.0	114 E	69	40
2 1	3 41.20	+24 38.7	0.915	1.531	37.9	21.2	107 E	70	39*
2 11	4 0.07	+25 28.9	0.977	1.521	39.4	21.3	102 E	70	38*
2 21	4 22.08	+26 15.8	1.041	1.515	40.4	21.5	97 E	71	37*

463293 2012 HO_{40}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 10.19	+25 28.2	1.852	2.688	13.3	20.4	141 E	70	39
12 28	3 7.51	+24 27.7	1.879	2.668	15.1	20.4	135 E	69	40
1 2	3 5.61	+23 30.4	1.911	2.647	16.6	20.5	130 E	69	40
1 7	3 4.51	+22 37.0	1.947	2.627	18.1	20.6	124 E	68	41
1 12	3 4.19	+21 47.9	1.987	2.606	19.3	20.6	119 E	67	42
1 17	3 4.63	+21 3.3	2.029	2.585	20.4	20.7	114 E	66	43*
1 22	3 5.80	+20 23.3	2.075	2.563	21.3	20.8	109 E	65	43*
1 27	3 7.66	+19 47.8	2.121	2.542	22.1	20.8	104 E	65	43*
2 1	3 10.20	+19 16.8	2.170	2.521	22.7	20.9	99 E	64	43*
2 6	3 13.35	+18 49.8	2.218	2.499	23.2	20.9	95 E	64	43*
2 11	3 17.08	+18 26.6	2.267	2.477	23.5	21.0	90 E	63	42*
2 16	3 21.35	+18 6.7	2.315	2.456	23.7	21.0	86 E	63*	41*
2 21	3 26.13	+17 49.9	2.363	2.434	23.7	21.0	82 E	62*	40*
2 26	3 31.39	+17 35.8	2.409	2.412	23.7	21.0	78 E	60*	39*
3 2	3 37.10	+17 23.9	2.455	2.389	23.6	21.1	75 E	58*	38*
3 7	3 43.22	+17 13.8	2.498	2.367	23.3	21.1	71 E	55*	37*
3 12	3 49.74	+17 5.2	2.540	2.345	23.0	21.1	67 E	52*	36*
3 17	3 56.62	+16 57.7	2.579	2.323	22.7	21.1	64 E	50*	35*
3 22	4 3.85	+16 50.9	2.616	2.300	22.2	21.1	61 E	47*	34*
3 27	4 11.41	+16 44.6	2.651	2.278	21.7	21.1	58 E	44*	33*
4 1	4 19.28	+16 38.4	2.683	2.255	21.2	21.0	55 E	40*	32*
4 6	4 27.45	+16 31.9	2.713	2.233	20.6	21.0	52 E	37*	31*
4 11	4 35.89	+16 24.9	2.739	2.210	19.9	21.0	49 E	34*	30*

463293 2012 HO_{40} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 16	4 44.60	+16 17.1	2.764	2.188	19.2	21.0	46 E	31*	29*
4 21	4 53.56	+16 8.3	2.785	2.166	18.5	21.0	43 E	28*	28*
4 26	5 2.77	+15 58.1	2.804	2.143	17.8	20.9	41 E	25*	27*
5 1	5 12.22	+15 46.3	2.819	2.121	17.1	20.9	38 E	21*	26*
5 6	5 21.88	+15 32.8	2.832	2.099	16.3	20.8	36 E	18*	25*
5 11	5 31.74	+15 17.1	2.843	2.077	15.6	20.8	33 E	15*	24*
5 16	5 41.82	+14 59.3	2.851	2.055	14.8	20.8	31 E	12*	23*
5 21	5 52.08	+14 39.0	2.856	2.033	14.0	20.7	29 E	9*	21*
5 26	6 2.53	+14 16.0	2.859	2.011	13.3	20.7	27 E	6*	20*
5 31	6 13.16	+13 50.3	2.859	1.990	12.6	20.6	25 E	4*	19*
6 5	6 23.95	+13 21.6	2.857	1.969	11.9	20.6	23 E	1*	17*
6 10	6 34.90	+12 49.7	2.853	1.948	11.2	20.5	22 E	—	16*
6 15	6 46.00	+12 14.7	2.847	1.927	10.5	20.5	20 E	—	14*
6 20	6 57.25	+11 36.2	2.840	1.907	10.0	20.4	19 E	—	13*
6 30	7 20.17	+10 8.9	2.819	1.868	9.0	20.3	17 E	—	9*
7 10	7 43.59	+ 8 27.2	2.792	1.830	8.3	20.2	15 E	—	6*
7 20	8 7.49	+ 6 31.0	2.761	1.794	8.1	20.1	14 E	—	2*
7 30	8 31.84	+ 4 20.4	2.727	1.761	8.2	20.1	14 W	—	1*
8 9	8 56.62	+ 1 56.1	2.691	1.730	8.6	20.0	15 W	—	4*
8 19	9 21.86	− 0 40.6	2.654	1.702	9.2	20.0	16 W	—	7*
8 29	9 47.55	− 3 28.1	2.619	1.677	10.0	20.0	17 W	—	9*
9 8	10 13.72	− 6 24.0	2.585	1.656	10.8	19.9	18 W	—	11*
9 18	10 40.41	− 9 25.5	2.554	1.638	11.6	19.9	19 W	—	13*
9 28	11 7.66	−12 29.4	2.526	1.625	12.4	19.9	20 W	—	14*
10 8	11 35.49	−15 31.9	2.501	1.616	13.2	19.9	22 W	1*	16*
10 18	12 3.94	−18 29.1	2.480	1.611	14.0	19.9	23 W	2*	17*
10 28	12 32.99	−21 17.0	2.461	1.611	14.8	19.9	25 W	4*	18*
11 7	13 2.61	−23 51.6	2.445	1.615	15.7	19.9	26 W	5*	20*
11 17	13 32.72	−26 9.5	2.430	1.623	16.6	20.0	28 W	6*	21*
11 27	14 3.16	−28 7.7	2.415	1.636	17.5	20.0	30 W	6*	23*
12 7	14 33.74	−29 43.7	2.398	1.653	18.6	20.0	32 W	7*	26*
12 17	15 4.20	−30 56.0	2.380	1.673	19.8	20.1	35 W	7*	28*
12 27	15 34.24	−31 43.9	2.358	1.698	21.0	20.1	38 W	8*	32*
1 6	16 3.52	−32 7.5	2.331	1.725	22.3	20.2	42 W	8*	35*
1 16	16 31.75	−32 7.6	2.298	1.756	23.6	20.2	46 W	9*	39*

103358 2000 AE_{93}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 10.71	+13 1.5	1.223	2.062	18.6	18.8	138 E	58	51
1 2	3 10.06	+14 7.1	1.342	2.097	21.6	19.1	128 E	59	50
1 12	3 12.82	+15 17.3	1.475	2.132	23.8	19.4	119 E	60	49
1 22	3 18.53	+16 29.9	1.617	2.167	25.2	19.7	110 E	62	47*
2 1	3 26.75	+17 43.2	1.767	2.202	25.9	19.9	102 E	63	46*
2 11	3 37.07	+18 55.5	1.922	2.236	26.1	20.2	95 E	64	43*
2 21	3 49.11	+20 5.2	2.078	2.270	25.8	20.3	88 E	65*	41*
3 2	4 2.60	+21 11.1	2.236	2.303	25.2	20.5	81 E	64*	38*
3 12	4 17.27	+22 11.9	2.391	2.335	24.2	20.7	75 E	60*	35*
3 22	4 32.90	+23 6.8	2.543	2.367	23.1	20.8	68 E	56*	33*
4 1	4 49.33	+23 54.8	2.691	2.399	21.7	20.9	62 E	51*	31*
4 11	5 6.40	+24 35.5	2.833	2.429	20.1	21.0	57 E	45*	29*
4 21	5 23.96	+25 8.2	2.968	2.459	18.5	21.1	51 E	39*	27*
5 1	5 41.90	+25 32.7	3.094	2.488	16.7	21.1	45 E	33*	24*
5 11	6 0.10	+25 48.7	3.211	2.516	14.8	21.2	40 E	27*	22*
5 21	6 18.45	+25 56.3	3.317	2.543	12.9	21.2	34 E	21*	19*
5 31	6 36.86	+25 55.5	3.413	2.570	10.9	21.2	29 E	16*	16*
6 10	6 55.25	+25 46.6	3.497	2.596	8.9	21.2	23 E	11*	12*
6 20	7 13.53	+25 29.9	3.568	2.620	6.9	21.2	18 E	7*	8*
6 30	7 31.64	+25 5.8	3.626	2.644	4.9	21.1	13 E	3*	4*
7 10	7 49.52	+24 34.9	3.671	2.667	2.9	21.1	8 E	—	—
7 20	8 7.11	+23 58.0	3.702	2.689	1.5	21.0	4 E	—	—
7 30	8 24.37	+23 15.5	3.718	2.710	2.1	21.1	6 W	—	—
8 9	8 41.24	+22 28.5	3.720	2.730	3.9	21.2	11 W	4*	—
8 19	8 57.71	+21 37.7	3.707	2.749	5.8	21.3	16 W	10*	2*
8 29	9 13.72	+20 44.0	3.680	2.767	7.8	21.4	22 W	15*	5*
9 8	9 29.25	+19 48.5	3.638	2.784	9.6	21.5	28 W	21*	8*

137176 1999 JZ_{11}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 12.29	+11 31.4	1.272	2.108	18.2	19.2	138 E	57	52
1 2	3 11.59	+12 8.6	1.390	2.139	21.3	19.5	128 E	57	52
1 12	3 14.18	+12 56.4	1.520	2.170	23.4	19.8	119 E	58	51
1 22	3 19.63	+13 51.6	1.661	2.201	24.9	20.1	110 E	59	50*
2 1	3 27.54	+14 51.5	1.808	2.231	25.6	20.3	102 E	60	48*
2 11	3 37.51	+15 53.4	1.959	2.260	25.8	20.5	94 E	61	46*
2 21	3 49.18	+16 55.2	2.112	2.289	25.6	20.7	87 E	62*	43*
3 2	4 2.26	+17 54.9	2.265	2.318	24.9	20.9	81 E	61*	41*
3 12	4 16.52	+18 51.0	2.416	2.345	24.0	21.0	74 E	57*	38*
3 22	4 31.74	+19 42.3	2.563	2.372	22.9	21.1	68 E	53*	36*
4 1	4 47.76	+20 27.6	2.706	2.399	21.5	21.2	62 E	48*	34*
4 11	5 4.42	+21 6.1	2.842	2.424	20.0	21.3	56 E	42*	31*
4 21	5 21.57	+21 37.1	2.970	2.449	18.3	21.4	50 E	36*	29*
5 1	5 39.13	+22 0.1	3.090	2.473	16.6	21.4	44 E	30*	26*
5 11	5 56.95	+22 14.9	3.201	2.496	14.7	21.4	39 E	24*	24*

137176 1999 JZ_{11} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 21	6 14.95	+22 21.3	3.301	2.518	12.8	21.5	33 E	18*	21*
5 31	6 33.05	+22 19.2	3.390	2.539	10.8	21.5	28 E	13*	18*
6 10	6 51.14	+22 8.8	3.467	2.559	8.7	21.4	23 E	8*	14*
6 20	7 9.17	+21 50.3	3.532	2.578	6.7	21.4	17 E	3*	10*
6 30	7 27.05	+21 24.0	3.583	2.597	4.6	21.3	12 E	—	5*
7 10	7 44.74	+20 50.5	3.622	2.614	2.5	21.3	6 E	—	—
7 20	8 2.18	+20 10.2	3.647	2.631	0.4	21.1	1 E	—	—
7 30	8 19.32	+19 23.8	3.657	2.646	1.7	21.2	4 W	—	—
8 9	8 36.12	+18 31.9	3.653	2.661	3.8	21.4	10 W	2*	1*

