20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
213812 2003 *NE*									
	h m	° ′			°	m	°	°	°
12 27	9 52.17	+15 8.0	1.871	2.617	16.6	21.2	130 W	60	49
1 6	9 47.41	+16 4.1	1.798	2.643	13.3	21.1	142 W	61	48
1 16	9 39.88	+17 13.3	1.747	2.667	9.3	20.9	154 W	62	47
1 26	9 30.18	+18 29.7	1.723	2.690	4.9	20.6	167 W	63	46
2 5	9 19.29	+19 45.6	1.727	2.712	1.4	20.4	176 W	65	44
2 10	9 13.76	+20 21.1	1.741	2.723	2.8	20.6	172 E	65	44
2 15	9 8.38	+20 53.8	1.763	2.733	4.9	20.7	166 E	66	43
2 20	9 3.32	+21 23.1	1.792	2.743	7.0	20.9	160 E	66	43
2 25	8 58.69	+21 48.6	1.828	2.753	9.0	21.0	154 E	67	42
3 2	8 54.61	+22 10.1	1.870	2.762	10.9	21.1	148 E	67	42
3 7	8 51.14	+22 27.7	1.918	2.771	12.6	21.3	142 E	67	42
3 12	8 48.35	+22 41.3	1.971	2.780	14.2	21.4	137 E	68	41
30775 Lattu									
12 27	9 52.30	+29 10.7	1.987	2.755	15.1	20.5	133 W	74	35
1 1	9 49.07	+29 32.8	1.964	2.779	13.5	20.5	139 W	75	34
1 6	9 45.10	+29 55.3	1.947	2.803	11.9	20.4	144 W	75	34
1 11	9 40.44	+30 17.4	1.935	2.827	10.2	20.3	150 W	75	34
1 16	9 35.20	+30 38.0	1.929	2.850	8.5	20.3	155 W	76	33
1 21	9 29.50	+30 56.2	1.931	2.873	6.9	20.2	159 W	76	33
1 26	9 23.48	+31 11.1	1.940	2.896	5.6	20.2	163 W	76	33
1 31	9 17.31	+31 22.2	1.956	2.919	5.0	20.2	165 W	76	33
2 5	9 11.15	+31 29.0	1.979	2.941	5.1	20.3	165 E	76	33
2 10	9 5.15	+31 31.2	2.011	2.964	6.0	20.3	162 E	77	32
2 15	8 59.48	+31 28.8	2.049	2.986	7.3	20.5	157 E	76	33
2 20	8 54.25	+31 22.0	2.095	3.008	8.7	20.6	153 E	76	33
2 25	8 49.59	+31 11.0	2.147	3.029	10.1	20.7	148 E	76	33
3 2	8 45.56	+30 56.4	2.205	3.051	11.4	20.8	142 E	76	33
3 7	8 42.20	+30 38.6	2.269	3.072	12.7	21.0	137 E	76	33
3 12	8 39.55	+30 18.2	2.338	3.093	13.8	21.1	132 E	75	34
3 17	8 37.60	+29 55.4	2.412	3.113	14.8	21.2	127 E	75	34
3 22	8 36.36	+29 30.8	2.490	3.134	15.6	21.3	122 E	75	34
3 27	8 35.78	+29 4.7	2.571	3.154	16.3	21.4	117 E	74	35
42501 1992 *YC*									
12 27	9 52.37	−15 2.8	1.593	2.210	23.5	18.7	116 W	30	79
1 1	9 50.11	−16 17.4	1.563	2.226	22.4	18.7	120 W	29	80
1 6	9 47.01	−17 26.0	1.537	2.243	21.3	18.6	124 W	28	81
1 11	9 43.11	−18 27.3	1.515	2.259	20.0	18.6	128 W	27	82
1 16	9 38.47	−19 20.2	1.497	2.275	18.8	18.5	132 W	26	83
1 21	9 33.21	−20 3.6	1.484	2.291	17.6	18.5	135 W	25	84
1 26	9 27.45	−20 36.9	1.476	2.307	16.4	18.4	138 W	24	85
1 31	9 21.36	−20 59.4	1.473	2.323	15.5	18.4	141 W	24	85
2 5	9 15.11	−21 11.0	1.476	2.338	14.8	18.4	143 W	24	85
2 10	9 8.88	−21 11.8	1.484	2.354	14.3	18.4	144 E	24	85
2 15	9 2.88	−21 2.3	1.498	2.369	14.2	18.5	144 E	24	85
2 20	8 57.28	−20 43.6	1.518	2.385	14.4	18.5	143 E	24	85
2 25	8 52.23	−20 16.9	1.544	2.400	14.8	18.6	142 E	25	84
3 2	8 47.85	−19 43.7	1.575	2.415	15.5	18.7	139 E	25	84
3 7	8 44.21	−19 5.5	1.611	2.429	16.3	18.7	137 E	26	83
3 12	8 41.36	−18 23.6	1.651	2.444	17.2	18.8	133 E	27	82
3 17	8 39.35	−17 39.6	1.696	2.458	18.0	18.9	130 E	27	82
3 22	8 38.16	−16 54.8	1.746	2.473	18.9	19.0	127 E	28	81
3 27	8 37.77	−16 10.2	1.798	2.487	19.7	19.1	123 E	29	80
4 1	8 38.14	−15 26.8	1.854	2.500	20.4	19.2	119 E	30	79
4 6	8 39.24	−14 45.3	1.913	2.514	21.0	19.3	116 E	30	79
4 16	8 43.39	−13 30.1	2.038	2.541	22.0	19.5	109 E	31*	78
4 26	8 49.84	−12 28.0	2.169	2.567	22.6	19.7	102 E	31*	76
5 6	8 58.16	−11 40.2	2.305	2.592	22.8	19.9	95 E	29*	76
5 16	9 8.02	−11 7.1	2.443	2.616	22.7	20.0	88 E	25*	75*
5 26	9 19.11	−10 48.6	2.582	2.640	22.3	20.1	82 E	21*	72*
6 5	9 31.18	−10 43.8	2.719	2.663	21.7	20.3	76 E	15*	69*
6 15	9 44.04	−10 51.9	2.853	2.684	20.9	20.3	70 E	10*	64*
6 25	9 57.50	−11 12.0	2.982	2.705	19.8	20.4	65 E	5*	59*
7 5	10 11.45	−11 42.8	3.106	2.725	18.6	20.5	59 E	1*	53*
7 15	10 25.79	−12 23.3	3.224	2.744	17.3	20.5	54 E	—	47*
7 25	10 40.42	−13 12.4	3.333	2.762	15.9	20.6	48 E	—	40*
8 4	10 55.29	−14 9.2	3.433	2.780	14.4	20.6	43 E	—	34*
8 14	11 10.36	−15 12.6	3.524	2.796	12.9	20.6	38 E	—	28*
8 24	11 25.59	−16 21.6	3.603	2.811	11.3	20.6	33 E	—	22*
9 3	11 40.94	−17 35.4	3.671	2.826	9.8	20.6	28 E	—	17*
9 13	11 56.41	−18 53.0	3.727	2.839	8.3	20.6	24 E	—	11*
9 23	12 11.96	−20 13.6	3.770	2.852	7.1	20.6	20 E	—	6*
10 3	12 27.59	−21 36.2	3.799	2.863	6.2	20.6	18 W	—	4*
10 13	12 43.27	−23 0.3	3.814	2.874	5.8	20.6	17 W	—	7*
10 23	12 58.98	−24 24.9	3.815	2.883	6.1	20.6	18 W	—	11*
11 2	13 14.69	−25 49.4	3.800	2.892	6.9	20.6	21 W	—	14*
11 12	13 30.36	−27 13.0	3.771	2.900	8.1	20.7	25 W	2*	19*
11 22	13 45.93	−28 35.0	3.727	2.907	9.6	20.7	29 W	5*	23*
12 2	14 1.36	−29 55.0	3.668	2.912	11.1	20.7	35 W	7*	28*
12 12	14 16.53	−31 12.3	3.595	2.917	12.7	20.8	40 W	9*	34*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
42501 1992 *YC* *(continuation)*									
	h m	° ′			°	m	°	°	°
12 22	14 31.35	−32 26.5	3.509	2.921	14.1	20.8	47 W	10*	40*
1 1	14 45.69	−33 37.4	3.410	2.924	15.6	20.7	53 W	10*	47*
1 11	14 59.37	−34 44.4	3.299	2.926	16.8	20.7	60 W	10*	53*
1 21	15 12.20	−35 47.5	3.178	2.927	17.9	20.7	66 W	9*	60*
334346 2001 YA_4									
12 27	9 52.78	+18 27.5	1.448	2.222	19.5	20.0	131 W	63	46
1 6	9 44.71	+17 48.7	1.398	2.262	15.2	19.8	143 W	63	46
1 16	9 33.36	+17 16.1	1.369	2.301	10.2	19.6	156 W	62	47
1 26	9 19.83	+16 46.3	1.367	2.340	4.7	19.4	169 W	62	47
1 31	9 12.73	+16 31.5	1.377	2.360	1.9	19.3	175 W	62	47
2 5	9 5.69	+16 16.4	1.394	2.379	0.9	19.2	178 E	61	48
2 10	8 58.90	+16 0.9	1.418	2.398	3.6	19.5	171 E	61	48
2 15	8 52.57	+15 44.8	1.450	2.417	6.1	19.7	165 E	61	48
2 25	8 41.87	+15 11.1	1.534	2.455	10.8	20.1	152 E	60	49
3 7	8 34.33	+14 35.6	1.643	2.492	14.6	20.4	141 E	60	49
3 17	8 30.16	+13 58.7	1.772	2.528	17.6	20.7	130 E	59	50
3 27	8 29.22	+13 20.2	1.915	2.563	19.7	20.9	120 E	58	51
4 6	8 31.10	+12 39.6	2.070	2.598	21.1	21.2	111 E	58	51
4 16	8 35.38	+11 56.5	2.232	2.632	21.9	21.4	102 E	57*	52
10165 1995 BL_2									
12 27	9 53.07	+23 38.7	1.045	1.855	23.1	19.8	132 W	69	40
1 1	9 46.15	+23 37.8	1.000	1.856	20.4	19.7	139 W	69	40
1 6	9 37.51	+23 37.6	0.960	1.857	17.4	19.5	146 W	69	40
1 11	9 27.19	+23 36.6	0.926	1.856	14.0	19.3	153 W	69	40
1 16	9 15.33	+23 32.9	0.898	1.855	10.3	19.1	160 W	69	40
1 21	9 2.21	+23 24.6	0.878	1.852	6.4	18.8	168 W	68	41
1 26	8 48.27	+23 10.2	0.866	1.848	3.0	18.6	174 W	68	41
1 31	8 34.01	+22 48.8	0.861	1.843	3.8	18.7	173 E	68	41
2 5	8 19.98	+22 20.4	0.865	1.837	7.6	18.9	166 E	67	42
2 10	8 6.70	+21 45.7	0.877	1.830	11.7	19.0	158 E	67	42
2 15	7 54.63	+21 6.2	0.896	1.821	15.6	19.2	150 E	66	43
2 20	7 44.08	+20 23.5	0.922	1.812	19.2	19.4	143 E	65	44
2 25	7 35.22	+19 39.3	0.953	1.802	22.4	19.6	136 E	65	44
3 2	7 28.10	+18 54.9	0.989	1.790	25.3	19.7	129 E	64	45
3 7	7 22.67	+18 11.2	1.028	1.777	27.8	19.8	123 E	63	46
3 17	7 16.53	+16 48.0	1.114	1.749	31.9	20.1	112 E	62	47
3 27	7 15.81	+15 30.5	1.203	1.715	34.7	20.3	102 E	61	48
4 6	7 19.42	+14 17.1	1.291	1.677	36.6	20.5	93 E	58*	50
4 16	7 26.49	+13 4.8	1.373	1.635	37.7	20.6	85 E	53*	51*
4 26	7 36.33	+11 50.8	1.447	1.587	38.4	20.6	78 E	47*	51*
5 6	7 48.40	+10 32.3	1.510	1.535	38.7	20.7	72 E	40*	51*
5 16	8 2.36	+ 9 7.1	1.559	1.477	38.8	20.7	66 E	33*	50*
5 26	8 17.98	+ 7 32.8	1.594	1.414	38.8	20.6	61 E	26*	49*
6 5	8 35.08	+ 5 48.0	1.612	1.347	38.8	20.5	56 E	19*	47*
6 15	8 53.67	+ 3 50.9	1.614	1.274	39.0	20.4	52 E	13*	45*
6 25	9 13.77	+ 1 40.3	1.597	1.196	39.5	20.3	48 E	7*	42*
7 5	9 35.54	− 0 44.5	1.560	1.113	40.5	20.1	45 E	3*	39*
7 15	9 59.30	− 3 23.8	1.504	1.026	42.3	19.9	43 E	—	37*
7 25	10 25.46	− 6 15.8	1.428	0.937	45.2	19.7	41 E	—	34*
7 30	10 39.64	− 7 45.2	1.381	0.892	47.2	19.5	40 E	—	33*
8 4	10 54.69	− 9 15.4	1.330	0.847	49.7	19.4	40 E	—	32*
8 9	11 10.71	−10 44.8	1.273	0.803	52.8	19.3	39 E	—	31*
8 14	11 27.82	−12 10.6	1.211	0.761	56.5	19.2	39 E	—	31*
8 19	11 46.14	−13 29.2	1.143	0.721	60.9	19.1	39 E	—	31*
8 24	12 5.73	−14 35.3	1.071	0.686	66.1	19.0	38 E	—	31*
8 29	12 26.63	−15 21.9	0.995	0.656	72.1	18.9	38 E	—	31*
9 3	12 48.78	−15 40.3	0.917	0.633	78.9	18.9	38 E	—	31*
9 5	12 57.95	−15 37.4	0.885	0.626	81.8	18.9	38 E	—	31*
9 7	13 7.27	−15 27.7	0.854	0.620	84.7	18.9	38 E	—	31*
9 9	13 16.72	−15 10.4	0.822	0.616	87.7	18.9	38 E	1*	31*
9 11	13 26.26	−14 44.8	0.791	0.614	90.7	18.9	38 E	3*	31*
9 13	13 35.88	−14 10.4	0.760	0.613	93.7	19.0	37 E	4*	31*
9 15	13 45.53	−13 26.4	0.729	0.613	96.6	19.0	37 E	5*	31*
9 17	13 55.20	−12 32.4	0.700	0.615	99.5	19.1	37 E	7*	31*
9 19	14 4.85	−11 28.0	0.672	0.619	102.1	19.1	37 E	9*	31*
9 21	14 14.45	−10 12.8	0.644	0.625	104.6	19.2	37 E	10*	31*
9 23	14 23.99	− 8 46.8	0.618	0.631	106.9	19.2	37 E	12*	30*
9 28	14 47.46	− 4 24.9	0.559	0.654	111.1	19.4	37 E	18*	29*
10 3	15 10.33	+ 0 59.0	0.511	0.684	113.1	19.4	39 E	24*	26*
10 8	15 32.72	+ 7 12.9	0.473	0.719	112.4	19.3	42 E	31*	23*
10 13	15 54.97	+13 59.1	0.445	0.758	109.3	19.1	46 E	38*	19*
10 15	16 3.94	+16 46.1	0.437	0.774	107.5	19.0	48 E	40*	18*
10 17	16 12.99	+19 33.7	0.430	0.791	105.5	18.9	50 E	43*	16*
10 19	16 22.18	+22 20.5	0.425	0.809	103.3	18.8	52 E	46*	15*
10 21	16 31.55	+25 5.5	0.420	0.826	101.0	18.7	55 E	48*	13*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
10165 1995 BL_2									*(continuation)*
	h m	° ′			°	m	°	°	°
10 23	16 41.14	+27 47.6	0.417	0.844	98.5	18.6	57 E	51*	11*
10 25	16 51.01	+30 25.8	0.415	0.862	95.9	18.5	60 E	53*	10*
10 27	17 1.20	+32 59.2	0.414	0.879	93.4	18.4	62 E	56*	8*
10 29	17 11.77	+35 27.3	0.414	0.897	90.7	18.4	65 E	58*	7*
10 31	17 22.77	+37 49.3	0.415	0.916	88.1	18.3	67 E	60*	6*
11 2	17 34.25	+40 4.8	0.417	0.934	85.5	18.3	70 E	62*	5*
11 4	17 46.26	+42 13.4	0.419	0.952	83.0	18.2	72 E	64*	4*
11 6	17 58.84	+44 14.6	0.422	0.970	80.5	18.2	75 E	66*	3*
11 8	18 12.03	+46 8.1	0.426	0.988	78.0	18.1	77 E	68*	2*
11 10	18 25.85	+47 53.6	0.430	1.005	75.6	18.1	80 E	69*	1*
11 12	18 40.32	+49 30.7	0.435	1.023	73.3	18.1	82 E	71*	1*
11 17	19 19.26	+52 54.9	0.450	1.067	67.8	18.1	87 E	74*	—
11 22	20 1.64	+55 20.8	0.469	1.110	62.8	18.1	92 E	76*	—
11 27	20 46.06	+56 47.4	0.491	1.152	58.3	18.2	97 E	77*	1*
12 2	21 30.52	+57 17.8	0.516	1.193	54.4	18.2	100 E	78*	2*
12 4	21 47.85	+57 15.9	0.528	1.209	53.0	18.3	102 E	78	2*
12 6	22 4.74	+57 6.9	0.540	1.225	51.7	18.3	103 E	78	3*
12 8	22 21.11	+56 51.6	0.552	1.240	50.4	18.4	104 E	78	4*
12 10	22 36.89	+56 30.6	0.566	1.256	49.3	18.4	105 E	78	4*
12 12	22 52.03	+56 4.9	0.580	1.271	48.2	18.4	106 E	79	5*
12 14	23 6.51	+55 35.0	0.594	1.286	47.2	18.5	106 E	79	6*
12 16	23 20.33	+55 1.8	0.609	1.301	46.3	18.6	107 E	80	7*
12 18	23 33.48	+54 25.8	0.625	1.315	45.5	18.6	108 E	81	7*
12 20	23 45.99	+53 47.6	0.642	1.330	44.7	18.7	108 E	81	8*
12 22	23 57.89	+53 7.8	0.659	1.344	44.0	18.7	108 E	82	9*
12 24	0 9.21	+52 26.8	0.676	1.358	43.4	18.8	108 E	83	10*
12 26	0 19.98	+51 45.0	0.694	1.372	42.8	18.9	108 E	83	10*
12 28	0 30.24	+51 2.9	0.713	1.385	42.3	18.9	108 E	84	11*
12 30	0 40.03	+50 20.6	0.733	1.399	41.9	19.0	108 E	85	12*
1 1	0 49.39	+49 38.6	0.753	1.412	41.4	19.1	108 E	85	13*
1 3	0 58.34	+48 57.0	0.773	1.425	41.1	19.1	108 E	86	13*
1 5	1 6.92	+48 16.0	0.794	1.438	40.7	19.2	107 E	87	14*
1 7	1 15.17	+47 35.8	0.816	1.450	40.4	19.3	107 E	87	15*
1 9	1 23.10	+46 56.5	0.838	1.463	40.1	19.3	107 E	88	15*
1 11	1 30.75	+46 18.2	0.860	1.475	39.9	19.4	106 E	89	16*
1 13	1 38.13	+45 40.9	0.884	1.487	39.6	19.5	105 E	89	16*
1 15	1 45.27	+45 4.7	0.907	1.498	39.4	19.5	105 E	90	17*
1 17	1 52.19	+44 29.5	0.931	1.510	39.2	19.6	104 E	89	17*
1 19	1 58.90	+43 55.5	0.955	1.521	39.0	19.7	103 E	89	18*
1 21	2 5.43	+43 22.6	0.980	1.532	38.8	19.7	103 E	88	18*
141053 2001 XT_1									
12 27	9 53.63	+14 39.1	0.806	1.622	27.7	20.5	130 W	60	49
1 1	9 45.41	+15 13.9	0.799	1.659	23.8	20.4	137 W	60	49
1 6	9 35.87	+15 53.2	0.796	1.696	19.7	20.3	144 W	61	48
1 11	9 25.24	+16 35.1	0.799	1.731	15.4	20.2	152 W	62	47
1 16	9 13.84	+17 17.6	0.808	1.765	10.9	20.2	160 W	62	47
1 21	9 2.09	+17 58.6	0.824	1.798	6.5	20.0	168 W	63	46
1 26	8 50.44	+18 36.2	0.847	1.830	2.2	19.9	176 W	64	45
1 31	8 39.30	+19 9.0	0.877	1.861	2.0	20.0	176 E	64	45
2 5	8 29.04	+19 36.5	0.915	1.892	5.9	20.4	169 E	65	44
2 10	8 19.91	+19 58.4	0.960	1.921	9.4	20.7	161 E	65	44
2 15	8 12.09	+20 15.1	1.011	1.949	12.6	20.9	155 E	65	44
2 20	8 5.69	+20 27.0	1.067	1.976	15.4	21.2	148 E	65	44
2 25	8 0.70	+20 34.7	1.129	2.003	17.8	21.4	142 E	66	43
302578 2002 PC_{110}									
12 27	9 54.88	+23 51.5	1.237	2.030	21.1	19.5	132 W	69	40
1 6	9 47.38	+23 46.2	1.208	2.081	16.4	19.4	143 W	69	40
1 16	9 36.23	+23 43.8	1.198	2.133	11.0	19.2	156 W	69	40
1 26	9 22.80	+23 36.9	1.212	2.184	5.6	19.1	168 W	69	40
1 31	9 15.79	+23 30.0	1.230	2.210	3.5	19.0	172 W	68	41
2 5	9 8.89	+23 20.2	1.254	2.235	3.3	19.1	173 E	68	41
2 10	9 2.34	+23 7.5	1.285	2.261	5.0	19.2	169 E	68	41
2 15	8 56.33	+22 51.8	1.324	2.286	7.3	19.4	163 E	68	41
2 20	8 51.02	+22 33.5	1.368	2.312	9.5	19.6	157 E	68	41
2 25	8 46.51	+22 12.9	1.419	2.337	11.7	19.8	151 E	67	42
3 7	8 40.11	+21 26.4	1.538	2.388	15.4	20.2	140 E	66	43
3 17	8 37.19	+20 35.1	1.676	2.438	18.2	20.5	130 E	66	43
3 27	8 37.50	+19 40.6	1.828	2.487	20.2	20.8	120 E	65	44
4 6	8 40.55	+18 43.8	1.992	2.536	21.5	21.1	112 E	64	45
4 16	8 45.86	+17 44.9	2.163	2.584	22.2	21.3	103 E	63*	46
27234 1999 RC_2									
12 27	9 55.80	+42 44.7	1.012	1.825	23.5	18.4	132 W	88	21
1 1	9 49.32	+42 58.0	0.981	1.830	21.4	18.3	137 W	88	21
1 6	9 41.01	+43 6.7	0.955	1.834	19.2	18.2	142 W	88	21
1 11	9 30.99	+43 8.1	0.933	1.838	16.9	18.1	147 W	88	21
1 16	9 19.53	+42 58.9	0.917	1.841	14.9	18.0	151 W	88	21

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
27234 1999 RC_2									*(continuation)*
	h m	° ′			°	m	°	°	°
1 21	9 7.05	+42 36.6	0.907	1.845	13.2	17.9	155 W	88	21
1 26	8 54.10	+41 59.5	0.903	1.847	12.3	17.8	156 W	87	22
1 31	8 41.25	+41 7.4	0.906	1.850	12.4	17.9	156 E	86	23
2 5	8 29.06	+40 1.2	0.915	1.852	13.5	17.9	154 E	85	24
2 10	8 17.97	+38 43.1	0.931	1.854	15.2	18.0	150 E	84	25
2 15	8 8.35	+37 16.0	0.953	1.856	17.3	18.2	146 E	82	27
2 20	8 0.39	+35 42.9	0.981	1.858	19.5	18.3	141 E	81	28
2 25	7 54.15	+34 6.9	1.014	1.859	21.7	18.4	136 E	79	30
3 2	7 49.58	+32 30.4	1.052	1.859	23.7	18.6	131 E	78	31
3 7	7 46.59	+30 55.1	1.094	1.860	25.6	18.7	126 E	76	33
3 12	7 45.05	+29 22.3	1.139	1.860	27.2	18.8	121 E	74	35
3 17	7 44.81	+27 52.6	1.187	1.860	28.6	19.0	117 E	73	36
3 22	7 45.75	+26 26.4	1.238	1.859	29.7	19.1	112 E	71	38
3 27	7 47.71	+25 3.7	1.290	1.858	30.7	19.2	108 E	70	39
4 1	7 50.56	+23 44.2	1.343	1.857	31.5	19.3	104 E	69	40
4 6	7 54.19	+22 27.6	1.397	1.856	32.1	19.4	100 E	67*	42
4 16	8 3.43	+20 1.8	1.507	1.852	32.8	19.6	93 E	63*	44
4 26	8 14.77	+17 42.9	1.616	1.847	32.9	19.8	86 E	57*	46
5 6	8 27.72	+15 27.9	1.723	1.840	32.7	19.9	80 E	50*	48*
5 16	8 41.92	+13 14.3	1.825	1.833	32.1	20.0	74 E	42*	50*
5 26	8 57.12	+10 59.8	1.923	1.824	31.2	20.1	69 E	35*	50*
6 5	9 13.11	+ 8 43.0	2.014	1.814	30.2	20.1	64 E	27*	50*
6 15	9 29.78	+ 6 22.7	2.098	1.803	28.9	20.2	59 E	21*	49*
6 25	9 47.04	+ 3 58.0	2.174	1.791	27.6	20.2	55 E	15*	47*
7 5	10 4.84	+ 1 28.6	2.242	1.777	26.2	20.2	50 E	9*	44*
7 15	10 23.19	− 1 6.0	2.302	1.763	24.7	20.2	46 E	5*	40*
7 25	10 42.09	− 3 45.7	2.353	1.748	23.2	20.2	43 E	1*	37*
8 4	11 1.59	− 6 30.3	2.397	1.732	21.7	20.1	39 E	—	33*
8 14	11 21.77	− 9 19.3	2.432	1.715	20.2	20.1	36 E	—	28*
8 24	11 42.71	−12 12.0	2.459	1.697	18.7	20.1	33 E	—	25*
9 3	12 4.55	−15 7.3	2.479	1.678	17.3	20.0	30 E	—	21*
9 13	12 27.43	−18 3.8	2.492	1.659	16.0	19.9	27 E	—	18*
9 23	12 51.50	−20 59.6	2.499	1.640	14.7	19.9	25 E	—	14*
10 3	13 16.96	−23 52.3	2.500	1.620	13.6	19.8	22 E	—	12*
10 13	13 44.01	−26 38.9	2.496	1.600	12.6	19.8	20 E	—	9*
10 23	14 12.81	−29 15.7	2.489	1.579	11.7	19.7	19 E	—	7*
11 2	14 43.52	−31 38.4	2.478	1.559	10.9	19.6	17 E	—	5*
11 12	15 16.22	−33 42.0	2.465	1.539	10.3	19.6	16 E	—	4*
11 17	15 33.30	−34 35.0	2.457	1.529	10.1	19.5	16 E	—	3*
11 22	15 50.83	−35 21.2	2.450	1.519	9.9	19.5	15 E	—	2*
11 27	16 8.80	−35 59.9	2.442	1.510	9.7	19.5	15 W	—	2*
12 2	16 27.15	−36 30.7	2.433	1.500	9.6	19.4	15 W	—	3*
12 7	16 45.84	−36 52.8	2.425	1.491	9.5	19.4	14 W	—	3*
12 12	17 4.77	−37 5.8	2.416	1.482	9.4	19.4	14 W	—	3*
12 17	17 23.88	−37 9.4	2.407	1.473	9.4	19.4	14 W	—	4*
12 22	17 43.08	−37 3.1	2.399	1.464	9.4	19.4	14 W	—	4*
12 27	18 2.29	−36 47.0	2.390	1.456	9.5	19.3	14 W	—	5*
1 1	18 21.42	−36 20.9	2.381	1.448	9.6	19.3	14 W	—	5*
1 6	18 40.38	−35 45.0	2.372	1.440	9.8	19.3	14 W	—	6*
1 11	18 59.09	−34 59.4	2.363	1.433	10.0	19.3	15 W	—	6*
1 16	19 17.49	−34 4.6	2.354	1.426	10.2	19.3	15 W	—	7*
1 21	19 35.52	−33 0.9	2.345	1.419	10.5	19.3	15 W	—	7*
40719 1999 SZ_2									
12 27	9 56.28	+17 50.9	2.026	2.764	15.8	20.2	130 W	63	46
1 6	9 51.60	+18 20.8	1.936	2.774	12.8	20.0	141 W	63	46
1 16	9 44.19	+19 0.3	1.869	2.783	9.1	19.8	153 W	64	45
1 26	9 34.55	+19 44.5	1.827	2.791	5.1	19.6	166 W	65	44
1 31	9 29.16	+20 6.5	1.817	2.795	3.1	19.4	171 W	65	44
2 5	9 23.56	+20 27.5	1.815	2.798	1.7	19.3	175 W	65	44
2 10	9 17.91	+20 46.7	1.820	2.801	2.6	19.4	173 E	66	43
2 15	9 12.35	+21 3.5	1.833	2.804	4.5	19.5	167 E	66	43
2 20	9 7.04	+21 17.5	1.853	2.807	6.6	19.7	161 E	66	43
2 25	9 2.13	+21 28.4	1.880	2.809	8.5	19.8	155 E	66	43
3 7	8 53.88	+21 40.6	1.954	2.813	12.2	20.0	143 E	67	42
3 17	8 48.21	+21 40.2	2.050	2.816	15.2	20.2	132 E	67	42
3 27	8 45.38	+21 28.6	2.163	2.818	17.5	20.4	122 E	66	43
4 6	8 45.32	+21 7.4	2.288	2.819	19.2	20.6	112 E	66	43
4 16	8 47.80	+20 37.8	2.421	2.819	20.3	20.8	103 E	66*	43
4 26	8 52.52	+20 0.9	2.558	2.818	20.9	20.9	94 E	63*	44
5 6	8 59.11	+19 17.4	2.695	2.816	20.9	21.0	86 E	57*	45
5 16	9 7.28	+18 27.7	2.830	2.813	20.6	21.1	79 E	50*	45*
5 26	9 16.75	+17 32.0	2.961	2.809	20.0	21.2	72 E	43*	45*
6 5	9 27.27	+16 30.6	3.085	2.804	19.1	21.3	65 E	35*	44*
6 15	9 38.65	+15 23.8	3.200	2.798	17.9	21.3	58 E	28*	43*
6 25	9 50.72	+14 11.7	3.306	2.791	16.6	21.3	52 E	22*	40*
7 5	10 3.35	+12 54.6	3.401	2.784	15.1	21.3	45 E	17*	36*
7 15	10 16.44	+11 32.8	3.484	2.775	13.4	21.3	39 E	12*	31*
7 25	10 29.90	+10 6.6	3.555	2.765	11.7	21.3	33 E	9*	26*

40719 1999 SZ_2 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 4	10 43.65	+ 8 36.5	3.613	2.754	9.8	21.2	28 E	5*	21*
8 14	10 57.67	+ 7 2.6	3.657	2.742	7.9	21.2	22 E	3*	16*
8 24	11 11.90	+ 5 25.7	3.686	2.729	5.9	21.1	16 E	—	10*
9 3	11 26.32	+ 3 46.0	3.702	2.715	3.8	21.0	10 E	—	4*
9 13	11 40.91	+ 2 4.0	3.702	2.700	1.7	20.8	5 E	—	—
9 23	11 55.64	+ 0 20.4	3.688	2.685	0.4	20.7	1 W	—	—
10 3	12 10.51	− 1 24.4	3.659	2.668	2.5	20.8	7 W	—	—
10 13	12 25.51	− 3 9.8	3.616	2.650	4.7	20.9	12 W	5*	2*
10 23	12 40.62	− 4 55.2	3.558	2.632	6.8	21.0	18 W	10*	6*
11 2	12 55.83	− 6 40.0	3.487	2.612	8.9	21.0	24 W	15*	11*
11 12	13 11.12	− 8 23.6	3.402	2.592	11.0	21.0	30 W	19*	16*
11 22	13 26.45	−10 5.3	3.305	2.571	13.0	21.0	36 W	23*	21*
12 2	13 41.80	−11 44.6	3.196	2.548	15.0	21.0	42 W	26*	26*
12 12	13 57.10	−13 20.8	3.076	2.525	16.8	20.9	48 W	27*	33*
12 22	14 12.30	−14 53.5	2.947	2.501	18.6	20.9	54 W	28*	40*
1 1	14 27.30	−16 22.1	2.809	2.477	20.2	20.8	60 W	28*	47*
1 11	14 41.99	−17 46.4	2.665	2.451	21.7	20.7	67 W	27*	55*
1 21	14 56.23	−19 5.8	2.514	2.425	22.9	20.6	73 W	26	63*

497006 2002 YE_{12}

12 27	9 56.38	+32 1.0	0.778	1.614	26.7	19.9	133 W	77	32
1 1	9 58.87	+35 59.3	0.756	1.617	24.7	19.8	136 W	81	28
1 6	10 0.12	+40 8.2	0.741	1.620	23.1	19.7	140 W	85	24
1 11	9 59.94	+44 21.0	0.733	1.624	22.0	19.6	142 W	89	20
1 16	9 58.12	+48 29.9	0.732	1.627	21.6	19.6	143 W	87	16
1 21	9 54.51	+52 26.4	0.739	1.631	21.8	19.7	142 W	83	12
1 26	9 49.04	+56 3.3	0.752	1.634	22.7	19.7	140 W	79	8
1 31	9 41.74	+59 14.8	0.771	1.638	24.1	19.8	137 W	76	5
2 5	9 32.84	+61 57.1	0.796	1.642	25.6	20.0	134 W	73	2
2 7	9 28.92	+62 53.5	0.808	1.643	26.3	20.0	132 W	72	1
2 9	9 24.84	+63 44.8	0.820	1.645	26.9	20.1	131 E	71	—
2 11	9 20.67	+64 31.3	0.832	1.647	27.5	20.1	130 E	70	—
2 13	9 16.44	+65 12.9	0.845	1.648	28.2	20.2	128 E	70	—
2 15	9 12.22	+65 49.7	0.859	1.650	28.8	20.2	126 E	69	—
2 17	9 8.06	+66 22.0	0.873	1.652	29.4	20.3	125 E	69	—
2 19	9 4.01	+66 50.0	0.888	1.653	29.9	20.3	123 E	68	—
2 21	9 0.14	+67 13.8	0.903	1.655	30.5	20.4	122 E	68	—
2 23	8 56.48	+67 33.7	0.918	1.657	31.0	20.4	121 E	67	—
2 25	8 53.08	+67 49.9	0.934	1.658	31.4	20.5	119 E	67	—
2 27	8 49.98	+68 2.8	0.950	1.660	31.9	20.5	118 E	67	—
3 1	8 47.21	+68 12.4	0.966	1.662	32.3	20.6	116 E	67	—
3 3	8 44.79	+68 19.2	0.982	1.663	32.7	20.6	115 E	67	—
3 5	8 42.75	+68 23.2	0.998	1.665	33.1	20.7	114 E	67	—
3 7	8 41.09	+68 24.7	1.015	1.667	33.4	20.7	112 E	67	—
3 12	8 38.67	+68 18.6	1.057	1.671	34.2	20.9	109 E	67	—
3 17	8 38.71	+68 0.6	1.099	1.676	34.8	21.0	106 E	67	—
3 22	8 41.02	+67 32.7	1.141	1.680	35.2	21.1	103 E	67	—
3 27	8 45.35	+66 56.6	1.183	1.685	35.6	21.2	101 E	68	—
4 1	8 51.38	+66 13.2	1.225	1.690	35.8	21.2	98 E	69	—
4 6	8 58.81	+65 23.3	1.266	1.694	36.0	21.3	96 E	70	—
4 11	9 7.39	+64 27.1	1.306	1.699	36.1	21.4	94 E	71	—
4 16	9 16.86	+63 25.1	1.345	1.703	36.1	21.5	92 E	72	1