62268 2000 SQ_{90}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 13.08	+16 19.7	1.646	2.479	14.9	19.0	140 E	61	48
1 2	3 11.32	+15 47.4	1.777	2.514	17.7	19.3	129 E	61	48
1 12	3 12.47	+15 31.4	1.923	2.549	19.7	19.5	119 E	61	48
1 22	3 16.19	+15 29.6	2.080	2.583	21.0	19.8	110 E	60	48*
2 1	3 22.15	+15 39.1	2.244	2.616	21.7	20.0	101 E	61	47*
2 11	3 30.00	+15 57.1	2.412	2.649	21.8	20.2	93 E	61	45*
2 21	3 39.42	+16 20.8	2.581	2.680	21.6	20.3	85 E	61*	43*
3 2	3 50.16	+16 48.0	2.748	2.711	20.9	20.5	77 E	58*	40*
3 12	4 1.99	+17 16.6	2.911	2.741	20.0	20.6	70 E	54*	38*
3 22	4 14.70	+17 44.7	3.068	2.770	18.8	20.7	63 E	49*	35*
4 1	4 28.15	+18 11.2	3.217	2.798	17.4	20.8	57 E	43*	32*
4 11	4 42.19	+18 34.5	3.357	2.825	15.9	20.8	50 E	37*	30*
4 21	4 56.69	+18 54.0	3.487	2.852	14.2	20.9	44 E	30*	27*
5 1	5 11.56	+19 8.7	3.605	2.877	12.4	20.9	38 E	24*	24*
5 11	5 26.67	+19 18.0	3.710	2.901	10.6	20.9	32 E	17*	20*
5 21	5 41.96	+19 21.6	3.802	2.925	8.7	20.9	26 E	11*	17*
5 31	5 57.34	+19 19.1	3.880	2.948	6.8	20.9	20 E	5*	13*
6 10	6 12.72	+19 10.3	3.943	2.970	4.9	20.9	14 E	—	8*
6 20	6 28.03	+18 55.3	3.990	2.990	3.0	20.8	9 E	—	3*
6 30	6 43.21	+18 34.0	4.022	3.010	1.6	20.7	5 E	—	—
7 10	6 58.17	+18 6.6	4.038	3.029	2.1	20.8	6 W	—	—
7 20	7 12.86	+17 33.4	4.038	3.047	3.7	20.9	11 W	—	5*
7 30	7 27.22	+16 54.7	4.022	3.064	5.5	21.0	17 W	4*	10*
8 9	7 41.16	+16 10.9	3.989	3.080	7.3	21.1	23 W	10*	14*
8 19	7 54.64	+15 22.4	3.942	3.095	9.1	21.1	29 W	16*	18*
8 29	8 7.56	+14 29.8	3.878	3.109	10.8	21.2	35 W	22*	22*
9 8	8 19.85	+13 33.9	3.801	3.123	12.4	21.2	42 W	29*	26*
9 18	8 31.43	+12 35.2	3.709	3.135	13.9	21.2	49 W	35*	29*
9 28	8 42.17	+11 34.6	3.604	3.146	15.2	21.2	55 W	41*	33*
10 8	8 51.97	+10 33.0	3.489	3.157	16.3	21.2	63 W	46*	37*
10 18	9 0.70	+ 9 31.5	3.363	3.166	17.2	21.1	70 W	50*	42*
10 28	9 8.17	+ 8 31.3	3.229	3.174	17.8	21.1	78 W	53*	46*
11 7	9 14.22	+ 7 33.7	3.091	3.182	18.1	21.0	86 W	53	50*
11 17	9 18.64	+ 6 40.3	2.950	3.188	18.0	20.9	95 W	52	55*
11 27	9 21.21	+ 5 52.8	2.810	3.194	17.4	20.8	104 W	51	58*
12 7	9 21.74	+ 5 13.2	2.675	3.199	16.4	20.6	114 W	50	59
12 17	9 20.07	+ 4 43.4	2.550	3.202	14.8	20.5	124 W	50	59
12 27	9 16.12	+ 4 25.4	2.440	3.205	12.7	20.3	134 W	49	60
1 6	9 10.04	+ 4 20.6	2.349	3.207	10.1	20.1	145 W	49	60
1 16	9 2.12	+ 4 29.5	2.283	3.207	7.1	19.9	156 W	49	60

22771 1999 CU_3

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 13.20	+38 35.5	1.190	2.050	17.5	19.7	141 E	84	25
12 28	3 9.65	+37 33.8	1.248	2.073	19.2	19.8	136 E	83	26
1 2	3 7.55	+36 36.7	1.311	2.094	20.7	20.0	131 E	82	27
1 7	3 6.75	+35 44.8	1.378	2.115	22.0	20.2	126 E	81	28
1 12	3 7.11	+34 58.6	1.448	2.135	23.1	20.3	122 E	80	29
1 17	3 8.48	+34 18.0	1.521	2.154	24.0	20.5	117 E	79	30
1 22	3 10.77	+33 42.9	1.596	2.172	24.7	20.6	112 E	79	30*
1 27	3 13.85	+33 12.9	1.673	2.190	25.3	20.8	108 E	78	30*
2 1	3 17.64	+32 47.8	1.752	2.207	25.7	20.9	104 E	78	30*
2 6	3 22.06	+32 26.9	1.831	2.223	25.9	21.0	100 E	77	30*
2 11	3 27.02	+32 9.8	1.911	2.239	26.0	21.1	96 E	77	30*
2 16	3 32.47	+31 56.1	1.991	2.253	26.0	21.2	92 E	77*	29*
2 21	3 38.34	+31 45.2	2.071	2.267	25.8	21.3	88 E	76*	29*
2 26	3 44.61	+31 36.8	2.150	2.281	25.6	21.4	85 E	74*	28*

114507 2003 AX_{80}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 13.33	−14 27.7	1.019	1.768	27.5	18.5	124 E	31	78
12 28	3 13.30	−14 21.8	1.045	1.757	29.0	18.6	120 E	31	78
1 2	3 14.22	−14 5.3	1.073	1.746	30.4	18.7	116 E	31	78
1 7	3 16.09	−13 39.6	1.103	1.736	31.5	18.8	113 E	31	78
1 12	3 18.87	−13 6.0	1.133	1.726	32.6	18.8	109 E	32	77
1 17	3 22.52	−12 25.6	1.164	1.717	33.4	18.9	106 E	33	76
1 22	3 27.01	−11 39.5	1.196	1.709	34.2	19.0	103 E	33	76
1 27	3 32.29	−10 48.6	1.228	1.701	34.8	19.0	100 E	34	75*
2 1	3 38.31	− 9 53.8	1.260	1.694	35.2	19.1	97 E	35	73*
2 6	3 45.04	− 8 56.2	1.292	1.687	35.6	19.2	95 E	36	71*
2 11	3 52.41	− 7 56.3	1.325	1.681	35.9	19.2	92 E	37	70*
2 16	4 0.39	− 6 54.8	1.357	1.676	36.1	19.3	90 E	38	68*
2 21	4 8.93	− 5 52.4	1.390	1.671	36.2	19.3	88 E	39	66*

114507 2003 AX_{80} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 26	4 18.01	− 4 49.5	1.422	1.668	36.3	19.4	85 E	40*	64*
3 2	4 27.59	− 3 46.9	1.455	1.665	36.3	19.4	83 E	41*	63*
3 12	4 48.09	− 1 44.4	1.521	1.660	36.1	19.5	80 E	41*	60*
3 22	5 10.17	+ 0 11.4	1.587	1.659	35.7	19.6	76 E	41*	57*
4 1	5 33.60	+ 1 57.2	1.656	1.661	35.1	19.6	73 E	39*	55*
4 11	5 58.13	+ 3 30.1	1.726	1.666	34.3	19.7	70 E	37*	53*
4 21	6 23.52	+ 4 47.9	1.798	1.674	33.4	19.8	66 E	34*	51*
5 1	6 49.53	+ 5 48.8	1.874	1.684	32.3	19.9	63 E	31*	50*
5 11	7 15.91	+ 6 31.9	1.952	1.697	31.2	19.9	60 E	27*	48*
5 21	7 42.44	+ 6 56.9	2.033	1.713	29.8	20.0	57 E	23*	47*
5 31	8 8.93	+ 7 4.2	2.116	1.731	28.4	20.1	54 E	19*	45*
6 10	8 35.18	+ 6 54.7	2.202	1.751	26.8	20.1	51 E	15*	43*
6 20	9 1.08	+ 6 29.9	2.289	1.773	25.1	20.2	48 E	12*	40*
6 30	9 26.53	+ 5 51.3	2.377	1.797	23.3	20.3	44 E	9*	38*
7 10	9 51.45	+ 5 0.9	2.465	1.823	21.4	20.3	41 E	6*	35*
7 20	10 15.83	+ 4 0.7	2.552	1.850	19.5	20.4	37 E	4*	31*
7 30	10 39.66	+ 2 52.5	2.637	1.878	17.5	20.4	34 E	3*	28*
8 9	11 2.95	+ 1 38.4	2.718	1.908	15.4	20.4	30 E	2*	24*
8 19	11 25.75	+ 0 20.1	2.796	1.938	13.2	20.4	26 E	1*	20*
8 29	11 48.11	− 1 0.7	2.869	1.969	11.0	20.4	22 E	—	16*
9 8	12 10.04	− 2 22.3	2.936	2.001	8.8	20.4	18 E	—	12*
9 18	12 31.63	− 3 43.3	2.996	2.033	6.6	20.4	13 E	—	7*
9 28	12 52.89	− 5 2.2	3.048	2.065	4.4	20.4	9 E	—	3*
10 8	13 13.87	− 6 17.6	3.091	2.097	2.3	20.3	5 E	—	—
10 18	13 34.59	− 7 28.3	3.125	2.130	1.0	20.3	2 E	—	—
10 28	13 55.06	− 8 33.1	3.148	2.162	2.7	20.4	6 W	—	—
11 7	14 15.28	− 9 30.9	3.161	2.195	4.8	20.6	11 W	5*	—
11 17	14 35.24	−10 20.6	3.162	2.227	6.9	20.8	16 W	9*	2*
11 27	14 54.89	−11 1.2	3.152	2.259	9.0	20.9	21 W	14*	6*
12 7	15 14.18	−11 32.0	3.130	2.290	11.1	21.0	26 W	18*	10*
12 17	15 33.05	−11 52.0	3.096	2.321	13.0	21.0	32 W	21*	16*
12 27	15 51.40	−12 0.8	3.050	2.352	14.9	21.1	38 W	24*	22*
1 6	16 9.14	−11 57.8	2.993	2.382	16.6	21.2	44 W	27*	28*
1 16	16 26.13	−11 42.6	2.926	2.411	18.2	21.2	50 W	29*	35*

237881 2002 LN_3

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 13.39	− 0 43.6	1.831	2.598	16.2	20.2	132 E	44	65
1 2	3 11.68	− 0 13.6	1.970	2.636	18.3	20.4	123 E	45	64
1 12	3 12.53	+ 0 30.8	2.121	2.673	19.7	20.7	114 E	46	63
1 22	3 15.70	+ 1 25.2	2.281	2.709	20.5	20.9	105 E	46	63*
2 1	3 20.92	+ 2 25.9	2.446	2.745	20.9	21.1	97 E	47	60*
2 11	3 27.89	+ 3 30.0	2.615	2.780	20.8	21.2	89 E	49	57*
2 21	3 36.35	+ 4 35.0	2.783	2.814	20.3	21.4	82 E	49*	53*

99297 2001 RU_{14}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 13.92	+ 9 45.3	2.281	3.079	12.4	20.1	138 E	55	54
1 2	3 9.53	+ 9 10.7	2.382	3.069	15.0	20.3	126 E	54	55
1 12	3 7.59	+ 8 51.3	2.499	3.057	16.8	20.4	116 E	54	55
1 22	3 8.03	+ 8 45.4	2.627	3.045	18.1	20.6	106 E	54	55*
2 1	3 10.69	+ 8 51.2	2.760	3.031	18.8	20.7	96 E	54	53*
2 11	3 15.35	+ 9 6.3	2.893	3.016	19.1	20.8	87 E	54	50*
2 21	3 21.78	+ 9 28.4	3.025	3.000	18.9	20.9	79 E	53*	47*
3 2	3 29.75	+ 9 55.2	3.150	2.983	18.3	20.9	71 E	50*	43*
3 12	3 39.07	+10 24.8	3.268	2.964	17.5	20.9	64 E	45*	40*
3 22	3 49.56	+10 55.4	3.375	2.945	16.4	21.0	57 E	40*	36*
4 1	4 1.08	+11 25.5	3.470	2.924	15.1	21.0	50 E	34*	33*
4 11	4 13.48	+11 53.7	3.552	2.903	13.7	21.0	43 E	27*	29*
4 21	4 26.65	+12 18.8	3.620	2.880	12.1	20.9	37 E	20*	26*
5 1	4 40.50	+12 39.7	3.673	2.856	10.4	20.9	31 E	14*	22*
5 11	4 54.93	+12 55.4	3.711	2.831	8.7	20.8	25 E	7*	18*
5 21	5 9.88	+13 5.1	3.734	2.805	7.1	20.7	20 E	1*	14*
5 31	5 25.26	+13 8.0	3.742	2.777	5.5	20.6	15 E	—	9*
6 10	5 41.00	+13 3.3	3.734	2.749	4.4	20.5	12 E	—	4*
6 20	5 57.04	+12 50.7	3.712	2.719	3.9	20.5	11 E	—	—
6 30	6 13.32	+12 29.4	3.675	2.689	4.5	20.5	12 W	—	4*
7 10	6 29.78	+11 59.0	3.624	2.657	5.8	20.5	15 W	—	9*
7 20	6 46.36	+11 19.3	3.559	2.624	7.5	20.5	20 W	—	14*
7 30	7 3.01	+10 29.8	3.482	2.590	9.3	20.5	24 W	3*	18*
8 9	7 19.66	+ 9 30.4	3.393	2.556	11.1	20.5	29 W	9*	22*
8 19	7 36.27	+ 8 20.9	3.294	2.520	13.0	20.5	34 W	14*	26*
8 29	7 52.79	+ 7 1.2	3.184	2.483	14.9	20.4	39 W	20*	29*
9 8	8 9.15	+ 5 31.2	3.065	2.445	16.7	20.4	44 W	25*	33*
9 18	8 25.33	+ 3 51.0	2.938	2.406	18.5	20.3	49 W	29*	36*
9 28	8 41.26	+ 2 0.6	2.804	2.366	20.2	20.2	54 W	33*	40*
10 8	8 56.88	+ 0 0.3	2.664	2.326	21.8	20.1	60 W	36*	43*
10 18	9 12.13	− 2 9.8	2.521	2.284	23.3	20.0	65 W	38*	47*
10 28	9 26.95	− 4 29.3	2.373	2.242	24.7	19.9	70 W	39*	52*
11 7	9 41.24	− 6 57.6	2.225	2.199	25.9	19.7	76 W	38*	57*
11 17	9 54.90	− 9 34.3	2.076	2.155	26.9	19.6	81 W	35	63*
11 27	10 7.79	−12 18.3	1.927	2.111	27.8	19.4	87 W	33	69*
12 7	10 19.76	−15 8.4	1.781	2.067	28.4	19.2	92 W	30	75*

99297 2001 RU_{14} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 17	10 30.58	−18 2.9	1.639	2.022	28.8	19.0	98 W	27	82*
12 27	10 39.98	−20 59.2	1.502	1.977	28.9	18.7	103 W	24	85
1 1	10 44.05	−22 27.0	1.435	1.954	28.9	18.6	106 W	23	86
1 6	10 47.64	−23 53.9	1.370	1.932	28.7	18.5	109 W	21	88
1 11	10 50.68	−25 19.1	1.308	1.909	28.5	18.3	112 W	20	89
1 16	10 53.13	−26 41.8	1.247	1.887	28.2	18.2	115 W	18	89

187776 1998 SH_{55}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 14.03	+26 11.2	1.386	2.244	15.7	20.0	142 E	71	38
1 2	3 12.33	+25 38.3	1.505	2.278	18.9	20.3	131 E	71	38
1 12	3 14.14	+25 17.3	1.638	2.312	21.2	20.6	122 E	70	39
1 22	3 18.98	+25 8.0	1.783	2.345	22.8	20.9	113 E	70	39*
2 1	3 26.41	+25 9.0	1.936	2.377	23.7	21.1	104 E	70	38*
2 11	3 35.98	+25 18.1	2.093	2.409	24.0	21.3	96 E	70	37*

112127 2002 JW_{47}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 14.66	+24 53.2	1.724	2.571	13.7	20.9	142 E	70	39
1 2	3 10.79	+24 25.5	1.839	2.591	16.7	21.2	131 E	69	40
1 12	3 10.17	+24 7.7	1.969	2.610	18.9	21.4	121 E	69	40
1 22	3 12.50	+24 0.5	2.111	2.628	20.5	21.6	111 E	69	40*
2 1	3 17.46	+24 3.3	2.260	2.646	21.4	21.8	102 E	69	39*

156032 2001 RP_{142}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 15.44	+15 33.1	0.828	1.703	21.8	18.0	140 E	61	48
1 2	3 18.90	+16 57.3	0.912	1.725	25.5	18.4	131 E	62	47
1 12	3 26.13	+18 23.7	1.008	1.749	28.2	18.7	123 E	63	46
1 22	3 36.59	+19 49.2	1.114	1.775	30.0	19.0	115 E	65	44
2 1	3 49.77	+21 11.3	1.229	1.803	31.2	19.3	109 E	66	43*
2 11	4 5.20	+22 27.7	1.350	1.833	31.7	19.5	102 E	67	41*
2 21	4 22.41	+23 36.2	1.477	1.864	31.8	19.8	96 E	69	39*
3 2	4 41.07	+24 35.4	1.608	1.896	31.5	20.0	91 E	69*	38*
3 12	5 0.85	+25 24.0	1.741	1.929	30.9	20.2	85 E	68*	36*
3 22	5 21.45	+26 0.8	1.877	1.963	30.0	20.3	80 E	65*	35*
4 1	5 42.65	+26 25.5	2.014	1.998	28.8	20.5	75 E	61*	34*
4 11	6 4.23	+26 37.6	2.151	2.033	27.5	20.6	70 E	56*	34*
4 21	6 26.00	+26 37.2	2.286	2.069	26.1	20.8	65 E	51*	33*
5 1	6 47.79	+26 24.4	2.420	2.104	24.5	20.9	60 E	45*	32*
5 11	7 9.47	+25 59.9	2.550	2.140	22.8	21.0	55 E	39*	31*
5 21	7 30.91	+25 24.2	2.676	2.176	21.0	21.1	50 E	34*	30*
5 31	7 52.04	+24 38.1	2.797	2.212	19.2	21.1	46 E	28*	29*
6 10	8 12.77	+23 42.6	2.912	2.247	17.2	21.2	41 E	23*	27*
6 20	8 33.07	+22 38.7	3.021	2.282	15.3	21.2	36 E	18*	24*
6 30	8 52.90	+21 27.3	3.122	2.317	13.3	21.3	32 E	14*	21*
7 10	9 12.25	+20 9.4	3.214	2.351	11.2	21.3	27 E	10*	18*
7 20	9 31.11	+18 46.1	3.297	2.385	9.2	21.3	22 E	7*	14*
7 30	9 49.50	+17 18.3	3.369	2.418	7.1	21.3	17 E	4*	10*
8 9	10 7.41	+15 47.1	3.431	2.450	5.1	21.2	12 E	2*	5*
8 19	10 24.88	+14 13.3	3.482	2.482	3.1	21.2	8 E	—	—
8 29	10 41.90	+12 37.8	3.519	2.514	1.7	21.2	4 E	—	—
9 8	10 58.50	+11 1.7	3.545	2.544	2.3	21.2	6 W	—	—
9 18	11 14.70	+ 9 25.7	3.556	2.574	4.0	21.4	10 W	4*	—
9 28	11 30.47	+ 7 50.8	3.554	2.603	5.9	21.5	16 W	9*	—

462736 2010 BL_2

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 15.58	−43 38.3	0.925	1.491	40.0	18.7	103 E	1	72
12 25	3 13.84	−41 8.1	0.947	1.516	39.1	18.7	103 E	4	75
12 27	3 12.47	−38 42.8	0.971	1.540	38.3	18.8	104 E	6	77
12 29	3 11.43	−36 22.5	0.997	1.564	37.5	18.9	104 E	9	80
12 31	3 10.67	−34 7.5	1.025	1.588	36.8	19.0	104 E	11	82
1 2	3 10.17	−31 57.6	1.054	1.611	36.2	19.0	105 E	13	84
1 7	3 9.83	−26 55.8	1.132	1.669	34.9	19.2	104 E	18	89
1 12	3 10.55	−22 25.1	1.217	1.725	33.8	19.4	103 E	23	86
1 17	3 12.09	−18 23.2	1.309	1.781	32.8	19.6	101 E	27	82
1 22	3 14.30	−14 46.8	1.406	1.835	32.0	19.8	99 E	30	79*
1 27	3 17.07	−11 33.2	1.508	1.888	31.2	20.0	96 E	33	74*
2 1	3 20.32	− 8 39.4	1.613	1.939	30.5	20.2	93 E	36	70*
2 6	3 23.96	− 6 3.0	1.722	1.990	29.7	20.4	90 E	39	67*
2 11	3 27.94	− 3 41.7	1.832	2.040	28.9	20.5	87 E	41	63*
2 16	3 32.21	− 1 33.6	1.944	2.088	28.1	20.7	84 E	43*	60*
2 21	3 36.74	+ 0 23.1	2.056	2.136	27.2	20.8	81 E	45*	56*
2 26	3 41.50	+ 2 9.7	2.169	2.182	26.3	21.0	78 E	46*	53*
3 2	3 46.46	+ 3 47.4	2.282	2.228	25.3	21.1	74 E	46*	51*
3 7	3 51.60	+ 5 17.2	2.395	2.273	24.4	21.2	71 E	46*	48*
3 12	3 56.90	+ 6 39.9	2.506	2.316	23.4	21.3	68 E	45*	45*
3 17	4 2.33	+ 7 56.4	2.616	2.359	22.3	21.4	64 E	43*	43*