1374 Isora

12 27	9 57.02	+11 34.1	1.749	2.479	18.2	17.4	128 W	57	52
1 6	9 52.25	+11 36.4	1.676	2.505	14.8	17.2	139 W	57	52
1 16	9 44.58	+11 52.7	1.623	2.531	10.7	17.0	151 W	57	52
1 26	9 34.63	+12 20.0	1.595	2.556	6.1	16.8	164 W	57	52
1 31	9 29.10	+12 36.3	1.592	2.568	3.7	16.7	170 W	58	51
2 5	9 23.41	+12 53.6	1.595	2.580	1.5	16.6	176 W	58	51
2 10	9 17.71	+13 11.1	1.606	2.592	1.6	16.6	176 E	58	51
2 15	9 12.17	+13 28.1	1.625	2.603	3.8	16.8	170 E	58	51
2 20	9 6.96	+13 44.2	1.651	2.614	6.1	17.0	164 E	59	50
2 25	9 2.20	+13 58.7	1.684	2.625	8.3	17.1	157 E	59	50
3 7	8 54.44	+14 22.0	1.768	2.647	12.2	17.4	146 E	59	50
3 17	8 49.43	+14 36.5	1.875	2.667	15.5	17.6	134 E	60	49
3 27	8 47.34	+14 41.4	1.999	2.687	17.9	17.9	124 E	60	49
4 6	8 48.02	+14 37.0	2.136	2.705	19.7	18.1	114 E	60	49
4 16	8 51.17	+14 23.8	2.281	2.723	20.8	18.3	105 E	59*	50
4 26	8 56.47	+14 2.2	2.431	2.740	21.4	18.5	97 E	57*	50
5 6	9 3.54	+13 32.6	2.583	2.756	21.5	18.6	89 E	53*	50
5 16	9 12.08	+12 55.4	2.734	2.771	21.2	18.7	81 E	46*	51*
5 26	9 21.80	+12 11.1	2.882	2.785	20.5	18.8	74 E	40*	51*
6 5	9 32.46	+11 20.1	3.024	2.797	19.6	18.9	68 E	33*	50*
6 15	9 43.88	+10 22.7	3.159	2.809	18.4	19.0	61 E	26*	48*
6 25	9 55.90	+ 9 19.5	3.286	2.820	17.1	19.0	55 E	20*	44*
7 5	10 8.38	+ 8 10.8	3.403	2.830	15.6	19.1	48 E	15*	40*
7 15	10 21.24	+ 6 57.2	3.509	2.839	13.9	19.1	42 E	10*	35*
7 25	10 34.38	+ 5 39.0	3.603	2.847	12.2	19.1	36 E	6*	30*

1374 Isora *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 4	10 47.74	+ 4 16.9	3.684	2.854	10.3	19.1	30 E	3*	24*
8 14	11 1.27	+ 2 51.3	3.752	2.861	8.4	19.0	24 E	—	18*
8 24	11 14.93	+ 1 22.8	3.806	2.866	6.5	19.0	19 E	—	13*
9 3	11 28.69	− 0 8.1	3.844	2.870	4.5	18.9	13 E	—	7*
9 13	11 42.53	− 1 40.9	3.868	2.873	2.6	18.8	7 E	—	1*
9 23	11 56.40	− 3 15.0	3.876	2.875	1.2	18.7	3 W	—	—
10 3	12 10.30	− 4 49.7	3.868	2.876	2.2	18.8	6 W	—	—
10 13	12 24.18	− 6 24.6	3.845	2.876	4.1	18.9	12 W	3*	4*
10 23	12 38.03	− 7 59.1	3.805	2.875	6.1	19.0	18 W	9*	8*
11 2	12 51.80	− 9 32.4	3.750	2.873	8.1	19.0	24 W	14*	13*
11 12	13 5.44	−11 4.2	3.680	2.870	10.1	19.1	30 W	18*	18*
11 22	13 18.90	−12 33.7	3.595	2.867	11.9	19.1	37 W	22*	23*
12 2	13 32.10	−14 0.5	3.497	2.862	13.7	19.1	43 W	25*	29*
12 12	13 44.95	−15 23.9	3.385	2.856	15.3	19.1	50 W	26*	36*
12 22	13 57.34	−16 43.5	3.262	2.849	16.8	19.0	57 W	27*	44*
1 1	14 9.12	−17 58.8	3.129	2.841	18.1	19.0	64 W	27*	52*
1 11	14 20.11	−19 9.2	2.988	2.832	19.2	18.9	71 W	26	60*
1 21	14 30.12	−20 14.4	2.840	2.823	20.0	18.8	79 W	25	69*

420591 2012 HF_{31}

12 27	9 57.50	+22 21.4	0.778	1.605	27.6	21.0	131 W	67	42
1 1	9 50.49	+22 35.9	0.767	1.634	23.9	20.9	138 W	68	41
1 6	9 42.01	+22 52.4	0.761	1.662	20.1	20.8	145 W	68	41
1 11	9 32.23	+23 9.1	0.759	1.690	16.0	20.7	152 W	68	41
1 16	9 21.48	+23 24.2	0.763	1.717	11.9	20.6	159 W	68	41
1 21	9 10.17	+23 35.7	0.773	1.744	7.8	20.5	166 W	69	40
1 26	8 58.75	+23 42.3	0.789	1.770	4.3	20.4	172 W	69	40
1 31	8 47.69	+23 43.3	0.812	1.795	3.5	20.5	174 E	69	40
2 5	8 37.38	+23 38.9	0.843	1.819	6.2	20.7	168 E	69	40
2 10	8 28.14	+23 29.4	0.879	1.843	9.5	21.0	162 E	68	41
2 15	8 20.19	+23 15.6	0.922	1.866	12.7	21.2	155 E	68	41
2 20	8 13.67	+22 58.5	0.970	1.888	15.6	21.5	149 E	68	41
2 25	8 8.60	+22 38.9	1.024	1.910	18.1	21.7	143 E	68	41

276409 2002 YN_2

12 27	9 58.20	+71 17.4	0.350	1.212	42.7	18.3	123 W	64	—
12 28	9 27.33	+70 56.1	0.349	1.221	40.7	18.2	126 W	64	—
12 29	8 57.65	+70 15.3	0.348	1.230	38.8	18.2	128 W	65	—
12 30	8 30.06	+69 16.5	0.348	1.239	36.9	18.2	131 W	66	—
12 31	8 5.09	+68 1.8	0.349	1.248	35.0	18.1	133 W	67	—
1 1	7 42.94	+66 34.1	0.350	1.257	33.2	18.1	136 W	68	—
1 2	7 23.55	+64 56.1	0.352	1.266	31.5	18.1	138 W	70	—
1 3	7 6.68	+63 10.3	0.355	1.275	30.0	18.1	140 W	72	1
1 4	6 52.07	+61 19.1	0.359	1.284	28.5	18.1	141 E	74	3
1 5	6 39.42	+59 24.5	0.364	1.292	27.3	18.1	143 E	76	5
1 6	6 28.45	+57 28.1	0.369	1.301	26.1	18.1	144 E	78	7
1 7	6 18.92	+55 31.2	0.375	1.310	25.2	18.1	145 E	79	8
1 8	6 10.61	+53 35.1	0.382	1.318	24.5	18.1	146 E	81	10
1 9	6 3.35	+51 40.5	0.389	1.327	23.9	18.2	147 E	83	12
1 10	5 56.98	+49 48.3	0.398	1.335	23.5	18.2	147 E	85	14
1 11	5 51.38	+47 59.0	0.406	1.343	23.3	18.3	147 E	87	16
1 12	5 46.43	+46 13.0	0.416	1.352	23.2	18.3	147 E	89	18
1 13	5 42.07	+44 30.5	0.426	1.360	23.3	18.4	147 E	90	19
1 14	5 38.20	+42 51.8	0.436	1.368	23.5	18.5	146 E	88	21
1 15	5 34.77	+41 17.1	0.447	1.376	23.8	18.6	146 E	86	23
1 16	5 31.72	+39 46.3	0.458	1.384	24.1	18.6	145 E	85	24
1 18	5 26.60	+36 56.5	0.483	1.400	25.0	18.8	143 E	82	27
1 20	5 22.57	+34 22.0	0.509	1.416	26.0	19.0	141 E	79	30
1 22	5 19.40	+32 1.9	0.536	1.431	27.0	19.1	139 E	77	32
1 24	5 16.93	+29 55.1	0.565	1.446	28.1	19.3	136 E	75	34
1 26	5 15.05	+28 0.5	0.594	1.461	29.1	19.5	134 E	73	36
1 28	5 13.66	+26 16.9	0.625	1.475	30.0	19.6	132 E	71	38
1 30	5 12.68	+24 43.1	0.657	1.490	30.8	19.8	129 E	70	39
2 1	5 12.05	+23 18.3	0.689	1.504	31.6	19.9	127 E	68	41
2 3	5 11.72	+22 1.3	0.722	1.518	32.3	20.1	125 E	67	42
2 5	5 11.67	+20 51.5	0.756	1.531	32.9	20.2	123 E	66	43
2 7	5 11.85	+19 47.9	0.790	1.545	33.4	20.3	120 E	65	44
2 9	5 12.23	+18 50.1	0.824	1.558	33.8	20.5	118 E	64	45
2 11	5 12.81	+17 57.3	0.859	1.571	34.2	20.6	116 E	63	46
2 13	5 13.55	+17 9.1	0.894	1.583	34.6	20.7	115 E	62	47
2 15	5 14.45	+16 24.9	0.930	1.596	34.8	20.8	113 E	61	48
2 20	5 17.27	+14 49.5	1.020	1.626	35.3	21.0	108 E	60	49
2 25	5 20.77	+13 31.6	1.111	1.655	35.5	21.3	104 E	59	50
3 2	5 24.83	+12 27.1	1.202	1.682	35.5	21.5	100 E	57	52*
3 7	5 29.34	+11 32.9	1.293	1.708	35.3	21.7	96 E	57	52*

334139 2001 RN_{56}

12 27	9 58.45	+14 58.3	1.168	1.942	23.2	20.7	129 W	60	49
1 6	9 55.76	+15 24.0	1.123	1.979	18.7	20.5	140 W	60	49
1 16	9 49.25	+16 6.9	1.095	2.016	13.4	20.3	152 W	61	48
1 26	9 39.75	+17 0.0	1.088	2.053	7.5	20.1	164 W	62	47

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
334139 2001 RN_{56}									
	h m	° ′			°	m	°	°	°
1 31	9 34.30	+17 27.5	1.094	2.072	4.6	20.0	170 W	62	47
2 5	9 28.67	+17 54.2	1.106	2.091	1.9	19.8	176 W	63	46
2 10	9 23.06	+18 18.9	1.125	2.110	2.2	19.9	175 E	63	46
2 15	9 17.71	+18 40.7	1.150	2.129	4.9	20.2	169 E	64	45
2 20	9 12.82	+18 58.9	1.182	2.148	7.6	20.4	163 E	64	45
2 25	9 8.55	+19 13.2	1.219	2.167	10.1	20.6	157 E	64	45
3 2	9 5.00	+19 23.5	1.263	2.186	12.5	20.7	152 E	64	45
3 7	9 2.26	+19 29.8	1.312	2.205	14.6	20.9	146 E	64	45
3 12	9 0.35	+19 32.1	1.365	2.224	16.5	21.1	141 E	65	44
3 17	8 59.29	+19 30.8	1.423	2.243	18.2	21.3	135 E	65	44
3 22	8 59.06	+19 26.0	1.485	2.261	19.6	21.4	130 E	64	45
179778 2002 SY_{47}									
12 27	9 58.60	+ 2 55.1	2.187	2.858	16.5	21.3	124 W	48	61
1 6	9 55.21	+ 2 57.4	2.079	2.860	14.1	21.1	135 W	48	61
1 16	9 49.39	+ 3 17.4	1.991	2.861	11.0	20.9	146 W	48	61
1 26	9 41.50	+ 3 55.1	1.926	2.861	7.5	20.6	158 W	49	60
2 5	9 32.18	+ 4 48.2	1.889	2.860	4.1	20.4	168 W	50	59
2 10	9 27.26	+ 5 19.2	1.881	2.859	3.2	20.4	171 E	50	59
2 15	9 22.34	+ 5 52.4	1.881	2.858	3.6	20.4	170 E	51	58
2 20	9 17.55	+ 6 26.9	1.889	2.857	5.0	20.5	166 E	51	58
2 25	9 13.02	+ 7 1.9	1.904	2.856	6.7	20.6	160 E	52	57
3 2	9 8.85	+ 7 36.6	1.927	2.854	8.5	20.7	155 E	53	56
3 7	9 5.15	+ 8 10.3	1.955	2.852	10.3	20.8	149 E	53	56
3 12	9 1.98	+ 8 42.6	1.991	2.850	12.0	20.9	143 E	54	55
3 17	8 59.41	+ 9 12.8	2.031	2.847	13.6	21.0	138 E	54	55
3 22	8 57.48	+ 9 40.6	2.077	2.844	15.0	21.1	132 E	55	54
3 27	8 56.20	+10 5.7	2.127	2.841	16.3	21.2	127 E	55	54
4 1	8 55.57	+10 27.8	2.180	2.838	17.4	21.3	122 E	55	54
4 6	8 55.58	+10 47.0	2.237	2.835	18.3	21.4	117 E	56	53
4 11	8 56.21	+11 3.1	2.297	2.831	19.1	21.4	112 E	56	53
482554 2012 VW_{36}									
12 27	9 58.68	−17 46.1	0.807	1.499	37.0	20.5	113 W	27	82
1 1	9 59.13	−20 29.2	0.782	1.500	36.2	20.4	116 W	25	84
1 6	9 58.40	−23 8.5	0.759	1.500	35.3	20.3	118 W	22	87
1 11	9 56.40	−25 41.3	0.738	1.501	34.3	20.2	121 W	19	90
1 16	9 53.09	−28 4.8	0.720	1.501	33.4	20.2	123 W	17	88
1 21	9 48.50	−30 15.8	0.705	1.502	32.6	20.1	125 W	15	86
1 26	9 42.71	−32 11.5	0.693	1.503	31.8	20.0	126 W	13	84
1 31	9 35.89	−33 48.9	0.683	1.504	31.2	20.0	128 W	11	82
2 5	9 28.26	−35 5.8	0.676	1.505	30.7	20.0	129 W	10	81
2 10	9 20.15	−36 0.3	0.672	1.506	30.4	19.9	129 E	9	80
2 15	9 11.95	−36 31.4	0.671	1.508	30.3	19.9	130 E	8	79
2 20	9 4.11	−36 39.6	0.672	1.509	30.3	19.9	130 E	8	79
2 25	8 57.01	−36 26.4	0.676	1.510	30.5	20.0	129 E	9	80
3 2	8 50.98	−35 53.9	0.682	1.512	30.9	20.0	128 E	9	80
3 7	8 46.25	−35 5.0	0.690	1.514	31.4	20.0	127 E	10	81
3 12	8 42.98	−34 2.4	0.701	1.515	32.0	20.1	126 E	11	82
3 17	8 41.26	−32 49.3	0.713	1.517	32.7	20.1	125 E	12	83
3 22	8 41.09	−31 28.9	0.727	1.519	33.4	20.2	123 E	14	85
3 27	8 42.42	−30 3.9	0.744	1.521	34.2	20.3	121 E	15	86
4 1	8 45.15	−28 36.7	0.761	1.523	34.9	20.4	119 E	16	87
4 6	8 49.16	−27 9.1	0.781	1.525	35.7	20.4	117 E	18	89
4 11	8 54.35	−25 42.8	0.802	1.527	36.4	20.5	115 E	19	90
4 16	9 0.61	−24 19.1	0.824	1.530	37.1	20.6	113 E	21	88
4 21	9 7.84	−22 59.2	0.848	1.532	37.7	20.7	111 E	22*	87
4 26	9 15.90	−21 44.0	0.874	1.534	38.3	20.8	109 E	23*	86
5 1	9 24.71	−20 33.9	0.900	1.536	38.8	20.9	107 E	24*	85
5 6	9 34.15	−19 29.4	0.928	1.539	39.3	20.9	105 E	24*	83
5 11	9 44.16	−18 30.6	0.958	1.541	39.7	21.0	103 E	24*	83
5 16	9 54.67	−17 37.9	0.988	1.544	40.0	21.1	101 E	24*	82
5 21	10 5.59	−16 51.3	1.020	1.546	40.3	21.2	99 E	23*	81
5 26	10 16.88	−16 10.7	1.053	1.548	40.5	21.3	97 E	22*	80
5 31	10 28.45	−15 35.9	1.087	1.551	40.6	21.3	95 E	22*	80
6 5	10 40.27	−15 6.7	1.122	1.553	40.7	21.4	93 E	21*	79
6 10	10 52.30	−14 42.8	1.157	1.556	40.7	21.5	91 E	20*	79*
523633 2009 XR_2									
12 27	9 58.98	−18 10.5	0.497	1.264	45.7	19.3	113 W	27	82
1 1	9 51.46	−22 21.4	0.501	1.284	43.5	19.3	116 W	23	86
1 6	9 42.27	−26 8.3	0.508	1.305	41.4	19.3	119 W	19	90
1 11	9 31.53	−29 26.1	0.518	1.326	39.5	19.4	121 W	16	87
1 16	9 19.53	−32 10.6	0.531	1.347	37.9	19.4	123 W	13	84
1 21	9 6.72	−34 19.3	0.547	1.368	36.5	19.5	124 W	11	82
1 26	8 53.66	−35 51.8	0.566	1.390	35.4	19.5	125 W	9	80
1 31	8 40.92	−36 49.7	0.588	1.411	34.6	19.6	126 E	8	79
2 5	8 29.05	−37 16.0	0.612	1.432	34.0	19.7	126 E	8	79
2 10	8 18.49	−37 14.4	0.639	1.453	33.6	19.8	125 E	8	79
2 15	8 9.56	−36 49.8	0.668	1.474	33.5	20.0	125 E	8	79
2 20	8 2.46	−36 7.0	0.699	1.494	33.4	20.1	124 E	9	80

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
523633 2009 XR_2 *(continuation)*									
	h m	° ′			°	m	°	°	°
2 25	7 57.21	−35 10.7	0.732	1.514	33.5	20.2	122 E	10	81
3 2	7 53.75	−34 4.9	0.766	1.534	33.6	20.4	121 E	11	82
3 7	7 51.97	−32 52.9	0.802	1.553	33.8	20.5	120 E	12	83
3 12	7 51.73	−31 37.3	0.840	1.573	34.0	20.6	118 E	13	84
3 17	7 52.88	−30 20.4	0.880	1.591	34.2	20.7	116 E	15	86
3 22	7 55.29	−29 4.1	0.920	1.610	34.4	20.9	114 E	16	87
3 27	7 58.80	−27 49.7	0.962	1.628	34.6	21.0	112 E	17	88
4 1	8 3.26	−26 38.4	1.005	1.645	34.7	21.1	110 E	18	89
4 6	8 8.56	−25 30.6	1.049	1.662	34.9	21.2	108 E	19	90
4 11	8 14.60	−24 27.0	1.095	1.679	35.0	21.4	106 E	20*	88
4 16	8 21.29	−23 28.1	1.141	1.695	35.0	21.5	104 E	21*	87
215664 2003 UL_{214}									
12 27	9 59.57	+ 5 50.1	1.871	2.567	18.2	21.2	125 W	51	58
1 6	9 56.84	+ 5 37.2	1.751	2.550	15.6	20.9	136 W	51	58
1 16	9 51.24	+ 5 41.3	1.649	2.532	12.2	20.6	147 W	51	58
1 26	9 43.01	+ 6 3.0	1.569	2.512	8.2	20.3	159 W	51	58
2 5	9 32.81	+ 6 40.5	1.516	2.492	4.1	20.1	170 W	52	57
2 10	9 27.29	+ 7 4.0	1.500	2.482	3.0	20.0	172 E	52	57
2 15	9 21.70	+ 7 29.7	1.492	2.471	3.8	20.0	170 E	52	57
2 20	9 16.21	+ 7 56.9	1.490	2.460	5.7	20.1	166 E	53	56
2 25	9 11.00	+ 8 24.7	1.496	2.449	8.0	20.2	160 E	53	56
3 2	9 6.20	+ 8 52.3	1.508	2.438	10.3	20.3	154 E	54	55
3 7	9 1.96	+ 9 18.9	1.527	2.426	12.5	20.4	148 E	54	55
3 17	8 55.52	+10 7.0	1.580	2.403	16.5	20.6	137 E	55	54
3 27	8 52.21	+10 45.2	1.651	2.378	19.9	20.8	126 E	56	53
4 6	8 52.11	+11 11.4	1.735	2.353	22.5	20.9	116 E	56	53
4 16	8 55.07	+11 24.9	1.827	2.327	24.4	21.1	107 E	56	53
4 26	9 0.78	+11 25.4	1.924	2.300	25.6	21.2	99 E	55*	53
5 6	9 8.88	+11 13.1	2.021	2.273	26.3	21.3	91 E	51*	53
5 16	9 19.01	+10 48.4	2.117	2.245	26.6	21.4	84 E	46*	53*
5 26	9 30.87	+10 11.7	2.210	2.216	26.5	21.4	77 E	39*	53*
6 5	9 44.16	+ 9 23.5	2.298	2.187	26.0	21.5	71 E	33*	53*
219319 2000 FH_{10}									
12 27	9 59.68	+31 33.8	0.892	1.712	25.3	20.3	132 W	77	32
1 1	9 57.91	+32 7.8	0.865	1.719	23.1	20.2	137 W	77	32
1 6	9 54.63	+32 43.6	0.842	1.726	20.6	20.0	142 W	78	31
1 11	9 49.85	+33 19.6	0.823	1.733	18.0	19.9	147 W	78	31
1 16	9 43.66	+33 53.3	0.808	1.739	15.4	19.8	152 W	79	30
1 21	9 36.24	+34 22.2	0.799	1.746	13.0	19.7	157 W	79	30
1 26	9 27.88	+34 43.9	0.794	1.752	11.1	19.6	160 W	80	29
1 31	9 18.95	+34 56.3	0.795	1.758	10.2	19.6	162 W	80	29
2 5	9 9.85	+34 58.2	0.802	1.764	10.5	19.6	161 E	80	29
2 10	9 1.01	+34 49.0	0.815	1.770	11.9	19.7	158 E	80	29
2 15	8 52.83	+34 29.1	0.833	1.775	14.0	19.8	154 E	79	30
2 20	8 45.66	+33 59.5	0.856	1.781	16.3	20.0	150 E	79	30
2 25	8 39.71	+33 21.8	0.885	1.786	18.7	20.2	145 E	78	31
3 2	8 35.11	+32 37.7	0.917	1.791	21.0	20.3	140 E	78	31
3 7	8 31.88	+31 48.9	0.954	1.796	23.2	20.5	135 E	77	32
3 12	8 30.01	+30 56.5	0.994	1.800	25.1	20.6	130 E	76	33
3 17	8 29.44	+30 1.8	1.037	1.805	26.8	20.8	125 E	75	34
3 22	8 30.08	+29 5.6	1.082	1.809	28.2	20.9	121 E	74	35
3 27	8 31.81	+28 8.3	1.130	1.813	29.5	21.0	117 E	73	36
4 1	8 34.50	+27 10.5	1.180	1.816	30.5	21.2	113 E	72	37
4 6	8 38.05	+26 12.2	1.230	1.820	31.4	21.3	109 E	71	38
4 11	8 42.35	+25 13.5	1.283	1.823	32.0	21.4	105 E	70	39
67473 2000 RH_6									
12 27	9 59.70	+ 6 46.1	1.814	2.517	18.5	20.9	126 W	52	57
1 6	9 56.08	+ 6 54.3	1.729	2.535	15.5	20.8	137 W	52	57
1 16	9 49.64	+ 7 20.8	1.663	2.553	11.7	20.6	148 W	52	57
1 26	9 40.86	+ 8 3.8	1.621	2.570	7.4	20.3	160 W	53	56
1 31	9 35.85	+ 8 30.4	1.610	2.578	5.1	20.2	166 W	54	55
2 5	9 30.60	+ 8 59.3	1.606	2.586	3.1	20.1	172 W	54	55
2 10	9 25.25	+ 9 29.9	1.609	2.593	2.1	20.0	175 E	54	55
2 15	9 19.97	+10 1.2	1.620	2.601	3.3	20.1	171 E	55	54
2 20	9 14.92	+10 32.5	1.638	2.608	5.4	20.3	166 E	56	53
2 25	9 10.24	+11 2.8	1.664	2.615	7.5	20.4	160 E	56	53
3 2	9 6.04	+11 31.6	1.696	2.622	9.6	20.6	154 E	57	52
3 7	9 2.42	+11 58.2	1.734	2.628	11.6	20.7	148 E	57	52
3 12	8 59.44	+12 22.4	1.778	2.634	13.4	20.8	142 E	57	52
3 17	8 57.16	+12 43.7	1.828	2.640	15.0	21.0	137 E	58	51
3 22	8 55.60	+13 2.1	1.881	2.646	16.5	21.1	131 E	58	51
3 27	8 54.75	+13 17.3	1.939	2.652	17.7	21.2	126 E	58	51
4 1	8 54.61	+13 29.4	2.000	2.657	18.8	21.3	121 E	58	51
4 6	8 55.13	+13 38.3	2.065	2.662	19.7	21.4	116 E	59	50
4 11	8 56.30	+13 44.3	2.131	2.667	20.5	21.5	112 E	59	50

160361 2003 YD_{66}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 27	10 0.20	+ 9 12.9	1.828	2.539	18.2	20.2	126 W	54	55
1 6	9 56.57	+ 9 47.1	1.765	2.578	14.9	20.0	138 W	55	54
1 16	9 50.27	+10 38.2	1.720	2.617	11.0	19.9	150 W	56	53
1 26	9 41.84	+11 42.4	1.701	2.655	6.6	19.7	162 W	57	52
1 31	9 37.11	+12 17.6	1.701	2.673	4.3	19.6	168 W	57	52
2 5	9 32.19	+12 53.6	1.709	2.692	2.0	19.4	175 W	58	51
2 10	9 27.23	+13 29.7	1.724	2.710	0.7	19.4	178 E	58	51
2 15	9 22.39	+14 4.8	1.747	2.728	2.8	19.6	172 E	59	50
2 20	9 17.80	+14 38.3	1.777	2.747	5.0	19.8	166 E	60	49
2 25	9 13.58	+15 9.4	1.814	2.764	7.1	19.9	160 E	60	49
3 7	9 6.64	+16 2.9	1.908	2.800	10.8	20.2	148 E	61	48
3 17	9 2.09	+16 43.2	2.026	2.834	13.9	20.5	137 E	62	47
3 27	9 0.14	+17 9.9	2.162	2.868	16.3	20.7	126 E	62	47
4 6	9 0.70	+17 23.5	2.313	2.901	18.0	21.0	116 E	62	47
4 16	9 3.55	+17 25.4	2.473	2.933	19.1	21.2	107 E	62	47
4 26	9 8.38	+17 16.6	2.640	2.964	19.6	21.4	99 E	61*	47

163683 2002 YP_2

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 0.33	+49 49.8	0.937	1.744	25.4	21.2	130 W	85	14
1 1	9 47.63	+51 48.6	0.950	1.786	22.9	21.2	135 W	83	12
1 6	9 32.63	+53 31.6	0.968	1.826	20.8	21.3	139 W	81	10
1 11	9 15.76	+54 54.1	0.992	1.865	19.2	21.3	141 W	80	9
1 16	8 57.74	+55 52.8	1.023	1.903	18.1	21.4	143 W	79	8
1 21	8 39.50	+56 26.5	1.060	1.939	17.7	21.5	143 W	79	8
1 26	8 22.01	+56 36.3	1.103	1.975	17.8	21.6	142 E	78	7
1 31	8 6.05	+56 24.9	1.152	2.009	18.4	21.8	140 E	79	8
2 5	7 52.16	+55 56.5	1.207	2.043	19.2	21.9	137 E	79	8
2 10	7 40.62	+55 15.2	1.267	2.075	20.1	22.1	134 E	80	9
2 15	7 31.48	+54 24.7	1.332	2.106	21.1	22.3	130 E	81	10
2 20	7 24.63	+53 28.6	1.401	2.137	22.0	22.4	126 E	82	11

410128 2007 GG_{11}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 0.51	−22 27.7	1.171	1.770	31.4	20.7	110 W	23	86
1 1	10 1.72	−22 55.1	1.138	1.779	30.4	20.6	114 W	22	87
1 6	10 2.03	−23 12.4	1.105	1.788	29.2	20.6	118 W	22	87
1 11	10 1.40	−23 18.1	1.075	1.798	27.8	20.5	122 W	22	87
1 16	9 59.86	−23 10.9	1.046	1.808	26.2	20.4	126 W	22	87
1 21	9 57.46	−22 49.3	1.020	1.817	24.5	20.3	130 W	22	87
1 26	9 54.31	−22 12.2	0.997	1.828	22.6	20.2	134 W	23	86
1 31	9 50.54	−21 18.9	0.978	1.838	20.7	20.1	139 W	24	85
2 5	9 46.30	−20 9.4	0.963	1.848	18.7	20.0	143 W	25	84
2 10	9 41.79	−18 43.8	0.953	1.859	16.9	19.9	147 W	26	83
2 15	9 37.24	−17 3.6	0.948	1.869	15.4	19.9	150 E	28	81
2 20	9 32.87	−15 11.0	0.949	1.880	14.3	19.9	152 E	30	79
2 25	9 28.90	−13 8.9	0.956	1.891	13.9	19.9	153 E	32	77
3 2	9 25.50	−11 0.7	0.969	1.901	14.2	19.9	152 E	34	75
3 7	9 22.80	− 8 49.8	0.988	1.912	15.1	20.0	150 E	36	73
3 12	9 20.90	− 6 39.5	1.014	1.923	16.5	20.1	147 E	38	71
3 17	9 19.87	− 4 32.9	1.045	1.934	18.1	20.3	143 E	40	69
3 22	9 19.73	− 2 32.5	1.082	1.945	19.8	20.4	139 E	42	67
3 27	9 20.48	− 0 40.0	1.123	1.956	21.4	20.6	134 E	44	65
4 1	9 22.06	+ 1 3.3	1.170	1.967	22.9	20.7	130 E	46	63
4 6	9 24.44	+ 2 36.9	1.220	1.977	24.3	20.8	126 E	48	61
4 11	9 27.55	+ 4 0.5	1.274	1.988	25.5	21.0	121 E	49	60
4 16	9 31.35	+ 5 14.1	1.331	1.999	26.5	21.1	117 E	50	59
4 21	9 35.76	+ 6 17.9	1.390	2.010	27.4	21.3	113 E	51	58
4 26	9 40.72	+ 7 12.5	1.452	2.020	28.1	21.4	109 E	52*	57

197710 2004 PU_2

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 0.53	+43 20.9	2.448	3.185	13.4	21.0	131 W	88	21
1 1	9 57.93	+44 8.6	2.413	3.190	12.5	21.0	136 W	89	20
1 6	9 54.51	+44 55.7	2.384	3.195	11.6	20.9	139 W	90	19
1 11	9 50.27	+45 41.0	2.361	3.200	10.7	20.9	143 W	89	18
1 16	9 45.29	+46 23.3	2.344	3.204	10.0	20.8	146 W	89	18
1 21	9 39.64	+47 1.4	2.333	3.208	9.5	20.8	148 W	88	17
1 26	9 33.45	+47 34.1	2.329	3.212	9.2	20.8	149 W	87	16
1 31	9 26.88	+48 0.5	2.332	3.215	9.2	20.8	149 W	87	16
2 5	9 20.10	+48 19.9	2.342	3.218	9.4	20.8	148 W	87	16
2 10	9 13.30	+48 31.9	2.358	3.221	10.0	20.8	146 E	86	15
2 15	9 6.66	+48 36.2	2.381	3.224	10.7	20.9	143 E	86	15
2 20	9 0.38	+48 33.1	2.410	3.227	11.5	21.0	140 E	86	15
2 25	8 54.61	+48 23.0	2.445	3.229	12.3	21.0	136 E	87	16
3 2	8 49.48	+48 6.6	2.485	3.231	13.2	21.1	132 E	87	16
3 7	8 45.07	+47 44.5	2.531	3.233	14.1	21.2	128 E	87	16
3 12	8 41.45	+47 17.5	2.580	3.234	14.9	21.2	123 E	88	17
3 17	8 38.64	+46 46.4	2.633	3.236	15.6	21.3	119 E	88	17
3 22	8 36.66	+46 12.0	2.690	3.237	16.2	21.4	115 E	89	18
3 27	8 35.49	+45 34.8	2.750	3.238	16.8	21.4	111 E	89	18

137078 1998 XZ_4

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 27	10 0.94	+22 18.7	1.912	2.655	16.4	20.6	130 W	67	42
1 6	9 50.70	+22 48.9	1.854	2.701	12.8	20.5	143 W	68	41
1 16	9 37.45	+23 21.8	1.820	2.745	8.6	20.3	155 W	68	41
1 26	9 22.13	+23 50.3	1.816	2.786	4.4	20.1	168 W	69	40
1 31	9 14.13	+24 0.9	1.827	2.805	2.8	20.0	172 W	69	40
2 5	9 6.15	+24 8.2	1.846	2.825	2.9	20.1	172 E	69	40
2 10	8 58.38	+24 12.0	1.873	2.843	4.4	20.2	167 E	69	40
2 15	8 51.01	+24 12.1	1.908	2.861	6.4	20.4	161 E	69	40
2 20	8 44.20	+24 8.7	1.952	2.879	8.3	20.5	155 E	69	40
2 25	8 38.05	+24 2.0	2.002	2.896	10.1	20.7	149 E	69	40
3 2	8 32.65	+23 52.3	2.060	2.912	11.8	20.8	143 E	69	40
3 7	8 28.05	+23 40.1	2.123	2.928	13.4	20.9	137 E	69	40
3 12	8 24.27	+23 25.7	2.191	2.944	14.7	21.1	131 E	68	41
3 17	8 21.31	+23 9.6	2.265	2.959	15.8	21.2	126 E	68	41
3 22	8 19.15	+22 52.0	2.342	2.973	16.8	21.3	120 E	68	41
3 27	8 17.76	+22 33.2	2.422	2.987	17.6	21.4	115 E	68	41

90281 2003 DQ_{15}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 1.04	+12 33.4	1.480	2.220	20.6	19.5	127 W	58	51
1 6	9 57.49	+13 1.3	1.423	2.257	16.7	19.3	139 W	58	51
1 16	9 50.68	+13 45.9	1.384	2.293	12.2	19.1	151 W	59	50
1 26	9 41.28	+14 42.3	1.369	2.329	7.0	18.9	163 W	60	49
1 31	9 35.95	+15 12.6	1.371	2.346	4.3	18.8	170 W	60	49
2 5	9 30.43	+15 42.9	1.379	2.364	1.6	18.7	176 W	61	48
2 10	9 24.89	+16 12.3	1.395	2.382	1.2	18.7	177 E	61	48
2 15	9 19.52	+16 39.8	1.419	2.399	3.8	18.9	171 E	62	47
2 20	9 14.50	+17 4.8	1.449	2.416	6.3	19.1	165 E	62	47
2 25	9 9.98	+17 26.6	1.486	2.433	8.6	19.3	158 E	62	47
3 7	9 2.82	+17 59.8	1.577	2.467	12.8	19.6	147 E	63	46
3 17	8 58.59	+18 18.6	1.691	2.500	16.2	19.9	136 E	63	46
3 27	8 57.40	+18 23.6	1.821	2.532	18.8	20.2	125 E	63	46
4 6	8 59.05	+18 16.4	1.964	2.564	20.6	20.4	116 E	63	46
4 16	9 3.17	+17 58.2	2.116	2.594	21.7	20.7	107 E	63	46
4 26	9 9.40	+17 30.4	2.274	2.624	22.3	20.8	99 E	61*	46
5 6	9 17.33	+16 54.0	2.435	2.654	22.3	21.0	91 E	57*	47
5 16	9 26.63	+16 9.8	2.595	2.682	22.0	21.2	84 E	51*	48
5 26	9 37.02	+15 18.6	2.754	2.710	21.3	21.3	77 E	44*	48*
6 5	9 48.25	+14 21.1	2.909	2.736	20.4	21.4	70 E	37*	48*

37671 1994 UY_{11}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 1.11	+60 44.2	0.885	1.675	27.8	16.8	127 W	74	3
1 1	10 0.77	+61 32.3	0.876	1.680	26.9	16.8	129 W	73	2
1 6	9 58.01	+62 12.9	0.869	1.686	26.1	16.7	131 W	73	2
1 11	9 52.89	+62 43.3	0.866	1.693	25.4	16.7	132 W	72	1
1 16	9 45.63	+63 0.6	0.865	1.701	24.7	16.7	134 W	72	1
1 18	9 42.23	+63 3.2	0.866	1.704	24.5	16.7	134 W	72	1
1 20	9 38.60	+63 3.2	0.867	1.707	24.3	16.7	134 W	72	1
1 22	9 34.78	+63 0.3	0.869	1.711	24.1	16.7	135 W	72	1
1 24	9 30.83	+62 54.6	0.871	1.714	24.0	16.7	135 W	72	1
1 26	9 26.77	+62 46.0	0.874	1.718	23.9	16.7	135 W	72	1
1 28	9 22.68	+62 34.4	0.877	1.722	23.8	16.7	135 W	72	1
1 30	9 18.58	+62 19.7	0.881	1.725	23.8	16.7	135 W	73	2
2 1	9 14.53	+62 2.2	0.886	1.729	23.7	16.7	135 W	73	2
2 3	9 10.56	+61 41.7	0.891	1.733	23.7	16.8	135 W	73	2
2 5	9 6.72	+61 18.3	0.897	1.738	23.8	16.8	135 E	74	3
2 7	9 3.05	+60 52.2	0.903	1.742	23.9	16.8	134 E	74	3
2 9	8 59.56	+60 23.4	0.910	1.746	24.0	16.8	134 E	75	4
2 11	8 56.30	+59 52.1	0.917	1.751	24.1	16.9	134 E	75	4
2 13	8 53.29	+59 18.4	0.926	1.755	24.2	16.9	133 E	76	5
2 15	8 50.53	+58 42.6	0.934	1.760	24.4	16.9	133 E	76	5
2 20	8 44.83	+57 4.5	0.959	1.772	24.9	17.0	131 E	78	7
2 25	8 40.87	+55 16.7	0.987	1.784	25.6	17.1	129 E	80	9
3 2	8 38.56	+53 21.8	1.019	1.797	26.2	17.2	127 E	82	11
3 7	8 37.76	+51 22.2	1.055	1.810	26.9	17.3	124 E	84	13
3 12	8 38.30	+49 19.8	1.094	1.824	27.6	17.4	122 E	86	15
3 17	8 40.03	+47 16.3	1.137	1.838	28.3	17.6	119 E	88	17
3 22	8 42.77	+45 13.0	1.183	1.853	28.8	17.7	116 E	90	19
3 27	8 46.37	+43 10.8	1.232	1.868	29.4	17.8	113 E	88	21
4 1	8 50.67	+41 10.5	1.284	1.883	29.8	17.9	111 E	86	23
4 6	8 55.57	+39 12.4	1.338	1.899	30.1	18.0	108 E	84	25
4 11	9 0.96	+37 16.8	1.395	1.915	30.4	18.1	105 E	82	27
4 16	9 6.77	+35 23.9	1.454	1.931	30.5	18.3	102 E	80	29
4 21	9 12.92	+33 33.6	1.515	1.947	30.6	18.4	99 E	78*	30
4 26	9 19.36	+31 46.1	1.578	1.964	30.6	18.5	96 E	76*	32
5 6	9 32.85	+28 18.7	1.708	1.998	30.3	18.7	91 E	69*	36
5 16	9 46.97	+25 0.8	1.843	2.032	29.7	18.9	86 E	61*	39
5 26	10 1.49	+21 51.1	1.982	2.067	28.9	19.0	80 E	53*	42

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
37671 1994 UY_{11} *(continuation)*									
	h m	° ′			°	m	°	°	°
6 5	10 16.26	+18 48.8	2.122	2.103	27.8	19.2	75 E	45*	45*
6 15	10 31.20	+15 52.7	2.263	2.138	26.5	19.3	70 E	38*	47*
6 25	10 46.23	+13 2.0	2.403	2.174	25.0	19.4	65 E	31*	47*
7 5	11 1.32	+10 16.2	2.540	2.209	23.4	19.6	60 E	25*	47*
7 15	11 16.45	+ 7 34.7	2.674	2.244	21.7	19.6	55 E	20*	45*
7 25	11 31.61	+ 4 57.1	2.803	2.280	19.8	19.7	50 E	16*	42*
8 4	11 46.79	+ 2 23.3	2.927	2.314	17.9	19.8	44 E	12*	38*
8 14	12 2.02	− 0 7.0	3.043	2.349	15.9	19.8	39 E	9*	33*
8 24	12 17.29	− 2 33.9	3.150	2.383	13.8	19.9	34 E	6*	28*
9 3	12 32.61	− 4 57.3	3.249	2.417	11.7	19.9	29 E	3*	23*
9 13	12 48.00	− 7 17.3	3.336	2.450	9.5	19.9	24 E	1*	18*
9 23	13 3.45	− 9 33.6	3.413	2.482	7.4	19.9	19 E	—	12*
10 3	13 18.99	−11 46.3	3.477	2.514	5.3	19.8	13 E	—	7*
10 13	13 34.60	−13 55.1	3.529	2.545	3.3	19.8	8 E	—	2*
10 23	13 50.28	−15 59.9	3.566	2.576	1.8	19.7	5 E	—	—
11 2	14 6.02	−18 0.5	3.590	2.606	2.4	19.8	6 W	—	—
11 12	14 21.78	−19 56.9	3.599	2.635	4.2	20.0	11 W	—	5*
11 22	14 37.54	−21 48.8	3.593	2.663	6.2	20.1	17 W	4*	10*
12 2	14 53.24	−23 36.4	3.572	2.691	8.2	20.2	23 W	7*	15*
12 12	15 8.83	−25 19.6	3.536	2.718	10.1	20.3	29 W	10*	21*
12 22	15 24.20	−26 58.6	3.487	2.744	12.0	20.3	35 W	11*	28*
1 1	15 39.27	−28 33.9	3.423	2.769	13.7	20.4	42 W	12*	34*
1 11	15 53.90	−30 5.7	3.346	2.793	15.3	20.4	48 W	12*	42*
1 21	16 7.95	−31 34.7	3.258	2.816	16.7	20.4	55 W	12*	49*
26879 Haines									
12 27	10 1.47	−15 46.0	2.578	3.110	16.8	19.7	114 W	29	80
1 6	9 57.83	−16 46.1	2.469	3.113	15.4	19.6	123 W	28	81
1 16	9 51.98	−17 26.9	2.375	3.115	13.7	19.4	131 W	28	81
1 26	9 44.21	−17 43.9	2.301	3.116	11.8	19.3	140 W	27	82
2 5	9 35.10	−17 34.3	2.250	3.116	10.2	19.2	146 W	27	82
2 15	9 25.42	−16 57.6	2.224	3.115	9.3	19.1	149 E	28	81
2 20	9 20.67	−16 29.8	2.222	3.115	9.3	19.1	150 E	29	80
2 25	9 16.12	−15 56.5	2.226	3.113	9.5	19.1	149 E	29	80
3 2	9 11.87	−15 18.5	2.237	3.112	10.1	19.2	147 E	30	79
3 7	9 8.02	−14 36.7	2.254	3.110	10.9	19.2	144 E	30	79
3 12	9 4.64	−13 52.1	2.277	3.108	11.8	19.3	140 E	31	78
3 17	9 1.80	−13 5.5	2.307	3.106	12.7	19.3	137 E	32	77
3 22	8 59.53	−12 18.1	2.341	3.104	13.7	19.4	133 E	33	76
3 27	8 57.85	−11 30.8	2.381	3.101	14.6	19.5	128 E	33	76
4 1	8 56.78	−10 44.2	2.425	3.098	15.5	19.5	124 E	34	75
4 6	8 56.31	− 9 59.0	2.473	3.095	16.3	19.6	120 E	35	74
4 16	8 57.12	− 8 35.1	2.578	3.087	17.6	19.7	111 E	36	73
4 26	9 0.11	− 7 22.4	2.693	3.079	18.6	19.8	103 E	37*	71
5 6	9 5.02	− 6 22.7	2.813	3.069	19.1	20.0	95 E	34*	70
5 16	9 11.62	− 5 36.7	2.935	3.059	19.3	20.0	87 E	31*	70*
5 26	9 19.66	− 5 4.5	3.056	3.047	19.1	20.1	80 E	25*	67*
6 5	9 28.91	− 4 45.5	3.174	3.035	18.6	20.2	73 E	20*	64*
6 15	9 39.18	− 4 39.2	3.286	3.021	17.9	20.2	66 E	14*	59*
6 25	9 50.30	− 4 44.7	3.390	3.006	17.0	20.2	60 E	9*	53*
7 5	10 2.13	− 5 1.0	3.485	2.990	15.8	20.3	53 E	4*	47*
7 15	10 14.57	− 5 27.5	3.570	2.973	14.5	20.2	47 E	—	41*
7 25	10 27.51	− 6 3.0	3.643	2.955	13.1	20.2	41 E	—	34*
8 4	10 40.88	− 6 46.8	3.704	2.936	11.5	20.2	35 E	—	28*
8 14	10 54.63	− 7 37.9	3.752	2.916	9.9	20.1	30 E	—	22*
8 24	11 8.70	− 8 35.5	3.785	2.895	8.3	20.1	24 E	—	15*
9 3	11 23.06	− 9 38.6	3.805	2.873	6.7	20.0	19 E	—	9*
9 13	11 37.68	−10 46.5	3.809	2.850	5.3	19.9	15 E	—	4*
9 23	11 52.54	−11 58.3	3.798	2.825	4.3	19.8	12 W	—	1*
10 3	12 7.63	−13 13.1	3.773	2.800	4.1	19.8	12 W	—	4*
10 13	12 22.94	−14 30.1	3.732	2.774	5.0	19.8	14 W	—	8*
10 23	12 38.44	−15 48.2	3.676	2.746	6.4	19.8	18 W	3*	12*
11 2	12 54.13	−17 6.6	3.605	2.718	8.1	19.8	23 W	7*	15*
11 12	13 9.98	−18 24.3	3.521	2.688	10.0	19.8	28 W	11*	20*
11 22	13 25.97	−19 40.3	3.422	2.658	11.9	19.8	34 W	15*	24*
12 2	13 42.06	−20 53.7	3.311	2.626	13.8	19.8	39 W	17*	30*
12 12	13 58.22	−22 3.3	3.188	2.594	15.7	19.7	45 W	19*	35*
12 22	14 14.36	−23 8.1	3.054	2.561	17.5	19.7	51 W	20*	42*
1 1	14 30.43	−24 7.0	2.911	2.526	19.2	19.6	58 W	20*	49*
1 11	14 46.29	−24 58.8	2.760	2.491	20.8	19.5	64 W	20*	56*
1 21	15 1.82	−25 42.4	2.602	2.455	22.2	19.4	70 W	19*	63*
129322 2005 TN_{45}									
12 27	10 1.99	+27 32.9	2.092	2.835	15.2	21.2	131 W	73	36
1 6	9 57.83	+28 27.8	1.987	2.823	12.6	21.0	141 W	73	36
1 16	9 50.65	+29 27.9	1.904	2.809	9.5	20.8	152 W	74	35
1 26	9 40.81	+30 25.7	1.847	2.795	6.7	20.6	161 W	75	34
2 5	9 29.15	+31 12.9	1.818	2.780	5.5	20.5	164 W	76	33
2 10	9 23.00	+31 30.1	1.815	2.773	6.1	20.5	163 E	77	32
2 15	9 16.87	+31 42.3	1.819	2.765	7.3	20.5	159 E	77	32
129322 2005 TN_{45} *(continuation)*									
	h m	° ′			°	m	°	°	°
2 20	9 10.94	+31 48.9	1.830	2.756	8.8	20.6	155 E	77	32
2 25	9 5.38	+31 50.0	1.848	2.748	10.5	20.7	150 E	77	32
3 2	9 0.32	+31 45.6	1.872	2.739	12.1	20.8	144 E	77	32
3 7	8 55.88	+31 36.2	1.901	2.730	13.7	20.9	139 E	77	32
3 12	8 52.14	+31 22.0	1.936	2.721	15.3	21.0	134 E	76	33
3 17	8 49.18	+31 3.7	1.976	2.712	16.6	21.0	129 E	76	33
3 22	8 47.02	+30 41.7	2.019	2.702	17.9	21.1	124 E	76	33
3 27	8 45.66	+30 16.6	2.066	2.692	19.0	21.2	119 E	75	34
4 1	8 45.08	+29 48.9	2.116	2.682	19.9	21.3	114 E	75	34
4 6	8 45.27	+29 18.8	2.167	2.672	20.7	21.3	109 E	74	35
4 11	8 46.17	+28 46.8	2.221	2.661	21.3	21.4	105 E	74	35
4 16	8 47.75	+28 13.1	2.276	2.651	21.8	21.5	101 E	73*	36
16143 1999 XK_{142}									
12 27	10 2.21	+11 43.0	2.236	2.933	15.6	19.0	127 W	57	52
1 6	9 57.43	+11 44.8	2.141	2.947	12.9	18.9	138 W	57	52
1 16	9 50.17	+11 57.9	2.066	2.960	9.5	18.7	150 W	57	52
1 26	9 40.87	+12 19.9	2.018	2.972	5.7	18.4	163 W	57	52
2 5	9 30.28	+12 47.4	1.999	2.982	1.7	18.2	175 W	58	51
2 10	9 24.79	+13 1.9	2.001	2.987	0.9	18.1	177 E	58	51
2 15	9 19.37	+13 16.2	2.011	2.992	2.8	18.3	172 E	58	51
2 20	9 14.13	+13 29.8	2.029	2.996	4.8	18.4	165 E	58	51
2 25	9 9.21	+13 42.3	2.054	3.000	6.7	18.6	159 E	59	50
3 7	9 0.70	+14 2.7	2.125	3.007	10.3	18.8	147 E	59	50
3 17	8 54.44	+14 15.8	2.221	3.013	13.4	19.0	136 E	59	50
3 27	8 50.73	+14 20.7	2.336	3.018	15.7	19.2	125 E	59	50
4 6	8 49.57	+14 17.4	2.464	3.022	17.5	19.4	115 E	59	50
4 16	8 50.80	+14 6.2	2.602	3.025	18.7	19.5	105 E	59*	50
4 26	8 54.17	+13 47.3	2.745	3.027	19.3	19.7	96 E	57*	50
5 6	8 59.39	+13 21.1	2.890	3.028	19.4	19.8	88 E	52*	51
5 16	9 6.17	+12 47.9	3.032	3.027	19.2	19.9	80 E	45*	51*
5 26	9 14.25	+12 8.0	3.170	3.026	18.6	20.0	73 E	38*	51*
6 5	9 23.41	+11 21.6	3.301	3.023	17.8	20.0	65 E	31*	49*
6 15	9 33.45	+10 29.1	3.424	3.020	16.7	20.1	58 E	24*	46*
6 25	9 44.22	+ 9 30.6	3.536	3.015	15.4	20.1	52 E	18*	42*
7 5	9 55.56	+ 8 26.5	3.636	3.009	13.9	20.1	45 E	13*	38*
7 15	10 7.38	+ 7 17.0	3.724	3.002	12.3	20.1	39 E	8*	32*
7 25	10 19.59	+ 6 2.6	3.797	2.994	10.6	20.0	33 E	4*	27*
8 4	10 32.10	+ 4 43.7	3.857	2.985	8.8	20.0	27 E	1*	21*
8 14	10 44.87	+ 3 20.5	3.901	2.975	6.9	19.9	21 E	—	15*
8 24	10 57.84	+ 1 53.5	3.929	2.963	5.0	19.9	15 E	—	8*
9 3	11 10.97	+ 0 23.2	3.942	2.951	3.2	19.7	9 E	—	2*
9 13	11 24.24	− 1 10.2	3.939	2.938	1.7	19.6	5 E	—	—
9 23	11 37.59	− 2 46.0	3.919	2.923	2.1	19.6	6 W	—	—
10 3	11 51.02	− 4 23.8	3.883	2.907	3.8	19.7	11 W	1*	4*
10 13	12 4.49	− 6 3.2	3.831	2.891	5.8	19.8	17 W	7*	8*
10 23	12 17.96	− 7 43.5	3.763	2.873	7.7	19.8	23 W	12*	13*
11 2	12 31.41	− 9 24.5	3.680	2.854	9.7	19.8	29 W	17*	17*
11 12	12 44.79	−11 5.5	3.583	2.834	11.6	19.8	35 W	21*	23*
11 22	12 58.03	−12 46.0	3.473	2.813	13.5	19.8	42 W	24*	28*
12 2	13 11.09	−14 25.7	3.350	2.790	15.3	19.8	48 W	26*	34*
12 12	13 23.85	−16 3.9	3.216	2.767	16.9	19.7	55 W	27*	41*
12 22	13 36.23	−17 40.2	3.072	2.743	18.4	19.7	62 W	27*	49*
1 1	13 48.07	−19 14.4	2.920	2.717	19.7	19.6	68 W	26*	57*
1 11	13 59.21	−20 45.8	2.761	2.691	20.7	19.5	76 W	24	65*
1 21	14 9.43	−22 14.2	2.599	2.664	21.5	19.3	83 W	23	74*
332687 2009 OV_2									
12 27	10 3.30	+19 16.6	1.538	2.288	19.5	20.0	129 W	64	45
1 6	9 59.88	+21 39.5	1.486	2.329	15.7	19.9	140 W	67	42
1 16	9 53.06	+24 17.1	1.456	2.369	11.4	19.7	152 W	69	40
1 26	9 43.40	+26 56.3	1.452	2.408	7.3	19.5	162 W	72	37
1 31	9 37.84	+28 11.8	1.461	2.427	5.9	19.5	165 W	73	36
2 5	9 32.02	+29 22.2	1.478	2.446	5.6	19.5	166 W	74	35
2 10	9 26.12	+30 26.1	1.502	2.465	6.4	19.6	164 E	75	34
2 15	9 20.37	+31 22.3	1.533	2.484	7.9	19.8	160 E	76	33
2 20	9 14.94	+32 10.2	1.571	2.502	9.6	19.9	155 E	77	32
2 25	9 10.01	+32 49.7	1.616	2.520	11.4	20.1	150 E	78	31
3 2	9 5.70	+33 21.0	1.666	2.538	13.2	20.2	144 E	78	31
3 7	9 2.12	+33 44.5	1.722	2.556	14.7	20.3	139 E	79	30
3 12	8 59.31	+34 0.8	1.783	2.573	16.2	20.5	134 E	79	30
3 17	8 57.32	+34 10.7	1.849	2.590	17.4	20.6	129 E	79	30
3 22	8 56.16	+34 14.7	1.917	2.607	18.5	20.7	124 E	79	30
3 27	8 55.80	+34 13.8	1.990	2.624	19.4	20.9	119 E	79	30
4 1	8 56.20	+34 8.4	2.064	2.640	20.1	21.0	115 E	79	30
4 6	8 57.32	+33 59.2	2.141	2.657	20.7	21.1	110 E	79	30
4 11	8 59.11	+33 46.6	2.219	2.673	21.1	21.2	106 E	79	30
4 16	9 1.51	+33 31.0	2.299	2.688	21.4	21.3	102 E	79	30
4 21	9 4.47	+33 12.8	2.380	2.704	21.6	21.4	98 E	78*	31
4 26	9 7.94	+32 52.3	2.460	2.719	21.7	21.5	94 E	76*	31

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	183220 2002 TJ_{39}								
	h m	° ′			°	m	°	°	°
12 27	10 3.47	+ 2 41.2	2.219	2.875	16.7	21.2	123 W	48	61
1 6	10 0.04	+ 2 32.2	2.114	2.883	14.3	21.0	134 W	48	61
1 16	9 54.18	+ 2 39.7	2.028	2.889	11.3	20.8	145 W	48	61
1 26	9 46.24	+ 3 4.1	1.966	2.894	7.9	20.6	156 W	48	61
2 5	9 36.87	+ 3 43.7	1.930	2.898	4.5	20.4	167 W	49	60
2 15	9 26.94	+ 4 34.8	1.925	2.902	3.6	20.4	169 E	50	59
2 20	9 22.09	+ 5 3.1	1.934	2.903	4.7	20.5	166 E	50	59
2 25	9 17.48	+ 5 32.3	1.950	2.904	6.3	20.6	161 E	51	58
3 2	9 13.23	+ 6 1.6	1.973	2.905	8.1	20.7	156 E	51	58
3 7	9 9.42	+ 6 30.4	2.003	2.905	9.8	20.8	150 E	52	57
3 12	9 6.13	+ 6 58.2	2.039	2.906	11.5	20.9	144 E	52	57
3 17	9 3.42	+ 7 24.4	2.081	2.906	13.0	21.0	139 E	52	57
3 22	9 1.33	+ 7 48.6	2.128	2.906	14.4	21.1	134 E	53	56
3 27	8 59.88	+ 8 10.5	2.180	2.905	15.6	21.2	128 E	53	56
4 1	8 59.07	+ 8 29.9	2.235	2.904	16.7	21.3	123 E	53	56
4 6	8 58.88	+ 8 46.6	2.294	2.904	17.7	21.3	118 E	54	55
4 11	8 59.31	+ 9 0.6	2.355	2.902	18.5	21.4	113 E	54	55
	306790 2001 KB_1								
12 27	10 3.78	−20 30.3	3.228	3.693	14.4	20.9	111 W	24	85
1 6	10 0.05	−21 34.3	3.119	3.698	13.4	20.8	119 W	23	86
1 16	9 54.47	−22 21.6	3.024	3.703	12.2	20.7	127 W	23	86
1 26	9 47.31	−22 48.5	2.948	3.707	10.9	20.6	135 W	22	87
2 5	9 39.03	−22 52.2	2.894	3.709	9.7	20.5	141 W	22	87
2 15	9 30.25	−22 32.0	2.865	3.711	9.0	20.4	144 E	22	87
2 25	9 21.70	−21 49.2	2.862	3.713	8.9	20.4	144 E	23	86
3 2	9 17.73	−21 20.5	2.871	3.713	9.2	20.5	143 E	24	85
3 7	9 14.06	−20 47.8	2.886	3.713	9.6	20.5	141 E	24	85
3 12	9 10.76	−20 11.7	2.907	3.713	10.1	20.5	139 E	25	84
3 17	9 7.89	−19 33.0	2.934	3.712	10.8	20.6	136 E	25	84
3 22	9 5.48	−18 52.7	2.966	3.712	11.4	20.6	132 E	26	83
3 27	9 3.56	−18 11.3	3.004	3.711	12.1	20.7	129 E	27	82
4 1	9 2.15	−17 29.7	3.046	3.710	12.8	20.7	125 E	28	81
4 6	9 1.24	−16 48.4	3.093	3.708	13.4	20.8	121 E	28	81
4 11	9 0.83	−16 8.1	3.144	3.707	13.9	20.8	117 E	29	80
4 16	9 0.93	−15 29.2	3.197	3.705	14.4	20.9	113 E	30	79
4 21	9 1.50	−14 52.1	3.254	3.703	14.9	20.9	109 E	30*	79
4 26	9 2.53	−14 17.4	3.312	3.701	15.2	21.0	105 E	30*	78
5 1	9 3.99	−13 45.0	3.373	3.699	15.5	21.0	101 E	29*	78
5 6	9 5.86	−13 15.4	3.434	3.696	15.7	21.1	97 E	28*	77
5 11	9 8.11	−12 48.5	3.497	3.693	15.8	21.1	93 E	26*	77
5 16	9 10.73	−12 24.6	3.560	3.690	15.9	21.2	89 E	24*	76*
5 21	9 13.68	−12 3.7	3.623	3.687	15.9	21.2	86 E	22*	75*
5 26	9 16.93	−11 45.8	3.686	3.683	15.8	21.2	82 E	19*	73*
5 31	9 20.47	−11 30.9	3.748	3.680	15.7	21.3	78 E	17*	71*
6 5	9 24.28	−11 19.0	3.809	3.676	15.4	21.3	75 E	14*	68*
6 10	9 28.32	−11 10.0	3.869	3.671	15.2	21.3	71 E	11*	65*
6 15	9 32.59	−11 4.0	3.927	3.667	14.9	21.3	68 E	8*	62*
6 20	9 37.05	−11 0.8	3.983	3.662	14.5	21.3	64 E	5*	58*
6 25	9 41.70	−11 0.3	4.038	3.658	14.1	21.3	61 E	3*	55*
6 30	9 46.52	−11 2.5	4.090	3.653	13.6	21.4	58 E	—	52*
7 5	9 51.49	−11 7.2	4.139	3.647	13.2	21.4	55 E	—	48*
7 10	9 56.60	−11 14.5	4.186	3.642	12.6	21.4	52 E	—	44*
7 15	10 1.84	−11 24.2	4.229	3.636	12.1	21.4	48 E	—	41*
7 20	10 7.19	−11 36.3	4.270	3.630	11.5	21.4	45 E	—	37*
7 25	10 12.64	−11 50.5	4.307	3.624	10.9	21.4	42 E	—	34*
7 30	10 18.18	−12 6.9	4.342	3.618	10.3	21.3	40 E	—	30*
8 4	10 23.81	−12 25.3	4.372	3.611	9.7	21.3	37 E	—	27*
8 9	10 29.51	−12 45.7	4.399	3.604	9.1	21.3	34 E	—	23*
8 14	10 35.28	−13 8.0	4.422	3.597	8.5	21.3	31 E	—	20*
8 19	10 41.11	−13 32.1	4.442	3.590	7.9	21.3	29 E	—	16*
8 24	10 46.98	−13 57.9	4.457	3.583	7.3	21.2	27 E	—	13*
8 29	10 52.90	−14 25.2	4.469	3.575	6.7	21.2	25 E	—	10*
9 3	10 58.86	−14 54.1	4.476	3.567	6.3	21.2	23 E	—	6*
9 8	11 4.85	−15 24.4	4.479	3.559	5.9	21.2	21 W	—	4*
9 13	11 10.87	−15 56.1	4.478	3.550	5.6	21.2	20 W	—	6*
9 18	11 16.90	−16 29.1	4.473	3.542	5.4	21.1	19 W	—	8*
9 23	11 22.95	−17 3.3	4.464	3.533	5.4	21.1	19 W	—	10*
9 28	11 29.00	−17 38.5	4.451	3.524	5.5	21.1	20 W	—	12*
10 3	11 35.05	−18 14.8	4.433	3.515	5.8	21.1	21 W	—	14*
10 8	11 41.10	−18 52.0	4.411	3.505	6.1	21.1	22 W	—	16*
10 13	11 47.14	−19 30.1	4.385	3.495	6.6	21.1	24 W	—	18*
10 18	11 53.15	−20 9.0	4.355	3.485	7.2	21.1	26 W	2*	20*
10 23	11 59.14	−20 48.6	4.321	3.475	7.8	21.1	28 W	5*	22*
10 28	12 5.10	−21 28.8	4.282	3.465	8.4	21.1	31 W	7*	24*
11 2	12 11.01	−22 9.6	4.240	3.454	9.1	21.1	33 W	9*	27*
11 7	12 16.86	−22 50.8	4.194	3.443	9.8	21.1	36 W	11*	29*
11 12	12 22.66	−23 32.4	4.144	3.432	10.5	21.1	39 W	13*	32*
11 17	12 28.37	−24 14.4	4.090	3.421	11.2	21.1	42 W	14*	35*
11 22	12 34.00	−24 56.5	4.033	3.409	11.9	21.1	45 W	15*	37*
11 27	12 39.53	−25 38.7	3.972	3.398	12.5	21.1	48 W	16*	41*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	306790 2001 KB_1 *(continuation)*								
	h m	° ′			°	m	°	°	°
12 2	12 44.94	−26 21.1	3.908	3.386	13.2	21.1	52 W	17*	44*
12 7	12 50.22	−27 3.3	3.841	3.374	13.8	21.1	55 W	17*	47*
12 12	12 55.35	−27 45.5	3.771	3.361	14.4	21.0	58 W	17*	51*
12 17	13 0.30	−28 27.4	3.699	3.348	15.0	21.0	62 W	16*	54*
12 22	13 5.06	−29 9.0	3.624	3.336	15.5	21.0	65 W	16*	58*
12 27	13 9.61	−29 50.1	3.547	3.322	16.0	20.9	69 W	15	62*
1 1	13 13.91	−30 30.7	3.468	3.309	16.5	20.9	73 W	14	66*
1 6	13 17.94	−31 10.6	3.388	3.295	16.8	20.8	76 W	14	70*
1 11	13 21.66	−31 49.6	3.306	3.282	17.2	20.8	80 W	13	74*
1 16	13 25.05	−32 27.6	3.223	3.268	17.4	20.7	84 W	13	78*
1 21	13 28.06	−33 4.4	3.140	3.253	17.6	20.7	88 W	12	81*
	10548 1992 PJ_2								
12 27	10 3.93	+ 4 31.5	2.437	3.093	15.3	19.7	124 W	50	59
1 6	10 0.95	+ 4 29.1	2.310	3.079	13.2	19.5	134 W	49	60
1 16	9 55.69	+ 4 41.6	2.202	3.064	10.4	19.3	146 W	50	59
1 26	9 48.39	+ 5 8.9	2.117	3.049	7.2	19.1	157 W	50	59
2 5	9 39.59	+ 5 49.5	2.060	3.032	3.9	18.8	168 W	51	58
2 15	9 30.04	+ 6 40.0	2.034	3.014	2.8	18.7	172 E	52	57
2 20	9 25.28	+ 7 7.5	2.032	3.005	4.1	18.8	168 E	52	57
2 25	9 20.69	+ 7 35.6	2.038	2.996	5.8	18.9	162 E	53	56
3 2	9 16.38	+ 8 3.7	2.051	2.986	7.6	19.0	157 E	53	56
3 7	9 12.45	+ 8 31.2	2.071	2.976	9.4	19.1	151 E	54	55
3 17	9 6.05	+ 9 22.3	2.129	2.956	12.7	19.2	139 E	54	55
3 27	9 1.99	+10 5.5	2.209	2.935	15.4	19.4	128 E	55	54
4 6	9 0.43	+10 38.7	2.304	2.913	17.6	19.6	118 E	56	53
4 16	9 1.34	+11 1.1	2.410	2.890	19.2	19.7	109 E	56	53
4 26	9 4.57	+11 12.2	2.522	2.866	20.3	19.8	100 E	55*	53
5 6	9 9.86	+11 12.4	2.636	2.841	20.8	19.9	91 E	51*	53
5 16	9 16.97	+11 2.0	2.750	2.815	20.9	20.0	83 E	46*	53*
5 26	9 25.63	+10 41.4	2.860	2.788	20.6	20.0	76 E	39*	53*
6 5	9 35.60	+10 11.1	2.964	2.761	20.0	20.1	69 E	32*	51*
6 15	9 46.71	+ 9 31.7	3.060	2.733	19.1	20.1	62 E	26*	49*
6 25	9 58.76	+ 8 43.6	3.148	2.704	18.0	20.1	55 E	20*	45*
7 5	10 11.62	+ 7 47.5	3.225	2.674	16.7	20.1	49 E	15*	41*
7 15	10 25.19	+ 6 43.7	3.291	2.643	15.3	20.0	43 E	11*	36*
7 25	10 39.36	+ 5 32.9	3.345	2.611	13.7	20.0	37 E	7*	31*
8 4	10 54.07	+ 4 15.8	3.387	2.579	11.9	19.9	32 E	4*	26*
8 14	11 9.29	+ 2 52.7	3.416	2.546	10.1	19.8	26 E	2*	20*
8 24	11 24.96	+ 1 24.4	3.432	2.513	8.2	19.8	21 E	—	15*
9 3	11 41.08	− 0 8.3	3.436	2.478	6.2	19.6	15 E	—	9*
9 13	11 57.65	− 1 44.9	3.427	2.443	4.2	19.5	10 E	—	4*
9 23	12 14.66	− 3 24.4	3.406	2.408	2.1	19.3	5 E	—	—
10 3	12 32.13	− 5 6.0	3.372	2.372	0.6	19.1	2 W	—	—
10 13	12 50.09	− 6 48.9	3.326	2.335	2.4	19.2	6 W	—	—
10 23	13 8.55	− 8 31.9	3.270	2.298	4.5	19.3	11 W	3*	2*
11 2	13 27.56	−10 14.0	3.202	2.261	6.7	19.3	15 W	7*	5*
11 12	13 47.14	−11 54.0	3.125	2.224	8.9	19.3	20 W	11*	9*
11 22	14 7.32	−13 30.5	3.038	2.186	11.1	19.3	25 W	15*	13*
12 2	14 28.14	−15 2.2	2.943	2.148	13.3	19.3	30 W	17*	17*
12 12	14 49.60	−16 27.6	2.841	2.111	15.5	19.2	35 W	19*	22*
12 22	15 11.72	−17 45.1	2.733	2.073	17.6	19.2	40 W	21*	27*
1 1	15 34.49	−18 53.1	2.619	2.036	19.7	19.1	44 W	21*	33*
1 11	15 57.88	−19 49.9	2.502	1.999	21.8	19.1	49 W	22*	38*
1 21	16 21.82	−20 33.9	2.382	1.963	23.8	19.0	53 W	22*	44*
	120450 1982 SV								
12 27	10 5.21	−21 23.5	1.101	1.708	32.8	18.7	110 W	24	85
1 1	10 6.82	−21 52.1	1.079	1.726	31.5	18.6	114 W	23	86
1 6	10 7.48	−22 10.1	1.057	1.744	30.0	18.5	117 W	23	86
1 11	10 7.18	−22 16.4	1.037	1.763	28.4	18.5	121 W	23	86
1 16	10 5.96	−22 9.7	1.018	1.782	26.6	18.4	126 W	23	86
1 21	10 3.89	−21 49.0	1.002	1.801	24.7	18.3	130 W	23	86
1 26	10 1.08	−21 13.7	0.990	1.821	22.6	18.3	135 W	24	85
1 31	9 57.68	−20 23.5	0.980	1.841	20.5	18.2	139 W	25	84
2 5	9 53.85	−19 18.7	0.975	1.862	18.4	18.1	143 W	26	83
2 10	9 49.77	−18 0.1	0.975	1.883	16.4	18.1	147 W	27	82
2 15	9 45.68	−16 29.3	0.980	1.903	14.7	18.1	151 E	29	80
2 20	9 41.77	−14 48.5	0.991	1.925	13.5	18.1	153 E	30	79
2 25	9 38.24	−13 0.6	1.007	1.946	12.9	18.1	154 E	32	77
3 2	9 35.24	−11 8.6	1.030	1.967	12.9	18.2	154 E	34	75
3 7	9 32.88	− 9 15.4	1.059	1.989	13.6	18.3	152 E	36	73
3 12	9 31.24	− 7 23.8	1.093	2.011	14.8	18.4	149 E	38	71
3 17	9 30.38	− 5 36.1	1.134	2.032	16.2	18.6	145 E	39	70
3 22	9 30.31	− 3 54.3	1.180	2.054	17.7	18.7	141 E	41	68
3 27	9 31.01	− 2 19.8	1.231	2.076	19.1	18.9	137 E	43	66
4 6	9 34.59	+ 0 24.4	1.347	2.120	21.7	19.2	128 E	45	64
4 16	9 40.74	+ 2 34.2	1.479	2.164	23.7	19.5	120 E	48	61
4 26	9 49.02	+ 4 10.7	1.622	2.207	25.0	19.8	112 E	49	60
5 6	9 58.97	+ 5 17.5	1.775	2.250	25.7	20.1	104 E	49*	59