215189 2000 NK_{10}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 16.06	+13 0.4	1.207	2.055	18.2	20.2	139 E	58	51
1 2	3 15.19	+13 35.7	1.323	2.088	21.4	20.5	129 E	59	50
1 12	3 17.75	+14 21.2	1.451	2.120	23.7	20.9	120 E	59	50
1 22	3 23.28	+15 13.9	1.590	2.151	25.2	21.1	111 E	60	49*
2 1	3 31.35	+16 11.2	1.736	2.182	26.1	21.4	103 E	61	47*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		437927 2002 PC_{117}							
	h m	° ′			°	m	°	°	°
12 23	3 16.15	+27 30.0	1.148	2.018	17.3	20.3	142 E	73	36
1 2	3 16.38	+26 33.3	1.254	2.051	20.7	20.7	132 E	72	37
1 12	3 20.27	+25 52.6	1.376	2.083	23.3	21.0	123 E	71	38
1 22	3 27.24	+25 27.0	1.508	2.115	25.0	21.3	115 E	70	39
2 1	3 36.79	+25 14.3	1.649	2.147	26.1	21.5	106 E	70	38*
		439994 2002 AK_2							
12 23	3 16.98	−30 54.7	0.882	1.554	35.7	19.2	113 E	14	85
12 28	3 17.55	−29 24.3	0.887	1.540	36.7	19.3	111 E	16	87
1 2	3 19.19	−27 40.8	0.893	1.526	37.6	19.3	109 E	17	88
1 7	3 21.92	−25 45.7	0.901	1.514	38.4	19.3	107 E	19	90
1 12	3 25.69	−23 40.4	0.909	1.503	39.2	19.3	105 E	21	88
1 17	3 30.46	−21 26.5	0.918	1.492	39.9	19.4	103 E	24	85
1 22	3 36.19	−19 5.1	0.928	1.483	40.5	19.4	102 E	26	83
1 27	3 42.84	−16 37.6	0.940	1.475	41.1	19.4	100 E	28	81
2 1	3 50.36	−14 5.5	0.953	1.469	41.6	19.5	99 E	31	78*
2 6	3 58.70	−11 30.3	0.967	1.463	42.0	19.5	97 E	33	75*
2 11	4 7.81	− 8 53.4	0.984	1.459	42.3	19.5	96 E	36	72*
2 16	4 17.63	− 6 16.2	1.002	1.457	42.6	19.6	94 E	39	69*
2 21	4 28.13	− 3 40.0	1.022	1.455	42.7	19.6	93 E	41	66*
2 26	4 39.27	− 1 6.4	1.044	1.455	42.9	19.7	91 E	44	63*
3 2	4 51.00	+ 1 23.2	1.068	1.456	42.9	19.7	90 E	46*	61*
3 7	5 3.28	+ 3 47.7	1.095	1.459	42.9	19.8	89 E	49*	58*
3 12	5 16.05	+ 6 5.7	1.124	1.462	42.7	19.8	87 E	50*	56*
3 17	5 29.28	+ 8 16.4	1.156	1.468	42.5	19.9	86 E	52*	54*
3 22	5 42.91	+10 18.7	1.190	1.474	42.3	20.0	84 E	53*	52*
4 1	6 11.23	+13 55.8	1.265	1.490	41.5	20.1	81 E	54*	48*
4 11	6 40.56	+16 52.9	1.348	1.511	40.5	20.2	79 E	54*	46*
4 21	7 10.47	+19 9.1	1.439	1.537	39.3	20.4	76 E	53*	43*
4 26	7 25.51	+20 2.1	1.488	1.551	38.6	20.5	74 E	52*	42*
5 1	7 40.55	+20 45.3	1.537	1.566	37.9	20.5	73 E	50*	42*
5 6	7 55.53	+21 19.1	1.589	1.582	37.1	20.6	71 E	49*	41*
5 11	8 10.40	+21 44.0	1.641	1.599	36.3	20.7	70 E	47*	41*
5 16	8 25.13	+22 0.4	1.694	1.616	35.5	20.7	68 E	46*	40*
5 21	8 39.70	+22 9.0	1.749	1.634	34.6	20.8	66 E	44*	40*
5 26	8 54.07	+22 10.1	1.804	1.653	33.7	20.9	65 E	42*	39*
5 31	9 8.22	+22 4.5	1.860	1.672	32.8	20.9	63 E	40*	39*
6 5	9 22.14	+21 52.6	1.917	1.692	31.9	21.0	62 E	38*	39*
6 10	9 35.81	+21 35.1	1.974	1.712	30.9	21.1	60 E	36*	39*
6 15	9 49.22	+21 12.4	2.031	1.733	30.0	21.1	59 E	34*	38*
6 20	10 2.38	+20 45.1	2.089	1.754	29.0	21.2	57 E	32*	38*
6 25	10 15.30	+20 13.6	2.146	1.776	28.1	21.2	55 E	31*	38*
6 30	10 27.96	+19 38.5	2.204	1.798	27.1	21.3	54 E	29*	37*
7 5	10 40.37	+19 0.2	2.261	1.820	26.1	21.4	52 E	28*	37*
7 10	10 52.55	+18 19.0	2.318	1.842	25.1	21.4	50 E	26*	36*
7 15	11 4.49	+17 35.4	2.374	1.865	24.1	21.5	49 E	25*	35*
		359003 2008 UY_4							
12 23	3 17.51	−10 41.6	0.829	1.625	28.8	18.5	127 E	34	75
12 28	3 18.20	−11 21.9	0.854	1.614	30.8	18.6	123 E	34	75
1 2	3 19.90	−11 48.0	0.881	1.603	32.6	18.7	119 E	33	76
1 7	3 22.61	−12 1.3	0.909	1.594	34.1	18.8	115 E	33	76
1 12	3 26.29	−12 3.5	0.937	1.585	35.3	18.9	111 E	33	76
1 17	3 30.88	−11 55.8	0.967	1.577	36.4	19.0	108 E	33	76
1 22	3 36.33	−11 39.7	0.997	1.571	37.3	19.1	105 E	33	76
1 27	3 42.61	−11 16.4	1.027	1.565	38.0	19.2	102 E	34	75
2 1	3 49.66	−10 46.9	1.058	1.560	38.5	19.2	100 E	34	75*
2 6	3 57.43	−10 12.4	1.088	1.557	38.9	19.3	97 E	35	74*
2 11	4 5.86	− 9 33.9	1.119	1.554	39.2	19.4	95 E	35	72*
2 16	4 14.90	− 8 52.1	1.149	1.552	39.5	19.4	93 E	36	71*
2 21	4 24.51	− 8 7.8	1.180	1.552	39.6	19.5	91 E	37	70*
2 26	4 34.66	− 7 21.8	1.210	1.552	39.6	19.5	89 E	38	69*
3 2	4 45.30	− 6 34.7	1.241	1.554	39.6	19.6	88 E	38*	67*
3 7	4 56.40	− 5 47.3	1.272	1.557	39.5	19.7	86 E	39*	66*
3 12	5 7.90	− 5 0.1	1.304	1.561	39.3	19.7	84 E	39*	65*
3 17	5 19.78	− 4 13.7	1.336	1.565	39.1	19.8	83 E	39*	64*
3 22	5 31.99	− 3 28.5	1.368	1.571	38.9	19.8	82 E	39*	63*
4 1	5 57.31	− 2 4.1	1.436	1.586	38.2	19.9	79 E	38*	62*
4 11	6 23.54	− 0 50.4	1.508	1.604	37.4	20.0	76 E	37*	60*
4 21	6 50.37	+ 0 9.9	1.585	1.626	36.4	20.1	74 E	34*	59*
5 1	7 17.55	+ 0 55.0	1.668	1.651	35.3	20.3	71 E	31*	58*
5 11	7 44.79	+ 1 23.7	1.755	1.679	34.1	20.4	69 E	28*	57*
5 21	8 11.84	+ 1 35.9	1.849	1.709	32.8	20.5	66 E	24*	55*
5 31	8 38.53	+ 1 32.3	1.947	1.742	31.3	20.6	63 E	20*	54*
6 10	9 4.69	+ 1 13.8	2.050	1.777	29.7	20.7	60 E	16*	52*
6 20	9 30.23	+ 0 42.2	2.157	1.814	28.0	20.8	57 E	13*	50*
6 30	9 55.09	− 0 0.9	2.267	1.851	26.2	20.9	53 E	10*	47*
7 10	10 19.26	− 0 53.5	2.378	1.890	24.3	21.0	50 E	7*	44*
7 20	10 42.74	− 1 53.8	2.489	1.930	22.3	21.1	46 E	5*	40*
7 30	11 5.57	− 3 0.0	2.600	1.971	20.3	21.2	42 E	3*	36*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		359003 2008 UY_4 *(continuation)*							
	h m	° ′			°	m	°	°	°
8 9	11 27.79	− 4 10.4	2.708	2.012	18.2	21.2	38 E	2*	32*
8 19	11 49.47	− 5 23.4	2.812	2.053	16.0	21.3	34 E	1*	28*
8 29	12 10.67	− 6 37.6	2.912	2.094	13.8	21.3	30 E	—	23*
9 8	12 31.43	− 7 51.6	3.005	2.136	11.5	21.3	25 E	—	19*
9 18	12 51.80	− 9 4.2	3.090	2.177	9.3	21.4	20 E	—	14*
9 28	13 11.85	−10 14.3	3.167	2.218	7.0	21.4	16 E	—	10*
10 8	13 31.58	−11 20.7	3.234	2.259	4.7	21.3	11 E	—	5*
10 18	13 51.03	−12 22.6	3.289	2.299	2.4	21.3	5 E	—	—
10 28	14 10.20	−13 19.0	3.333	2.339	0.1	21.1	0 E	—	—
11 7	14 29.08	−14 8.9	3.363	2.378	2.2	21.4	5 W	—	—
		484223 2007 DT_{102}							
12 23	3 18.05	+57 18.6	1.293	2.107	19.2	20.2	135 E	78	7
12 28	3 9.72	+56 57.0	1.303	2.089	20.7	20.2	131 E	78	7
1 2	3 3.23	+56 28.9	1.318	2.070	22.1	20.2	128 E	79	8
1 7	2 58.66	+55 56.8	1.335	2.052	23.5	20.3	124 E	79	8
1 12	2 56.00	+55 22.9	1.356	2.033	24.8	20.3	120 E	80	9
1 17	2 55.18	+54 48.7	1.379	2.015	26.0	20.4	116 E	80	9*
1 22	2 56.10	+54 15.7	1.404	1.996	27.2	20.5	112 E	81	10*
1 27	2 58.65	+53 44.6	1.430	1.977	28.2	20.5	109 E	81	10*
2 1	3 2.72	+53 16.0	1.457	1.959	29.1	20.6	105 E	82	10*
2 6	3 8.17	+52 50.2	1.485	1.941	29.9	20.6	102 E	82	10*
2 11	3 14.90	+52 27.1	1.513	1.922	30.5	20.6	98 E	83	10*
2 16	3 22.80	+52 6.2	1.542	1.904	31.1	20.7	95 E	82*	10*
2 21	3 31.79	+51 47.3	1.569	1.886	31.6	20.7	92 E	81*	10*
2 26	3 41.81	+51 29.8	1.597	1.868	32.0	20.7	89 E	80*	10*
3 2	3 52.76	+51 13.2	1.624	1.850	32.3	20.8	86 E	78*	10*
3 7	4 4.59	+50 56.7	1.650	1.832	32.6	20.8	84 E	76*	10*
3 12	4 17.20	+50 39.6	1.676	1.815	32.8	20.8	81 E	74*	10*
3 17	4 30.54	+50 21.1	1.700	1.798	32.9	20.8	79 E	72*	10*
3 22	4 44.55	+50 0.5	1.724	1.781	33.0	20.8	77 E	70*	10*
3 27	4 59.14	+49 37.1	1.747	1.765	33.0	20.8	74 E	68*	11*
4 1	5 14.24	+49 10.2	1.770	1.748	33.0	20.8	72 E	66*	11*
4 6	5 29.77	+48 39.1	1.791	1.732	32.9	20.8	70 E	64*	12*
4 11	5 45.64	+48 3.2	1.812	1.717	32.9	20.8	68 E	62*	12*
4 16	6 1.75	+47 22.0	1.832	1.702	32.7	20.8	67 E	60*	13*
4 21	6 18.04	+46 35.1	1.852	1.688	32.6	20.8	65 E	59*	14*
4 26	6 34.42	+45 42.1	1.871	1.674	32.4	20.8	63 E	57*	15*
5 1	6 50.81	+44 42.9	1.889	1.660	32.2	20.8	61 E	55*	16*
5 6	7 7.12	+43 37.3	1.908	1.647	31.9	20.8	60 E	53*	17*
5 11	7 23.30	+42 25.3	1.926	1.635	31.6	20.8	58 E	50*	18*
5 16	7 39.29	+41 6.9	1.944	1.624	31.3	20.8	57 E	48*	19*
5 21	7 55.04	+39 42.3	1.962	1.613	31.0	20.8	55 E	46*	20*
5 26	8 10.52	+38 11.7	1.981	1.602	30.6	20.8	54 E	43*	21*
5 31	8 25.71	+36 35.5	1.999	1.593	30.2	20.8	52 E	41*	22*
6 5	8 40.57	+34 54.0	2.018	1.584	29.7	20.8	51 E	38*	23*
6 10	8 55.10	+33 7.6	2.037	1.576	29.3	20.8	49 E	36*	24*
6 15	9 9.31	+31 16.6	2.056	1.569	28.7	20.8	48 E	33*	25*
6 20	9 23.19	+29 21.6	2.076	1.563	28.2	20.8	47 E	31*	26*
6 25	9 36.76	+27 22.9	2.096	1.558	27.6	20.8	45 E	28*	27*
6 30	9 50.04	+25 21.1	2.117	1.554	27.0	20.8	44 E	26*	28*
7 5	10 3.03	+23 16.6	2.138	1.550	26.3	20.8	43 E	24*	28*
7 10	10 15.75	+21 9.9	2.160	1.548	25.7	20.8	41 E	22*	28*
7 15	10 28.23	+19 1.3	2.182	1.546	24.9	20.8	40 E	20*	28*
7 20	10 40.50	+16 51.3	2.205	1.545	24.2	20.8	39 E	18*	28*
7 25	10 52.58	+14 40.2	2.228	1.546	23.4	20.8	37 E	16*	28*
7 30	11 4.48	+12 28.5	2.252	1.547	22.6	20.8	36 E	14*	27*
8 4	11 16.23	+10 16.5	2.276	1.549	21.7	20.8	34 E	12*	27*
8 9	11 27.87	+ 8 4.6	2.300	1.552	20.9	20.8	33 E	11*	26*
8 14	11 39.40	+ 5 53.1	2.324	1.556	20.0	20.8	32 E	9*	25*
8 19	11 50.86	+ 3 42.1	2.349	1.561	19.1	20.8	30 E	8*	24*
8 24	12 2.27	+ 1 32.1	2.374	1.567	18.2	20.8	29 E	6*	23*
8 29	12 13.65	− 0 36.8	2.399	1.574	17.3	20.8	28 E	5*	21*
9 3	12 25.03	− 2 44.2	2.423	1.582	16.3	20.8	26 E	4*	20*
9 8	12 36.41	− 4 49.9	2.448	1.590	15.4	20.8	25 E	2*	19*
9 13	12 47.83	− 6 53.8	2.472	1.599	14.4	20.8	23 E	1*	17*
9 18	12 59.31	− 8 55.7	2.497	1.609	13.5	20.8	22 E	—	16*
9 23	13 10.87	−10 55.2	2.520	1.620	12.6	20.8	21 E	—	14*
9 28	13 22.51	−12 52.3	2.544	1.631	11.7	20.8	19 E	—	13*
10 3	13 34.27	−14 46.7	2.567	1.643	10.8	20.8	18 E	—	11*
10 8	13 46.15	−16 38.2	2.589	1.656	9.9	20.8	17 E	—	10*
10 13	13 58.18	−18 26.6	2.611	1.669	9.1	20.8	15 E	—	9*
10 18	14 10.36	−20 11.8	2.632	1.683	8.3	20.8	14 E	—	7*
10 23	14 22.72	−21 53.6	2.652	1.697	7.6	20.8	13 E	—	6*
10 28	14 35.26	−23 31.8	2.671	1.712	7.0	20.8	12 E	—	4*
11 2	14 47.98	−25 6.2	2.689	1.727	6.4	20.8	11 E	—	3*
11 7	15 0.90	−26 36.6	2.707	1.743	6.1	20.8	11 E	—	1*
11 12	15 14.03	−28 2.8	2.723	1.759	5.8	20.9	10 E	—	—
11 17	15 27.36	−29 24.7	2.739	1.775	5.8	20.9	10 W	—	—
11 22	15 40.88	−30 42.2	2.753	1.792	5.9	20.9	11 W	—	1*
11 27	15 54.61	−31 55.0	2.766	1.809	6.2	21.0	11 W	—	3*
12 2	16 8.51	−33 3.1	2.777	1.826	6.7	21.0	12 W	—	4*