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
120450 1982 *SV*							*(continuation)*		
	h m	° ′			°	m	°	°	°
5 16	10 10.24	+ 5 58.5	1.934	2.293	25.9	20.3	97 E	47*	58
5 26	10 22.51	+ 6 17.6	2.096	2.335	25.7	20.5	90 E	43*	58
6 5	10 35.52	+ 6 18.3	2.261	2.377	25.1	20.7	84 E	39*	58
6 15	10 49.08	+ 6 3.7	2.425	2.418	24.2	20.9	78 E	33*	57*
6 25	11 3.06	+ 5 36.5	2.587	2.458	23.1	21.0	71 E	29*	56*
7 5	11 17.31	+ 4 59.1	2.745	2.498	21.7	21.1	65 E	24*	53*
7 15	11 31.78	+ 4 13.4	2.898	2.536	20.2	21.2	59 E	21*	50*
7 25	11 46.41	+ 3 21.3	3.044	2.574	18.5	21.3	54 E	17*	45*
8 4	12 1.14	+ 2 24.3	3.183	2.612	16.7	21.4	48 E	15*	40*
8 14	12 15.96	+ 1 23.8	3.312	2.648	14.8	21.4	42 E	12*	35*
8 24	12 30.83	+ 0 20.9	3.431	2.683	12.9	21.5	36 E	10*	30*
9 3	12 45.74	− 0 43.0	3.537	2.718	10.9	21.5	31 E	9*	24*
9 13	13 0.69	− 1 47.0	3.632	2.752	8.9	21.5	25 E	7*	18*
9 23	13 15.65	− 2 49.9	3.712	2.784	6.8	21.5	19 E	5*	12*
10 3	13 30.61	− 3 50.9	3.778	2.816	4.8	21.4	14 E	4*	6*
10 13	13 45.55	− 4 49.1	3.829	2.847	3.1	21.4	9 E	2*	—
10 23	14 0.44	− 5 43.5	3.864	2.877	2.1	21.4	6 E	—	—
11 2	14 15.24	− 6 33.2	3.882	2.905	3.0	21.5	9 W	2*	—
465749 2009 WO_6									
12 27	10 6.94	+60 59.2	0.433	1.289	37.8	17.5	127 W	74	3
12 29	10 19.36	+62 37.3	0.439	1.289	38.3	17.5	126 W	72	1
12 31	10 32.14	+64 7.1	0.446	1.290	38.9	17.5	125 W	71	—
1 2	10 45.20	+65 28.3	0.453	1.290	39.4	17.6	124 W	70	—
1 4	10 58.44	+66 41.1	0.462	1.292	39.9	17.7	123 W	68	—
1 6	11 11.74	+67 45.9	0.471	1.293	40.4	17.7	122 W	67	—
1 8	11 24.95	+68 43.1	0.480	1.296	40.8	17.8	121 W	66	—
1 10	11 37.95	+69 33.0	0.489	1.298	41.1	17.8	120 W	65	—
1 12	11 50.59	+70 16.2	0.499	1.301	41.4	17.9	119 W	65	—
1 14	12 2.73	+70 53.5	0.510	1.304	41.7	17.9	118 W	64	—
1 16	12 14.26	+71 25.2	0.520	1.308	41.9	18.0	117 W	64	—
1 18	12 25.05	+71 52.1	0.531	1.312	42.0	18.1	117 W	63	—
1 20	12 35.04	+72 14.7	0.542	1.317	42.1	18.1	116 W	63	—
1 22	12 44.15	+72 33.6	0.553	1.321	42.2	18.2	116 W	62	—
1 24	12 52.33	+72 49.2	0.565	1.327	42.2	18.2	115 W	62	—
1 26	12 59.55	+73 2.0	0.576	1.332	42.2	18.3	115 W	62	—
1 31	13 13.35	+73 23.8	0.604	1.348	42.0	18.4	114 W	62	—
2 5	13 21.19	+73 34.1	0.633	1.365	41.6	18.5	113 W	61	—
2 10	13 23.50	+73 34.3	0.662	1.385	41.1	18.6	113 W	61	—
2 15	13 20.96	+73 23.9	0.691	1.406	40.4	18.7	113 W	62	—
2 17	13 18.80	+73 16.5	0.702	1.415	40.1	18.8	113 W	62	—
2 19	13 16.09	+73 7.1	0.714	1.424	39.8	18.8	113 W	62	—
2 21	13 12.91	+72 55.6	0.726	1.434	39.5	18.9	113 W	62	—
2 23	13 9.32	+72 41.8	0.737	1.444	39.2	18.9	113 W	62	—
2 25	13 5.41	+72 25.8	0.749	1.454	38.9	18.9	113 W	63	—
2 27	13 1.24	+72 7.3	0.761	1.464	38.6	19.0	113 W	63	—
3 1	12 56.89	+71 46.5	0.773	1.474	38.2	19.0	113 W	63	—
3 3	12 52.44	+71 23.1	0.785	1.485	37.9	19.1	113 W	64	—
3 5	12 47.93	+70 57.2	0.797	1.496	37.6	19.1	113 W	64	—
3 7	12 43.42	+70 28.8	0.809	1.507	37.2	19.1	113 W	65	—
3 9	12 38.98	+69 57.9	0.821	1.518	36.9	19.2	113 W	65	—
3 11	12 34.65	+69 24.5	0.834	1.530	36.6	19.2	113 W	66	—
3 13	12 30.46	+68 48.6	0.847	1.541	36.3	19.3	113 W	66	—
3 15	12 26.46	+68 10.3	0.860	1.553	35.9	19.3	114 W	67	—
3 17	12 22.68	+67 29.7	0.873	1.565	35.6	19.3	114 W	68	—
3 22	12 14.26	+65 38.7	0.907	1.595	34.8	19.4	114 W	69	—
3 27	12 7.44	+63 35.8	0.943	1.626	34.1	19.5	114 E	71	—
4 1	12 2.21	+61 23.1	0.981	1.658	33.5	19.7	114 E	74	3
4 6	11 58.45	+59 2.6	1.021	1.691	32.9	19.8	113 E	76	5
4 11	11 56.02	+56 36.2	1.064	1.724	32.3	19.9	113 E	78	7
4 16	11 54.78	+54 5.7	1.110	1.757	31.9	20.0	112 E	81	10
4 21	11 54.58	+51 32.9	1.159	1.791	31.5	20.1	112 E	83	12
4 26	11 55.28	+48 59.2	1.211	1.825	31.1	20.3	111 E	86	15
5 1	11 56.74	+46 26.1	1.266	1.860	30.7	20.4	109 E	89	18
5 6	11 58.83	+43 54.4	1.324	1.895	30.4	20.5	108 E	89	20
5 11	12 1.49	+41 24.9	1.385	1.929	30.2	20.6	106 E	86	23
5 16	12 4.63	+38 58.4	1.449	1.964	29.9	20.8	105 E	84	25
5 21	12 8.18	+36 35.4	1.516	1.999	29.6	20.9	103 E	82	27
5 26	12 12.09	+34 16.3	1.585	2.034	29.3	21.0	101 E	79*	30
5 31	12 16.30	+32 1.3	1.658	2.069	29.0	21.1	99 E	76*	32
6 5	12 20.77	+29 50.5	1.733	2.104	28.6	21.3	96 E	72*	34
6 10	12 25.47	+27 44.0	1.810	2.139	28.2	21.4	94 E	68*	36
54718 2001 HB_{61}									
12 27	10 7.75	+17 44.1	2.065	2.776	16.3	19.9	128 W	63	46
1 6	10 4.21	+18 57.3	1.987	2.802	13.4	19.7	139 W	64	45
1 16	9 57.97	+20 22.9	1.930	2.827	9.9	19.5	150 W	65	44
1 26	9 49.45	+21 54.4	1.898	2.850	6.2	19.3	162 W	67	42

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
54718 2001 HB_{61}							*(continuation)*		
	h m	° ′			°	m	°	°	°
1 31	9 44.56	+22 39.8	1.893	2.862	4.4	19.3	167 W	68	41
2 5	9 39.41	+23 23.6	1.896	2.873	3.2	19.2	171 W	68	41
2 10	9 34.13	+24 4.8	1.907	2.884	3.3	19.2	170 E	69	40
2 15	9 28.88	+24 42.6	1.925	2.895	4.5	19.3	167 E	70	39
2 20	9 23.80	+25 16.2	1.951	2.905	6.2	19.4	162 E	70	39
2 25	9 19.03	+25 45.2	1.984	2.916	7.9	19.6	156 E	71	38
3 2	9 14.68	+26 9.4	2.023	2.926	9.7	19.7	150 E	71	38
3 7	9 10.85	+26 28.8	2.069	2.935	11.3	19.8	145 E	71	38
3 17	9 4.99	+26 53.6	2.178	2.954	14.1	20.0	134 E	72	37
3 27	9 1.78	+27 1.5	2.305	2.972	16.3	20.3	123 E	72	37
4 6	9 1.23	+26 55.2	2.444	2.988	17.9	20.4	114 E	72	37
4 16	9 3.14	+26 37.3	2.593	3.004	18.9	20.6	104 E	72	37
4 26	9 7.23	+26 9.9	2.747	3.018	19.4	20.8	96 E	70*	38
5 6	9 13.18	+25 34.5	2.901	3.032	19.4	20.9	88 E	64*	38
5 16	9 20.68	+24 52.2	3.054	3.044	19.1	21.0	80 E	57*	39
5 26	9 29.46	+24 4.0	3.203	3.055	18.4	21.1	73 E	49*	40*
6 5	9 39.26	+23 10.6	3.345	3.066	17.5	21.2	65 E	42*	39*
6 15	9 49.89	+22 12.5	3.478	3.075	16.4	21.2	59 E	35*	38*
6 25	10 1.19	+21 10.2	3.602	3.083	15.1	21.3	52 E	29*	35*
7 5	10 12.99	+20 4.3	3.714	3.091	13.6	21.3	46 E	24*	32*
7 15	10 25.21	+18 55.1	3.814	3.097	12.0	21.3	39 E	19*	28*
7 25	10 37.74	+17 43.2	3.900	3.102	10.4	21.3	33 E	15*	23*
8 4	10 50.51	+16 29.1	3.972	3.106	8.6	21.2	27 E	12*	18*
8 14	11 3.46	+15 13.4	4.029	3.109	6.9	21.2	22 E	9*	13*
8 24	11 16.54	+13 56.6	4.070	3.111	5.2	21.1	16 E	7*	7*
9 3	11 29.71	+12 39.3	4.094	3.112	3.7	21.1	11 E	5*	1*
9 13	11 42.94	+11 22.1	4.103	3.112	2.9	21.0	9 E	3*	—
9 23	11 56.18	+10 5.8	4.094	3.111	3.2	21.0	10 W	2*	—
10 3	12 9.39	+ 8 51.1	4.069	3.109	4.6	21.1	14 W	8*	—
10 13	12 22.56	+ 7 38.6	4.027	3.106	6.2	21.2	20 W	14*	—
10 23	12 35.62	+ 6 29.4	3.969	3.102	8.0	21.2	26 W	20*	3*
11 2	12 48.53	+ 5 24.1	3.895	3.097	9.7	21.2	32 W	26*	7*
11 12	13 1.24	+ 4 23.8	3.806	3.090	11.4	21.3	38 W	31*	12*
11 22	13 13.66	+ 3 29.4	3.702	3.083	13.1	21.3	45 W	36*	18*
12 2	13 25.72	+ 2 41.9	3.586	3.075	14.6	21.2	52 W	40*	24*
12 12	13 37.30	+ 2 2.3	3.457	3.065	15.9	21.2	59 W	44*	30*
12 22	13 48.27	+ 1 31.7	3.319	3.055	17.1	21.1	66 W	45*	37*
1 1	13 58.49	+ 1 11.3	3.173	3.043	18.0	21.1	74 W	46*	44*
1 11	14 7.75	+ 1 2.0	3.020	3.031	18.7	21.0	81 W	46	51*
1 21	14 15.86	+ 1 4.9	2.865	3.017	19.0	20.9	89 W	46	57*
99915 1997 TR_6									
12 27	10 7.78	+11 11.3	2.530	3.202	14.5	20.3	125 W	56	53
1 6	10 4.04	+11 37.3	2.447	3.233	12.1	20.1	137 W	57	52
1 16	9 58.19	+12 14.9	2.384	3.263	9.1	20.0	148 W	57	52
1 26	9 50.59	+13 1.3	2.348	3.293	5.7	19.8	161 W	58	51
2 5	9 41.86	+13 52.5	2.340	3.321	2.1	19.6	173 W	59	50
2 10	9 37.31	+14 18.4	2.348	3.335	0.2	19.4	179 W	59	50
2 15	9 32.78	+14 43.8	2.364	3.349	1.6	19.6	175 E	60	49
2 20	9 28.37	+15 8.1	2.388	3.362	3.4	19.8	168 E	60	49
2 25	9 24.20	+15 30.9	2.419	3.376	5.1	19.9	162 E	61	48
3 7	9 16.84	+16 10.3	2.504	3.401	8.3	20.1	150 E	61	48
3 17	9 11.25	+16 40.1	2.614	3.427	11.0	20.3	139 E	62	47
3 27	9 7.73	+16 59.7	2.745	3.451	13.2	20.6	128 E	62	47
4 6	9 6.33	+17 9.2	2.892	3.474	14.8	20.7	118 E	62	47
4 16	9 6.99	+17 9.4	3.051	3.497	15.8	20.9	108 E	62	47
4 26	9 9.52	+17 1.0	3.217	3.518	16.4	21.1	99 E	61*	47
5 6	9 13.69	+16 44.7	3.386	3.539	16.6	21.2	90 E	57*	47
5 16	9 19.27	+16 21.5	3.555	3.559	16.3	21.3	82 E	50*	48*
5 26	9 26.04	+15 51.8	3.719	3.578	15.8	21.4	74 E	43*	47*
6 5	9 33.79	+15 16.4	3.878	3.596	15.0	21.5	67 E	36*	46*
317984 2004 BC_{11}									
12 27	10 8.06	+ 7 38.9	1.068	1.812	26.7	18.0	124 W	53	56
1 1	10 3.48	+ 6 15.4	1.052	1.842	24.3	18.0	130 W	51	58
1 6	9 57.79	+ 4 56.3	1.040	1.871	21.7	17.9	135 W	50	59
1 11	9 51.11	+ 3 42.5	1.032	1.901	18.9	17.8	141 W	49	60
1 16	9 43.59	+ 2 34.9	1.030	1.931	16.1	17.8	147 W	48	61
1 21	9 35.44	+ 1 34.4	1.035	1.961	13.3	17.7	153 W	47	62
1 26	9 26.95	+ 0 41.6	1.045	1.991	10.8	17.7	158 W	46	63
2 5	9 9.97	− 0 39.9	1.087	2.051	7.9	17.7	163 E	44	65
2 15	8 54.71	− 1 30.2	1.157	2.111	9.4	18.0	160 E	43	66
2 25	8 42.72	− 1 55.2	1.254	2.171	13.0	18.3	151 E	43	66
3 2	8 38.20	− 2 0.9	1.310	2.200	14.8	18.5	146 E	43	66
3 7	8 34.68	− 2 3.3	1.372	2.230	16.4	18.7	141 E	43	66
3 12	8 32.15	− 2 3.5	1.439	2.259	17.9	18.9	136 E	43	66
3 17	8 30.58	− 2 2.3	1.509	2.288	19.2	19.1	131 E	43	66
3 22	8 29.90	− 2 0.5	1.584	2.317	20.3	19.2	126 E	43	66
3 27	8 30.05	− 1 58.7	1.661	2.346	21.2	19.4	122 E	43	66

317984 2004 BC_{11} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 6	8 32.53	− 1 57.0	1.823	2.403	22.5	19.7	113 E	43	66
4 16	8 37.47	− 2 0.1	1.993	2.458	23.2	19.9	105 E	43*	66
4 26	8 44.38	− 2 9.8	2.168	2.514	23.4	20.2	98 E	41*	66
5 6	8 52.82	− 2 27.0	2.345	2.568	23.1	20.4	91 E	37*	66
5 16	9 2.46	− 2 52.0	2.522	2.621	22.6	20.6	84 E	32*	66*
5 26	9 13.03	− 3 25.0	2.697	2.673	21.7	20.7	78 E	26*	65*
6 5	9 24.29	− 4 5.7	2.869	2.724	20.7	20.9	72 E	20*	62*
6 15	9 36.10	− 4 53.8	3.035	2.774	19.5	21.0	66 E	13*	58*
6 25	9 48.29	− 5 48.9	3.195	2.823	18.1	21.1	60 E	8*	54*
7 5	10 0.77	− 6 50.5	3.348	2.870	16.7	21.2	54 E	3*	48*
7 15	10 13.45	− 7 58.0	3.491	2.917	15.1	21.3	48 E	—	42*
7 25	10 26.26	− 9 11.1	3.624	2.963	13.5	21.3	43 E	—	36*
8 4	10 39.14	−10 29.2	3.745	3.007	11.9	21.4	38 E	—	29*
8 14	10 52.06	−11 51.7	3.855	3.051	10.3	21.4	33 E	—	23*
8 24	11 4.96	−13 18.3	3.950	3.093	8.8	21.4	28 E	—	17*
9 3	11 17.82	−14 48.3	4.032	3.134	7.4	21.4	24 E	—	10*
9 13	11 30.61	−16 21.5	4.099	3.174	6.3	21.5	20 E	—	4*
9 23	11 43.28	−17 57.3	4.150	3.213	5.7	21.5	18 W	—	6*

180309 2003 XR

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 27	10 8.40	+ 9 15.8	1.942	2.628	17.9	21.5	125 W	54	55
1 6	10 4.64	+ 9 8.6	1.850	2.643	15.1	21.3	136 W	54	55
1 16	9 58.09	+ 9 15.8	1.777	2.658	11.5	21.1	147 W	54	55
1 26	9 49.14	+ 9 35.9	1.727	2.671	7.4	20.9	159 W	55	54
2 5	9 38.58	+10 5.5	1.704	2.684	3.1	20.6	172 W	55	54
2 15	9 27.48	+10 40.2	1.712	2.695	2.5	20.6	173 E	56	53
2 25	9 17.07	+11 14.7	1.749	2.706	6.7	20.9	161 E	56	53
3 7	9 8.38	+11 44.8	1.814	2.716	10.7	21.1	149 E	57	52
3 17	9 2.13	+12 7.5	1.903	2.724	14.2	21.4	138 E	57	52

306857 2001 SR_{169}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 27	10 9.21	+46 15.5	2.781	3.491	12.5	21.5	130 W	89	18
1 1	10 6.64	+46 55.5	2.730	3.480	11.8	21.4	133 W	88	17
1 6	10 3.25	+47 35.1	2.685	3.470	11.1	21.3	137 W	87	16
1 11	9 59.03	+48 13.2	2.645	3.459	10.5	21.3	140 W	87	16
1 16	9 54.02	+48 48.8	2.612	3.448	9.9	21.2	143 W	86	15
1 21	9 48.29	+49 20.5	2.584	3.437	9.5	21.2	145 W	86	15
1 26	9 41.95	+49 47.3	2.564	3.425	9.2	21.1	146 W	85	14
1 31	9 35.13	+50 8.3	2.550	3.413	9.2	21.1	146 W	85	14
2 5	9 27.99	+50 22.6	2.543	3.401	9.4	21.1	146 W	85	14
2 10	9 20.71	+50 29.6	2.542	3.389	9.9	21.1	144 E	85	14
2 15	9 13.48	+50 29.0	2.548	3.377	10.5	21.1	141 E	85	14
2 20	9 6.51	+50 20.8	2.561	3.364	11.3	21.2	138 E	85	14
2 25	8 59.97	+50 5.3	2.579	3.351	12.1	21.2	135 E	85	14
3 2	8 54.01	+49 43.1	2.603	3.338	12.9	21.3	131 E	85	14
3 7	8 48.74	+49 14.8	2.632	3.325	13.8	21.3	127 E	86	15
3 12	8 44.24	+48 41.2	2.665	3.311	14.6	21.3	123 E	86	15
3 17	8 40.57	+48 3.0	2.703	3.297	15.4	21.4	119 E	87	16
3 22	8 37.75	+47 21.1	2.744	3.283	16.0	21.4	114 E	88	17
3 27	8 35.77	+46 36.1	2.788	3.269	16.7	21.5	110 E	88	17

137722 1999 XN_{104}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 27	10 9.40	−15 40.1	1.811	2.368	22.6	20.2	112 W	29	80
1 1	10 7.73	−16 45.2	1.776	2.384	21.6	20.2	117 W	28	81
1 6	10 5.29	−17 45.2	1.743	2.400	20.6	20.1	121 W	27	82
1 11	10 2.07	−18 39.1	1.714	2.416	19.5	20.1	125 W	26	83
1 16	9 58.13	−19 25.9	1.690	2.432	18.3	20.0	129 W	26	83
1 21	9 53.53	−20 4.7	1.669	2.448	17.1	20.0	133 W	25	84
1 26	9 48.38	−20 34.8	1.653	2.463	16.0	19.9	137 W	24	85
1 31	9 42.80	−20 55.6	1.643	2.478	14.9	19.9	140 W	24	85
2 5	9 36.92	−21 6.7	1.638	2.493	13.9	19.9	142 W	24	85
2 10	9 30.92	−21 8.0	1.639	2.508	13.2	19.8	144 E	24	85
2 15	9 24.96	−20 59.8	1.646	2.523	12.8	19.8	145 E	24	85
2 20	9 19.23	−20 42.7	1.659	2.537	12.7	19.9	146 E	24	85
2 25	9 13.87	−20 17.9	1.678	2.551	12.9	19.9	145 E	25	84
3 2	9 9.02	−19 46.4	1.703	2.565	13.4	20.0	143 E	25	84
3 7	9 4.78	−19 9.6	1.734	2.579	14.1	20.1	141 E	26	83
3 12	9 1.23	−18 28.7	1.770	2.593	14.9	20.1	138 E	27	82
3 17	8 58.41	−17 45.2	1.811	2.606	15.8	20.2	134 E	27	82
3 22	8 56.37	−17 0.4	1.857	2.619	16.7	20.3	131 E	28	81
3 27	8 55.09	−16 15.3	1.907	2.632	17.6	20.4	127 E	29	80
4 1	8 54.56	−15 31.1	1.961	2.645	18.4	20.5	123 E	29	80
4 6	8 54.74	−14 48.4	2.018	2.657	19.1	20.6	119 E	30	79
4 11	8 55.60	−14 8.0	2.079	2.669	19.8	20.7	116 E	31	78
4 16	8 57.10	−13 30.2	2.141	2.681	20.3	20.8	112 E	31	78
4 21	8 59.19	−12 55.5	2.206	2.693	20.8	20.9	108 E	32*	77
4 26	9 1.83	−12 24.3	2.273	2.705	21.1	21.0	104 E	32*	76
5 1	9 4.96	−11 56.6	2.341	2.716	21.4	21.1	101 E	31*	76
5 6	9 8.55	−11 32.6	2.410	2.727	21.5	21.1	97 E	30*	76
5 11	9 12.55	−11 12.2	2.480	2.738	21.6	21.2	94 E	28*	75
5 16	9 16.92	−10 55.4	2.550	2.748	21.6	21.3	90 E	26*	75*
5 21	9 21.63	−10 42.4	2.620	2.758	21.5	21.3	87 E	24*	74*

137722 1999 XN_{104} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 26	9 26.64	−10 32.9	2.691	2.768	21.3	21.4	84 E	22*	73*
5 31	9 31.92	−10 26.9	2.760	2.778	21.1	21.5	80 E	19*	71*

99935 2002 AV_4

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 27	10 9.59	+34 35.3	1.109	1.896	23.4	18.7	130 W	80	29
1 1	10 2.03	+35 43.0	1.102	1.933	20.8	18.7	136 W	81	28
1 6	9 52.99	+36 48.4	1.099	1.968	18.0	18.6	142 W	82	27
1 11	9 42.62	+37 48.5	1.103	2.002	15.4	18.6	147 W	83	26
1 16	9 31.20	+38 40.4	1.113	2.035	13.0	18.5	152 W	84	25
1 21	9 19.11	+39 21.6	1.130	2.067	11.2	18.5	156 W	84	25
1 26	9 6.80	+39 50.2	1.154	2.099	10.2	18.6	158 W	85	24
1 31	8 54.70	+40 5.9	1.186	2.129	10.3	18.7	157 W	85	24
2 5	8 43.25	+40 8.9	1.225	2.159	11.2	18.8	155 E	85	24
2 10	8 32.77	+40 0.5	1.271	2.188	12.6	19.0	151 E	85	24
2 15	8 23.54	+39 42.4	1.324	2.215	14.2	19.1	147 E	85	24
2 20	8 15.70	+39 16.4	1.382	2.242	15.9	19.3	142 E	84	25
2 25	8 9.30	+38 44.7	1.446	2.268	17.5	19.5	136 E	84	25
3 2	8 4.33	+38 8.8	1.515	2.294	18.9	19.7	131 E	83	26
3 7	8 0.69	+37 30.2	1.588	2.318	20.2	19.8	126 E	83	26
3 12	7 58.31	+36 50.0	1.664	2.342	21.2	20.0	122 E	82	27
3 17	7 57.08	+36 9.0	1.744	2.365	22.1	20.1	117 E	81	28
3 22	7 56.87	+35 27.7	1.825	2.387	22.7	20.3	112 E	80	29
3 27	7 57.58	+34 46.4	1.909	2.408	23.2	20.4	108 E	80	29
4 1	7 59.09	+34 5.5	1.994	2.429	23.6	20.5	103 E	79	30
4 6	8 1.30	+33 25.0	2.080	2.449	23.8	20.7	99 E	78	31
4 11	8 4.14	+32 45.0	2.167	2.468	23.9	20.8	95 E	77*	31
4 16	8 7.52	+32 5.3	2.253	2.486	23.8	20.9	91 E	74*	32
4 21	8 11.38	+31 26.0	2.340	2.504	23.6	21.0	87 E	71*	33
4 26	8 15.65	+30 46.9	2.426	2.521	23.4	21.0	84 E	67*	33
5 1	8 20.27	+30 8.1	2.511	2.537	23.0	21.1	80 E	64*	34*
5 6	8 25.20	+29 29.4	2.595	2.552	22.6	21.2	76 E	60*	34*
5 11	8 30.41	+28 50.7	2.677	2.567	22.1	21.3	73 E	56*	35*
5 16	8 35.85	+28 12.0	2.758	2.581	21.5	21.3	69 E	52*	35*
5 21	8 41.49	+27 33.1	2.836	2.594	20.9	21.4	66 E	48*	35*
5 26	8 47.31	+26 54.0	2.913	2.607	20.2	21.4	63 E	44*	35*
5 31	8 53.27	+26 14.6	2.987	2.619	19.5	21.4	59 E	40*	34*
6 5	8 59.36	+25 35.0	3.058	2.630	18.7	21.5	56 E	36*	34*

344161 2000 YK_{18}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 27	10 11.11	− 0 44.8	1.032	1.744	29.3	18.9	120 W	44	65
1 1	10 12.82	− 1 22.5	1.006	1.756	27.6	18.8	124 W	44	65
1 6	10 13.56	− 1 53.2	0.981	1.770	25.8	18.7	129 W	43	66
1 11	10 13.31	− 2 16.3	0.959	1.784	23.7	18.6	133 W	43	66
1 16	10 12.10	− 2 31.1	0.941	1.798	21.4	18.5	138 W	42	67
1 26	10 7.09	− 2 33.9	0.915	1.829	16.3	18.3	149 W	42	67
2 5	9 59.47	− 2 1.9	0.908	1.861	11.1	18.1	159 W	43	66
2 15	9 50.68	− 1 0.1	0.921	1.895	7.1	18.0	166 E	44	65
2 20	9 46.39	− 0 21.2	0.937	1.913	6.8	18.1	167 E	45	64
2 25	9 42.45	+ 0 20.8	0.958	1.931	7.7	18.2	165 E	45	64
3 2	9 39.03	+ 1 4.2	0.985	1.949	9.5	18.3	161 E	46	63
3 7	9 36.25	+ 1 47.5	1.017	1.967	11.6	18.5	156 E	47	62
3 12	9 34.21	+ 2 29.3	1.055	1.986	13.8	18.7	152 E	47	62
3 17	9 32.97	+ 3 8.6	1.098	2.005	15.9	18.9	147 E	48	61
3 22	9 32.56	+ 3 44.3	1.145	2.024	17.8	19.1	142 E	49	60
3 27	9 32.96	+ 4 15.9	1.197	2.043	19.5	19.2	137 E	49	60
4 6	9 36.04	+ 5 5.5	1.311	2.082	22.3	19.6	128 E	50	59
4 16	9 41.84	+ 5 36.3	1.438	2.121	24.3	19.9	120 E	51	58
4 26	9 49.91	+ 5 48.9	1.575	2.161	25.6	20.1	112 E	51	58
5 6	9 59.77	+ 5 44.7	1.719	2.201	26.3	20.4	105 E	50*	58
5 16	10 11.04	+ 5 25.5	1.869	2.241	26.6	20.6	98 E	47*	59
5 26	10 23.39	+ 4 53.3	2.023	2.280	26.4	20.8	91 E	42*	59
6 5	10 36.53	+ 4 9.8	2.179	2.320	25.8	21.0	85 E	37*	60
6 15	10 50.29	+ 3 16.7	2.335	2.359	25.0	21.2	79 E	31*	60*
6 25	11 4.50	+ 2 15.5	2.490	2.398	23.9	21.3	73 E	26*	59*
7 5	11 19.03	+ 1 7.7	2.642	2.437	22.6	21.4	67 E	22*	57*

349074 2007 BM_8

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 27	10 11.31	+39 52.4	0.879	1.686	26.7	20.4	130 W	85	24
1 1	10 13.34	+43 2.0	0.810	1.646	25.9	20.1	133 W	88	21
1 6	10 14.06	+46 42.5	0.746	1.603	25.4	19.9	136 W	88	17
1 11	10 12.96	+50 56.1	0.689	1.559	25.5	19.6	137 W	84	13
1 16	10 9.15	+55 42.7	0.638	1.514	26.4	19.4	137 W	79	8
1 18	10 6.56	+57 45.9	0.620	1.495	27.1	19.4	136 W	77	6
1 20	10 3.16	+59 53.5	0.604	1.476	28.0	19.3	135 W	75	4
1 22	9 58.76	+62 4.9	0.588	1.456	29.0	19.2	134 W	73	2
1 24	9 53.09	+64 19.4	0.574	1.437	30.3	19.2	133 W	71	—
1 26	9 45.79	+66 35.9	0.562	1.416	31.8	19.2	131 W	68	—

349074 2007 *BM*$_8$ *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 27	9 41.38	+67 44.5	0.556	1.406	32.6	19.1	130 W	67	—
1 28	9 36.36	+68 53.2	0.550	1.396	33.4	19.1	129 W	66	—
1 29	9 30.62	+70 1.6	0.545	1.386	34.3	19.1	128 W	65	—
1 30	9 24.05	+71 9.6	0.540	1.375	35.2	19.1	126 W	64	—
1 31	9 16.50	+72 16.9	0.535	1.365	36.2	19.1	125 W	63	—
2 1	9 7.81	+73 23.0	0.531	1.354	37.2	19.1	124 W	62	—
2 2	8 57.77	+74 27.6	0.527	1.344	38.2	19.1	122 E	61	—
2 3	8 46.13	+75 30.1	0.523	1.333	39.3	19.1	121 E	59	—
2 4	8 32.62	+76 29.9	0.520	1.322	40.4	19.1	120 E	58	—
2 5	8 16.91	+77 26.3	0.517	1.311	41.5	19.1	118 E	58	—
2 6	7 58.69	+78 18.4	0.514	1.300	42.7	19.1	117 E	57	—
2 7	7 37.67	+79 5.0	0.511	1.289	43.8	19.1	115 E	56	—
2 8	7 13.66	+79 45.0	0.509	1.278	45.0	19.1	114 E	55	—
2 9	6 46.71	+80 17.0	0.507	1.267	46.2	19.1	112 E	55	—
2 10	6 17.19	+80 39.7	0.505	1.255	47.5	19.1	110 E	54	—
2 11	5 45.90	+80 52.2	0.503	1.244	48.7	19.1	109 E	54	—
2 12	5 13.98	+80 53.9	0.502	1.232	49.9	19.1	107 E	54	—
2 13	4 42.70	+80 44.9	0.501	1.221	51.2	19.1	106 E	54	—
2 14	4 13.17	+80 26.1	0.500	1.209	52.5	19.1	104 E	55	—
2 15	3 46.18	+79 58.5	0.499	1.197	53.7	19.1	102 E	55	—
2 16	3 22.09	+79 23.5	0.498	1.185	55.0	19.2	101 E	56*	—
2 17	3 0.92	+78 42.5	0.498	1.173	56.3	19.2	99 E	56*	—
2 18	2 42.49	+77 56.9	0.498	1.161	57.6	19.2	97 E	56*	—
2 19	2 26.51	+77 7.5	0.497	1.149	58.9	19.2	96 E	57*	—
2 20	2 12.64	+76 15.3	0.497	1.137	60.2	19.2	94 E	57*	—
2 21	2 0.59	+75 21.0	0.497	1.124	61.5	19.2	92 E	57*	—
2 22	1 50.06	+74 25.0	0.498	1.112	62.8	19.2	91 E	57*	—
2 23	1 40.83	+73 27.9	0.498	1.099	64.1	19.3	89 E	56*	—
2 24	1 32.69	+72 29.8	0.498	1.087	65.5	19.3	87 E	56*	—
2 25	1 25.46	+71 31.1	0.499	1.074	66.8	19.3	86 E	56*	—
2 26	1 19.01	+70 31.9	0.499	1.061	68.1	19.3	84 E	55*	—
2 27	1 13.22	+69 32.4	0.500	1.048	69.5	19.3	82 E	55*	—
2 28	1 7.99	+68 32.5	0.500	1.035	70.8	19.4	81 E	54*	—
3 1	1 3.24	+67 32.5	0.501	1.022	72.2	19.4	79 E	53*	—
3 2	0 58.91	+66 32.3	0.502	1.008	73.6	19.4	77 E	52*	—
3 3	0 54.93	+65 31.9	0.502	0.995	75.0	19.4	76 E	52*	—
3 4	0 51.26	+64 31.3	0.503	0.981	76.4	19.4	74 E	51*	—
3 5	0 47.86	+63 30.6	0.504	0.968	77.8	19.5	72 E	50*	—
3 6	0 44.70	+62 29.6	0.505	0.954	79.2	19.5	71 E	49*	—
3 7	0 41.74	+61 28.3	0.505	0.940	80.6	19.5	69 E	47*	—
3 9	0 36.34	+59 24.7	0.507	0.912	83.6	19.6	66 E	45*	—
3 11	0 31.50	+57 19.2	0.509	0.884	86.6	19.6	63 E	42*	—
3 13	0 27.10	+55 11.1	0.511	0.855	89.8	19.7	59 E	40*	—
3 15	0 23.07	+52 59.7	0.513	0.826	93.0	19.7	56 E	37*	—
3 17	0 19.35	+50 44.1	0.515	0.796	96.4	19.8	53 E	34*	—
3 19	0 15.89	+48 23.5	0.518	0.766	99.9	19.9	49 E	31*	—
3 21	0 12.70	+45 57.0	0.521	0.736	103.6	20.0	46 E	27*	—
3 23	0 9.76	+43 23.9	0.525	0.705	107.4	20.2	42 E	24*	—
3 25	0 7.10	+40 43.4	0.529	0.674	111.3	20.3	39 W	23*	—
3 27	0 4.75	+37 55.3	0.536	0.644	115.3	20.5	36 W	22*	—
3 29	0 2.77	+34 59.3	0.543	0.613	119.3	20.7	32 W	21*	—
3 31	0 1.22	+31 56.1	0.553	0.582	123.3	20.9	29 W	20*	—
4 2	0 0.18	+28 46.5	0.565	0.552	126.9	21.2	26 W	18*	—
4 4	23 59.76	+25 32.1	0.581	0.522	130.0	21.4	24 W	17*	—

163799 2003 *QR*$_{69}$

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 27	10 11.86	+13 41.8	2.256	2.936	15.9	20.5	125 W	59	50
1 6	10 7.85	+13 54.4	2.174	2.966	13.2	20.3	137 W	59	50
1 16	10 1.41	+14 17.8	2.113	2.995	9.9	20.2	148 W	59	50
1 26	9 52.94	+14 48.8	2.077	3.023	6.2	20.0	161 W	60	49
1 31	9 48.16	+15 5.8	2.069	3.037	4.3	19.9	167 W	60	49
2 5	9 43.17	+15 23.1	2.069	3.050	2.3	19.8	173 W	60	49
2 10	9 38.07	+15 40.1	2.077	3.063	0.5	19.6	178 W	61	48
2 15	9 33.00	+15 56.2	2.092	3.076	1.9	19.8	174 E	61	48
2 20	9 28.09	+16 10.9	2.116	3.089	3.9	19.9	168 E	61	48
2 25	9 23.44	+16 23.9	2.146	3.102	5.7	20.1	162 E	61	48
3 7	9 15.36	+16 43.5	2.229	3.127	9.2	20.3	150 E	62	47
3 17	9 9.31	+16 53.7	2.337	3.150	12.1	20.6	138 E	62	47
3 27	9 5.63	+16 54.5	2.465	3.173	14.4	20.8	128 E	62	47
4 6	9 4.33	+16 46.3	2.608	3.196	16.1	21.0	117 E	62	47
4 16	9 5.26	+16 30.0	2.763	3.217	17.3	21.2	108 E	61	48
4 26	9 8.22	+16 6.1	2.924	3.237	17.9	21.3	99 E	60*	48
5 6	9 12.90	+15 35.6	3.088	3.257	18.0	21.4	91 E	55*	48

174287 2002 *SX*$_{37}$

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 27	10 13.90	+21 47.0	2.751	3.436	13.2	21.3	127 W	67	42
1 6	10 10.97	+22 40.5	2.632	3.425	11.1	21.2	138 W	68	41
1 16	10 5.78	+23 42.4	2.534	3.414	8.6	21.0	149 W	69	40
1 26	9 58.56	+24 48.3	2.463	3.402	5.9	20.8	159 W	70	39
2 5	9 49.80	+25 52.4	2.420	3.389	3.7	20.6	167 W	71	38

174287 2002 *SX*$_{37}$ *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 15	9 40.21	+26 48.7	2.409	3.375	4.2	20.6	166 E	72	37
2 25	9 30.70	+27 32.2	2.428	3.360	6.7	20.8	157 E	73	36
3 7	9 22.16	+28 0.3	2.476	3.344	9.6	20.9	146 E	73	36
3 17	9 15.30	+28 12.4	2.548	3.327	12.2	21.1	135 E	73	36
3 27	9 10.62	+28 9.5	2.640	3.310	14.4	21.2	125 E	73	36
4 6	9 8.30	+27 53.7	2.747	3.292	16.0	21.4	115 E	73	36
4 16	9 8.36	+27 27.3	2.863	3.272	17.2	21.5	105 E	72	37