484223 2007 DT_{102} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 7	16 22.60	−34 6.3	2.787	1.844	7.2	21.1	14 W	—	6*
12 12	16 36.84	−35 4.5	2.796	1.862	7.8	21.1	15 W	—	8*
12 17	16 51.22	−35 57.7	2.804	1.880	8.5	21.2	16 W	—	9*
12 22	17 5.72	−36 45.9	2.809	1.898	9.2	21.2	18 W	—	11*
12 27	17 20.30	−37 28.9	2.814	1.916	9.9	21.3	20 W	—	13*
1 1	17 34.93	−38 7.0	2.816	1.934	10.7	21.4	21 W	—	14*
1 6	17 49.59	−38 40.0	2.818	1.953	11.4	21.4	23 W	—	16*
1 11	18 4.25	−39 8.1	2.817	1.971	12.2	21.5	25 W	—	18*

310777 2002 ST_{19}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 20.19	−37 45.4	0.860	1.492	38.8	18.6	108 E	7	78
12 28	3 23.62	−36 20.4	0.870	1.488	39.3	18.6	107 E	9	80
1 2	3 27.97	−34 42.1	0.881	1.485	39.6	18.7	105 E	10	81
1 7	3 33.22	−32 51.7	0.892	1.484	39.9	18.7	104 E	12	83
1 12	3 39.30	−30 50.6	0.905	1.484	40.1	18.7	104 E	14	85
1 17	3 46.17	−28 40.1	0.918	1.485	40.2	18.8	103 E	16	87
1 22	3 53.77	−26 21.4	0.932	1.488	40.3	18.8	102 E	19	90
1 27	4 2.06	−23 55.9	0.948	1.493	40.3	18.8	101 E	21	88
2 1	4 10.99	−21 25.3	0.966	1.499	40.3	18.9	100 E	24	85
2 6	4 20.49	−18 51.1	0.986	1.506	40.2	18.9	100 E	26	83
2 11	4 30.52	−16 15.1	1.008	1.514	40.1	19.0	99 E	29	80*
2 16	4 41.01	−13 38.8	1.033	1.524	39.9	19.1	98 E	31	78*
2 21	4 51.93	−11 4.0	1.060	1.535	39.7	19.1	97 E	34	75*
2 26	5 3.22	− 8 32.1	1.091	1.547	39.5	19.2	96 E	36	72*
3 2	5 14.85	− 6 4.7	1.125	1.561	39.2	19.3	95 E	39	70*
3 7	5 26.77	− 3 43.2	1.162	1.575	38.9	19.4	94 E	41	67*
3 12	5 38.92	− 1 28.7	1.202	1.591	38.6	19.5	92 E	43*	65*
3 17	5 51.27	+ 0 37.9	1.246	1.608	38.2	19.5	91 E	45*	63*
3 22	6 3.77	+ 2 35.9	1.293	1.625	37.8	19.6	89 E	47*	61*
4 1	6 29.11	+ 6 4.5	1.395	1.663	36.9	19.8	86 E	49*	57*
4 11	6 54.63	+ 8 55.3	1.508	1.703	35.7	20.0	83 E	49*	54*
4 21	7 20.06	+11 9.2	1.630	1.746	34.4	20.2	79 E	47*	52*
5 1	7 45.21	+12 48.7	1.760	1.791	33.0	20.4	75 E	45*	50*
5 6	7 57.62	+13 26.5	1.827	1.814	32.2	20.5	73 E	43*	49*
5 11	8 9.89	+13 57.0	1.895	1.838	31.3	20.5	71 E	42*	48*
5 16	8 22.01	+14 20.6	1.964	1.862	30.5	20.6	69 E	40*	47*
5 21	8 33.97	+14 38.0	2.034	1.886	29.6	20.7	67 E	37*	46*
5 26	8 45.78	+14 49.4	2.105	1.911	28.7	20.8	65 E	35*	46*
5 31	8 57.41	+14 55.4	2.176	1.935	27.8	20.9	63 E	33*	45*
6 5	9 8.87	+14 56.5	2.246	1.960	26.8	20.9	61 E	31*	44*
6 10	9 20.14	+14 53.0	2.317	1.985	25.8	21.0	58 E	29*	43*
6 15	9 31.24	+14 45.4	2.388	2.011	24.9	21.1	56 E	27*	42*
6 20	9 42.16	+14 34.0	2.458	2.036	23.8	21.1	54 E	25*	41*
6 25	9 52.91	+14 19.2	2.528	2.061	22.8	21.2	52 E	23*	40*
6 30	10 3.49	+14 1.3	2.596	2.087	21.8	21.2	50 E	21*	38*
7 5	10 13.91	+13 40.8	2.664	2.112	20.7	21.3	47 E	19*	37*
7 10	10 24.16	+13 17.8	2.730	2.138	19.7	21.3	45 E	18*	35*
7 15	10 34.26	+12 52.7	2.795	2.163	18.6	21.4	43 E	16*	34*
7 20	10 44.22	+12 25.7	2.859	2.189	17.6	21.4	41 E	15*	32*
7 25	10 54.03	+11 57.0	2.921	2.214	16.5	21.4	38 E	14*	30*
7 30	11 3.71	+11 27.0	2.981	2.239	15.4	21.5	36 E	13*	28*
8 4	11 13.26	+10 55.8	3.039	2.265	14.3	21.5	34 E	12*	26*

318875 2005 TS_{100}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 20.80	+25 3.3	3.846	4.671	7.2	20.4	143 E	70	39
1 2	3 17.92	+24 51.3	3.947	4.668	8.9	20.5	133 E	70	39
1 12	3 16.57	+24 42.9	4.068	4.666	10.3	20.6	122 E	70	39
1 22	3 16.81	+24 39.0	4.204	4.663	11.3	20.8	112 E	70	39*
2 1	3 18.62	+24 40.1	4.350	4.661	11.9	20.9	102 E	70	38*
2 11	3 21.91	+24 46.3	4.501	4.659	12.2	20.9	93 E	70	36*
2 21	3 26.57	+24 57.2	4.654	4.657	12.2	21.0	84 E	69*	34*
3 2	3 32.47	+25 12.3	4.805	4.655	11.9	21.1	75 E	64*	31*
3 12	3 39.47	+25 30.7	4.950	4.654	11.3	21.1	67 E	57*	28*
3 22	3 47.43	+25 51.8	5.087	4.652	10.6	21.1	59 E	50*	25*
4 1	3 56.22	+26 14.6	5.212	4.651	9.6	21.2	51 E	43*	22*
4 11	4 5.73	+26 38.5	5.325	4.651	8.5	21.2	44 E	35*	18*
4 21	4 15.85	+27 2.6	5.423	4.650	7.3	21.1	36 E	28*	14*
5 1	4 26.47	+27 26.5	5.506	4.650	6.0	21.1	29 E	21*	11*
5 11	4 37.49	+27 49.5	5.571	4.650	4.7	21.1	22 E	15*	6*
5 21	4 48.82	+28 11.2	5.619	4.650	3.3	21.0	15 E	8*	2*
5 31	5 0.38	+28 31.2	5.648	4.650	2.0	20.9	9 E	3*	—
6 10	5 12.06	+28 49.3	5.660	4.651	1.3	20.9	6 W	—	—
6 20	5 23.80	+29 5.4	5.653	4.652	2.0	20.9	9 W	3*	—
6 30	5 35.50	+29 19.3	5.627	4.653	3.2	21.0	15 W	7*	3*
7 10	5 47.07	+29 31.2	5.584	4.654	4.6	21.1	22 W	13*	8*
7 20	5 58.42	+29 41.3	5.524	4.656	6.0	21.1	28 W	19*	12*
7 30	6 9.45	+29 49.7	5.447	4.657	7.3	21.2	35 W	26*	16*
8 9	6 20.05	+29 56.8	5.354	4.659	8.5	21.2	43 W	33*	19*
8 19	6 30.12	+30 3.2	5.248	4.662	9.6	21.2	50 W	40*	22*
8 29	6 39.55	+30 9.3	5.128	4.664	10.5	21.2	58 W	48*	25*
9 8	6 48.19	+30 15.7	4.998	4.667	11.3	21.1	65 W	56*	27*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
9 18	6 55.92	+30 23.2	4.858	4.669	11.9	21.1	73 W	63*	29*
9 28	7 2.59	+30 32.3	4.713	4.673	12.2	21.0	82 W	70*	31*
10 8	7 8.04	+30 43.7	4.565	4.676	12.3	21.0	90 W	75*	32*
10 18	7 12.13	+30 57.8	4.417	4.679	12.1	20.9	99 W	76	33*
10 28	7 14.70	+31 14.9	4.273	4.683	11.6	20.8	108 W	76	33
11 7	7 15.65	+31 34.8	4.138	4.687	10.7	20.7	118 W	77	32
11 17	7 14.90	+31 57.0	4.016	4.691	9.5	20.6	128 W	77	32
11 27	7 12.46	+32 20.3	3.911	4.696	8.0	20.5	138 W	77	32
12 7	7 8.48	+32 43.2	3.829	4.700	6.2	20.4	149 W	78	31
12 17	7 3.20	+33 3.6	3.772	4.705	4.3	20.2	159 W	78	31
12 27	6 57.04	+33 19.8	3.745	4.710	2.6	20.1	168 W	78	31
1 1	6 53.79	+33 25.8	3.742	4.712	2.2	20.1	169 W	78	31
1 6	6 50.52	+33 30.2	3.748	4.715	2.4	20.1	168 E	79	30
1 11	6 47.29	+33 33.0	3.761	4.718	3.1	20.2	165 E	79	30
1 16	6 44.19	+33 34.1	3.781	4.720	4.0	20.2	161 E	79	30