182002 1999 *XV*$_7$

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 27	10 14.35	+19 58.2	1.648	2.370	19.5	20.3	127 W	65	44
1 6	10 10.87	+20 36.0	1.580	2.399	16.1	20.2	138 W	66	43
1 16	10 4.05	+21 24.5	1.531	2.428	12.0	20.0	149 W	66	43
1 26	9 54.41	+22 17.1	1.505	2.456	7.6	19.8	161 W	67	42
1 31	9 48.83	+22 42.2	1.502	2.470	5.5	19.7	166 W	68	41
2 5	9 42.96	+23 5.3	1.506	2.483	3.9	19.6	170 W	68	41
2 10	9 36.96	+23 25.4	1.517	2.497	3.5	19.6	171 W	68	41
2 15	9 31.04	+23 41.8	1.536	2.510	4.8	19.7	168 E	69	40
2 20	9 25.38	+23 53.9	1.561	2.523	6.6	19.9	163 E	69	40
2 25	9 20.14	+24 1.6	1.594	2.536	8.7	20.0	157 E	69	40
3 2	9 15.46	+24 4.9	1.633	2.548	10.7	20.2	152 E	69	40
3 7	9 11.43	+24 3.9	1.678	2.561	12.5	20.3	146 E	69	40
3 17	9 5.59	+23 50.1	1.783	2.585	15.8	20.6	135 E	69	40
3 27	9 2.88	+23 23.1	1.906	2.609	18.3	20.8	125 E	68	41
4 6	9 3.12	+22 45.5	2.042	2.631	20.1	21.1	115 E	68	41
4 16	9 6.02	+21 59.6	2.188	2.653	21.3	21.3	106 E	67	42
4 26	9 11.17	+21 6.8	2.338	2.674	21.9	21.4	98 E	65*	43

467609 2008 *AV*$_{28}$

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 27	10 14.45	+13 42.4	0.792	1.576	30.8	21.2	125 W	59	50
1 6	10 4.68	+12 23.5	0.718	1.584	25.2	20.8	137 W	57	52
1 16	9 47.67	+11 13.9	0.658	1.589	17.8	20.4	150 W	56	53
1 26	9 24.07	+10 12.5	0.618	1.590	9.2	20.0	165 W	55	54
1 31	9 10.60	+ 9 44.4	0.608	1.589	5.4	19.8	171 W	55	54
2 5	8 56.70	+ 9 18.1	0.605	1.587	4.9	19.7	172 E	54	55
2 10	8 42.98	+ 8 53.6	0.608	1.584	8.5	19.9	166 E	54	55
2 15	8 30.03	+ 8 31.1	0.618	1.580	13.0	20.1	159 E	54	55
2 20	8 18.38	+ 8 10.7	0.633	1.575	17.4	20.3	152 E	53	56
2 25	8 8.36	+ 7 52.4	0.654	1.569	21.5	20.5	144 E	53	56
3 2	8 0.15	+ 7 35.9	0.680	1.562	25.3	20.7	138 E	53	56
3 7	7 53.79	+ 7 21.1	0.709	1.554	28.7	20.9	131 E	52	57
3 12	7 49.25	+ 7 7.6	0.740	1.545	31.6	21.0	125 E	52	57
3 17	7 46.45	+ 6 54.8	0.774	1.535	34.2	21.2	120 E	52	57
3 22	7 45.23	+ 6 42.3	0.808	1.524	36.4	21.3	115 E	52	57
3 27	7 45.45	+ 6 29.4	0.843	1.512	38.3	21.5	110 E	51	58

377204 2003 *WM*$_{141}$

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 27	10 14.88	+41 17.5	0.677	1.504	30.6	17.7	129 W	86	23
1 1	10 27.67	+43 54.1	0.651	1.490	30.2	17.5	130 W	89	20
1 6	10 40.52	+46 34.7	0.630	1.476	30.1	17.4	131 W	88	17
1 11	10 53.31	+49 15.8	0.613	1.464	30.2	17.4	132 W	86	15
1 16	11 5.86	+51 53.5	0.600	1.452	30.5	17.3	131 W	83	12
1 21	11 17.97	+54 23.8	0.591	1.442	31.0	17.3	131 W	81	10
1 26	11 29.41	+56 43.2	0.586	1.433	31.8	17.3	130 W	78	7
1 31	11 39.89	+58 48.8	0.583	1.425	32.6	17.3	129 W	76	5
2 5	11 49.07	+60 38.4	0.584	1.419	33.5	17.3	127 W	74	3
2 10	11 56.64	+62 10.2	0.586	1.414	34.4	17.3	126 W	73	2
2 15	12 2.35	+63 22.7	0.591	1.410	35.2	17.4	125 W	72	1
2 20	12 6.09	+64 14.8	0.597	1.408	36.0	17.4	123 W	71	—
2 25	12 7.93	+64 45.8	0.605	1.407	36.7	17.4	122 W	70	—
3 2	12 8.05	+64 55.5	0.613	1.407	37.2	17.5	121 W	70	—
3 7	12 6.77	+64 43.5	0.622	1.409	37.7	17.5	120 W	70	—
3 9	12 5.97	+64 32.6	0.626	1.410	37.8	17.6	119 W	70	—
3 11	12 5.05	+64 18.3	0.630	1.411	38.0	17.6	119 W	71	—
3 13	12 4.03	+64 0.4	0.634	1.413	38.1	17.6	119 W	71	—
3 15	12 2.97	+63 39.1	0.639	1.415	38.2	17.6	118 W	71	—
3 17	12 1.89	+63 14.4	0.643	1.417	38.3	17.6	118 W	72	1
3 19	12 0.81	+62 46.3	0.648	1.419	38.3	17.7	118 W	72	1
3 21	11 59.77	+62 15.0	0.652	1.421	38.4	17.7	118 E	73	2
3 23	11 58.79	+61 40.4	0.657	1.424	38.4	17.7	117 E	73	2
3 25	11 57.89	+61 2.8	0.662	1.427	38.4	17.7	117 E	74	3
3 27	11 57.09	+60 22.1	0.668	1.430	38.5	17.7	117 E	75	4
4 1	11 55.56	+58 28.1	0.682	1.439	38.5	17.8	116 E	77	6
4 6	11 54.81	+56 17.7	0.697	1.448	38.4	17.9	116 E	79	8
4 11	11 54.91	+53 52.7	0.714	1.459	38.3	17.9	115 E	81	10
4 16	11 55.86	+51 15.2	0.733	1.471	38.2	18.0	115 E	84	13
4 21	11 57.64	+48 27.5	0.754	1.485	38.0	18.1	114 E	87	16
4 26	12 0.17	+45 31.9	0.777	1.499	37.9	18.2	114 E	89	18
5 1	12 3.35	+42 30.5	0.802	1.514	37.8	18.2	113 E	88	21

377204 2003 WM_{141} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 6	12 7.12	+39 25.5	0.831	1.530	37.6	18.3	112 E	84	25
5 11	12 11.40	+36 18.7	0.862	1.547	37.5	18.4	111 E	81	28
5 16	12 16.14	+33 11.9	0.896	1.565	37.4	18.5	110 E	78	31
5 21	12 21.30	+30 6.6	0.933	1.583	37.2	18.7	109 E	75	34
5 26	12 26.81	+27 4.3	0.973	1.602	37.1	18.8	107 E	72	37
5 31	12 32.63	+24 6.1	1.017	1.622	36.9	18.9	106 E	69*	40
6 5	12 38.72	+21 12.6	1.063	1.642	36.8	19.0	104 E	65*	43
6 10	12 45.06	+18 24.6	1.112	1.663	36.6	19.1	103 E	61*	46
6 15	12 51.63	+15 42.3	1.164	1.684	36.3	19.2	101 E	58*	48
6 25	13 5.38	+10 36.3	1.275	1.727	35.7	19.5	97 E	50*	53
7 5	13 19.83	+ 5 55.3	1.396	1.771	35.0	19.7	93 E	43*	58
7 15	13 34.90	+ 1 38.4	1.525	1.817	34.0	19.9	89 E	37*	62
7 25	13 50.55	− 2 15.9	1.661	1.863	32.9	20.1	85 E	32*	66*
8 4	14 6.72	− 5 49.2	1.802	1.909	31.6	20.3	80 E	28*	67*
8 14	14 23.40	− 9 3.2	1.947	1.956	30.1	20.5	75 E	24*	66*
8 24	14 40.57	−11 59.4	2.093	2.002	28.5	20.7	71 E	21*	63*
9 3	14 58.20	−14 39.1	2.240	2.048	26.7	20.8	66 E	18*	59*
9 13	15 16.29	−17 3.4	2.386	2.094	24.9	20.9	61 E	16*	55*
9 23	15 34.81	−19 13.1	2.529	2.139	22.9	21.1	56 E	14*	50*
10 3	15 53.74	−21 8.9	2.669	2.184	20.9	21.2	51 E	12*	45*
10 13	16 13.04	−22 51.3	2.803	2.227	18.8	21.2	46 E	10*	40*
10 23	16 32.68	−24 20.9	2.930	2.271	16.6	21.3	41 E	9*	35*
11 2	16 52.58	−25 37.9	3.048	2.313	14.4	21.4	35 E	7*	29*
11 12	17 12.71	−26 42.9	3.157	2.354	12.2	21.4	30 E	5*	24*
11 22	17 32.96	−27 36.1	3.255	2.394	9.9	21.4	25 E	3*	19*
12 2	17 53.28	−28 18.3	3.342	2.434	7.7	21.4	19 E	1*	13*
12 12	18 13.57	−28 49.8	3.415	2.472	5.6	21.4	14 E	—	8*
12 22	18 33.74	−29 11.5	3.475	2.510	3.7	21.4	9 E	—	3*
1 1	18 53.71	−29 24.2	3.520	2.546	2.6	21.3	7 E	—	—
1 11	19 13.39	−29 28.8	3.550	2.581	3.2	21.4	8 W	—	1*

434632 2005 *WE*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 16.32	+ 6 42.0	0.636	1.425	35.9	21.1	122 W	52	57
1 6	10 9.06	+ 4 4.8	0.573	1.434	30.4	20.7	132 W	49	60
1 16	9 54.23	+ 1 38.0	0.521	1.439	23.5	20.3	144 W	47	62
1 26	9 32.04	− 0 26.7	0.484	1.441	16.2	19.9	156 W	45	64
1 31	9 18.85	− 1 16.4	0.474	1.440	13.3	19.7	160 W	44	65
2 5	9 4.94	− 1 55.3	0.469	1.439	12.3	19.7	162 E	43	66
2 10	8 50.96	− 2 22.5	0.469	1.436	13.6	19.7	160 E	43	66
2 15	8 37.59	− 2 38.0	0.474	1.433	16.6	19.8	156 E	42	67
2 20	8 25.44	− 2 43.0	0.485	1.429	20.3	20.0	150 E	42	67
2 25	8 14.96	− 2 39.3	0.500	1.424	24.2	20.2	144 E	42	67
3 2	8 6.40	− 2 29.2	0.518	1.418	28.0	20.4	138 E	43	66
3 7	7 59.83	− 2 14.6	0.540	1.412	31.5	20.6	132 E	43	66
3 12	7 55.24	− 1 57.4	0.563	1.404	34.7	20.7	127 E	43	66
3 17	7 52.55	− 1 39.2	0.589	1.395	37.5	20.9	121 E	43	66
3 22	7 51.61	− 1 21.5	0.615	1.386	39.9	21.0	117 E	44	65
3 27	7 52.24	− 1 5.3	0.641	1.376	42.1	21.2	112 E	44	65
4 1	7 54.27	− 0 51.3	0.668	1.365	44.0	21.3	108 E	44	65
4 6	7 57.54	− 0 39.9	0.694	1.353	45.7	21.4	105 E	44*	65

444929 2008 AD_{138}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 16.35	+ 5 41.9	1.130	1.844	27.1	20.2	121 W	51	58
1 6	10 17.79	+ 6 11.5	1.083	1.883	23.1	20.0	131 W	51	58
1 16	10 15.40	+ 7 10.3	1.048	1.924	18.1	19.9	142 W	52	57
1 26	10 9.62	+ 8 35.0	1.031	1.966	12.4	19.7	155 W	54	55
1 31	10 5.74	+ 9 24.4	1.030	1.987	9.4	19.6	161 W	54	55
2 5	10 1.42	+10 16.7	1.036	2.009	6.3	19.5	167 W	55	54
2 10	9 56.84	+11 10.3	1.047	2.031	3.1	19.4	174 W	56	53
2 15	9 52.21	+12 3.5	1.065	2.053	0.4	19.2	179 E	57	52
2 20	9 47.75	+12 54.5	1.089	2.075	3.1	19.5	173 E	58	51
2 25	9 43.64	+13 42.1	1.120	2.097	6.0	19.7	167 E	59	50
3 2	9 40.04	+14 25.2	1.157	2.119	8.7	19.9	161 E	59	50
3 7	9 37.06	+15 3.1	1.200	2.142	11.2	20.1	155 E	60	49
3 17	9 33.25	+16 2.0	1.302	2.187	15.5	20.5	144 E	61	48
3 27	9 32.52	+16 38.1	1.422	2.232	18.8	20.9	134 E	62	47
4 6	9 34.71	+16 53.2	1.558	2.277	21.3	21.2	124 E	62	47
4 16	9 39.46	+16 50.0	1.705	2.322	22.9	21.5	116 E	62	47

217726 1999 *WN*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 16.60	+14 45.0	1.908	2.596	18.2	21.1	125 W	60	49
1 6	10 13.90	+15 23.6	1.823	2.617	15.2	20.9	136 W	60	49
1 16	10 8.29	+16 16.6	1.756	2.638	11.7	20.7	147 W	61	48
1 26	10 0.14	+17 19.6	1.713	2.657	7.5	20.5	159 W	62	47
2 5	9 50.17	+18 25.8	1.697	2.676	3.3	20.3	171 W	63	46
2 10	9 44.82	+18 57.8	1.700	2.685	1.9	20.2	175 W	64	45
2 15	9 39.43	+19 27.8	1.711	2.693	2.8	20.3	172 E	64	45
2 20	9 34.17	+19 55.1	1.729	2.702	4.7	20.5	167 E	65	44

217726 1999 *WN* *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 25	9 29.18	+20 19.0	1.755	2.710	6.8	20.6	161 E	65	44
3 2	9 24.59	+20 39.2	1.787	2.718	8.8	20.7	155 E	66	43
3 7	9 20.51	+20 55.5	1.825	2.726	10.7	20.9	149 E	66	43
3 12	9 17.03	+21 7.7	1.870	2.734	12.5	21.0	144 E	66	43
3 17	9 14.21	+21 15.9	1.920	2.741	14.1	21.1	138 E	66	43
3 22	9 12.08	+21 20.4	1.975	2.748	15.5	21.2	133 E	66	43
3 27	9 10.66	+21 21.2	2.034	2.755	16.7	21.3	127 E	66	43
4 1	9 9.93	+21 18.7	2.096	2.762	17.8	21.4	122 E	66	43

40310 1999 KU_4

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 17.15	+20 30.1	2.336	3.022	15.2	21.2	126 W	66	43
1 6	10 14.14	+21 26.5	2.215	3.009	12.9	21.0	137 W	66	43
1 16	10 8.45	+22 34.4	2.114	2.995	10.0	20.8	148 W	68	41
1 26	10 0.24	+23 48.8	2.038	2.979	6.8	20.5	159 W	69	40
2 5	9 50.07	+25 2.5	1.991	2.962	4.1	20.3	168 W	70	39
2 10	9 44.50	+25 36.7	1.979	2.953	3.8	20.3	169 W	71	38
2 15	9 38.79	+26 7.9	1.975	2.944	4.6	20.3	166 E	71	38
2 20	9 33.09	+26 35.4	1.978	2.934	6.0	20.4	162 E	72	37
2 25	9 27.56	+26 58.5	1.989	2.924	7.7	20.5	157 E	72	37
3 2	9 22.33	+27 17.0	2.007	2.914	9.5	20.6	151 E	72	37
3 7	9 17.53	+27 30.6	2.032	2.903	11.2	20.6	145 E	73	36
3 12	9 13.25	+27 39.5	2.062	2.892	12.8	20.7	140 E	73	36
3 17	9 9.60	+27 43.8	2.098	2.881	14.3	20.8	134 E	73	36
3 22	9 6.63	+27 43.8	2.138	2.870	15.7	20.9	129 E	73	36
3 27	9 4.37	+27 39.7	2.182	2.858	16.9	21.0	124 E	73	36
4 1	9 2.83	+27 32.0	2.230	2.845	18.0	21.0	118 E	73	36
4 6	9 2.01	+27 21.0	2.281	2.833	18.9	21.1	114 E	72	37
4 11	9 1.89	+27 7.1	2.333	2.820	19.7	21.2	109 E	72	37
4 16	9 2.46	+26 50.4	2.388	2.807	20.3	21.2	104 E	72	37
4 21	9 3.67	+26 31.4	2.443	2.793	20.8	21.3	100 E	71*	37
4 26	9 5.49	+26 10.1	2.498	2.780	21.1	21.3	95 E	70*	38
5 1	9 7.87	+25 46.8	2.554	2.765	21.4	21.4	91 E	67*	38
5 6	9 10.78	+25 21.6	2.610	2.751	21.5	21.4	87 E	64*	39
5 11	9 14.17	+24 54.6	2.664	2.736	21.5	21.5	83 E	60*	39
5 16	9 18.01	+24 25.9	2.718	2.721	21.4	21.5	79 E	56*	40*

5246 Migliorini

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 17.54	+ 5 14.6	2.219	2.852	17.2	19.3	121 W	50	59
1 6	10 15.21	+ 5 21.1	2.104	2.854	14.9	19.1	132 W	50	59
1 16	10 10.36	+ 5 44.3	2.007	2.855	12.0	18.9	143 W	51	58
1 26	10 3.21	+ 6 23.9	1.933	2.855	8.4	18.7	155 W	51	58
2 5	9 54.29	+ 7 17.3	1.885	2.854	4.5	18.4	167 W	52	57
2 10	9 49.40	+ 7 48.0	1.872	2.853	2.6	18.3	172 W	53	56
2 15	9 44.39	+ 8 20.2	1.867	2.852	1.7	18.2	175 E	53	56
2 20	9 39.39	+ 8 53.4	1.869	2.850	3.0	18.3	171 E	54	55
2 25	9 34.55	+ 9 26.5	1.879	2.849	4.9	18.5	166 E	54	55
3 2	9 29.99	+ 9 59.0	1.896	2.847	6.9	18.6	160 E	55	54
3 7	9 25.80	+10 30.1	1.921	2.845	8.9	18.7	154 E	56	53
3 17	9 18.94	+11 26.0	1.988	2.840	12.4	18.9	142 E	56	53
3 27	9 14.50	+12 10.9	2.077	2.833	15.4	19.1	131 E	57	52
4 6	9 12.66	+12 43.4	2.183	2.826	17.8	19.3	121 E	58	51
4 16	9 13.39	+13 3.1	2.301	2.818	19.4	19.4	111 E	58	51
4 26	9 16.49	+13 10.4	2.425	2.809	20.5	19.6	102 E	58*	51
5 6	9 21.68	+13 6.1	2.553	2.799	21.1	19.7	93 E	54*	51
5 16	9 28.68	+12 50.8	2.681	2.787	21.2	19.8	85 E	49*	51
5 26	9 37.20	+12 25.4	2.806	2.775	20.9	19.9	78 E	42*	51*
6 5	9 47.00	+11 50.7	2.926	2.762	20.3	19.9	71 E	35*	50*
6 15	9 57.87	+11 7.4	3.039	2.748	19.4	20.0	64 E	29*	49*
6 25	10 9.63	+10 16.1	3.143	2.732	18.3	20.0	57 E	23*	46*
7 5	10 22.13	+ 9 17.6	3.238	2.716	16.9	20.0	51 E	18*	42*
7 15	10 35.25	+ 8 12.3	3.322	2.699	15.4	20.0	45 E	13*	37*
7 25	10 48.90	+ 7 1.1	3.393	2.680	13.8	20.0	39 E	10*	32*
8 4	11 3.00	+ 5 44.5	3.453	2.661	12.0	19.9	33 E	7*	27*
8 14	11 17.52	+ 4 23.2	3.499	2.641	10.2	19.9	27 E	4*	21*
8 24	11 32.40	+ 2 57.9	3.532	2.620	8.2	19.8	22 E	2*	16*
9 3	11 47.62	+ 1 29.2	3.552	2.598	6.2	19.7	16 E	—	10*
9 13	12 3.16	− 0 2.2	3.557	2.575	4.1	19.6	11 E	—	5*
9 23	12 19.02	− 1 35.4	3.549	2.551	2.0	19.4	5 E	—	—
10 3	12 35.19	− 3 9.7	3.527	2.526	0.3	19.2	1 W	—	—
10 13	12 51.68	− 4 44.4	3.491	2.500	2.3	19.4	6 W	—	—
10 23	13 8.49	− 6 18.3	3.442	2.474	4.5	19.4	11 W	5*	1*
11 2	13 25.62	− 7 50.8	3.379	2.446	6.7	19.5	17 W	9*	5*
11 12	13 43.08	− 9 20.9	3.305	2.418	8.9	19.5	22 W	14*	9*
11 22	14 0.85	−10 47.4	3.219	2.389	11.1	19.5	28 W	18*	13*
12 2	14 18.94	−12 9.5	3.121	2.359	13.2	19.5	33 W	21*	18*
12 12	14 37.34	−13 26.1	3.014	2.329	15.3	19.5	39 W	24*	24*
12 22	14 55.99	−14 36.0	2.898	2.298	17.4	19.4	44 W	25*	30*
1 1	15 14.88	−15 38.4	2.774	2.266	19.3	19.4	50 W	26*	36*
1 11	15 33.94	−16 32.2	2.642	2.234	21.2	19.3	55 W	26*	43*
1 21	15 53.09	−17 16.4	2.506	2.201	23.0	19.2	61 W	27*	49*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
416694 2004 YR_{32}									
	h m	° ′			°	m	°	°	°
12 27	10 18.43	+33 31.8	0.386	1.259	38.0	17.6	128 W	79	30
12 29	10 33.14	+35 3.8	0.369	1.241	39.3	17.5	127 W	80	29
12 31	10 49.43	+36 36.8	0.353	1.223	40.9	17.4	125 W	82	27
1 2	11 7.46	+38 8.7	0.340	1.205	42.8	17.3	124 W	83	26
1 4	11 27.32	+39 36.4	0.327	1.188	44.9	17.3	122 W	85	24
1 6	11 49.03	+40 56.5	0.317	1.171	47.2	17.2	119 W	86	23
1 8	12 12.51	+42 4.8	0.309	1.154	49.8	17.2	116 W	87	22*
1 10	12 37.50	+42 57.6	0.302	1.137	52.6	17.2	113 W	88	21*
1 12	13 3.59	+43 31.4	0.298	1.121	55.5	17.2	110 W	89	20*
1 14	13 30.23	+43 43.8	0.295	1.105	58.5	17.3	107 W	89	19*
1 16	13 56.79	+43 34.0	0.295	1.090	61.4	17.3	103 W	89	18*
1 17	14 9.84	+43 21.0	0.295	1.082	62.9	17.4	102 W	88	18*
1 18	14 22.65	+43 2.8	0.296	1.075	64.4	17.4	100 W	88	18*
1 19	14 35.14	+42 39.9	0.298	1.068	65.8	17.4	98 W	88	17*
1 20	14 47.28	+42 12.5	0.299	1.061	67.2	17.5	97 W	87	17*
1 21	14 59.02	+41 41.1	0.302	1.053	68.5	17.5	95 W	87	17*
1 22	15 10.32	+41 6.1	0.304	1.047	69.9	17.6	93 W	86*	17*
1 23	15 21.17	+40 28.0	0.307	1.040	71.1	17.6	92 W	85*	17*
1 24	15 31.57	+39 47.3	0.310	1.033	72.3	17.7	90 W	83*	17*
1 25	15 41.49	+39 4.3	0.314	1.027	73.5	17.7	89 W	82*	17*
1 26	15 50.96	+38 19.5	0.318	1.020	74.6	17.8	87 W	81*	17*
1 28	16 8.55	+36 46.1	0.326	1.008	76.6	17.9	85 W	78*	18*
1 30	16 24.45	+35 9.4	0.336	0.996	78.4	18.0	82 W	75*	18*
2 1	16 38.83	+33 31.7	0.346	0.985	79.9	18.1	80 W	73*	19*
2 3	16 51.85	+31 54.4	0.357	0.975	81.2	18.1	78 W	71*	20*
2 5	17 3.67	+30 18.6	0.369	0.965	82.2	18.2	76 W	69*	21*
2 7	17 14.44	+28 45.0	0.381	0.957	83.1	18.3	74 W	67*	22*
2 9	17 24.31	+27 14.0	0.394	0.949	83.7	18.4	73 W	65*	23*
2 11	17 33.40	+25 45.9	0.407	0.942	84.1	18.5	72 W	63*	24*
2 13	17 41.81	+24 20.7	0.420	0.936	84.4	18.5	71 W	62*	25*
2 15	17 49.63	+22 58.5	0.433	0.930	84.5	18.6	70 W	60*	26*
2 20	18 7.16	+19 45.2	0.466	0.921	84.1	18.7	68 W	57*	29*
2 25	18 22.50	+16 48.1	0.499	0.918	83.0	18.8	67 W	54*	33*
3 2	18 36.30	+14 5.6	0.531	0.921	81.3	18.9	67 W	51*	36*
3 7	18 48.99	+11 36.0	0.562	0.930	79.2	19.0	67 W	49*	40*
3 12	19 0.78	+ 9 18.0	0.590	0.945	76.8	19.0	68 W	47*	43*
3 17	19 11.79	+ 7 10.2	0.616	0.965	74.3	19.1	69 W	45*	47*
3 22	19 22.09	+ 5 11.0	0.640	0.990	71.7	19.1	71 W	43*	50*
3 27	19 31.68	+ 3 19.0	0.660	1.020	69.1	19.2	73 W	42*	53*
4 1	19 40.56	+ 1 32.9	0.678	1.053	66.5	19.2	75 W	40*	57*
4 6	19 48.69	− 0 8.9	0.692	1.090	63.8	19.3	78 W	39*	60*
4 11	19 55.98	− 1 47.7	0.704	1.129	61.2	19.3	81 W	38*	63*
4 16	20 2.38	− 3 25.2	0.712	1.170	58.6	19.3	84 W	36*	66*
4 21	20 7.81	− 5 2.9	0.719	1.213	55.8	19.3	88 W	35*	69*
4 26	20 12.21	− 6 42.3	0.723	1.258	53.1	19.3	92 W	34*	71
5 1	20 15.51	− 8 24.6	0.725	1.304	50.2	19.3	96 W	33*	72
5 6	20 17.61	−10 10.8	0.726	1.350	47.2	19.3	101 W	32*	74
5 16	20 17.90	−13 58.2	0.727	1.445	40.6	19.3	111 W	30*	78
5 26	20 12.59	−18 5.6	0.732	1.542	33.3	19.3	123 W	27*	82
6 5	20 1.66	−22 24.0	0.747	1.638	25.3	19.2	136 W	23	86
6 10	19 54.26	−24 31.5	0.760	1.686	21.2	19.2	143 W	20	89
6 15	19 45.81	−26 33.9	0.779	1.734	17.1	19.2	150 W	18	89
6 20	19 36.61	−28 28.0	0.803	1.781	13.2	19.1	156 W	17	88
6 25	19 26.99	−30 11.1	0.834	1.829	9.6	19.1	163 W	15	86
6 30	19 17.30	−31 41.5	0.870	1.876	6.8	19.2	167 W	13	84
7 5	19 7.88	−32 58.3	0.914	1.922	5.5	19.3	170 W	12	83
7 10	18 59.05	−34 1.5	0.963	1.969	6.4	19.5	168 E	11	82
7 15	18 51.09	−34 51.8	1.019	2.014	8.3	19.7	163 E	10	81
7 20	18 44.17	−35 30.7	1.081	2.060	10.5	20.0	158 E	9	80
7 25	18 38.41	−35 59.8	1.149	2.105	12.7	20.3	153 E	9	80
7 30	18 33.83	−36 20.6	1.222	2.149	14.6	20.5	148 E	9	80
8 4	18 30.43	−36 34.7	1.299	2.194	16.3	20.8	143 E	8	79
8 9	18 28.16	−36 43.4	1.381	2.237	17.8	21.0	138 E	8	79
8 14	18 26.96	−36 47.8	1.467	2.281	19.0	21.2	133 E	8	79
8 19	18 26.76	−36 48.8	1.557	2.323	20.0	21.4	128 E	8	79
301917 1999 SK_2									
12 27	10 19.30	+16 0.3	1.392	2.110	22.6	19.8	124 W	61	48
1 6	10 22.19	+15 54.2	1.247	2.054	20.2	19.4	134 W	61	48
1 16	10 21.75	+16 3.4	1.117	1.998	16.8	19.0	144 W	61	48
1 26	10 17.55	+16 27.5	1.004	1.942	12.3	18.6	155 W	61	48
2 5	10 9.52	+17 2.9	0.913	1.886	6.9	18.1	167 W	62	47
2 10	10 4.18	+17 22.7	0.875	1.858	4.1	17.8	172 W	62	47
2 15	9 58.15	+17 42.3	0.844	1.830	2.7	17.6	175 W	63	46
2 20	9 51.64	+18 0.1	0.818	1.802	4.8	17.7	171 E	63	46
2 25	9 44.94	+18 14.7	0.798	1.774	8.1	17.7	165 E	63	46
3 2	9 38.32	+18 25.0	0.784	1.746	11.7	17.8	159 E	63	46
3 7	9 32.07	+18 30.0	0.775	1.719	15.3	17.9	153 E	63	46

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
301917 1999 SK_2 *(continuation)*									
	h m	° ′			°	m	°	°	°
3 12	9 26.49	+18 29.0	0.771	1.692	18.8	17.9	147 E	63	46
3 17	9 21.83	+18 21.7	0.771	1.665	22.2	18.0	141 E	63	46
3 22	9 18.29	+18 8.2	0.775	1.639	25.4	18.1	135 E	63	46
3 27	9 15.99	+17 48.4	0.781	1.613	28.4	18.2	130 E	63	46
4 6	9 15.32	+16 51.7	0.800	1.563	33.7	18.3	120 E	62	47
4 16	9 19.84	+15 33.8	0.825	1.515	38.0	18.4	112 E	61	48
4 26	9 29.16	+13 55.7	0.851	1.472	41.5	18.5	104 E	59*	50
5 6	9 42.64	+11 58.3	0.878	1.432	44.2	18.6	99 E	55*	52
5 16	9 59.69	+ 9 41.5	0.903	1.397	46.3	18.7	94 E	50*	54
5 26	10 19.81	+ 7 5.6	0.928	1.368	47.8	18.7	90 E	44*	57
6 5	10 42.53	+ 4 11.8	0.951	1.345	48.8	18.8	86 E	38*	60
6 15	11 7.56	+ 1 1.9	0.975	1.329	49.5	18.8	84 E	32*	63*
6 25	11 34.63	− 2 20.9	1.001	1.320	49.6	18.9	82 E	27*	66*
7 5	12 3.52	− 5 51.6	1.030	1.319	49.4	18.9	80 E	23*	68*
7 15	12 34.10	− 9 24.4	1.065	1.326	48.8	19.0	79 E	20*	70*
7 25	13 6.17	−12 52.4	1.106	1.340	47.9	19.1	78 E	17*	71*
8 4	13 39.50	−16 8.2	1.156	1.362	46.7	19.2	77 E	15*	71*
8 14	14 13.85	−19 5.1	1.215	1.389	45.2	19.3	77 E	14*	71*
8 24	14 48.89	−21 37.5	1.285	1.423	43.5	19.4	76 E	14*	70*
9 3	15 24.20	−23 41.2	1.365	1.462	41.6	19.5	74 E	13*	68*
9 8	15 41.84	−24 31.7	1.409	1.483	40.7	19.6	74 E	13*	68*
9 13	15 59.40	−25 14.5	1.455	1.505	39.7	19.7	73 E	13*	67*
9 18	16 16.84	−25 49.6	1.504	1.528	38.7	19.8	72 E	13*	66*
9 23	16 34.09	−26 17.2	1.555	1.551	37.7	19.8	71 E	14*	65*
9 28	16 51.12	−26 37.4	1.609	1.576	36.7	19.9	70 E	14*	64*
10 3	17 7.90	−26 50.6	1.664	1.601	35.6	20.0	69 E	14*	63*
10 8	17 24.40	−26 57.1	1.722	1.626	34.6	20.1	67 E	14*	61*
10 13	17 40.58	−26 57.2	1.782	1.653	33.5	20.1	66 E	15*	60*
10 18	17 56.43	−26 51.4	1.843	1.679	32.4	20.2	65 E	15*	59*
10 23	18 11.93	−26 40.0	1.905	1.706	31.4	20.3	63 E	16*	57*
10 28	18 27.06	−26 23.4	1.969	1.733	30.3	20.4	62 E	16*	55*
11 2	18 41.83	−26 2.1	2.034	1.761	29.2	20.4	60 E	17*	53*
11 7	18 56.24	−25 36.5	2.100	1.789	28.1	20.5	58 E	17*	51*
11 12	19 10.29	−25 6.8	2.166	1.816	27.0	20.6	56 E	18*	49*
11 17	19 23.97	−24 33.5	2.233	1.845	25.9	20.7	55 E	18*	47*
11 22	19 37.29	−23 56.9	2.301	1.873	24.8	20.7	53 E	18*	44*
11 27	19 50.27	−23 17.4	2.368	1.901	23.6	20.8	51 E	19*	42*
12 2	20 2.92	−22 35.1	2.435	1.929	22.5	20.8	48 E	19*	39*
12 7	20 15.24	−21 50.4	2.502	1.957	21.4	20.9	46 E	19*	36*
12 12	20 27.25	−21 3.6	2.569	1.985	20.2	20.9	44 E	20*	34*
12 17	20 38.96	−20 14.8	2.635	2.013	19.1	21.0	42 E	20*	31*
12 22	20 50.38	−19 24.4	2.699	2.041	17.9	21.0	40 E	19*	28*
12 27	21 1.52	−18 32.5	2.763	2.069	16.8	21.1	37 E	19*	26*
1 1	21 12.41	−17 39.3	2.825	2.097	15.6	21.1	35 E	19*	23*
1 6	21 23.04	−16 45.0	2.886	2.124	14.4	21.2	33 E	18*	20*
1 11	21 33.43	−15 49.8	2.945	2.152	13.3	21.2	30 E	17*	18*
1 16	21 43.59	−14 53.8	3.002	2.179	12.1	21.2	28 E	16*	15*
1 21	21 53.52	−13 57.2	3.057	2.206	10.9	21.2	25 E	14*	13*
385343 2002 LV									
12 27	10 19.58	+12 12.9	2.013	2.680	17.9	21.2	123 W	57	52
1 6	10 14.57	+13 59.1	1.951	2.736	14.7	21.1	135 W	59	50
1 16	10 6.75	+16 1.8	1.910	2.790	10.9	20.9	148 W	61	48
1 26	9 56.59	+18 13.6	1.896	2.843	6.7	20.8	160 W	63	46
2 5	9 44.96	+20 24.2	1.915	2.893	2.9	20.6	171 W	65	44
2 15	9 32.94	+22 23.5	1.966	2.942	3.6	20.8	169 E	67	42
2 25	9 21.76	+24 3.7	2.051	2.990	7.3	21.1	158 E	69	40
3 7	9 12.38	+25 21.3	2.165	3.035	10.7	21.4	146 E	70	39
302785 2002 XR_{40}									
12 27	10 19.77	+25 21.3	1.228	1.979	23.5	18.3	127 W	70	39
1 6	10 10.07	+23 52.3	1.178	2.021	18.9	18.1	138 W	69	40
1 16	9 56.07	+22 20.7	1.148	2.064	13.4	17.9	151 W	67	42
1 26	9 39.13	+20 43.0	1.143	2.108	7.2	17.7	164 W	66	43
1 31	9 30.20	+19 51.5	1.152	2.131	4.1	17.6	171 W	65	44
2 5	9 21.34	+18 58.7	1.168	2.153	1.6	17.5	177 W	64	45
2 10	9 12.82	+18 5.3	1.192	2.176	2.9	17.7	174 E	63	46
2 15	9 4.89	+17 11.7	1.224	2.198	5.6	17.9	167 E	62	47
2 20	8 57.75	+16 18.9	1.263	2.221	8.4	18.1	161 E	61	48
2 25	8 51.53	+15 27.3	1.309	2.244	10.9	18.3	155 E	60	49
3 7	8 42.13	+13 49.5	1.419	2.289	15.2	18.7	143 E	59	50
3 17	8 36.78	+12 20.3	1.551	2.335	18.5	19.0	132 E	57	52
3 27	8 35.16	+10 58.8	1.699	2.380	20.9	19.4	122 E	56	53
4 6	8 36.69	+ 9 43.4	1.858	2.426	22.4	19.6	113 E	55	54
4 16	8 40.80	+ 8 31.7	2.025	2.471	23.2	19.9	104 E	53*	55
4 26	8 46.98	+ 7 21.7	2.197	2.515	23.4	20.1	96 E	50*	57
5 6	8 54.78	+ 6 11.8	2.371	2.560	23.2	20.3	89 E	45*	58
5 16	9 3.85	+ 5 0.5	2.544	2.604	22.6	20.5	82 E	39*	59*
5 26	9 13.91	+ 3 46.9	2.715	2.647	21.7	20.6	75 E	32*	58*