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 21.65	+ 5 28.0	1.338	2.167	17.9	17.4	137 E	50	59
1 2	3 19.94	+ 6 36.7	1.458	2.202	20.7	17.8	128 E	52	57
1 12	3 21.42	+ 7 53.7	1.593	2.237	22.7	18.0	119 E	53	56
1 22	3 25.73	+ 9 15.4	1.737	2.271	24.0	18.3	110 E	54	55
2 1	3 32.49	+10 38.7	1.889	2.304	24.7	18.5	102 E	56	53*
2 11	3 41.31	+12 1.2	2.045	2.337	24.9	18.7	94 E	57	50*
2 21	3 51.85	+13 21.1	2.203	2.370	24.6	18.9	87 E	58*	47*
3 2	4 3.82	+14 37.1	2.361	2.401	24.0	19.1	80 E	58*	44*
3 12	4 16.98	+15 47.7	2.518	2.432	23.1	19.2	74 E	55*	41*
3 22	4 31.12	+16 52.2	2.670	2.462	21.9	19.3	67 E	51*	38*
4 1	4 46.07	+17 49.8	2.817	2.492	20.5	19.4	61 E	46*	35*
4 11	5 1.67	+18 39.8	2.958	2.520	19.0	19.5	55 E	40*	33*
4 21	5 17.80	+19 22.0	3.090	2.547	17.3	19.6	49 E	34*	30*
5 1	5 34.34	+19 55.9	3.213	2.574	15.6	19.6	43 E	28*	27*
5 11	5 51.17	+20 21.4	3.326	2.600	13.7	19.7	38 E	22*	24*
5 21	6 8.21	+20 38.4	3.428	2.624	11.8	19.7	32 E	16*	21*
5 31	6 25.36	+20 47.2	3.518	2.648	9.8	19.7	26 E	11*	17*
6 10	6 42.54	+20 47.7	3.596	2.671	7.7	19.7	21 E	6*	13*
6 20	6 59.68	+20 40.3	3.660	2.693	5.7	19.6	15 E	1*	8*
6 30	7 16.71	+20 25.5	3.710	2.713	3.6	19.6	10 E	—	4*
7 10	7 33.55	+20 3.6	3.746	2.733	1.6	19.5	4 E	—	—
7 20	7 50.17	+19 35.2	3.767	2.752	0.8	19.4	2 W	—	—
7 30	8 6.51	+19 0.9	3.773	2.770	2.7	19.6	7 W	—	—
8 9	8 22.50	+18 21.5	3.765	2.787	4.7	19.7	13 W	4*	4*
8 19	8 38.12	+17 37.8	3.741	2.802	6.7	19.8	19 W	10*	8*
8 29	8 53.31	+16 50.5	3.702	2.817	8.6	19.9	25 W	16*	11*
9 8	9 8.01	+16 0.6	3.648	2.831	10.5	19.9	31 W	22*	15*
9 18	9 22.18	+15 9.2	3.580	2.844	12.3	20.0	37 W	28*	18*
9 28	9 35.75	+14 17.3	3.498	2.855	14.0	20.0	43 W	34*	21*
10 8	9 48.65	+13 26.2	3.403	2.866	15.5	20.0	50 W	40*	25*
10 18	10 0.79	+12 37.2	3.295	2.875	16.9	20.0	57 W	45*	29*
10 28	10 12.05	+11 51.8	3.177	2.884	18.0	19.9	64 W	50*	33*
11 7	10 22.32	+11 11.5	3.050	2.892	19.0	19.9	71 W	54*	37*
11 17	10 31.43	+10 38.3	2.915	2.898	19.6	19.8	79 W	55*	42*
11 27	10 39.18	+10 14.0	2.776	2.903	19.8	19.7	87 W	55	46*
12 7	10 45.37	+10 0.7	2.634	2.908	19.7	19.6	96 W	55	50*
12 17	10 49.73	+10 0.6	2.494	2.911	19.0	19.5	105 W	55	53*
12 27	10 52.00	+10 15.5	2.359	2.913	17.8	19.3	115 W	55	54
1 6	10 51.97	+10 46.9	2.234	2.915	16.0	19.1	125 W	56	53
1 16	10 49.44	+11 34.9	2.123	2.915	13.5	18.9	136 W	57	52

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 21.91	−30 27.8	0.700	1.419	39.4	20.3	114 E	15	86
12 28	3 26.99	−28 32.8	0.737	1.439	39.0	20.5	113 E	16	87
1 2	3 32.52	−26 33.0	0.776	1.461	38.7	20.6	112 E	18	89
1 7	3 38.48	−24 30.2	0.816	1.483	38.4	20.8	111 E	20	89
1 12	3 44.84	−22 25.6	0.858	1.505	38.0	20.9	109 E	23	86
1 17	3 51.58	−20 20.6	0.902	1.528	37.7	21.0	108 E	25	84
1 22	3 58.68	−18 16.3	0.947	1.551	37.4	21.1	107 E	27	82
1 27	4 6.12	−16 13.5	0.994	1.574	37.1	21.3	105 E	29	80
2 1	4 13.88	−14 13.3	1.043	1.597	36.8	21.4	104 E	31	78

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 22.72	+81 12.6	1.122	1.825	27.8	20.7	120 E	54	—
12 24	3 14.66	+80 50.0	1.116	1.819	27.9	20.7	120 E	54	—
12 25	3 7.37	+80 26.1	1.111	1.814	28.1	20.7	120 E	55	—
12 26	3 0.81	+80 0.9	1.106	1.808	28.2	20.7	120 E	55	—
12 27	2 54.93	+79 34.7	1.101	1.802	28.3	20.6	120 E	55	—
12 28	2 49.69	+79 7.5	1.096	1.796	28.5	20.6	119 E	56	—
12 29	2 45.02	+78 39.4	1.091	1.790	28.6	20.6	119 E	56	—
12 30	2 40.89	+78 10.4	1.086	1.784	28.8	20.6	119 E	57	—
12 31	2 37.26	+77 40.7	1.082	1.778	29.0	20.6	119 E	57	—
1 1	2 34.07	+77 10.2	1.077	1.772	29.2	20.6	119 E	58	—
1 2	2 31.29	+76 39.2	1.073	1.766	29.4	20.6	118 E	58	—

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 3	2 28.88	+76 7.5	1.069	1.760	29.6	20.6	118 E	59	—
1 4	2 26.82	+75 35.4	1.065	1.754	29.8	20.6	118 E	59	—
1 5	2 25.07	+75 2.7	1.062	1.747	30.0	20.5	117 E	60	—
1 6	2 23.60	+74 29.6	1.058	1.741	30.2	20.5	117 E	61	—
1 7	2 22.39	+73 56.1	1.055	1.735	30.4	20.5	117 E	61	—
1 8	2 21.42	+73 22.3	1.052	1.728	30.7	20.5	116 E	62	—
1 9	2 20.68	+72 48.0	1.048	1.722	30.9	20.5	116 E	62	—
1 10	2 20.13	+72 13.5	1.046	1.716	31.2	20.5	115 E	63	—
1 11	2 19.77	+71 38.7	1.043	1.709	31.4	20.5	115 E	63	—
1 12	2 19.58	+71 3.7	1.040	1.703	31.7	20.5	115 E	64	—
1 14	2 19.65	+69 52.9	1.035	1.689	32.2	20.5	114 E	65	—
1 16	2 20.27	+68 41.5	1.031	1.676	32.8	20.5	113 E	66	—
1 18	2 21.35	+67 29.5	1.028	1.662	33.4	20.5	111 E	68	—
1 20	2 22.83	+66 17.0	1.025	1.649	34.0	20.5	110 E	69	—
1 22	2 24.67	+65 4.4	1.022	1.635	34.7	20.4	109 E	70	—
1 24	2 26.81	+63 51.6	1.020	1.621	35.3	20.4	108 E	71	—
1 26	2 29.23	+62 38.9	1.018	1.607	35.9	20.4	107 E	72	—
1 28	2 31.88	+61 26.2	1.017	1.592	36.6	20.4	105 E	74	1*
1 30	2 34.74	+60 13.8	1.017	1.578	37.3	20.4	104 E	75	2*
2 1	2 37.78	+59 1.8	1.016	1.563	38.0	20.4	103 E	76	3*
2 6	2 46.08	+56 3.4	1.017	1.525	39.7	20.4	99 E	79	6*
2 11	2 55.14	+53 8.3	1.020	1.487	41.3	20.4	96 E	81*	8*
2 16	3 4.78	+50 16.6	1.025	1.447	43.0	20.4	92 E	82*	10*
2 21	3 14.88	+47 28.6	1.030	1.406	44.7	20.4	88 E	81*	13*
2 26	3 25.33	+44 44.1	1.036	1.364	46.3	20.4	85 E	78*	15*
3 2	3 36.05	+42 2.7	1.041	1.321	47.8	20.4	81 E	75*	17*
3 7	3 46.96	+39 23.7	1.047	1.277	49.4	20.4	77 E	71*	19*
3 12	3 57.97	+36 46.1	1.051	1.232	50.9	20.3	74 E	67*	21*
3 17	4 9.04	+34 8.9	1.054	1.186	52.4	20.3	71 E	63*	23*
3 22	4 20.11	+31 31.2	1.055	1.139	53.9	20.3	67 E	59*	25*
3 27	4 31.12	+28 51.7	1.054	1.091	55.4	20.2	64 E	55*	26*
4 1	4 42.01	+26 9.4	1.050	1.043	57.0	20.2	61 E	51*	28*
4 6	4 52.67	+23 22.8	1.044	0.995	58.7	20.1	58 E	46*	30*
4 11	5 3.02	+20 30.9	1.034	0.947	60.6	20.0	55 E	42*	31*
4 16	5 12.94	+17 32.5	1.020	0.899	62.7	19.9	53 E	37*	33*
4 21	5 22.30	+14 26.6	1.002	0.852	65.1	19.9	50 E	32*	34*
4 26	5 30.92	+11 12.6	0.979	0.807	67.8	19.8	48 E	26*	35*
5 1	5 38.57	+ 7 50.4	0.952	0.765	70.9	19.7	46 E	21*	36*
5 6	5 44.92	+ 4 20.6	0.920	0.726	74.6	19.6	44 E	15*	36*
5 11	5 49.64	+ 0 45.4	0.883	0.693	78.7	19.6	42 E	8*	36*
5 16	5 52.29	− 2 51.3	0.842	0.666	83.3	19.6	41 E	1*	35*
5 21	5 52.45	− 6 23.2	0.796	0.648	88.4	19.6	40 E	—	33*
5 26	5 49.70	− 9 41.6	0.747	0.640	93.5	19.6	39 E	—	29*
5 31	5 43.73	−12 35.8	0.697	0.641	98.5	19.7	39 E	—	25*
6 2	5 40.41	−13 36.1	0.676	0.644	100.3	19.7	39 E	—	23*
6 4	5 36.56	−14 29.9	0.656	0.649	102.1	19.8	39 E	—	21*
6 6	5 32.20	−15 16.4	0.635	0.656	103.7	19.8	39 E	—	18*
6 8	5 27.34	−15 55.0	0.615	0.663	105.1	19.8	39 E	—	16*
6 10	5 22.01	−16 25.0	0.594	0.673	106.4	19.9	39 E	—	13*
6 15	5 6.86	−16 59.3	0.544	0.701	108.6	19.9	41 W	—	18*
6 20	4 49.46	−16 29.8	0.497	0.736	109.6	19.9	43 W	—	26*
6 25	4 30.24	−14 51.5	0.451	0.776	109.1	19.7	46 W	—	34*
6 30	4 9.40	−12 0.0	0.409	0.819	107.1	19.5	50 W	—	42*
7 5	3 46.82	− 7 50.5	0.370	0.864	103.6	19.2	56 W	3*	50*
7 10	3 22.02	− 2 19.4	0.336	0.911	98.4	18.9	62 W	15*	55*
7 15	2 54.09	+ 4 32.8	0.308	0.960	91.7	18.5	71 W	29*	56*
7 20	2 21.82	+12 32.9	0.289	1.008	83.4	18.1	80 W	44*	51*
7 22	2 7.40	+15 56.8	0.284	1.027	79.8	18.0	84 W	50*	48
7 24	1 52.03	+19 22.3	0.281	1.047	76.0	17.9	88 W	57*	45
7 26	1 35.66	+22 45.3	0.280	1.066	72.2	17.8	93 W	63*	41
7 28	1 18.33	+26 1.2	0.281	1.085	68.3	17.7	97 W	69*	38
7 30	1 0.10	+29 5.4	0.283	1.104	64.6	17.7	101 W	74*	35
8 1	0 41.11	+31 53.9	0.288	1.123	60.9	17.6	105 W	77	32
8 3	0 21.56	+34 23.3	0.295	1.142	57.5	17.6	108 W	79	30
8 5	0 1.70	+36 31.3	0.303	1.161	54.3	17.6	112 W	82	27
8 7	23 41.84	+38 17.1	0.314	1.180	51.4	17.6	115 W	83	26
8 9	23 22.29	+39 40.7	0.326	1.198	48.8	17.7	117 W	85	24
8 11	23 3.35	+40 43.3	0.339	1.217	46.5	17.7	119 W	86	23
8 13	22 45.28	+41 26.5	0.354	1.235	44.5	17.8	121 W	86	23
8 15	22 28.28	+41 52.8	0.370	1.253	42.7	17.9	123 W	87	22
8 17	22 12.49	+42 4.5	0.387	1.271	41.2	18.0	124 W	87	22
8 19	21 57.99	+42 4.1	0.405	1.289	40.0	18.1	125 W	87	22
8 21	21 44.79	+41 53.7	0.424	1.306	38.9	18.2	126 E	87	22
8 23	21 32.88	+41 35.4	0.444	1.324	38.0	18.3	126 E	87	22
8 25	21 22.20	+41 11.0	0.465	1.341	37.2	18.4	127 E	86	23
8 27	21 12.67	+40 42.0	0.487	1.358	36.6	18.5	127 E	86	23
8 29	21 4.22	+40 9.6	0.509	1.375	36.1	18.6	127 E	85	24
8 31	20 56.76	+39 34.7	0.531	1.392	35.7	18.7	126 E	85	24
9 2	20 50.19	+38 58.2	0.555	1.409	35.4	18.8	126 E	84	25

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19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 4	20 44.43	+38 20.6	0.578	1.425	35.1	18.9	126 E	83	26
9 6	20 39.41	+37 42.6	0.603	1.441	34.9	19.0	125 E	83	26
9 8	20 35.06	+37 4.3	0.627	1.458	34.7	19.1	125 E	82	27
9 10	20 31.31	+36 26.2	0.652	1.473	34.6	19.2	124 E	81	28
9 12	20 28.11	+35 48.5	0.678	1.489	34.5	19.3	123 E	81	28
9 14	20 25.41	+35 11.3	0.704	1.505	34.4	19.4	122 E	80	29
9 16	20 23.16	+34 34.8	0.730	1.520	34.3	19.5	122 E	80	29
9 18	20 21.33	+33 59.1	0.756	1.535	34.2	19.6	121 E	79	30
9 23	20 18.32	+32 34.0	0.823	1.573	34.1	19.9	119 E	78	31
9 28	20 17.21	+31 15.5	0.892	1.609	34.0	20.1	116 E	76	33
10 3	20 17.61	+30 4.0	0.962	1.644	33.9	20.3	114 E	75	34
10 8	20 19.26	+28 59.2	1.034	1.678	33.7	20.5	111 E	74	35
10 13	20 21.92	+28 1.1	1.106	1.711	33.5	20.7	109 E	73	36
10 18	20 25.46	+27 9.5	1.179	1.743	33.3	20.9	106 E	72	37
10 23	20 29.73	+26 24.4	1.252	1.774	33.0	21.0	104 E	71	38*
10 28	20 34.62	+25 45.4	1.326	1.804	32.7	21.2	101 E	71	38*
11 2	20 40.04	+25 12.4	1.400	1.833	32.4	21.3	99 E	70	38*
11 7	20 45.92	+24 45.0	1.474	1.861	32.0	21.4	96 E	70	37*

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12 23	3 23.01	+26 10.3	1.288	2.161	15.6	19.9	144 E	71	38
1 2	3 20.81	+25 42.3	1.397	2.191	19.1	20.2	133 E	71	38
1 12	3 22.32	+25 25.0	1.521	2.221	21.7	20.5	124 E	70	39
1 22	3 27.06	+25 18.7	1.657	2.251	23.5	20.8	114 E	70	39
2 1	3 34.58	+25 22.0	1.802	2.280	24.5	21.0	106 E	70	38*
2 11	3 44.40	+25 32.9	1.952	2.308	25.0	21.2	98 E	71	37*
2 21	3 56.11	+25 48.8	2.104	2.336	25.0	21.4	91 E	71*	36*

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12 23	3 23.58	+14 17.4	0.892	1.770	20.3	18.5	141 E	59	50
1 2	3 26.16	+15 59.3	0.984	1.800	23.8	18.9	132 E	61	48
1 12	3 32.31	+17 39.7	1.089	1.831	26.4	19.2	124 E	63	46
1 22	3 41.57	+19 15.9	1.206	1.865	28.2	19.5	116 E	64	45
2 1	3 53.46	+20 46.2	1.332	1.901	29.3	19.8	109 E	66	43*
2 11	4 7.52	+22 9.1	1.465	1.938	29.8	20.1	103 E	67	41*
2 21	4 23.32	+23 23.1	1.605	1.976	29.8	20.3	96 E	68	40*
3 2	4 40.54	+24 27.4	1.749	2.016	29.4	20.5	90 E	69*	38*
3 12	4 58.85	+25 21.1	1.896	2.056	28.8	20.7	85 E	68*	36*
3 22	5 17.99	+26 3.5	2.045	2.098	27.8	20.9	79 E	65*	35*
4 1	5 37.74	+26 34.4	2.195	2.139	26.6	21.1	74 E	60*	34*
4 11	5 57.89	+26 53.7	2.344	2.182	25.3	21.2	68 E	55*	33*
4 21	6 18.27	+27 1.4	2.491	2.224	23.8	21.3	63 E	50*	32*
5 1	6 38.72	+26 57.9	2.635	2.267	22.1	21.4	58 E	44*	31*