302785 2002 XR_{40} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 5	9 24.71	+ 2 30.3	2.882	2.690	20.6	20.8	69 E	25*	57*
6 15	9 36.09	+ 1 10.4	3.043	2.732	19.3	20.9	63 E	18*	54*
6 25	9 47.90	− 0 13.1	3.196	2.774	17.9	21.0	57 E	12*	50*
7 5	10 0.03	− 1 40.3	3.341	2.815	16.3	21.0	51 E	6*	45*
7 15	10 12.40	− 3 11.1	3.476	2.855	14.7	21.1	45 E	1*	39*
7 25	10 24.92	− 4 45.5	3.600	2.894	13.0	21.2	40 E	—	33*
8 4	10 37.55	− 6 23.2	3.712	2.933	11.3	21.2	35 E	—	27*
8 14	10 50.25	− 8 4.1	3.812	2.971	9.6	21.2	29 E	—	21*
8 24	11 2.95	− 9 47.9	3.898	3.009	8.0	21.2	25 E	—	15*
9 3	11 15.65	−11 34.3	3.970	3.045	6.6	21.2	20 E	—	9*
9 13	11 28.29	−13 23.2	4.027	3.081	5.6	21.2	17 E	—	3*
9 23	11 40.85	−15 14.1	4.068	3.116	5.1	21.2	16 W	—	5*
10 3	11 53.29	−17 6.9	4.094	3.150	5.3	21.3	17 W	—	9*
10 13	12 5.56	−19 1.4	4.104	3.183	6.1	21.4	20 W	—	14*
10 23	12 17.61	−20 57.1	4.098	3.216	7.3	21.4	24 W	2*	18*
11 2	12 29.39	−22 53.9	4.077	3.248	8.6	21.5	29 W	6*	23*

235756 2004 *VC*

12 27	10 21.20	−51 29.0	1.033	1.413	44.1	21.2	89 W	—	65
1 1	10 24.54	−53 11.6	1.001	1.407	44.3	21.1	90 W	—	63
1 6	10 26.84	−54 49.1	0.968	1.401	44.6	21.1	92 W	—	61
1 11	10 27.93	−56 20.7	0.933	1.393	44.8	21.0	93 W	—	60
1 16	10 27.65	−57 45.2	0.896	1.385	45.1	20.9	95 W	—	58
1 21	10 25.81	−59 1.1	0.857	1.375	45.3	20.8	96 W	—	57
1 26	10 22.27	−60 6.8	0.818	1.365	45.6	20.7	98 W	—	56
1 31	10 16.87	−61 0.0	0.776	1.354	45.8	20.6	100 W	—	55
2 5	10 9.52	−61 38.0	0.734	1.342	46.0	20.4	102 W	—	54
2 10	10 0.23	−61 56.9	0.690	1.329	46.2	20.3	103 W	—	54
2 15	9 49.20	−61 52.2	0.646	1.316	46.4	20.1	105 E	—	54
2 17	9 44.40	−61 42.5	0.628	1.310	46.4	20.0	106 E	—	54
2 19	9 39.42	−61 27.9	0.610	1.304	46.5	20.0	107 E	—	55
2 21	9 34.32	−61 7.8	0.592	1.298	46.5	19.9	108 E	—	55
2 23	9 29.13	−60 42.0	0.574	1.292	46.6	19.8	109 E	—	55
2 25	9 23.89	−60 10.0	0.556	1.286	46.6	19.7	109 E	—	56
2 27	9 18.67	−59 31.3	0.538	1.279	46.6	19.7	110 E	—	56
3 1	9 13.50	−58 45.4	0.520	1.273	46.6	19.6	111 E	—	57
3 3	9 8.43	−57 51.9	0.502	1.266	46.7	19.5	112 E	—	58
3 5	9 3.50	−56 50.0	0.485	1.259	46.7	19.4	112 E	—	59
3 7	8 58.77	−55 39.2	0.467	1.253	46.7	19.3	113 E	—	60
3 9	8 54.27	−54 18.8	0.450	1.246	46.7	19.2	114 E	—	62
3 11	8 50.04	−52 48.0	0.433	1.239	46.8	19.1	115 E	—	63
3 13	8 46.11	−51 6.2	0.416	1.231	46.8	19.0	115 E	—	65
3 15	8 42.51	−49 12.6	0.400	1.224	46.9	18.9	116 E	—	67
3 17	8 39.25	−47 6.3	0.385	1.217	47.0	18.8	117 E	—	69
3 19	8 36.36	−44 46.6	0.370	1.209	47.2	18.7	117 E	—	71
3 21	8 33.84	−42 12.8	0.355	1.201	47.4	18.6	117 E	3	74
3 23	8 31.68	−39 24.1	0.342	1.194	47.8	18.6	118 E	6	77
3 25	8 29.89	−36 20.1	0.329	1.186	48.2	18.5	118 E	9	80
3 27	8 28.46	−33 0.5	0.318	1.178	48.8	18.4	117 E	12	83
4 1	8 26.40	−23 33.9	0.294	1.158	51.0	18.2	116 E	21	88
4 6	8 26.33	−12 44.6	0.279	1.137	54.4	18.2	113 E	32	77
4 11	8 28.07	− 1 10.3	0.275	1.116	58.9	18.2	108 E	44	65
4 16	8 31.40	+10 16.1	0.281	1.095	63.9	18.4	102 E	55*	54
4 18	8 33.12	+14 37.2	0.286	1.086	65.9	18.5	99 E	59*	49
4 20	8 35.04	+18 47.2	0.293	1.078	67.9	18.6	96 E	63*	45
4 22	8 37.13	+22 44.5	0.300	1.069	69.7	18.7	94 E	66*	41
4 24	8 39.38	+26 28.5	0.309	1.060	71.4	18.8	92 E	68*	38
4 26	8 41.77	+29 58.7	0.319	1.052	73.1	18.9	89 E	70*	34
5 1	8 48.23	+37 45.9	0.347	1.030	76.5	19.1	84 E	73*	26
5 6	8 55.20	+44 17.6	0.378	1.009	79.2	19.4	79 E	72*	20
5 11	9 2.42	+49 46.6	0.410	0.988	81.2	19.6	75 E	69*	14*
5 16	9 9.59	+54 25.9	0.443	0.967	82.7	19.8	72 E	66*	10*
5 18	9 12.37	+56 6.2	0.456	0.959	83.1	19.8	70 E	64*	8*
5 20	9 15.05	+57 41.0	0.469	0.951	83.5	19.9	69 E	63*	6*
5 22	9 17.61	+59 10.6	0.482	0.943	83.8	19.9	68 E	62*	5*
5 24	9 20.02	+60 35.6	0.494	0.936	84.1	20.0	67 E	60*	3*
5 26	9 22.23	+61 56.5	0.507	0.928	84.4	20.0	66 E	59*	2*
5 28	9 24.22	+63 13.4	0.518	0.921	84.6	20.1	65 E	58*	—
5 30	9 25.94	+64 26.8	0.530	0.914	84.7	20.1	64 E	57*	—
6 1	9 27.35	+65 37.0	0.541	0.907	84.9	20.1	63 E	56*	—
6 3	9 28.41	+66 44.0	0.551	0.901	85.0	20.2	62 E	55*	—
6 5	9 29.06	+67 48.1	0.562	0.895	85.1	20.2	61 E	54*	—
6 7	9 29.25	+68 49.5	0.571	0.889	85.1	20.2	61 E	53*	—
6 9	9 28.91	+69 48.2	0.580	0.883	85.2	20.2	60 E	52*	—
6 11	9 27.96	+70 44.4	0.589	0.877	85.2	20.3	59 E	51*	—
6 13	9 26.34	+71 38.0	0.597	0.872	85.3	20.3	59 E	50*	—
6 15	9 23.93	+72 29.0	0.604	0.868	85.3	20.3	58 E	49*	—
6 17	9 20.66	+73 17.3	0.611	0.863	85.3	20.3	58 E	48*	—
6 19	9 16.41	+74 2.8	0.618	0.859	85.3	20.3	57 E	47*	—

235756 2004 *VC* *(continuation)*

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 21	9 11.09	+74 45.3	0.623	0.855	85.3	20.3	57 E	46*	—
6 23	9 4.61	+75 24.4	0.628	0.852	85.3	20.3	57 E	45*	—
6 25	8 56.89	+75 59.8	0.632	0.849	85.3	20.3	56 E	44*	—
6 27	8 47.89	+76 31.1	0.636	0.846	85.3	20.3	56 E	43*	—
6 29	8 37.61	+76 57.8	0.639	0.844	85.3	20.4	56 E	43*	—
7 1	8 26.12	+77 19.5	0.641	0.843	85.3	20.4	56 E	42*	—
7 3	8 13.54	+77 35.7	0.643	0.841	85.3	20.4	56 E	41*	—
7 5	8 0.08	+77 45.9	0.644	0.840	85.4	20.4	55 E	40*	—
7 6	7 53.11	+77 48.7	0.644	0.840	85.4	20.4	55 E	39*	—
7 7	7 46.03	+77 49.9	0.644	0.840	85.4	20.4	55 E	39*	—
7 8	7 38.87	+77 49.5	0.644	0.840	85.4	20.4	55 E	38*	—
7 9	7 31.70	+77 47.4	0.644	0.840	85.4	20.4	55 E	38*	—
7 10	7 24.54	+77 43.7	0.644	0.840	85.4	20.4	55 E	38*	—
7 11	7 17.45	+77 38.3	0.643	0.841	85.4	20.4	55 W	37*	—
7 12	7 10.46	+77 31.2	0.642	0.841	85.4	20.4	56 W	38*	—
7 13	7 3.62	+77 22.5	0.641	0.841	85.4	20.4	56 W	38*	—
7 14	6 56.96	+77 12.2	0.640	0.842	85.4	20.4	56 W	39*	—
7 15	6 50.51	+77 0.2	0.639	0.843	85.5	20.4	56 W	39*	—
7 16	6 44.30	+76 46.8	0.638	0.844	85.5	20.4	56 W	39*	—
7 17	6 38.34	+76 31.7	0.636	0.844	85.5	20.3	56 W	40*	—
7 18	6 32.67	+76 15.2	0.634	0.845	85.5	20.3	56 W	40*	—
7 19	6 27.28	+75 57.3	0.632	0.847	85.5	20.3	56 W	41*	—
7 20	6 22.20	+75 37.9	0.630	0.848	85.5	20.3	56 W	41*	—
7 21	6 17.42	+75 17.2	0.628	0.849	85.5	20.3	56 W	42*	—
7 22	6 12.94	+74 55.2	0.626	0.851	85.5	20.3	57 W	42*	—
7 23	6 8.76	+74 31.9	0.623	0.852	85.5	20.3	57 W	43*	—
7 24	6 4.89	+74 7.3	0.621	0.854	85.6	20.3	57 W	43*	—
7 25	6 1.31	+73 41.6	0.618	0.855	85.6	20.3	57 W	44*	—
7 27	5 54.98	+72 46.7	0.612	0.859	85.6	20.3	58 W	45*	—
7 29	5 49.71	+71 47.4	0.605	0.863	85.6	20.3	58 W	46*	—
7 31	5 45.40	+70 43.8	0.598	0.868	85.5	20.3	58 W	47*	—
8 2	5 41.95	+69 36.3	0.591	0.873	85.5	20.3	59 W	48*	—
8 4	5 39.26	+68 24.8	0.583	0.878	85.5	20.2	60 W	49*	—
8 6	5 37.24	+67 9.4	0.574	0.883	85.4	20.2	60 W	50*	—
8 8	5 35.81	+65 50.1	0.566	0.889	85.3	20.2	61 W	51*	—
8 10	5 34.89	+64 26.8	0.556	0.895	85.2	20.2	62 W	52*	—
8 12	5 34.41	+62 59.5	0.547	0.901	85.1	20.1	62 W	54*	—
8 14	5 34.31	+61 27.9	0.537	0.908	84.9	20.1	63 W	55*	—
8 16	5 34.54	+59 52.0	0.527	0.915	84.7	20.1	64 W	56*	1*
8 18	5 35.05	+58 11.6	0.517	0.922	84.5	20.0	65 W	58*	3*
8 20	5 35.80	+56 26.3	0.507	0.929	84.2	20.0	66 W	59*	5*
8 22	5 36.75	+54 36.1	0.496	0.936	83.8	20.0	67 W	60*	7*
8 24	5 37.87	+52 40.6	0.485	0.944	83.5	19.9	68 W	62*	9*
8 29	5 41.21	+47 27.3	0.459	0.963	82.3	19.8	71 W	65*	14*
9 3	5 44.99	+41 35.1	0.434	0.984	80.7	19.7	74 W	67*	21*
9 8	5 48.84	+35 0.1	0.410	1.005	78.6	19.5	78 W	68*	27*
9 13	5 52.46	+27 40.0	0.390	1.026	76.1	19.4	82 W	67*	35*
9 18	5 55.65	+19 36.6	0.374	1.048	73.1	19.2	86 W	62*	44*
9 23	5 58.19	+10 58.1	0.364	1.069	69.8	19.1	90 W	55*	53*
9 25	5 58.98	+ 7 23.9	0.362	1.078	68.4	19.1	92 W	52*	56*
9 27	5 59.63	+ 3 47.6	0.360	1.087	67.0	19.0	94 W	49*	60*
9 29	6 0.11	+ 0 10.5	0.360	1.095	65.6	19.0	95 W	45*	64*
10 1	6 0.42	− 3 26.0	0.361	1.104	64.2	19.0	97 W	42	67*
10 3	6 0.53	− 7 0.5	0.363	1.112	62.9	19.0	98 W	38	71
10 5	6 0.44	−10 31.5	0.367	1.121	61.6	19.0	100 W	34	75
10 7	6 0.13	−13 57.9	0.371	1.129	60.4	19.0	101 W	31	78
10 9	5 59.60	−17 18.4	0.376	1.138	59.2	19.0	102 W	28	81
10 11	5 58.82	−20 32.1	0.383	1.146	58.1	19.0	103 W	24	85
10 13	5 57.79	−23 38.0	0.390	1.154	57.1	19.0	104 W	21	88
10 18	5 54.06	−30 45.4	0.413	1.174	54.9	19.1	105 W	14	85
10 23	5 48.60	−36 56.2	0.440	1.194	53.2	19.3	106 W	8	79
10 28	5 41.29	−42 10.0	0.470	1.213	51.8	19.4	106 W	3	74
11 2	5 32.14	−46 29.3	0.503	1.232	50.7	19.5	106 W	—	70
11 7	5 21.24	−49 57.5	0.538	1.250	49.8	19.7	106 W	—	66
11 12	5 8.93	−52 38.5	0.574	1.267	49.0	19.8	105 W	—	63
11 14	5 3.71	−53 30.7	0.589	1.273	48.7	19.9	105 W	—	62
11 16	4 58.37	−54 16.3	0.603	1.280	48.5	20.0	104 W	—	62
11 18	4 52.95	−54 55.7	0.618	1.286	48.2	20.0	104 W	—	61
11 20	4 47.49	−55 29.1	0.632	1.292	48.0	20.1	104 W	—	61
11 22	4 42.03	−55 56.8	0.647	1.298	47.8	20.1	103 W	—	60
11 24	4 36.61	−56 19.1	0.662	1.304	47.6	20.2	103 W	—	60
11 26	4 31.26	−56 36.2	0.676	1.310	47.4	20.2	102 W	—	59
11 28	4 26.02	−56 48.4	0.691	1.316	47.2	20.3	102 W	—	59
11 30	4 20.93	−56 56.0	0.705	1.321	47.0	20.3	101 E	—	59
12 2	4 16.02	−56 59.2	0.719	1.327	46.8	20.4	101 E	—	59
12 7	4 4.71	−56 49.8	0.754	1.340	46.4	20.5	100 E	—	59
12 12	3 55.07	−56 18.5	0.788	1.352	46.0	20.6	99 E	—	60

235756 2004 *VC* *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 17	3 47.26	−55 29.4	0.821	1.363	45.7	20.7	98 E	—	61
12 22	3 41.32	−54 25.4	0.852	1.374	45.3	20.8	97 E	—	62
12 27	3 37.18	−53 9.3	0.882	1.383	45.1	20.9	96 E	—	63
1 1	3 34.73	−51 43.2	0.911	1.392	44.8	20.9	94 E	—	64
1 6	3 33.87	−50 8.6	0.938	1.399	44.5	21.0	93 E	—	66
1 11	3 34.44	−48 27.3	0.964	1.406	44.3	21.1	92 E	—	68
1 16	3 36.29	−46 40.4	0.988	1.412	44.2	21.1	91 E	—	69
1 21	3 39.29	−44 48.9	1.011	1.417	44.0	21.2	90 E	—	71

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20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 21.39	+13 36.7	1.491	2.189	22.1	20.4	123 W	59	50
1 6	10 19.97	+14 22.2	1.430	2.227	18.6	20.3	134 W	59	50
1 16	10 15.12	+15 26.3	1.384	2.264	14.3	20.1	145 W	60	49
1 26	10 7.26	+16 43.0	1.360	2.301	9.4	19.9	158 W	62	47
1 31	10 2.47	+17 23.5	1.357	2.319	6.9	19.8	164 W	62	47
2 5	9 57.29	+18 3.8	1.361	2.338	4.4	19.7	170 W	63	46
2 10	9 51.91	+18 42.5	1.372	2.356	2.5	19.6	174 W	64	45
2 15	9 46.50	+19 18.6	1.390	2.374	2.8	19.7	173 E	64	45
2 20	9 41.26	+19 51.1	1.415	2.392	4.8	19.9	168 E	65	44
2 25	9 36.36	+20 19.3	1.447	2.409	7.1	20.0	163 E	65	44
3 2	9 31.94	+20 42.7	1.485	2.427	9.3	20.2	157 E	66	43
3 7	9 28.12	+21 1.1	1.530	2.444	11.4	20.4	151 E	66	43
3 17	9 22.57	+21 23.4	1.635	2.479	15.1	20.7	140 E	66	43
3 27	9 20.03	+21 27.6	1.759	2.513	17.9	21.0	129 E	66	43
4 6	9 20.41	+21 16.3	1.898	2.546	20.0	21.2	120 E	66	43
4 16	9 23.43	+20 52.0	2.047	2.578	21.4	21.5	111 E	66	43

176871 2002 UP_3

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 23.57	+23 51.9	2.608	3.277	14.1	20.7	125 W	69	40
1 6	10 20.54	+24 53.6	2.521	3.300	11.9	20.5	136 W	70	39
1 16	10 15.14	+26 2.4	2.455	3.321	9.4	20.4	147 W	71	38
1 26	10 7.64	+27 12.7	2.414	3.342	6.7	20.2	157 W	72	37
1 31	10 3.28	+27 46.4	2.405	3.352	5.5	20.2	161 W	73	36
2 5	9 58.62	+28 18.0	2.403	3.361	4.6	20.1	164 W	73	36
2 10	9 53.77	+28 46.7	2.408	3.371	4.4	20.1	165 W	74	35
2 15	9 48.84	+29 12.1	2.421	3.380	4.8	20.2	164 E	74	35
2 20	9 43.97	+29 33.4	2.442	3.389	5.7	20.2	160 E	75	34
2 25	9 39.27	+29 50.5	2.470	3.398	6.8	20.3	156 E	75	34
3 2	9 34.84	+30 3.1	2.506	3.407	8.1	20.4	151 E	75	34
3 7	9 30.77	+30 11.3	2.547	3.415	9.4	20.5	146 E	75	34
3 12	9 27.14	+30 15.2	2.595	3.423	10.6	20.6	141 E	75	34
3 17	9 24.03	+30 14.9	2.649	3.431	11.7	20.7	136 E	75	34
3 22	9 21.46	+30 10.9	2.708	3.439	12.7	20.8	131 E	75	34
3 27	9 19.46	+30 3.4	2.771	3.447	13.6	20.9	125 E	75	34
4 1	9 18.04	+29 52.7	2.838	3.454	14.4	21.0	121 E	75	34
4 6	9 17.20	+29 39.3	2.908	3.461	15.1	21.1	116 E	75	34
4 11	9 16.92	+29 23.4	2.980	3.468	15.6	21.1	111 E	74	35
4 16	9 17.19	+29 5.3	3.055	3.475	16.1	21.2	106 E	74	35
4 21	9 17.99	+28 45.3	3.132	3.481	16.4	21.3	102 E	74*	35
4 26	9 19.26	+28 23.6	3.210	3.488	16.6	21.3	98 E	73*	36
5 1	9 21.00	+28 0.3	3.288	3.494	16.7	21.4	93 E	70*	36
5 6	9 23.15	+27 35.7	3.366	3.500	16.8	21.4	89 E	67*	36

69117 2003 EX_2

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 23.65	+14 44.7	1.795	2.472	19.5	19.8	123 W	60	49
1 6	10 21.23	+15 28.8	1.723	2.507	16.4	19.7	134 W	60	49
1 16	10 15.76	+16 28.0	1.668	2.541	12.7	19.5	146 W	61	48
1 26	10 7.60	+17 37.4	1.636	2.574	8.4	19.3	158 W	63	46
1 31	10 2.75	+18 13.5	1.630	2.590	6.2	19.2	164 W	63	46
2 5	9 57.54	+18 49.4	1.631	2.606	4.0	19.1	169 W	64	45
2 10	9 52.14	+19 23.8	1.639	2.622	2.5	19.0	173 W	64	45
2 15	9 46.69	+19 55.8	1.655	2.638	2.8	19.1	173 E	65	44
2 20	9 41.37	+20 24.6	1.678	2.653	4.5	19.2	168 E	65	44
2 25	9 36.33	+20 49.7	1.709	2.668	6.5	19.4	162 E	66	43
3 2	9 31.70	+21 10.6	1.746	2.683	8.5	19.5	156 E	66	43
3 7	9 27.59	+21 27.1	1.789	2.698	10.4	19.7	151 E	66	43
3 17	9 21.24	+21 47.3	1.894	2.726	13.8	20.0	139 E	67	42
3 27	9 17.66	+21 51.2	2.019	2.754	16.4	20.2	129 E	67	42
4 6	9 16.84	+21 41.2	2.158	2.781	18.4	20.4	119 E	67	42
4 16	9 18.59	+21 19.5	2.308	2.807	19.7	20.6	109 E	66	43
4 26	9 22.59	+20 47.8	2.465	2.832	20.4	20.8	101 E	65*	43
5 6	9 28.47	+20 7.9	2.625	2.856	20.7	21.0	93 E	61*	44
5 16	9 35.92	+19 20.7	2.786	2.879	20.5	21.1	85 E	55*	45
5 26	9 44.65	+18 27.2	2.945	2.901	19.9	21.3	78 E	48*	45*
6 5	9 54.38	+17 28.1	3.099	2.922	19.1	21.4	71 E	41*	45*
6 15	10 4.92	+16 24.0	3.247	2.942	18.0	21.4	64 E	34*	44*
6 25	10 16.10	+15 15.5	3.386	2.961	16.8	21.5	57 E	28*	42*

219315 2000 ET_{118}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 27	10 23.76	+58 0.0	0.875	1.652	29.0	17.4	125 W	77	6
1 1	10 21.14	+58 18.6	0.860	1.658	27.8	17.3	128 W	77	6
1 6	10 16.07	+58 31.1	0.846	1.665	26.5	17.2	131 W	76	5
1 11	10 8.64	+58 34.5	0.836	1.673	25.2	17.2	134 W	76	5
1 16	9 59.14	+58 25.3	0.829	1.681	24.0	17.1	136 W	77	6
1 18	9 54.87	+58 17.4	0.827	1.685	23.5	17.1	137 W	77	6
1 20	9 50.39	+58 6.8	0.825	1.689	23.1	17.1	138 W	77	6
1 22	9 45.74	+57 53.3	0.825	1.692	22.7	17.1	139 W	77	6
1 24	9 40.98	+57 36.9	0.825	1.696	22.3	17.1	139 W	77	6
1 26	9 36.14	+57 17.4	0.825	1.700	22.0	17.1	140 W	78	7
1 28	9 31.27	+56 54.9	0.826	1.704	21.7	17.1	140 W	78	7
1 30	9 26.43	+56 29.3	0.828	1.708	21.4	17.1	141 W	79	8
2 1	9 21.66	+56 0.6	0.831	1.713	21.3	17.1	141 W	79	8
2 3	9 17.00	+55 29.0	0.835	1.717	21.1	17.1	141 W	80	9
2 5	9 12.48	+54 54.5	0.839	1.721	21.1	17.1	141 E	80	9
2 7	9 8.14	+54 17.2	0.844	1.726	21.1	17.1	141 E	81	10
2 9	9 4.01	+53 37.4	0.850	1.730	21.1	17.2	141 E	81	10
2 11	9 0.12	+52 55.1	0.856	1.735	21.2	17.2	140 E	82	11
2 13	8 56.49	+52 10.6	0.864	1.740	21.4	17.2	140 E	83	12
2 15	8 53.13	+51 24.2	0.872	1.745	21.6	17.3	139 E	84	13
2 20	8 45.97	+49 20.9	0.896	1.757	22.3	17.4	138 E	86	15
2 25	8 40.62	+47 10.3	0.924	1.770	23.2	17.5	135 E	88	17
3 2	8 36.99	+44 55.8	0.958	1.784	24.2	17.6	132 E	90	19
3 7	8 34.93	+42 40.0	0.996	1.798	25.2	17.7	129 E	88	21
3 12	8 34.28	+40 25.2	1.038	1.812	26.3	17.9	126 E	85	24
3 17	8 34.89	+38 12.9	1.084	1.826	27.2	18.0	123 E	83	26
3 22	8 36.58	+36 4.3	1.134	1.841	28.1	18.1	119 E	81	28
3 27	8 39.19	+34 0.0	1.188	1.857	28.9	18.3	116 E	79	30
4 1	8 42.59	+32 0.4	1.244	1.872	29.5	18.4	113 E	77	32
4 6	8 46.65	+30 5.4	1.303	1.888	30.0	18.6	109 E	75	34
4 11	8 51.28	+28 15.0	1.364	1.904	30.4	18.7	106 E	73	36
4 16	8 56.39	+26 28.9	1.428	1.921	30.6	18.8	103 E	71	38
4 26	9 7.76	+23 8.4	1.560	1.954	30.8	19.0	97 E	67*	41
5 6	9 20.29	+20 1.2	1.698	1.988	30.5	19.3	91 E	60*	44
5 16	9 33.65	+17 4.7	1.839	2.022	29.9	19.4	85 E	53*	47
5 26	9 47.59	+14 16.4	1.982	2.057	29.0	19.6	80 E	45*	50*
6 5	10 1.95	+11 34.7	2.126	2.091	27.8	19.8	74 E	38*	52*
6 15	10 16.61	+ 8 57.8	2.268	2.126	26.5	19.9	69 E	30*	52*
6 25	10 31.49	+ 6 24.8	2.408	2.161	25.0	20.0	64 E	24*	52*
7 5	10 46.52	+ 3 54.8	2.545	2.196	23.3	20.1	59 E	18*	50*
7 15	11 1.69	+ 1 27.2	2.676	2.230	21.5	20.2	54 E	13*	47*
7 25	11 16.97	− 0 58.5	2.802	2.264	19.7	20.3	49 E	9*	42*
8 4	11 32.35	− 3 22.3	2.921	2.298	17.8	20.4	44 E	6*	38*
8 14	11 47.83	− 5 44.4	3.033	2.331	15.8	20.4	39 E	2*	33*
8 24	12 3.41	− 8 4.9	3.135	2.364	13.8	20.4	34 E	—	28*
9 3	12 19.10	−10 23.6	3.228	2.396	11.8	20.5	29 E	—	22*
9 13	12 34.93	−12 40.4	3.310	2.428	9.8	20.5	24 E	—	17*
9 23	12 50.88	−14 55.2	3.381	2.459	7.9	20.5	20 E	—	12*
10 3	13 6.97	−17 7.6	3.440	2.489	6.1	20.4	15 E	—	7*
10 13	13 23.21	−19 17.4	3.487	2.519	4.7	20.4	12 E	—	2*
10 23	13 39.59	−21 24.4	3.520	2.547	4.0	20.4	10 W	—	1*
11 2	13 56.11	−23 28.3	3.540	2.575	4.5	20.5	12 W	—	5*
11 12	14 12.75	−25 28.9	3.545	2.603	5.7	20.6	15 W	—	9*
11 22	14 29.47	−27 25.9	3.537	2.629	7.3	20.7	20 W	—	14*
12 2	14 46.25	−29 19.2	3.516	2.654	9.0	20.8	25 W	3*	19*
12 12	15 3.02	−31 8.8	3.480	2.679	10.8	20.8	31 W	5*	24*
12 22	15 19.70	−32 54.7	3.431	2.703	12.5	20.9	36 W	6*	30*
1 1	15 36.20	−34 37.1	3.370	2.726	14.1	20.9	42 W	7*	36*
1 11	15 52.39	−36 16.4	3.296	2.748	15.6	20.9	49 W	6*	43*
1 21	16 8.12	−37 53.1	3.212	2.769	16.9	20.9	55 W	6*	49*

3343 Nedzel

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
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
1 21	10 8.83	+51 7.5	1.999	2.835	12.5	17.7	141 W	84	13
1 26	10 2.85	+51 55.6	1.979	2.824	12.3	17.7	142 W	83	12
1 31	9 56.07	+52 36.9	1.965	2.813	12.2	17.6	143 W	82	11
2 5	9 48.64	+53 10.2	1.957	2.802	12.4	17.6	142 W	82	11
2 10	9 40.80	+53 34.1	1.954	2.790	12.9	17.6	141 W	81	10
2 15	9 32.80	+53 48.0	1.958	2.778	13.6	17.7	139 E	81	10
2 20	9 24.93	+53 51.6	1.967	2.766	14.4	17.7	136 E	81	10
2 25	9 17.46	+53 45.0	1.982	2.754	15.2	17.7	133 E	81	10
3 2	9 10.63	+53 28.8	2.002	2.741	16.2	17.8	130 E	82	11
3 7	9 4.61	+53 3.9	2.026	2.728	17.1	17.8	126 E	82	11
3 12	8 59.54	+52 31.1	2.054	2.715	18.1	17.9	122 E	82	11
3 17	8 55.52	+51 51.6	2.085	2.702	18.9	17.9	118 E	83	12
3 22	8 52.58	+51 6.5	2.120	2.689	19.7	18.0	114 E	84	13

3343 Nedzel *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 27	8 50.71	+50 16.8	2.157	2.675	20.4	18.0	111 E	85	14
4 1	8 49.87	+49 23.4	2.197	2.661	21.1	18.1	107 E	86	15
4 6	8 50.00	+48 27.0	2.238	2.647	21.6	18.1	103 E	87	16
4 11	8 51.03	+47 28.3	2.280	2.633	22.1	18.2	99 E	88	17
4 16	8 52.89	+46 27.6	2.324	2.618	22.4	18.2	96 E	89	18
4 21	8 55.52	+45 25.5	2.367	2.604	22.7	18.2	92 E	86*	19
4 26	8 58.82	+44 22.1	2.412	2.589	22.9	18.3	89 E	82*	20
5 1	9 2.72	+43 17.8	2.456	2.574	23.0	18.3	85 E	77*	21
5 6	9 7.17	+42 12.5	2.499	2.559	23.0	18.3	82 E	73*	22
5 11	9 12.10	+41 6.5	2.543	2.543	22.9	18.3	79 E	69*	23
5 16	9 17.46	+39 59.6	2.585	2.527	22.8	18.4	75 E	65*	24*
5 26	9 29.27	+37 43.7	2.667	2.495	22.3	18.4	69 E	57*	26*
6 5	9 42.26	+35 24.7	2.743	2.463	21.6	18.4	63 E	50*	27*
6 15	9 56.17	+33 2.5	2.812	2.430	20.7	18.4	58 E	43*	28*
6 25	10 10.80	+30 36.9	2.875	2.396	19.7	18.4	52 E	36*	28*
7 5	10 25.98	+28 7.7	2.929	2.361	18.5	18.3	47 E	31*	27*
7 15	10 41.63	+25 34.8	2.975	2.326	17.1	18.3	42 E	26*	26*
7 25	10 57.66	+22 58.2	3.012	2.291	15.6	18.2	37 E	22*	23*
8 4	11 14.02	+20 18.0	3.041	2.255	14.1	18.2	33 E	19*	20*
8 14	11 30.68	+17 34.3	3.060	2.218	12.4	18.1	28 E	16*	17*
8 24	11 47.64	+14 47.4	3.069	2.182	10.7	18.0	24 E	13*	13*
9 3	12 4.91	+11 57.5	3.070	2.145	9.0	17.9	19 E	10*	9*
9 13	12 22.51	+ 9 5.0	3.061	2.109	7.3	17.8	15 E	8*	5*
9 23	12 40.48	+ 6 10.2	3.043	2.072	5.7	17.7	12 E	6*	—
10 3	12 58.86	+ 3 13.7	3.017	2.035	4.5	17.5	9 E	3*	—
10 13	13 17.71	+ 0 15.9	2.982	1.999	4.0	17.4	8 E	1*	—
10 23	13 37.09	− 2 42.4	2.939	1.963	4.6	17.4	9 W	2*	—
11 2	13 57.10	− 5 40.7	2.889	1.928	6.0	17.4	12 W	6*	—
11 12	14 17.80	− 8 38.2	2.831	1.894	7.9	17.4	15 W	9*	1*
11 22	14 39.30	−11 33.9	2.767	1.860	9.9	17.4	19 W	12*	5*
12 2	15 1.70	−14 26.9	2.698	1.828	12.0	17.4	23 W	13*	10*
12 12	15 25.11	−17 15.9	2.623	1.797	14.2	17.4	27 W	15*	15*
12 22	15 49.63	−19 59.5	2.545	1.768	16.4	17.3	30 W	15*	20*
1 1	16 15.39	−22 36.2	2.463	1.741	18.5	17.3	34 W	14*	25*
1 11	16 42.48	−25 4.1	2.380	1.716	20.7	17.3	38 W	13*	30*
1 21	17 10.97	−27 21.1	2.297	1.694	22.7	17.2	42 W	12*	35*

223145 2002 WX_8

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 24.02	+32 35.5	1.746	2.464	18.6	19.9	127 W	78	31
1 1	10 23.27	+33 45.9	1.719	2.482	17.3	19.9	132 W	79	30
1 6	10 21.60	+34 58.7	1.696	2.500	15.8	19.8	136 W	80	29
1 11	10 18.98	+36 12.6	1.678	2.517	14.3	19.7	141 W	81	28
1 16	10 15.45	+37 26.0	1.666	2.534	12.9	19.7	145 W	82	27
1 21	10 11.07	+38 37.1	1.661	2.551	11.7	19.6	148 W	84	25
1 26	10 5.94	+39 43.9	1.662	2.568	10.7	19.6	151 W	85	24
1 31	10 0.19	+40 44.9	1.669	2.584	10.1	19.6	153 W	86	23
2 5	9 53.99	+41 38.6	1.684	2.601	9.9	19.7	153 W	87	22
2 10	9 47.54	+42 23.8	1.705	2.617	10.2	19.7	152 W	87	22
2 15	9 41.06	+42 59.6	1.732	2.632	10.9	19.8	150 E	88	21
2 20	9 34.78	+43 25.9	1.766	2.648	11.9	19.9	147 E	88	21
2 25	9 28.89	+43 42.7	1.806	2.663	13.0	20.0	143 E	89	20
3 2	9 23.57	+43 50.5	1.852	2.678	14.1	20.1	139 E	89	20
3 7	9 18.95	+43 50.2	1.903	2.693	15.2	20.2	134 E	89	20
3 12	9 15.11	+43 42.5	1.958	2.707	16.3	20.3	130 E	89	20
3 17	9 12.13	+43 28.3	2.018	2.722	17.3	20.4	126 E	88	21
3 22	9 10.02	+43 8.7	2.081	2.736	18.1	20.5	121 E	88	21
3 27	9 8.78	+42 44.5	2.147	2.750	18.8	20.6	117 E	88	21
4 1	9 8.36	+42 16.5	2.216	2.763	19.4	20.7	113 E	87	22
4 6	9 8.73	+41 45.3	2.287	2.776	19.9	20.8	109 E	87	22
4 11	9 9.84	+41 11.5	2.359	2.789	20.3	20.9	105 E	86	23
4 16	9 11.62	+40 35.6	2.433	2.802	20.6	21.0	101 E	86	23
4 21	9 14.02	+39 57.9	2.508	2.815	20.7	21.1	97 E	85*	24
4 26	9 16.98	+39 18.7	2.584	2.827	20.8	21.1	93 E	82*	25
5 1	9 20.43	+38 38.3	2.659	2.839	20.8	21.2	90 E	78*	25
5 6	9 24.33	+37 56.9	2.735	2.851	20.7	21.3	86 E	74*	26
5 11	9 28.63	+37 14.5	2.810	2.862	20.5	21.3	83 E	70*	27
5 16	9 33.28	+36 31.4	2.884	2.873	20.2	21.4	79 E	66*	27
5 21	9 38.24	+35 47.5	2.958	2.884	19.9	21.5	76 E	62*	28
5 26	9 43.48	+35 3.0	3.030	2.895	19.5	21.5	73 E	58*	29*