57047 2001 LG_1

12 23	3 24.16	+20 40.1	1.250	2.122	16.1	17.8	143 E	66	43
1 2	3 23.46	+19 42.6	1.368	2.160	19.5	18.1	133 E	65	44
1 12	3 26.09	+19 5.5	1.501	2.198	22.0	18.5	123 E	64	45
1 22	3 31.56	+18 46.1	1.646	2.235	23.7	18.7	114 E	64	45
2 1	3 39.45	+18 40.8	1.799	2.272	24.7	19.0	106 E	64	45*
2 11	3 49.31	+18 46.0	1.958	2.309	25.0	19.2	98 E	64	44*
2 21	4 0.79	+18 57.9	2.119	2.345	24.9	19.4	90 E	64*	43*
3 2	4 13.58	+19 13.7	2.282	2.381	24.4	19.6	83 E	63*	41*
3 12	4 27.43	+19 30.9	2.443	2.415	23.6	19.8	77 E	59*	39*
3 22	4 42.13	+19 47.2	2.601	2.449	22.5	19.9	70 E	55*	37*
4 1	4 57.51	+20 1.0	2.754	2.483	21.2	20.0	64 E	49*	35*
4 11	5 13.41	+20 11.1	2.902	2.515	19.7	20.1	58 E	43*	33*
4 21	5 29.70	+20 16.2	3.042	2.547	18.1	20.2	52 E	37*	31*
5 1	5 46.28	+20 15.7	3.173	2.578	16.3	20.2	46 E	30*	29*
5 11	6 3.03	+20 8.9	3.294	2.608	14.5	20.3	40 E	24*	26*
5 21	6 19.86	+19 55.6	3.405	2.637	12.6	20.3	35 E	18*	23*
5 31	6 36.70	+19 35.4	3.505	2.665	10.7	20.3	29 E	12*	20*
6 10	6 53.46	+19 8.4	3.592	2.692	8.7	20.3	24 E	6*	16*
6 20	7 10.09	+18 34.6	3.666	2.718	6.7	20.3	18 E	1*	12*
6 30	7 26.52	+17 54.2	3.726	2.744	4.7	20.3	13 E	—	7*
7 10	7 42.69	+17 7.6	3.772	2.768	2.9	20.2	8 E	—	2*
7 20	7 58.57	+16 14.9	3.804	2.792	1.6	20.1	4 E	—	—
7 30	8 14.11	+15 16.8	3.821	2.814	2.3	20.2	6 W	—	—
8 9	8 29.25	+14 13.6	3.822	2.836	4.1	20.3	11 W	—	5*
8 19	8 43.96	+13 5.9	3.809	2.856	5.9	20.5	17 W	6*	9*
8 29	8 58.20	+11 54.3	3.780	2.876	7.8	20.5	23 W	12*	13*
9 8	9 11.92	+10 39.4	3.736	2.894	9.7	20.6	29 W	18*	17*
9 18	9 25.06	+ 9 21.8	3.677	2.912	11.4	20.7	35 W	23*	21*
9 28	9 37.56	+ 8 2.5	3.604	2.928	13.1	20.7	41 W	29*	25*
10 8	9 49.34	+ 6 42.0	3.518	2.944	14.6	20.7	48 W	35*	29*
10 18	10 0.32	+ 5 21.4	3.419	2.958	16.0	20.7	55 W	39*	33*
10 28	10 10.38	+ 4 1.6	3.308	2.972	17.1	20.7	62 W	43*	38*
11 7	10 19.38	+ 2 43.6	3.188	2.984	18.1	20.6	69 W	46*	43*
11 17	10 27.17	+ 1 28.7	3.060	2.996	18.8	20.6	77 W	46*	49*
11 27	10 33.56	+ 0 18.4	2.926	3.006	19.1	20.5	85 W	45	55*
12 7	10 38.34	− 0 45.8	2.790	3.016	19.0	20.4	94 W	44	61*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		57047 2001 LG_1				*(continuation)*			
	h m	° ′			°	m	°	°	°
12 17	10 41.27	− 1 41.9	2.654	3.024	18.5	20.3	103 W	43	65*
12 27	10 42.14	− 2 27.8	2.522	3.032	17.5	20.1	112 W	43	66
1 6	10 40.77	− 3 1.1	2.399	3.038	15.9	20.0	122 W	42	67
1 16	10 37.06	− 3 19.6	2.290	3.044	13.8	19.8	133 W	42	67
		99869 2002 PF_{46}							
12 23	3 24.48	+15 52.3	2.691	3.520	9.9	20.8	142 E	61	48
1 2	3 19.58	+15 37.3	2.795	3.517	12.2	21.0	131 E	61	48
1 12	3 16.84	+15 31.0	2.917	3.513	14.0	21.2	120 E	61	48
1 22	3 16.25	+15 33.5	3.053	3.509	15.3	21.3	110 E	61	48*
2 1	3 17.73	+15 44.1	3.197	3.503	16.1	21.4	100 E	61	47*
		5164 Mullo							
12 23	3 24.54	+29 38.9	1.215	2.094	15.9	15.9	144 E	75	34
12 28	3 20.92	+30 13.5	1.232	2.075	18.2	16.0	139 E	75	34
1 2	3 18.34	+30 47.2	1.254	2.057	20.4	16.1	133 E	76	33
1 7	3 16.87	+31 20.4	1.280	2.039	22.3	16.2	128 E	76	33
1 12	3 16.53	+31 53.5	1.308	2.022	24.0	16.2	123 E	77	32
1 22	3 19.29	+33 0.3	1.373	1.990	26.8	16.4	114 E	78	31*
2 1	3 26.49	+34 8.8	1.445	1.961	28.9	16.5	106 E	79	29*
2 11	3 37.81	+35 18.6	1.521	1.935	30.3	16.7	99 E	80	27*
2 21	3 52.87	+36 27.4	1.598	1.912	31.1	16.8	92 E	81*	25*
3 2	4 11.34	+37 32.4	1.677	1.893	31.5	16.9	86 E	79*	24*
3 12	4 32.84	+38 29.8	1.754	1.878	31.5	16.9	81 E	74*	22*
3 22	4 56.97	+39 15.7	1.832	1.868	31.2	17.0	76 E	70*	21*
3 27	5 9.92	+39 33.1	1.870	1.864	31.0	17.0	74 E	68*	21*
4 1	5 23.37	+39 46.3	1.908	1.861	30.7	17.1	72 E	65*	20*
4 6	5 37.26	+39 54.7	1.946	1.859	30.4	17.1	70 E	63*	20*
4 11	5 51.52	+39 58.1	1.984	1.858	30.0	17.1	68 E	61*	20*
4 16	6 6.09	+39 56.0	2.023	1.859	29.6	17.2	66 E	59*	20*
4 21	6 20.90	+39 48.3	2.061	1.860	29.1	17.2	64 E	57*	20*
4 26	6 35.89	+39 34.9	2.099	1.863	28.6	17.2	63 E	55*	20*
5 1	6 50.99	+39 15.6	2.138	1.866	28.1	17.2	61 E	53*	21*
5 6	7 6.11	+38 50.3	2.176	1.871	27.6	17.3	59 E	50*	21*
5 11	7 21.20	+38 19.3	2.215	1.876	27.0	17.3	57 E	48*	21*
5 16	7 36.20	+37 42.6	2.255	1.883	26.4	17.3	56 E	46*	22*
5 21	7 51.07	+37 0.3	2.294	1.890	25.7	17.4	54 E	44*	22*
5 26	8 5.76	+36 12.8	2.335	1.899	25.1	17.4	53 E	42*	22*
5 31	8 20.22	+35 20.5	2.375	1.909	24.4	17.4	51 E	39*	23*
6 5	8 34.43	+34 23.5	2.416	1.919	23.7	17.4	50 E	37*	23*
6 10	8 48.36	+33 22.3	2.457	1.930	23.0	17.5	48 E	35*	23*
6 15	9 2.00	+32 17.4	2.499	1.943	22.2	17.5	46 E	33*	24*
6 20	9 15.34	+31 9.0	2.541	1.956	21.5	17.5	45 E	31*	24*
6 25	9 28.38	+29 57.6	2.584	1.970	20.7	17.6	43 E	29*	24*
6 30	9 41.12	+28 43.5	2.626	1.984	19.9	17.6	42 E	27*	24*
7 10	10 5.67	+26 9.2	2.712	2.016	18.2	17.6	38 E	23*	23*
7 20	10 29.07	+23 28.9	2.799	2.050	16.5	17.7	35 E	20*	22*
7 30	10 51.43	+20 45.1	2.884	2.087	14.7	17.7	32 E	17*	20*
8 9	11 12.82	+18 0.2	2.968	2.127	12.9	17.8	28 E	15*	17*
8 19	11 33.36	+15 16.0	3.050	2.168	11.1	17.8	24 E	13*	14*
8 29	11 53.16	+12 34.1	3.128	2.211	9.2	17.8	21 E	10*	11*
9 8	12 12.29	+ 9 56.0	3.201	2.255	7.4	17.8	17 E	8*	7*
9 18	12 30.84	+ 7 22.6	3.268	2.301	5.7	17.8	13 E	6*	2*
9 28	12 48.87	+ 4 54.9	3.328	2.348	4.4	17.9	10 E	4*	—
10 8	13 6.42	+ 2 33.7	3.379	2.397	3.7	17.9	9 E	2*	—
10 18	13 23.53	+ 0 19.4	3.420	2.445	4.1	18.0	10 W	2*	—
10 28	13 40.20	− 1 47.4	3.450	2.495	5.3	18.1	13 W	7*	—
11 7	13 56.44	− 3 46.5	3.469	2.545	6.9	18.2	18 W	12*	—
11 17	14 12.22	− 5 37.4	3.476	2.596	8.6	18.4	23 W	17*	5*
11 27	14 27.49	− 7 20.2	3.469	2.647	10.3	18.5	29 W	21*	10*
12 7	14 42.21	− 8 54.7	3.449	2.698	12.0	18.6	35 W	24*	16*
12 17	14 56.27	−10 21.0	3.416	2.749	13.6	18.6	41 W	27*	23*
12 27	15 9.58	−11 39.2	3.370	2.800	15.0	18.7	47 W	29*	31*
1 6	15 22.01	−12 49.8	3.311	2.852	16.3	18.8	54 W	30*	39*
1 16	15 33.41	−13 53.0	3.241	2.903	17.3	18.8	61 W	30*	47*
		270037 2001 KR_{57}							
12 23	3 25.54	+12 19.3	1.534	2.382	15.0	20.7	141 E	57	52
1 2	3 22.99	+12 10.4	1.657	2.415	18.0	21.0	130 E	57	52
1 12	3 23.47	+12 17.0	1.796	2.447	20.3	21.3	121 E	57	52
1 22	3 26.69	+12 36.0	1.946	2.478	21.7	21.6	111 E	58	51
2 1	3 32.30	+13 4.5	2.103	2.509	22.5	21.8	103 E	58	50*
		376764 1999 XS_{16}							
12 23	3 25.70	+15 46.7	1.720	2.570	13.5	19.4	142 E	61	48
1 2	3 18.44	+16 0.9	1.756	2.510	17.3	19.5	131 E	61	48
1 12	3 14.28	+16 25.8	1.809	2.449	20.4	19.6	120 E	61	48
1 22	3 13.40	+17 1.6	1.872	2.387	22.9	19.7	109 E	62	47*
2 1	3 15.77	+17 47.6	1.942	2.325	24.7	19.8	100 E	63	45*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		376764 1999 XS_{16}				*(continuation)*			
	h m	° ′			°	m	°	°	°
2 11	3 21.20	+18 42.6	2.013	2.262	25.9	19.9	91 E	64	42*
2 21	3 29.47	+19 44.5	2.081	2.199	26.5	19.9	83 E	64*	39*
3 2	3 40.36	+20 51.4	2.145	2.135	26.8	19.9	76 E	61*	36*
3 12	3 53.68	+22 1.0	2.202	2.072	26.7	19.9	69 E	57*	33*
3 22	4 9.28	+23 11.0	2.250	2.008	26.3	19.9	63 E	52*	30*
4 1	4 27.05	+24 19.0	2.290	1.945	25.7	19.8	57 E	47*	28*
4 11	4 46.91	+25 22.2	2.320	1.882	24.9	19.8	52 E	42*	25*
4 21	5 8.78	+26 17.8	2.341	1.820	24.0	19.7	48 E	37*	23*
5 1	5 32.61	+27 2.9	2.354	1.760	23.1	19.6	43 E	32*	22*
5 11	5 58.29	+27 34.2	2.358	1.702	22.1	19.5	39 E	28*	20*
5 21	6 25.73	+27 48.4	2.356	1.645	21.1	19.4	36 E	24*	19*
5 31	6 54.76	+27 42.3	2.348	1.592	20.1	19.3	33 E	20*	18*
6 10	7 25.15	+27 13.0	2.336	1.543	19.2	19.2	30 E	17*	17*
6 20	7 56.64	+26 17.8	2.322	1.498	18.4	19.1	28 E	14*	16*
6 30	8 28.92	+24 55.1	2.307	1.458	17.6	19.0	26 E	12*	15*
7 10	9 1.66	+23 4.3	2.293	1.425	16.9	18.9	24 E	10*	14*
7 20	9 34.57	+20 46.1	2.281	1.398	16.2	18.8	23 E	9*	13*
7 30	10 7.38	+18 2.6	2.275	1.379	15.5	18.7	21 E	8*	13*
8 9	10 39.88	+14 57.2	2.274	1.368	14.8	18.7	20 E	7*	12*
8 14	10 55.98	+13 17.7	2.276	1.365	14.5	18.7	20 E	7*	12*
8 19	11 11.95	+11 34.5	2.280	1.365	14.1	18.7	19 E	6*	12*
8 24	11 27.81	+ 9 48.3	2.286	1.367	13.7	18.7	19 E	6*	11*
8 29	11 43.52	+ 7 59.8	2.294	1.371	13.2	18.7	18 E	6*	11*
9 3	11 59.11	+ 6 9.8	2.305	1.377	12.8	18.7	18 E	5*	10*
9 8	12 14.57	+ 4 19.0	2.317	1.385	12.3	18.7	17 E	5*	10*
9 13	12 29.91	+ 2 28.1	2.331	1.395	11.7	18.7	16 E	5*	9*
9 18	12 45.13	+ 0 37.9	2.348	1.407	11.1	18.7	16 E	4*	9*
9 28	13 15.23	− 2 58.0	2.386	1.436	9.9	18.7	14 E	3*	7*
10 8	13 44.92	− 6 23.9	2.432	1.472	8.4	18.8	12 E	2*	5*
10 18	14 14.24	− 9 35.9	2.483	1.514	6.9	18.8	10 E	1*	3*
10 28	14 43.20	−12 30.8	2.538	1.560	5.2	18.8	8 E	—	1*
11 7	15 11.78	−15 6.6	2.595	1.611	3.4	18.8	6 E	—	—
11 17	15 39.95	−17 22.0	2.652	1.666	1.7	18.8	3 E	—	—
11 27	16 7.64	−19 16.7	2.708	1.723	1.2	18.9	2 W	—	—
12 7	16 34.77	−20 50.9	2.761	1.782	2.8	19.2	5 W	—	—
12 17	17 1.23	−22 5.4	2.809	1.843	4.7	19.4	9 W	1*	1*
12 27	17 26.92	−23 1.5	2.850	1.905	6.7	19.6	13 W	3*	5*
1 6	17 51.72	−23 40.8	2.883	1.968	8.6	19.8	17 W	4*	10*
1 16	18 15.54	−24 5.3	2.907	2.031	10.6	19.9	22 W	6*	15*
		194515 2001 XV_6							
12 23	3 25.78	+16 0.7	1.701	2.553	13.6	19.5	143 E	61	48
1 2	3 17.95	+16 55.3	1.764	2.519	17.2	19.6	131 E	62	47
1 12	3 13.39	+17 56.2	1.844	2.484	20.1	19.8	120 E	63	46
1 22	3 12.17	+19 3.2	1.936	2.449	22.2	19.9	110 E	64	45*
2 1	3 14.17	+20 15.6	2.034	2.413	23.7	20.1	100 E	65	42*
2 11	3 19.12	+21 32.5	2.135	2.376	24.5	20.2	92 E	67	39*
2 21	3 26.73	+22 52.7	2.234	2.339	24.8	20.2	84 E	67*	36*
3 2	3 36.76	+24 14.9	2.329	2.301	24.7	20.3	76 E	64*	32*
3 12	3 48.95	+25 37.5	2.417	2.263	24.2	20.3	69 E	59*	29*
3 22	4 3.12	+26 59.0	2.498	2.224	23.5	20.3	63 E	54*	26*
4 1	4 19.15	+28 17.9	2.570	2.186	22.4	20.3	57 E	48*	23*
4 11	4 36.90	+29 32.3	2.631	2.146	21.3	20.3	51 E	43*	21*
4 21	4 56.28	+30 40.6	2.683	2.107	20.0	20.3	46 E	37*	18*
5 1	5 17.22	+31 40.8	2.724	2.068	18.5	20.2	41 E	32*	16*
5 11	5 39.63	+32 31.1	2.755	2.029	17.1	20.1	36 E	28*	14*
5 21	6 3.42	+33 9.5	2.776	1.990	15.6	20.1	32 E	24*	12*
5 31	6 28.49	+33 34.0	2.787	1.952	14.2	20.0	28 E	20*	10*
6 10	6 54.68	+33 42.8	2.790	1.914	12.8	19.9	25 E	17*	7*
6 20	7 21.84	+33 34.2	2.785	1.878	11.5	19.8	22 E	14*	5*
6 30	7 49.80	+33 6.7	2.774	1.842	10.3	19.7	19 E	12*	3*
7 10	8 18.31	+32 19.3	2.757	1.807	9.4	19.6	17 E	10*	1*
7 20	8 47.20	+31 11.2	2.735	1.774	8.6	19.5	15 E	9*	—
7 30	9 16.25	+29 42.6	2.709	1.743	8.2	19.4	14 E	8*	—
8 9	9 45.26	+27 53.7	2.682	1.714	8.1	19.4	14 E	8*	—
8 19	10 14.12	+25 45.6	2.653	1.687	8.2	19.3	14 E	7*	—
8 29	10 42.69	+23 20.0	2.623	1.663	8.6	19.3	14 E	6*	—
9 8	11 10.91	+20 38.8	2.595	1.642	9.1	19.3	15 E	6*	—
9 18	11 38.76	+17 44.7	2.567	1.624	9.8	19.2	16 W	6*	—
9 28	12 6.22	+14 40.5	2.541	1.609	10.5	19.2	17 W	8*	—
10 8	12 33.33	+11 29.4	2.517	1.598	11.2	19.2	18 W	10*	—
10 18	13 0.13	+ 8 14.5	2.495	1.591	12.1	19.2	20 W	12*	—
10 28	13 26.66	+ 4 59.1	2.474	1.587	13.0	19.2	21 W	14*	—
11 7	13 52.97	+ 1 46.3	2.454	1.587	14.0	19.3	23 W	17*	—
11 17	14 19.11	− 1 21.2	2.435	1.591	15.0	19.3	25 W	19*	1*
11 27	14 45.10	− 4 20.5	2.415	1.599	16.2	19.3	27 W	20*	5*
12 7	15 10.95	− 7 9.8	2.395	1.611	17.5	19.3	29 W	22*	9*
12 17	15 36.67	− 9 47.4	2.372	1.626	18.8	19.4	32 W	23*	14*
12 27	16 2.20	−12 12.1	2.346	1.645	20.2	19.4	35 W	23*	19*
1 6	16 27.49	−14 23.2	2.316	1.666	21.7	19.5	39 W	23*	25*
1 16	16 52.48	−16 20.9	2.282	1.691	23.1	19.5	42 W	22*	31*