415025 2011 QJ_{80}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 24.95	− 6 5.9	1.178	1.817	29.6	21.3	114 W	39	70
1 1	10 26.44	− 6 48.9	1.142	1.827	28.3	21.2	118 W	38	71
1 6	10 27.02	− 7 25.6	1.109	1.837	26.7	21.2	123 W	38	71
1 11	10 26.64	− 7 55.1	1.078	1.848	25.0	21.0	127 W	37	72
1 16	10 25.31	− 8 16.5	1.049	1.858	23.1	20.9	132 W	37	72
1 21	10 23.04	− 8 28.8	1.024	1.869	21.0	20.8	137 W	37	72
1 26	10 19.91	− 8 31.5	1.002	1.879	18.8	20.7	142 W	36	73
1 31	10 16.02	− 8 24.1	0.985	1.890	16.4	20.6	147 W	37	72
2 5	10 11.48	− 8 6.5	0.973	1.901	14.1	20.5	152 W	37	72
2 10	10 6.49	− 7 38.8	0.966	1.911	11.9	20.5	157 W	37	72

415025 2011 QJ_{80} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 15	10 1.24	− 7 1.9	0.964	1.922	10.1	20.4	160 W	38	71
2 20	9 55.97	− 6 16.9	0.968	1.933	9.0	20.4	162 E	39	70
2 25	9 50.92	− 5 25.6	0.978	1.944	9.0	20.4	162 E	40	69
3 2	9 46.29	− 4 29.9	0.994	1.955	10.0	20.5	160 E	41	68
3 7	9 42.24	− 3 31.7	1.016	1.966	11.7	20.6	156 E	41	68
3 12	9 38.92	− 2 32.8	1.043	1.976	13.6	20.8	152 E	42	67
3 17	9 36.43	− 1 35.1	1.075	1.987	15.7	20.9	147 E	43	66
3 22	9 34.82	− 0 40.0	1.113	1.998	17.7	21.1	143 E	44	65
3 27	9 34.12	+ 0 11.2	1.155	2.008	19.5	21.2	138 E	45	64
4 1	9 34.30	+ 0 57.8	1.201	2.019	21.2	21.4	133 E	46	63

333525 2005 QF_{28}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 25.41	+ 9 15.7	1.557	2.226	22.3	20.8	121 W	54	55
1 6	10 24.13	+ 9 46.4	1.491	2.264	19.0	20.6	131 W	55	54
1 16	10 19.57	+10 37.9	1.440	2.302	14.9	20.4	143 W	56	53
1 26	10 12.07	+11 46.7	1.409	2.339	10.2	20.2	155 W	57	52
1 31	10 7.46	+12 25.6	1.403	2.358	7.6	20.1	162 W	57	52
2 5	10 2.45	+13 5.9	1.403	2.376	5.0	20.0	168 W	58	51
2 10	9 57.19	+13 46.7	1.410	2.394	2.3	19.9	174 W	59	50
2 15	9 51.87	+14 26.6	1.425	2.412	0.7	19.8	178 E	59	50
2 20	9 46.67	+15 4.6	1.447	2.430	3.1	20.0	172 E	60	49
2 25	9 41.75	+15 39.8	1.476	2.448	5.6	20.2	166 E	61	48
3 2	9 37.26	+16 11.3	1.511	2.465	7.9	20.4	160 E	61	48
3 7	9 33.30	+16 38.8	1.553	2.483	10.1	20.6	154 E	62	47
3 12	9 29.98	+17 2.0	1.601	2.500	12.2	20.7	148 E	62	47
3 17	9 27.35	+17 20.7	1.655	2.517	14.0	20.9	142 E	62	47
3 22	9 25.45	+17 35.0	1.713	2.534	15.6	21.0	137 E	63	46
3 27	9 24.28	+17 45.0	1.776	2.550	17.0	21.2	132 E	63	46
4 1	9 23.84	+17 50.9	1.843	2.566	18.2	21.3	126 E	63	46
4 6	9 24.08	+17 53.0	1.913	2.583	19.3	21.4	122 E	63	46

133577 2003 UB_{50}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 25.51	+13 4.6	2.043	2.696	18.0	20.9	122 W	58	51
1 6	10 24.14	+13 41.1	1.929	2.695	15.6	20.7	133 W	59	50
1 16	10 19.98	+14 34.2	1.833	2.692	12.4	20.5	144 W	60	49
1 26	10 13.15	+15 40.9	1.759	2.688	8.6	20.3	156 W	61	48
1 31	10 8.87	+16 17.8	1.731	2.686	6.5	20.1	162 W	61	48
2 5	10 4.14	+16 55.8	1.711	2.683	4.4	20.0	168 W	62	47
2 10	9 59.06	+17 34.0	1.698	2.680	2.5	19.9	173 W	63	46
2 15	9 53.78	+18 11.3	1.692	2.677	2.0	19.8	175 E	63	46
2 20	9 48.46	+18 46.8	1.694	2.674	3.6	19.9	170 E	64	45
2 25	9 43.25	+19 19.6	1.704	2.671	5.7	20.0	164 E	64	45
3 2	9 38.30	+19 48.9	1.721	2.667	7.9	20.2	158 E	65	44
3 7	9 33.74	+20 14.3	1.744	2.663	10.0	20.3	152 E	65	44
3 17	9 26.24	+20 52.1	1.809	2.654	13.7	20.5	141 E	66	43
3 27	9 21.41	+21 12.3	1.894	2.645	16.9	20.7	130 E	66	43
4 6	9 19.48	+21 16.2	1.994	2.634	19.3	20.9	119 E	66	43
4 16	9 20.38	+21 5.6	2.105	2.623	21.1	21.0	110 E	66	43
4 26	9 23.89	+20 42.3	2.223	2.610	22.2	21.2	101 E	65*	43
5 6	9 29.67	+20 7.9	2.342	2.597	22.8	21.3	93 E	61*	44
5 16	9 37.40	+19 23.7	2.462	2.583	23.0	21.4	85 E	55*	45
5 26	9 46.77	+18 30.6	2.579	2.568	22.7	21.5	78 E	48*	45*

306605 2000 LV_{25}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 26.60	−26 45.9	3.509	3.848	14.4	21.4	103 W	18	89
1 6	10 23.96	−27 55.6	3.402	3.862	13.8	21.3	111 W	17	88
1 16	10 19.44	−28 49.9	3.305	3.875	12.9	21.2	119 W	16	87
1 26	10 13.21	−29 24.7	3.224	3.886	11.8	21.1	126 W	16	87
2 5	10 5.67	−29 37.0	3.161	3.897	10.7	21.0	133 W	15	86
2 15	9 57.32	−29 24.7	3.119	3.908	9.8	21.0	138 W	16	87
2 25	9 48.85	−28 47.9	3.102	3.917	9.2	20.9	141 E	16	87
3 7	9 40.93	−27 49.4	3.109	3.926	9.3	20.9	140 E	17	88
3 17	9 34.18	−26 33.5	3.141	3.933	9.8	21.0	138 E	18	89
3 27	9 29.04	−25 6.3	3.198	3.940	10.8	21.1	132 E	20	89
4 6	9 25.76	−23 33.9	3.275	3.946	11.8	21.2	126 E	21	88
4 16	9 24.41	−22 2.1	3.370	3.952	12.9	21.3	119 E	23	86
4 26	9 24.95	−20 35.6	3.480	3.956	13.7	21.4	111 E	24*	85
5 6	9 27.23	−19 17.6	3.601	3.960	14.3	21.5	103 E	24*	83

265661 2005 UB

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 27.12	−20 35.7	1.338	1.868	30.4	19.9	106 W	24	85
1 1	10 28.62	−23 4.7	1.247	1.821	30.7	19.7	109 W	22	87
1 6	10 29.35	−25 45.9	1.160	1.772	31.1	19.5	111 W	19	90
1 11	10 29.13	−28 40.7	1.076	1.722	31.6	19.3	113 W	16	87
1 16	10 27.75	−31 50.3	0.996	1.671	32.2	19.1	115 W	13	84
1 21	10 24.92	−35 16.2	0.920	1.619	33.0	18.8	116 W	10	81
1 26	10 20.25	−38 59.6	0.849	1.565	34.1	18.6	117 W	6	77
1 31	10 13.15	−43 1.2	0.783	1.510	35.6	18.4	117 W	2	73
2 5	10 2.76	−47 20.5	0.723	1.454	37.7	18.2	116 W	—	69

265661 2005 *UB* (*continuation*)

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 7	9 57.40	−49 8.7	0.701	1.431	38.7	18.2	115 W	—	67
2 9	9 51.19	−50 59.1	0.679	1.408	39.8	18.1	114 W	—	65
2 11	9 43.99	−52 51.2	0.659	1.385	41.0	18.0	113 W	—	63
2 13	9 35.64	−54 44.5	0.639	1.361	42.4	17.9	112 E	—	61
2 15	9 25.93	−56 38.2	0.621	1.337	43.8	17.9	110 E	—	59
2 16	9 20.49	−57 35.0	0.612	1.325	44.6	17.9	110 E	—	58
2 17	9 14.61	−58 31.5	0.604	1.313	45.5	17.8	109 E	—	57
2 18	9 8.27	−59 27.6	0.595	1.301	46.3	17.8	108 E	—	57
2 19	9 1.41	−60 23.1	0.587	1.289	47.2	17.8	107 E	—	56
2 20	8 53.99	−61 17.7	0.579	1.276	48.1	17.8	106 E	—	55
2 21	8 45.98	−62 11.3	0.572	1.264	49.1	17.7	105 E	—	54
2 22	8 37.30	−63 3.6	0.564	1.252	50.1	17.7	104 E	—	53
2 23	8 27.93	−63 54.2	0.557	1.239	51.1	17.7	103 E	—	52
2 24	8 17.81	−64 42.8	0.550	1.227	52.2	17.7	102 E	—	51
2 25	8 6.90	−65 29.0	0.544	1.214	53.2	17.7	101 E	—	51
2 26	7 55.15	−66 12.5	0.538	1.202	54.4	17.6	99 E	—	50
2 27	7 42.53	−66 52.7	0.532	1.189	55.5	17.6	98 E	—	49
2 28	7 29.05	−67 29.1	0.526	1.176	56.7	17.6	97 E	—	49
3 1	7 14.69	−68 1.3	0.520	1.163	57.9	17.6	96 E	—	48
3 2	6 59.50	−68 28.7	0.515	1.151	59.2	17.6	94 E	—	48
3 3	6 43.54	−68 50.8	0.510	1.138	60.5	17.6	93 E	—	47
3 4	6 26.91	−69 7.0	0.505	1.125	61.8	17.6	92 E	—	47
3 5	6 9.74	−69 17.0	0.501	1.112	63.1	17.6	90 E	—	47
3 6	5 52.19	−69 20.4	0.497	1.099	64.5	17.6	89 E	—	47
3 7	5 34.45	−69 16.9	0.493	1.086	65.9	17.6	87 E	—	47*
3 8	5 16.72	−69 6.4	0.489	1.072	67.3	17.6	86 E	—	47*
3 9	4 59.18	−68 48.9	0.485	1.059	68.8	17.6	84 E	—	46*
3 10	4 42.03	−68 24.4	0.482	1.046	70.3	17.6	83 E	—	46*
3 11	4 25.40	−67 53.2	0.479	1.033	71.8	17.6	81 E	—	46*
3 12	4 9.42	−67 15.5	0.476	1.019	73.3	17.6	79 E	—	45*
3 13	3 54.19	−66 31.8	0.474	1.006	74.9	17.6	78 E	—	45*
3 14	3 39.74	−65 42.4	0.472	0.992	76.5	17.6	76 E	—	44*
3 15	3 26.12	−64 47.7	0.470	0.979	78.1	17.6	74 E	—	43*
3 16	3 13.31	−63 48.1	0.468	0.965	79.7	17.7	73 E	—	42*
3 17	3 1.31	−62 44.0	0.467	0.952	81.3	17.7	71 E	—	41*
3 18	2 50.08	−61 35.8	0.466	0.938	83.0	17.7	69 E	—	40*
3 19	2 39.58	−60 23.9	0.465	0.925	84.7	17.7	68 E	—	39*
3 20	2 29.77	−59 8.5	0.464	0.911	86.3	17.8	66 E	—	38*
3 21	2 20.60	−57 49.9	0.464	0.897	88.0	17.8	64 E	—	37*
3 22	2 12.02	−56 28.4	0.464	0.884	89.7	17.8	62 E	—	35*
3 23	2 3.99	−55 4.2	0.465	0.870	91.4	17.9	61 E	—	34*
3 24	1 56.47	−53 37.6	0.465	0.856	93.2	17.9	59 E	—	32*
3 25	1 49.43	−52 8.8	0.466	0.843	94.9	18.0	57 E	—	31*
3 26	1 42.81	−50 37.8	0.468	0.829	96.6	18.0	56 E	—	29*
3 27	1 36.59	−49 5.0	0.470	0.815	98.3	18.1	54 E	—	28*
3 29	1 25.24	−45 54.2	0.474	0.788	101.6	18.2	51 E	—	24*
3 31	1 15.19	−42 37.6	0.481	0.761	104.8	18.3	47 E	—	21*
4 2	1 6.27	−39 16.4	0.489	0.734	107.9	18.4	44 E	—	17*
4 4	0 58.38	−35 51.6	0.499	0.708	110.7	18.6	41 E	—	13*
4 6	0 51.43	−32 24.4	0.511	0.682	113.2	18.7	39 W	—	12*
4 8	0 45.37	−28 56.0	0.525	0.657	115.3	18.8	36 W	—	14*
4 10	0 40.17	−25 27.6	0.542	0.633	116.8	18.9	34 W	—	16*
4 12	0 35.79	−22 0.4	0.561	0.609	117.7	18.9	33 W	—	17*
4 14	0 32.25	−18 35.5	0.583	0.588	117.9	19.0	31 W	—	18*
4 16	0 29.56	−15 14.0	0.608	0.567	117.2	18.9	30 W	—	20*
4 18	0 27.71	−11 57.0	0.635	0.549	115.8	18.8	29 W	—	21*
4 20	0 26.73	− 8 45.4	0.666	0.533	113.5	18.7	29 W	—	22*
4 22	0 26.63	− 5 40.1	0.698	0.519	110.4	18.6	29 W	—	22*
4 24	0 27.42	− 2 41.8	0.734	0.508	106.7	18.4	29 W	—	23*
4 26	0 29.08	+ 0 8.9	0.771	0.501	102.5	18.3	29 W	2*	23*
5 1	0 36.84	+ 6 39.3	0.872	0.497	90.4	18.0	30 W	8*	23*
5 6	0 48.97	+12 15.6	0.979	0.515	78.2	17.8	30 W	11*	22*
5 11	1 4.16	+16 58.8	1.085	0.552	67.3	17.9	30 W	14*	20*
5 16	1 21.12	+20 54.3	1.186	0.602	58.4	18.0	30 W	16*	19*
5 18	1 28.16	+22 16.7	1.225	0.625	55.4	18.0	31 W	17*	18*
5 20	1 35.28	+23 33.1	1.263	0.649	52.7	18.1	31 W	17*	18*
5 22	1 42.43	+24 43.8	1.300	0.674	50.3	18.2	31 W	18*	17*
5 24	1 49.59	+25 49.3	1.336	0.700	48.1	18.3	31 W	19*	17*
5 26	1 56.73	+26 50.1	1.370	0.726	46.1	18.3	31 W	19*	17*
5 31	2 14.37	+29 3.5	1.452	0.793	42.1	18.5	32 W	20*	16*
6 5	2 31.57	+30 54.4	1.527	0.861	39.0	18.7	32 W	21*	15*
6 10	2 48.20	+32 26.9	1.596	0.929	36.6	18.9	33 W	22*	15*
6 15	3 4.19	+33 44.2	1.659	0.997	34.9	19.1	34 W	24*	15*
6 20	3 19.52	+34 48.8	1.715	1.064	33.5	19.3	35 W	25*	15*
6 25	3 34.18	+35 42.9	1.766	1.129	32.6	19.5	37 W	27*	15*
6 30	3 48.19	+36 28.3	1.811	1.193	31.9	19.6	38 W	28*	15*
7 5	4 1.53	+37 6.3	1.851	1.256	31.4	19.8	40 W	30*	16*
7 10	4 14.23	+37 38.3	1.885	1.317	31.0	19.9	42 W	33*	16*
7 15	4 26.29	+38 5.0	1.914	1.377	30.8	20.0	44 W	35*	16*

265661 2005 *UB* (*continuation*)

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 25	4 48.48	+38 46.3	1.955	1.492	30.7	20.2	49 W	40*	17*
8 4	5 8.16	+39 15.8	1.976	1.601	30.7	20.4	54 W	46*	18*
8 14	5 25.27	+39 37.8	1.978	1.705	30.8	20.6	60 W	52*	20*
8 24	5 39.69	+39 55.6	1.963	1.805	30.8	20.7	66 W	59*	21*
9 3	5 51.23	+40 12.0	1.931	1.899	30.5	20.7	73 W	66*	22*
9 13	5 59.57	+40 28.9	1.887	1.989	29.9	20.8	81 W	74*	22*
9 23	6 4.31	+40 47.6	1.832	2.075	28.9	20.8	89 W	82*	23*
10 3	6 4.96	+41 7.7	1.771	2.156	27.3	20.7	98 W	86	23*
10 13	6 0.96	+41 27.0	1.708	2.234	25.1	20.7	108 W	86	23
10 23	5 51.90	+41 40.4	1.651	2.308	22.1	20.6	119 W	87	22
11 2	5 37.76	+41 39.7	1.606	2.379	18.3	20.5	131 W	87	22
11 7	5 28.96	+41 31.0	1.590	2.413	16.2	20.4	137 W	87	22
11 12	5 19.23	+41 15.1	1.580	2.446	14.0	20.3	143 W	86	23
11 17	5 8.82	+40 51.1	1.576	2.479	11.7	20.3	149 W	86	23
11 22	4 58.03	+40 18.6	1.580	2.510	9.6	20.2	155 W	85	24
11 27	4 47.17	+39 37.8	1.592	2.541	7.7	20.2	160 W	85	24
12 2	4 36.55	+38 49.4	1.612	2.571	6.4	20.2	163 W	84	25
12 7	4 26.47	+37 54.7	1.641	2.601	6.2	20.2	164 E	83	26
12 12	4 17.17	+36 55.3	1.678	2.629	6.9	20.3	161 E	82	27
12 17	4 8.84	+35 53.2	1.724	2.657	8.3	20.5	157 E	81	28
12 22	4 1.57	+34 50.3	1.777	2.685	10.0	20.6	152 E	80	29
12 27	3 55.41	+33 48.2	1.838	2.711	11.6	20.8	146 E	79	30
1 1	3 50.37	+32 48.3	1.905	2.737	13.2	21.0	141 E	78	31
1 6	3 46.42	+31 51.6	1.978	2.762	14.6	21.1	135 E	77	32
1 11	3 43.51	+30 59.0	2.057	2.787	15.8	21.3	129 E	76	33
1 16	3 41.57	+30 10.8	2.141	2.811	16.9	21.4	124 E	75	34

472253 2014 *NA*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 27.83	− 0 44.9	0.687	1.426	38.3	20.6	116 W	44	65
1 6	10 31.81	− 5 45.0	0.623	1.420	35.7	20.3	123 W	39	70
1 16	10 30.68	−10 53.4	0.568	1.415	32.5	20.0	129 W	34	75
1 26	10 23.79	−15 53.8	0.526	1.411	29.0	19.7	136 W	29	80
1 31	10 18.17	−18 13.5	0.509	1.409	27.5	19.6	139 W	27	82
2 5	10 11.22	−20 21.2	0.496	1.407	26.1	19.5	141 W	25	84
2 10	10 3.14	−22 12.9	0.487	1.405	25.2	19.4	143 W	23	86
2 15	9 54.28	−23 45.2	0.481	1.404	24.8	19.4	143 W	21	88
2 20	9 45.11	−24 55.8	0.479	1.403	24.8	19.4	143 E	20	89
2 25	9 36.10	−25 43.9	0.481	1.402	25.5	19.4	142 E	19	90
3 2	9 27.74	−26 10.4	0.486	1.402	26.5	19.5	141 E	19	90
3 7	9 20.41	−26 16.9	0.493	1.401	27.9	19.5	139 E	19	90
3 12	9 14.46	−26 6.1	0.503	1.401	29.4	19.6	136 E	19	90
3 17	9 10.11	−25 41.6	0.516	1.401	31.0	19.7	133 E	19	90
3 22	9 7.48	−25 6.8	0.531	1.401	32.6	19.8	131 E	20	89
3 27	9 6.56	−24 25.2	0.547	1.402	34.2	19.9	128 E	21	88
4 1	9 7.29	−23 39.5	0.565	1.402	35.7	20.1	125 E	21	88
4 6	9 9.56	−22 52.0	0.584	1.403	37.0	20.2	122 E	22	87
4 11	9 13.26	−22 4.3	0.605	1.404	38.3	20.3	120 E	23	86
4 16	9 18.28	−21 18.2	0.626	1.405	39.4	20.4	117 E	24	85
4 21	9 24.50	−20 34.8	0.648	1.407	40.4	20.5	115 E	24	85
4 26	9 31.77	−19 54.9	0.672	1.409	41.2	20.6	113 E	25*	84
5 1	9 39.97	−19 19.0	0.696	1.410	42.0	20.7	110 E	25*	83
5 6	9 48.99	−18 47.2	0.720	1.412	42.7	20.8	108 E	25*	83
5 11	9 58.75	−18 19.9	0.746	1.415	43.2	20.9	106 E	25*	82
5 16	10 9.16	−17 57.2	0.772	1.417	43.7	21.0	104 E	24*	82
5 21	10 20.15	−17 39.1	0.799	1.420	44.1	21.1	103 E	24*	82
5 26	10 31.63	−17 25.6	0.826	1.422	44.4	21.2	101 E	23*	81
5 31	10 43.53	−17 16.3	0.854	1.425	44.6	21.2	99 E	22*	81
6 5	10 55.80	−17 11.0	0.883	1.428	44.8	21.3	97 E	21*	81
6 10	11 8.40	−17 9.6	0.913	1.432	44.9	21.4	96 E	19*	81
6 15	11 21.28	−17 11.7	0.943	1.435	44.9	21.5	94 E	18*	81

171819 2001 FZ_6

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 28.29	+28 27.3	0.969	1.734	27.6	20.7	125 W	73	36
1 1	10 28.29	+29 4.8	0.933	1.737	25.7	20.5	130 W	74	35
1 6	10 26.91	+29 47.4	0.899	1.739	23.5	20.4	135 W	75	34
1 11	10 24.03	+30 33.9	0.868	1.741	21.2	20.2	140 W	76	33
1 16	10 19.62	+31 22.7	0.842	1.743	18.8	20.1	145 W	76	33
1 21	10 13.69	+32 11.3	0.820	1.744	16.3	20.0	150 W	77	32
1 26	10 6.37	+32 57.2	0.802	1.744	13.9	19.8	155 W	78	31
1 31	9 57.85	+33 37.2	0.791	1.745	12.0	19.7	158 W	79	30
2 5	9 48.43	+34 8.7	0.784	1.745	11.0	19.7	160 W	79	30
2 10	9 38.50	+34 29.3	0.784	1.744	11.2	19.7	160 W	79	30
2 15	9 28.53	+34 37.5	0.789	1.743	12.6	19.7	157 E	80	29
2 20	9 19.00	+34 32.7	0.800	1.742	14.7	19.8	153 E	80	29
2 25	9 10.33	+34 15.6	0.817	1.740	17.2	20.0	149 E	79	30
3 2	9 2.82	+33 47.5	0.838	1.738	19.8	20.1	144 E	79	30
3 7	8 56.66	+33 10.2	0.863	1.735	22.3	20.2	138 E	78	31
3 12	8 51.98	+32 25.5	0.892	1.732	24.7	20.4	133 E	77	32
3 17	8 48.81	+31 35.0	0.925	1.729	26.8	20.5	128 E	77	32
3 22	8 47.10	+30 40.3	0.960	1.725	28.7	20.7	124 E	76	33
3 27	8 46.75	+29 42.5	0.998	1.721	30.4	20.8	119 E	75	34

171819 2001 FZ_6 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 1	8 47.65	+28 42.4	1.037	1.717	31.9	20.9	115 E	74	35
4 6	8 49.67	+27 40.8	1.078	1.712	33.1	21.0	111 E	73	36
4 11	8 52.70	+26 37.8	1.119	1.706	34.2	21.1	107 E	72	37
4 16	8 56.63	+25 33.7	1.161	1.701	35.0	21.2	103 E	71	38
4 21	9 1.35	+24 28.6	1.204	1.695	35.7	21.3	100 E	69*	40
4 26	9 6.76	+23 22.5	1.247	1.688	36.3	21.4	97 E	67*	41
5 1	9 12.77	+22 15.4	1.289	1.682	36.7	21.5	93 E	64*	42

101554 1999 AL_4

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 28.72	+ 7 58.1	1.510	2.170	23.2	19.6	119 W	53	56
1 6	10 23.77	+ 6 31.8	1.443	2.209	19.9	19.4	130 W	52	57
1 16	10 15.21	+ 5 19.3	1.391	2.248	15.7	19.2	142 W	50	59
1 26	10 3.58	+ 4 22.1	1.362	2.286	11.0	19.1	154 W	49	60
2 5	9 49.98	+ 3 40.6	1.358	2.324	6.4	18.9	165 W	49	60
2 15	9 35.90	+ 3 14.0	1.384	2.362	4.4	18.9	169 E	48	61
2 25	9 22.97	+ 2 59.3	1.439	2.399	7.4	19.1	162 E	48	61
3 7	9 12.45	+ 2 52.4	1.521	2.435	11.5	19.4	151 E	48	61
3 17	9 5.06	+ 2 49.2	1.627	2.470	15.1	19.8	140 E	48	61
3 27	9 1.03	+ 2 45.5	1.751	2.505	18.0	20.0	129 E	48	61
4 6	9 0.14	+ 2 38.6	1.891	2.539	20.0	20.3	120 E	48	61
4 16	9 2.05	+ 2 26.6	2.041	2.572	21.4	20.5	111 E	47	62
4 26	9 6.35	+ 2 7.9	2.197	2.604	22.2	20.8	102 E	46*	62
5 6	9 12.58	+ 1 42.1	2.357	2.636	22.4	20.9	95 E	43*	62
5 16	9 20.41	+ 1 8.9	2.518	2.666	22.3	21.1	87 E	38*	63*
5 26	9 29.51	+ 0 28.0	2.677	2.696	21.7	21.2	80 E	31*	63*
6 5	9 39.61	− 0 20.1	2.833	2.724	20.9	21.4	74 E	25*	61*
6 15	9 50.52	− 1 15.3	2.983	2.752	19.9	21.5	67 E	18*	58*

344151 2000 SV_4

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 29.12	+26 14.7	1.356	2.080	22.9	21.3	125 W	71	38
1 6	10 28.43	+27 37.9	1.273	2.084	19.6	21.1	135 W	73	36
1 16	10 23.40	+29 16.2	1.206	2.088	15.8	20.9	145 W	74	35
1 26	10 14.06	+30 58.8	1.159	2.090	11.8	20.6	154 W	76	33
2 5	10 1.20	+32 30.2	1.137	2.092	9.1	20.5	160 W	78	31
2 10	9 53.91	+33 6.9	1.135	2.092	8.9	20.5	161 W	78	31
2 15	9 46.41	+33 35.3	1.139	2.092	9.7	20.5	159 E	79	30
2 20	9 39.00	+33 54.4	1.150	2.091	11.2	20.6	156 E	79	30
2 25	9 31.97	+34 3.9	1.167	2.091	13.0	20.7	152 E	79	30
3 2	9 25.56	+34 3.9	1.189	2.090	15.1	20.8	147 E	79	30
3 7	9 19.98	+33 55.0	1.217	2.089	17.1	20.9	142 E	79	30
3 12	9 15.36	+33 38.1	1.250	2.088	19.0	21.1	137 E	79	30
3 17	9 11.80	+33 14.3	1.286	2.086	20.8	21.2	132 E	78	31
3 22	9 9.35	+32 44.5	1.327	2.084	22.4	21.3	127 E	78	31
3 27	9 7.98	+32 9.8	1.370	2.082	23.9	21.4	122 E	77	32

227126 2005 OP_4

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 29.53	+17 49.2	1.965	2.629	18.4	21.2	123 W	63	46
1 6	10 27.40	+18 33.1	1.882	2.654	15.6	21.0	133 W	64	45
1 16	10 22.31	+19 29.8	1.815	2.678	12.3	20.9	145 W	64	45
1 26	10 14.55	+20 34.3	1.772	2.702	8.5	20.7	156 W	66	43
2 5	10 4.77	+21 39.3	1.755	2.724	4.7	20.5	167 W	67	42
2 15	9 53.96	+22 37.1	1.768	2.746	3.5	20.5	170 W	68	41
2 20	9 48.56	+23 1.1	1.785	2.757	4.8	20.6	167 E	68	41
2 25	9 43.36	+23 21.1	1.810	2.767	6.5	20.7	162 E	68	41
3 2	9 38.50	+23 36.7	1.842	2.777	8.3	20.8	156 E	69	40
3 7	9 34.10	+23 47.8	1.880	2.787	10.1	20.9	151 E	69	40
3 12	9 30.25	+23 54.5	1.924	2.797	11.8	21.1	145 E	69	40
3 17	9 27.03	+23 56.8	1.974	2.806	13.3	21.2	139 E	69	40
3 22	9 24.48	+23 55.0	2.029	2.815	14.7	21.3	134 E	69	40
3 27	9 22.63	+23 49.5	2.089	2.824	16.0	21.4	129 E	69	40

383572 2007 ES_{184}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 29.96	+21 7.4	1.135	1.867	26.1	19.5	123 W	66	43
1 6	10 40.39	+24 1.8	1.030	1.835	23.7	19.2	131 W	69	40
1 16	10 48.36	+27 41.7	0.941	1.805	20.8	18.9	139 W	73	36
1 26	10 53.32	+32 0.5	0.873	1.776	18.1	18.6	146 W	77	32
1 31	10 54.54	+34 19.4	0.846	1.762	17.1	18.5	148 W	79	30
2 5	10 54.85	+36 40.5	0.826	1.749	16.6	18.4	150 W	82	27
2 10	10 54.26	+39 0.0	0.811	1.736	16.6	18.3	150 W	84	25
2 15	10 52.82	+41 13.6	0.801	1.724	17.3	18.3	149 W	86	23
2 20	10 50.66	+43 17.2	0.797	1.712	18.5	18.3	147 W	88	21
2 25	10 47.96	+45 7.3	0.798	1.701	20.0	18.4	144 W	90	19
3 2	10 44.95	+46 41.2	0.803	1.690	21.8	18.4	141 E	88	17
3 7	10 41.90	+47 57.1	0.812	1.680	23.7	18.5	137 E	87	16
3 12	10 39.09	+48 54.1	0.825	1.671	25.6	18.6	133 E	86	15
3 17	10 36.81	+49 32.1	0.840	1.662	27.4	18.7	130 E	85	14
3 22	10 35.31	+49 51.7	0.858	1.655	29.1	18.7	126 E	85	14
3 27	10 34.78	+49 54.1	0.879	1.647	30.6	18.8	123 E	85	14
4 1	10 35.31	+49 41.0	0.900	1.641	32.0	18.9	119 E	85	14

383572 2007 ES_{184} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 6	10 36.92	+49 13.5	0.923	1.635	33.2	19.0	116 E	86	15
4 11	10 39.61	+48 33.2	0.948	1.631	34.3	19.1	113 E	86	15
4 16	10 43.34	+47 41.1	0.973	1.627	35.2	19.1	111 E	87	16
4 21	10 48.04	+46 38.5	0.999	1.623	36.0	19.2	108 E	88	17
4 26	10 53.58	+45 26.6	1.025	1.621	36.7	19.3	106 E	90	19
5 1	10 59.86	+44 6.3	1.052	1.619	37.2	19.4	104 E	89	20
5 6	11 6.77	+42 38.2	1.080	1.619	37.6	19.4	102 E	88	21
5 11	11 14.22	+41 3.2	1.108	1.619	38.0	19.5	100 E	86	23
5 16	11 22.13	+39 21.9	1.137	1.620	38.2	19.6	98 E	84*	25
5 21	11 30.43	+37 35.0	1.167	1.622	38.4	19.6	96 E	81*	26
5 26	11 39.03	+35 43.2	1.197	1.624	38.5	19.7	94 E	78*	28
5 31	11 47.87	+33 47.1	1.228	1.628	38.5	19.7	93 E	74*	30
6 5	11 56.92	+31 47.4	1.260	1.632	38.4	19.8	91 E	70*	32
6 10	12 6.14	+29 44.5	1.292	1.637	38.3	19.9	90 E	67*	34
6 15	12 15.50	+27 39.0	1.326	1.643	38.2	19.9	88 E	63*	36
6 20	12 24.97	+25 31.7	1.362	1.650	37.9	20.0	87 E	60*	38
6 25	12 34.54	+23 23.1	1.398	1.657	37.7	20.0	85 E	57*	41
6 30	12 44.18	+21 13.8	1.435	1.665	37.4	20.1	84 E	53*	43
7 5	12 53.88	+19 4.3	1.474	1.674	37.0	20.2	82 E	50*	45
7 10	13 3.66	+16 55.1	1.515	1.683	36.6	20.2	81 E	48*	47
7 15	13 13.50	+14 46.7	1.557	1.694	36.1	20.3	79 E	45*	49*
7 20	13 23.40	+12 39.7	1.600	1.704	35.6	20.3	78 E	43*	51*
7 25	13 33.35	+10 34.3	1.644	1.716	35.1	20.4	76 E	40*	53*
8 4	13 53.44	+ 6 30.5	1.738	1.740	33.9	20.5	73 E	36*	55*
8 14	14 13.78	+ 2 37.7	1.837	1.766	32.6	20.6	70 E	33*	56*
8 24	14 34.41	− 1 1.6	1.940	1.795	31.1	20.7	66 E	29*	55*
9 3	14 55.32	− 4 25.8	2.047	1.824	29.5	20.8	63 E	27*	53*
9 13	15 16.56	− 7 33.8	2.157	1.856	27.8	20.9	59 E	24*	51*
9 23	15 38.11	−10 24.8	2.269	1.888	25.9	21.0	55 E	22*	47*
10 3	15 59.98	−12 58.2	2.382	1.921	24.0	21.1	51 E	20*	44*
10 13	16 22.15	−15 13.8	2.494	1.955	21.9	21.2	47 E	18*	40*
10 23	16 44.56	−17 11.6	2.603	1.990	19.8	21.3	43 E	16*	35*
11 2	17 7.17	−18 51.7	2.710	2.025	17.6	21.3	38 E	15*	30*
11 12	17 29.93	−20 14.6	2.811	2.060	15.4	21.4	34 E	13*	26*
11 22	17 52.72	−21 20.7	2.907	2.095	13.1	21.4	29 E	11*	21*
12 2	18 15.49	−22 10.8	2.995	2.131	10.8	21.4	24 E	9*	16*
12 12	18 38.12	−22 45.8	3.074	2.166	8.5	21.4	19 E	6*	11*
12 22	19 0.53	−23 6.7	3.144	2.202	6.1	21.4	14 E	3*	6*
1 1	19 22.64	−23 14.8	3.203	2.236	3.8	21.3	9 E	—	2*
1 11	19 44.35	−23 11.4	3.251	2.271	1.7	21.3	4 E	—	—
1 21	20 5.60	−22 57.9	3.287	2.305	1.4	21.3	3 W	—	—

141808 2002 NV_{38}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 30.12	+ 6 4.1	2.266	2.867	17.6	21.1	118 W	51	58
1 6	10 27.80	+ 5 58.0	2.160	2.882	15.4	20.9	129 W	51	58
1 16	10 22.95	+ 6 6.8	2.070	2.896	12.5	20.7	140 W	51	58
1 26	10 15.76	+ 6 30.0	2.001	2.909	9.1	20.5	152 W	51	58
2 5	10 6.75	+ 7 5.4	1.959	2.921	5.2	20.3	164 W	52	57
2 15	9 56.69	+ 7 49.3	1.946	2.932	1.7	20.1	175 W	53	56
2 20	9 51.57	+ 8 12.8	1.951	2.937	2.0	20.1	174 E	53	56
2 25	9 46.58	+ 8 36.5	1.964	2.941	3.8	20.3	169 E	54	55
3 2	9 41.82	+ 8 59.8	1.985	2.946	5.7	20.4	163 E	54	55
3 7	9 37.42	+ 9 22.0	2.012	2.950	7.6	20.5	157 E	54	55
3 12	9 33.45	+ 9 42.7	2.047	2.954	9.4	20.6	151 E	55	54
3 17	9 30.00	+10 1.4	2.087	2.958	11.1	20.7	145 E	55	54
3 22	9 27.14	+10 17.9	2.134	2.961	12.7	20.9	139 E	55	54
3 27	9 24.88	+10 31.9	2.185	2.965	14.1	21.0	134 E	56	53
4 1	9 23.25	+10 43.3	2.241	2.968	15.3	21.1	128 E	56	53
4 6	9 22.24	+10 52.0	2.301	2.970	16.4	21.2	123 E	56	53
4 11	9 21.85	+10 58.1	2.364	2.973	17.3	21.2	118 E	56	53
4 16	9 22.06	+11 1.4	2.430	2.975	18.0	21.3	113 E	56	53
4 21	9 22.84	+11 2.0	2.498	2.977	18.6	21.4	109 E	56	53
4 26	9 24.17	+11 0.1	2.568	2.979	19.1	21.5	104 E	56*	53

111253 2001 XU_{10}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 31.22	− 2 8.5	1.942	2.516	20.8	19.7	115 W	43	66
1 6	10 24.55	− 4 7.0	1.812	2.509	18.7	19.4	125 W	41	68
1 16	10 14.17	− 5 57.5	1.699	2.500	15.9	19.2	136 W	39	70
1 26	10 0.17	− 7 33.9	1.611	2.489	12.8	19.0	146 W	37	72
1 31	9 52.00	− 8 14.9	1.577	2.483	11.2	18.9	151 W	37	72
2 5	9 43.23	− 8 50.0	1.551	2.476	10.0	18.8	154 W	36	73
2 10	9 34.05	− 9 18.6	1.533	2.469	9.3	18.7	156 E	36	73
2 15	9 24.69	− 9 40.3	1.524	2.461	9.2	18.7	156 E	35	74
2 25	9 6.35	−10 3.4	1.529	2.444	11.2	18.8	151 E	35	74
3 7	8 49.99	−10 3.0	1.565	2.424	14.6	18.9	142 E	35	74
3 17	8 36.88	− 9 46.2	1.625	2.403	18.1	19.1	131 E	35	74
3 22	8 31.77	− 9 34.4	1.663	2.391	19.6	19.2	126 E	35	74
3 27	8 27.67	− 9 21.7	1.705	2.379	21.0	19.3	121 E	36	73

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		111253 2001 XU_{10}				*(continuation)*			
	h m	° ′			°	m	°	°	°
4 1	8 24.55	− 9 9.0	1.749	2.367	22.3	19.4	116 E	36	73
4 6	8 22.38	− 8 56.9	1.796	2.354	23.3	19.4	111 E	36	73
4 16	8 20.72	− 8 36.9	1.894	2.326	24.9	19.6	102 E	36*	73
4 26	8 22.26	− 8 25.7	1.994	2.296	25.9	19.7	94 E	33*	72
5 6	8 26.53	− 8 25.3	2.091	2.264	26.4	19.8	86 E	29*	72*
5 16	8 33.11	− 8 36.8	2.182	2.230	26.5	19.8	79 E	23*	69*
5 26	8 41.65	− 9 1.2	2.265	2.193	26.2	19.9	73 E	17*	65*
6 5	8 51.86	− 9 38.7	2.338	2.155	25.7	19.9	67 E	10*	61*
6 15	9 3.55	−10 29.6	2.400	2.114	25.0	19.9	62 E	4*	56*
6 25	9 16.56	−11 33.9	2.449	2.071	24.2	19.9	57 E	—	50*
7 5	9 30.77	−12 51.7	2.486	2.026	23.3	19.8	52 E	—	44*
7 15	9 46.17	−14 22.9	2.510	1.978	22.4	19.8	48 E	—	39*
7 25	10 2.73	−16 7.4	2.521	1.929	21.6	19.7	44 E	—	33*
8 4	10 20.52	−18 4.9	2.520	1.877	20.8	19.6	41 E	—	28*
8 14	10 39.65	−20 15.1	2.508	1.823	20.1	19.5	38 E	—	23*
8 24	11 0.28	−22 36.9	2.485	1.768	19.6	19.4	36 E	—	19*
9 3	11 22.65	−25 9.1	2.452	1.710	19.2	19.3	34 E	—	16*
9 13	11 47.09	−27 49.5	2.413	1.651	19.0	19.2	32 E	—	13*
9 23	12 13.98	−30 34.9	2.367	1.590	18.9	19.0	31 E	—	10*
9 28	12 28.49	−31 57.9	2.342	1.559	18.8	19.0	30 E	—	10*
10 3	12 43.80	−33 20.1	2.317	1.528	18.8	18.9	30 E	—	9*
10 8	12 59.97	−34 40.6	2.291	1.496	18.9	18.8	29 E	—	8*
10 13	13 17.07	−35 58.2	2.264	1.465	18.9	18.8	28 E	—	8*
10 18	13 35.14	−37 11.6	2.238	1.433	18.9	18.7	28 E	—	8*
10 23	13 54.23	−38 19.2	2.212	1.401	18.8	18.6	27 E	—	8*
10 28	14 14.37	−39 19.5	2.187	1.370	18.8	18.5	26 E	—	8*
11 2	14 35.55	−40 10.5	2.163	1.338	18.7	18.5	26 E	—	8*
11 7	14 57.71	−40 50.5	2.139	1.307	18.5	18.4	25 E	—	8*
11 12	15 20.77	−41 17.4	2.117	1.275	18.3	18.3	24 E	—	8*
11 17	15 44.56	−41 29.6	2.096	1.245	18.0	18.2	23 E	—	8*
11 22	16 8.91	−41 25.3	2.076	1.215	17.5	18.1	22 E	—	8*
11 27	16 33.57	−41 3.4	2.058	1.186	17.0	18.0	21 E	—	8*
12 2	16 58.31	−40 22.9	2.042	1.158	16.3	17.9	19 E	—	8*
12 7	17 22.86	−39 23.7	2.027	1.131	15.5	17.9	18 E	—	8*
12 12	17 46.98	−38 5.7	2.014	1.106	14.6	17.8	16 E	—	7*
12 17	18 10.48	−36 29.6	2.003	1.082	13.5	17.7	15 E	—	7*
12 22	18 33.22	−34 36.4	1.993	1.060	12.3	17.6	13 E	—	6*
12 27	18 55.11	−32 27.4	1.985	1.041	11.0	17.5	12 E	—	5*
1 1	19 16.11	−30 4.0	1.978	1.024	9.6	17.4	10 E	—	4*
1 6	19 36.22	−27 27.9	1.972	1.009	8.1	17.3	8 E	—	2*
1 11	19 55.49	−24 40.6	1.967	0.998	6.7	17.2	7 E	—	1*
1 16	20 13.96	−21 43.7	1.964	0.990	5.6	17.1	6 E	—	—
1 21	20 31.74	−18 38.9	1.961	0.984	5.0	17.1	5 E	—	—
		155725 2000 RO_8							
12 27	10 31.71	−15 38.0	0.997	1.602	35.7	19.4	108 W	29	80
1 1	10 33.82	−15 52.6	0.975	1.623	34.2	19.3	112 W	29	80
1 6	10 34.89	−15 56.9	0.953	1.645	32.4	19.2	116 W	29	80
1 11	10 34.88	−15 49.8	0.932	1.667	30.4	19.2	121 W	29	80
1 16	10 33.80	−15 30.1	0.912	1.689	28.1	19.1	126 W	29	80
1 21	10 31.70	−14 56.9	0.895	1.711	25.7	19.0	131 W	30	79
1 26	10 28.65	−14 9.6	0.881	1.733	23.0	18.9	137 W	31	78
2 5	10 20.24	−11 53.3	0.865	1.778	17.2	18.7	148 W	33	76
2 15	10 10.01	− 8 47.9	0.869	1.823	11.7	18.6	158 W	36	73
2 25	9 59.88	− 5 12.0	0.896	1.867	8.7	18.6	163 E	40	69
3 2	9 55.42	− 3 20.7	0.920	1.889	9.1	18.7	162 E	42	67
3 7	9 51.59	− 1 31.3	0.950	1.910	10.6	18.9	159 E	43	66
3 12	9 48.51	+ 0 13.6	0.986	1.932	12.6	19.0	155 E	45	64
3 17	9 46.28	+ 1 51.7	1.028	1.954	14.8	19.2	150 E	47	62
3 22	9 44.92	+ 3 21.6	1.075	1.975	16.9	19.4	145 E	48	61
3 27	9 44.45	+ 4 42.4	1.127	1.996	18.8	19.6	140 E	50	59
4 6	9 45.99	+ 6 55.7	1.245	2.037	22.1	20.0	130 E	52	57
4 16	9 50.50	+ 8 32.5	1.376	2.078	24.5	20.3	121 E	54	55
4 26	9 57.51	+ 9 36.6	1.518	2.117	26.1	20.6	112 E	55	54
5 6	10 6.49	+10 12.8	1.668	2.156	26.9	20.9	105 E	55*	54
5 16	10 17.02	+10 25.6	1.822	2.193	27.2	21.1	97 E	52*	54
5 26	10 28.75	+10 19.0	1.978	2.229	27.0	21.3	90 E	48*	54
		400684 2009 QN_4							
12 27	10 32.63	+ 4 56.7	1.798	2.414	21.2	20.6	117 W	50	59
1 6	10 31.54	+ 5 49.1	1.738	2.470	18.3	20.5	128 W	51	58
1 16	10 27.57	+ 7 3.3	1.693	2.525	14.6	20.4	140 W	52	57
1 26	10 21.07	+ 8 36.1	1.670	2.580	10.3	20.2	152 W	54	55
1 31	10 17.06	+ 9 27.6	1.667	2.608	8.0	20.2	158 W	54	55
2 5	10 12.71	+10 20.9	1.671	2.635	5.7	20.1	165 W	55	54
2 10	10 8.12	+11 15.2	1.683	2.662	3.3	20.0	171 W	56	53
2 15	10 3.44	+12 9.0	1.702	2.689	0.9	19.8	178 W	57	52
2 20	9 58.81	+13 1.3	1.729	2.716	1.5	20.0	176 E	58	51

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		400684 2009 QN_4				*(continuation)*			
	h m	° ′			°	m	°	°	°
2 25	9 54.38	+13 50.9	1.763	2.743	3.7	20.2	170 E	59	50
3 2	9 50.27	+14 37.1	1.805	2.769	5.9	20.4	163 E	60	49
3 7	9 46.56	+15 19.3	1.854	2.795	7.9	20.5	157 E	60	49
3 12	9 43.35	+15 57.0	1.909	2.821	9.7	20.7	151 E	61	48
3 17	9 40.69	+16 29.9	1.970	2.847	11.4	20.8	146 E	61	48
3 22	9 38.63	+16 58.0	2.038	2.873	12.9	21.0	140 E	62	47
3 27	9 37.18	+17 21.4	2.110	2.899	14.2	21.1	135 E	62	47
4 1	9 36.34	+17 40.2	2.186	2.924	15.3	21.3	129 E	63	46
4 6	9 36.10	+17 54.6	2.267	2.949	16.3	21.4	124 E	63	46
		177287 2003 WF_{166}							
12 27	10 33.07	+10 58.8	2.024	2.651	18.8	21.2	120 W	56	53
1 6	10 30.86	+11 3.4	1.926	2.670	16.3	21.0	130 W	56	53
1 16	10 25.79	+11 22.5	1.846	2.688	13.1	20.8	142 W	56	53
1 26	10 18.09	+11 54.1	1.786	2.705	9.2	20.6	154 W	57	52
2 5	10 8.33	+12 34.3	1.753	2.721	4.9	20.4	166 W	58	51
2 10	10 2.95	+12 56.0	1.747	2.729	2.6	20.3	173 W	58	51
2 15	9 57.42	+13 17.6	1.749	2.736	0.4	20.1	179 W	58	51
2 20	9 51.89	+13 38.6	1.758	2.744	2.1	20.3	174 E	59	50
2 25	9 46.53	+13 58.2	1.775	2.750	4.4	20.4	168 E	59	50
3 2	9 41.45	+14 15.8	1.799	2.757	6.5	20.6	162 E	59	50
3 7	9 36.80	+14 31.0	1.830	2.764	8.6	20.7	155 E	60	49
3 12	9 32.65	+14 43.6	1.868	2.770	10.5	20.8	149 E	60	49
3 17	9 29.11	+14 53.3	1.912	2.776	12.3	21.0	144 E	60	49
3 22	9 26.22	+15 0.1	1.961	2.781	13.9	21.1	138 E	60	49
3 27	9 24.01	+15 3.8	2.015	2.787	15.3	21.2	132 E	60	49
4 1	9 22.49	+15 4.6	2.073	2.792	16.6	21.3	127 E	60	49
4 6	9 21.64	+15 2.7	2.135	2.797	17.7	21.4	122 E	60	49
		14461 1993 FL_{54}							
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
1 21	10 19.85	+39 58.9	1.825	2.698	11.7	18.5	146 W	85	24
1 26	10 14.40	+40 32.7	1.790	2.684	10.8	18.4	149 W	86	23
1 31	10 8.18	+41 2.2	1.763	2.670	10.1	18.3	152 W	86	23
2 5	10 1.30	+41 25.8	1.741	2.656	9.8	18.3	153 W	86	23
2 10	9 53.95	+41 42.4	1.727	2.641	10.0	18.2	152 W	87	22
2 15	9 46.35	+41 50.7	1.719	2.626	10.5	18.2	151 E	87	22
2 20	9 38.74	+41 50.2	1.718	2.611	11.5	18.3	148 E	87	22
2 25	9 31.35	+41 40.7	1.723	2.596	12.7	18.3	145 E	87	22
3 2	9 24.42	+41 22.3	1.734	2.580	14.0	18.4	141 E	86	23
3 7	9 18.12	+40 55.7	1.751	2.564	15.4	18.4	137 E	86	23
3 12	9 12.61	+40 21.7	1.774	2.548	16.8	18.5	132 E	85	24
3 17	9 8.00	+39 41.1	1.800	2.532	18.2	18.5	128 E	85	24
3 22	9 4.35	+38 55.0	1.831	2.516	19.4	18.6	123 E	84	25
3 27	9 1.68	+38 4.4	1.866	2.499	20.6	18.7	118 E	83	26
4 1	8 59.98	+37 10.2	1.903	2.482	21.6	18.7	114 E	82	27
4 6	8 59.21	+36 13.2	1.943	2.465	22.5	18.8	110 E	81	28
4 11	8 59.33	+35 13.9	1.984	2.448	23.3	18.8	105 E	80	29
4 16	9 0.28	+34 12.9	2.028	2.431	23.9	18.9	101 E	79	30
4 21	9 2.00	+33 10.5	2.072	2.413	24.4	18.9	97 E	78*	31
4 26	9 4.43	+32 7.0	2.117	2.396	24.8	19.0	93 E	75*	32
5 6	9 11.13	+29 57.4	2.206	2.360	25.2	19.0	86 E	67*	34
5 16	9 19.93	+27 44.7	2.294	2.323	25.3	19.1	79 E	59*	36*
5 26	9 30.44	+25 28.8	2.378	2.286	25.0	19.1	72 E	50*	38*
6 5	9 42.33	+23 9.5	2.457	2.248	24.4	19.1	66 E	42*	39*
6 15	9 55.36	+20 46.4	2.530	2.210	23.5	19.1	60 E	35*	39*
6 25	10 9.32	+18 18.9	2.594	2.171	22.5	19.1	55 E	28*	39*
7 5	10 24.06	+15 46.6	2.651	2.133	21.2	19.1	49 E	23*	37*
7 15	10 39.50	+13 9.3	2.699	2.094	19.8	19.1	44 E	18*	34*
7 25	10 55.56	+10 26.8	2.738	2.055	18.2	19.0	39 E	13*	31*
8 4	11 12.21	+ 7 39.1	2.768	2.016	16.6	18.9	35 E	10*	28*
8 14	11 29.44	+ 4 46.0	2.789	1.977	14.8	18.8	30 E	7*	24*
8 24	11 47.28	+ 1 47.9	2.801	1.939	13.0	18.7	26 E	4*	19*
9 3	12 5.78	− 1 14.9	2.805	1.901	11.2	18.6	21 E	1*	15*
9 13	12 24.99	− 4 21.9	2.800	1.864	9.3	18.5	17 E	—	11*
9 23	12 45.02	− 7 32.4	2.788	1.828	7.4	18.4	14 E	—	7*
10 3	13 5.98	−10 45.2	2.770	1.794	5.7	18.2	10 E	—	4*
10 13	13 28.01	−13 59.2	2.745	1.760	4.2	18.1	7 E	—	—
10 23	13 51.26	−17 12.5	2.715	1.729	3.4	18.0	6 E	—	—
11 2	14 15.92	−20 22.8	2.682	1.699	3.8	17.9	6 W	—	—
11 12	14 42.18	−23 27.2	2.645	1.672	5.0	17.9	8 W	—	2*
11 22	15 10.19	−26 22.4	2.606	1.647	6.6	18.0	11 W	—	5*
12 2	15 40.12	−29 4.0	2.566	1.625	8.3	18.0	14 W	—	8*
12 7	15 55.83	−30 18.3	2.546	1.616	9.2	18.0	15 W	—	9*
12 12	16 12.03	−31 27.4	2.526	1.607	10.0	18.0	16 W	—	10*
12 17	16 28.71	−32 30.7	2.507	1.599	10.8	18.0	18 W	—	12*

14461 1993 *FL*$_{54}$ *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 22	16 45.85	−33 27.5	2.488	1.591	11.7	18.0	19 W	—	13*
12 27	17 3.43	−34 17.2	2.469	1.585	12.5	18.0	20 W	—	14*
1 1	17 21.40	−34 59.3	2.451	1.580	13.3	18.0	22 W	—	16*
1 6	17 39.70	−35 33.2	2.434	1.575	14.1	18.0	23 W	—	17*
1 11	17 58.25	−35 58.6	2.417	1.572	14.8	18.0	24 W	—	18*
1 16	18 16.97	−36 15.1	2.401	1.569	15.6	18.0	25 W	—	19*
1 21	18 35.79	−36 22.5	2.385	1.567	16.3	18.0	27 W	—	20*

136635 1994 *VA*$_{1}$

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 33.63	− 6 37.9	0.700	1.404	40.5	20.6	112 W	38	71
1 1	10 41.18	− 8 29.5	0.662	1.394	40.0	20.4	114 W	37	72
1 6	10 48.24	−10 21.2	0.627	1.384	39.4	20.3	117 W	35	74
1 11	10 54.73	−12 12.0	0.593	1.374	38.6	20.1	119 W	33	76
1 16	11 0.60	−14 0.8	0.561	1.365	37.8	19.9	122 W	31	78
1 21	11 5.79	−15 46.4	0.530	1.356	36.8	19.8	124 W	29	80
1 26	11 10.25	−17 27.2	0.502	1.348	35.6	19.6	127 W	28	81
1 31	11 13.90	−19 1.9	0.475	1.340	34.3	19.4	130 W	26	83
2 5	11 16.69	−20 28.5	0.450	1.333	32.9	19.3	133 W	25	84
2 10	11 18.54	−21 44.7	0.427	1.326	31.3	19.1	136 W	23	86
2 15	11 19.45	−22 47.9	0.406	1.320	29.6	18.9	139 W	22	87
2 20	11 19.46	−23 35.8	0.387	1.315	27.7	18.8	142 W	21	88
2 25	11 18.66	−24 6.0	0.371	1.311	25.8	18.6	145 W	21	88
3 2	11 17.21	−24 16.6	0.357	1.307	23.9	18.5	148 W	21	88
3 7	11 15.28	−24 6.1	0.345	1.303	22.0	18.3	150 W	21	88
3 12	11 13.15	−23 33.4	0.335	1.301	20.5	18.2	153 E	21	88
3 17	11 11.13	−22 39.1	0.329	1.299	19.3	18.1	154 E	22	87
3 22	11 9.58	−21 25.4	0.325	1.298	18.8	18.1	155 E	24	85
3 27	11 8.78	−19 55.8	0.324	1.298	19.1	18.1	155 E	25	84
4 1	11 8.96	−18 14.4	0.326	1.299	20.0	18.1	154 E	27	82
4 6	11 10.25	−16 25.8	0.330	1.300	21.6	18.2	151 E	29	80
4 11	11 12.73	−14 34.9	0.337	1.302	23.5	18.3	149 E	30	79
4 16	11 16.46	−12 46.3	0.347	1.305	25.7	18.5	146 E	32	77
4 21	11 21.38	−11 4.0	0.360	1.309	27.9	18.6	142 E	34	75
4 26	11 27.42	− 9 31.1	0.375	1.313	30.1	18.8	139 E	35	74
5 1	11 34.42	− 8 9.2	0.393	1.318	32.1	18.9	136 E	37	72
5 6	11 42.26	− 6 59.4	0.412	1.324	34.0	19.1	133 E	38	71
5 16	12 0.03	− 5 17.5	0.458	1.337	37.2	19.4	127 E	40	69
5 26	12 19.90	− 4 23.6	0.511	1.353	39.6	19.8	122 E	41*	68
6 5	12 41.09	− 4 10.5	0.571	1.370	41.4	20.1	117 E	40*	68
6 10	12 52.03	− 4 16.7	0.603	1.380	42.0	20.2	115 E	40*	68
6 15	13 3.15	− 4 30.2	0.637	1.390	42.5	20.4	112 E	39*	69
6 20	13 14.40	− 4 49.9	0.672	1.400	42.9	20.5	110 E	38*	69
6 25	13 25.77	− 5 14.9	0.709	1.411	43.1	20.7	108 E	37*	69
6 30	13 37.21	− 5 44.2	0.747	1.422	43.3	20.8	106 E	36*	70
7 5	13 48.72	− 6 17.0	0.786	1.433	43.4	20.9	105 E	35*	70
7 10	14 0.30	− 6 52.7	0.827	1.444	43.4	21.1	103 E	34*	71
7 15	14 11.94	− 7 30.7	0.868	1.456	43.3	21.2	101 E	33*	72
7 20	14 23.65	− 8 10.2	0.911	1.468	43.1	21.3	99 E	32*	72
7 25	14 35.40	− 8 50.7	0.955	1.480	42.9	21.4	97 E	31*	73

426255 2012 *QU*$_{2}$

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 33.80	+44 19.5	2.215	2.898	16.1	21.3	125 W	89	20
1 1	10 32.02	+45 8.4	2.184	2.909	15.1	21.3	129 W	90	19
1 6	10 29.29	+45 57.5	2.156	2.919	14.2	21.2	133 W	89	18
1 11	10 25.59	+46 45.6	2.134	2.929	13.3	21.2	137 W	88	17
1 16	10 20.94	+47 31.2	2.117	2.939	12.5	21.1	140 W	87	16
1 21	10 15.41	+48 12.9	2.106	2.948	11.7	21.1	142 W	87	16
1 26	10 9.12	+48 49.2	2.102	2.957	11.2	21.1	144 W	86	15
1 31	10 2.21	+49 18.9	2.103	2.967	10.9	21.1	145 W	86	15
2 5	9 54.87	+49 41.0	2.111	2.975	10.9	21.1	145 W	85	14
2 10	9 47.30	+49 54.6	2.125	2.984	11.1	21.1	144 W	85	14
2 15	9 39.74	+49 59.3	2.146	2.992	11.5	21.1	143 E	85	14
2 20	9 32.41	+49 55.1	2.173	3.000	12.2	21.2	140 E	85	14
2 25	9 25.54	+49 42.5	2.206	3.008	12.9	21.3	137 E	85	14
3 2	9 19.28	+49 22.0	2.244	3.015	13.7	21.3	134 E	86	15
3 7	9 13.77	+48 54.5	2.288	3.023	14.6	21.4	130 E	86	15
3 12	9 9.09	+48 20.9	2.336	3.030	15.4	21.5	126 E	87	16

50143 2000 *AB*$_{132}$

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 34.92	+16 59.6	2.112	2.752	17.8	20.4	121 W	62	47
1 6	10 33.30	+17 44.8	2.016	2.769	15.4	20.2	132 W	63	46
1 16	10 28.87	+18 43.8	1.936	2.785	12.3	20.0	143 W	64	45
1 26	10 21.82	+19 52.0	1.880	2.800	8.7	19.8	154 W	65	44
1 31	10 17.46	+20 27.6	1.861	2.807	6.9	19.7	160 W	65	44
2 5	10 12.67	+21 2.9	1.849	2.814	5.1	19.6	165 W	66	43
2 10	10 7.56	+21 37.0	1.845	2.821	3.7	19.5	169 W	67	42
2 15	10 2.27	+22 8.8	1.848	2.827	3.3	19.5	170 W	67	42
2 20	9 56.95	+22 37.6	1.859	2.833	4.2	19.6	168 E	68	41
2 25	9 51.74	+23 2.6	1.878	2.839	5.8	19.7	163 E	68	41
3 2	9 46.80	+23 23.4	1.903	2.845	7.6	19.8	158 E	68	41
3 7	9 42.23	+23 39.7	1.935	2.850	9.4	19.9	152 E	69	40

50143 2000 *AB*$_{132}$ *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 17	9 34.63	+23 58.6	2.018	2.861	12.7	20.2	141 E	69	40
3 27	9 29.53	+24 0.1	2.123	2.870	15.4	20.4	130 E	69	40
4 6	9 27.12	+23 46.6	2.243	2.878	17.5	20.6	120 E	69	40
4 16	9 27.33	+23 20.5	2.375	2.886	19.0	20.7	111 E	68	41
4 26	9 29.94	+22 43.9	2.514	2.892	19.9	20.9	102 E	68*	41
5 6	9 34.63	+21 58.8	2.657	2.897	20.3	21.0	93 E	64*	42
5 16	9 41.09	+21 6.3	2.800	2.902	20.3	21.2	86 E	57*	43
5 26	9 49.04	+20 7.5	2.941	2.905	19.9	21.3	78 E	50*	44*
6 5	9 58.18	+19 3.0	3.077	2.907	19.3	21.3	71 E	42*	44*
6 15	10 8.31	+17 53.4	3.207	2.909	18.3	21.4	64 E	35*	43*
6 25	10 19.24	+16 39.3	3.328	2.909	17.1	21.4	57 E	29*	41*
7 5	10 30.81	+15 21.1	3.439	2.909	15.8	21.5	51 E	24*	38*
7 15	10 42.92	+13 59.1	3.540	2.907	14.2	21.5	45 E	19*	34*
7 25	10 55.44	+12 34.0	3.629	2.905	12.6	21.5	39 E	15*	30*
8 4	11 8.31	+11 6.1	3.704	2.902	10.9	21.4	33 E	12*	25*
8 14	11 21.47	+ 9 35.8	3.767	2.897	9.0	21.4	27 E	9*	19*
8 24	11 34.87	+ 8 3.8	3.814	2.892	7.1	21.3	21 E	6*	14*
9 3	11 48.47	+ 6 30.6	3.847	2.885	5.2	21.3	15 E	4*	8*
9 13	12 2.23	+ 4 56.5	3.865	2.878	3.4	21.2	10 E	1*	2*
9 23	12 16.13	+ 3 22.3	3.868	2.870	1.9	21.1	5 E	—	—
10 3	12 30.15	+ 1 48.6	3.854	2.861	2.0	21.1	6 W	—	—
10 13	12 44.26	+ 0 15.9	3.825	2.850	3.7	21.1	11 W	5*	—
10 23	12 58.43	− 1 15.1	3.781	2.839	5.6	21.2	16 W	10*	1*
11 2	13 12.62	− 2 43.7	3.721	2.827	7.6	21.3	22 W	15*	5*
11 12	13 26.81	− 4 9.4	3.647	2.814	9.6	21.3	28 W	21*	10*
11 22	13 40.94	− 5 31.2	3.558	2.800	11.5	21.3	34 W	25*	16*
12 2	13 54.95	− 6 48.8	3.456	2.785	13.4	21.3	41 W	29*	21*
12 12	14 8.77	− 8 1.3	3.341	2.769	15.1	21.3	47 W	31*	28*
12 22	14 22.29	− 9 8.2	3.215	2.752	16.8	21.2	54 W	33*	35*
1 1	14 35.42	−10 8.8	3.078	2.734	18.3	21.2	61 W	34*	43*
1 11	14 47.99	−11 2.7	2.934	2.715	19.6	21.1	68 W	34*	51*
1 21	14 59.85	−11 49.5	2.782	2.696	20.6	21.0	75 W	33*	59*

74561 1999 *LE*$_{18}$

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 36.77	+18 55.3	2.131	2.772	17.7	20.4	121 W	64	45
1 6	10 35.57	+19 43.5	2.020	2.773	15.4	20.2	132 W	65	44
1 16	10 31.52	+20 45.3	1.926	2.773	12.4	20.0	143 W	66	43
1 26	10 24.71	+21 56.4	1.855	2.772	9.0	19.8	154 W	67	42
1 31	10 20.39	+22 33.3	1.829	2.772	7.3	19.7	159 W	68	41
2 5	10 15.57	+23 9.8	1.810	2.771	5.7	19.6	164 W	68	41
2 10	10 10.36	+23 44.7	1.798	2.769	4.5	19.5	167 W	69	40
2 15	10 4.90	+24 17.2	1.794	2.768	4.2	19.5	168 W	69	40
2 20	9 59.35	+24 46.1	1.797	2.766	5.0	19.5	166 E	70	39
2 25	9 53.87	+25 10.8	1.807	2.764	6.5	19.6	162 E	70	39
3 2	9 48.60	+25 30.7	1.825	2.762	8.2	19.7	156 E	71	38
3 7	9 43.69	+25 45.6	1.849	2.759	10.0	19.8	151 E	71	38
3 12	9 39.25	+25 55.3	1.880	2.757	11.8	19.9	146 E	71	38
3 17	9 35.40	+26 0.0	1.916	2.754	13.4	20.0	140 E	71	38
3 27	9 29.71	+25 55.2	2.003	2.747	16.3	20.2	129 E	71	38
4 6	9 26.87	+25 33.9	2.106	2.739	18.6	20.4	119 E	71	38
4 16	9 26.87	+24 59.2	2.220	2.731	20.2	20.5	110 E	70	39
4 26	9 29.49	+24 13.4	2.341	2.721	21.3	20.7	101 E	69*	40
5 6	9 34.38	+23 18.7	2.465	2.710	21.8	20.8	93 E	65*	41
5 16	9 41.23	+22 16.3	2.589	2.699	21.9	20.9	85 E	58*	42
5 26	9 49.71	+21 7.2	2.710	2.686	21.6	21.0	78 E	51*	43*
6 5	9 59.53	+19 52.0	2.826	2.673	21.0	21.0	71 E	43*	43*
6 15	10 10.46	+18 31.2	2.935	2.658	20.1	21.1	64 E	36*	43*
6 25	10 22.31	+17 5.3	3.037	2.643	19.0	21.1	58 E	30*	41*
7 5	10 34.90	+15 34.5	3.129	2.626	17.7	21.1	52 E	24*	39*
7 15	10 48.12	+13 59.3	3.211	2.609	16.3	21.1	46 E	20*	35*
7 25	11 1.88	+12 19.9	3.282	2.591	14.7	21.1	40 E	16*	31*
8 4	11 16.09	+10 37.0	3.342	2.571	12.9	21.0	35 E	13*	27*
8 14	11 30.72	+ 8 50.7	3.389	2.551	11.1	21.0	29 E	10*	22*
8 24	11 45.71	+ 7 1.7	3.424	2.530	9.2	20.9	24 E	7*	17*
9 3	12 1.04	+ 5 10.5	3.446	2.509	7.3	20.8	18 E	5*	11*
9 13	12 16.72	+ 3 17.5	3.455	2.486	5.3	20.7	13 E	3*	6*
9 23	12 32.72	+ 1 23.5	3.451	2.462	3.4	20.6	8 E	1*	1*
10 3	12 49.06	− 0 31.0	3.434	2.438	1.9	20.4	5 E	—	—
10 13	13 5.74	− 2 25.3	3.404	2.413	2.3	20.4	5 W	—	—
10 23	13 22.77	− 4 18.7	3.362	2.387	4.0	20.5	10 W	4*	—
11 2	13 40.16	− 6 10.4	3.308	2.360	6.1	20.5	15 W	8*	1*
11 12	13 57.93	− 7 59.6	3.242	2.333	8.2	20.6	20 W	13*	5*
11 22	14 16.07	− 9 45.6	3.164	2.305	10.3	20.6	25 W	16*	9*
12 2	14 34.59	−11 27.5	3.077	2.277	12.5	20.6	30 W	20*	14*
12 12	14 53.50	−13 4.5	2.979	2.247	14.6	20.5	35 W	22*	20*
12 22	15 12.76	−14 35.9	2.873	2.218	16.7	20.5	40 W	24*	26*
1 1	15 32.37	−16 1.0	2.760	2.188	18.7	20.5	46 W	24*	32*
1 11	15 52.28	−17 19.0	2.639	2.157	20.7	20.4	51 W	25*	39*
1 21	16 12.44	−18 29.6	2.513	2.127	22.6	20.3	56 W	24*	45*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
385381 2002 RT_{125}									
12 27	10 37.09	+21 26.9	1.249	1.955	25.3	19.9	122 W	66	43
1 6	10 32.49	+20 24.1	1.185	1.987	21.4	19.7	133 W	65	44
1 16	10 23.37	+19 26.7	1.136	2.019	16.5	19.5	144 W	64	45
1 26	10 10.34	+18 30.5	1.108	2.051	10.8	19.3	157 W	64	45
1 31	10 2.77	+18 1.5	1.104	2.067	7.7	19.1	164 W	63	46
2 5	9 54.82	+17 31.3	1.106	2.084	4.6	19.0	170 W	63	46
2 10	9 46.73	+16 59.7	1.115	2.100	1.9	18.9	176 W	62	47
2 15	9 38.79	+16 26.8	1.131	2.117	2.4	19.0	175 E	61	48
2 20	9 31.26	+15 52.7	1.155	2.133	5.2	19.2	169 E	61	48
2 25	9 24.37	+15 17.7	1.186	2.150	8.0	19.4	162 E	60	49
3 7	9 13.10	+14 6.3	1.266	2.183	13.1	19.8	150 E	59	50
3 17	9 5.70	+12 55.1	1.369	2.215	17.3	20.1	139 E	58	51
3 27	9 2.23	+11 45.0	1.490	2.248	20.4	20.4	128 E	57	52
4 6	9 2.30	+10 35.9	1.625	2.280	22.7	20.7	119 E	56	53
4 16	9 5.38	+ 9 27.2	1.769	2.312	24.1	21.0	110 E	54	55
4 26	9 10.95	+ 8 17.5	1.920	2.343	24.9	21.2	102 E	53*	56
5 6	9 18.47	+ 7 6.0	2.074	2.374	25.1	21.4	94 E	48*	57
329556 2002 UA_{12}									
12 27	10 37.52	−18 29.9	2.407	2.830	19.6	21.3	105 W	27	82
1 6	10 35.97	−20 8.2	2.301	2.842	18.5	21.1	114 W	25	84
1 16	10 31.85	−21 30.0	2.204	2.852	17.0	21.0	122 W	23	86
1 26	10 25.26	−22 29.8	2.123	2.862	15.2	20.9	130 W	23	86
2 5	10 16.58	−23 2.3	2.060	2.871	13.3	20.7	138 W	22	87
2 15	10 6.46	−23 3.8	2.020	2.878	11.6	20.6	144 W	22	87
2 25	9 55.92	−22 33.5	2.004	2.885	10.8	20.6	147 E	22	87
3 7	9 46.01	−21 35.2	2.014	2.891	11.0	20.6	146 E	23	86
3 17	9 37.67	−20 15.3	2.048	2.895	12.3	20.7	142 E	25	84
3 27	9 31.61	−18 43.1	2.106	2.899	14.1	20.8	135 E	26	83
4 6	9 28.14	−17 7.6	2.184	2.902	15.9	21.0	127 E	28	81
4 16	9 27.32	−15 36.0	2.278	2.904	17.5	21.1	119 E	29	80
4 26	9 29.02	−14 13.9	2.385	2.904	18.8	21.3	111 E	31*	78
5 6	9 32.97	−13 4.7	2.500	2.904	19.8	21.4	103 E	30*	77
331484 1998 UX									
12 27	10 37.71	−17 59.7	2.203	2.641	21.0	21.1	105 W	27	82
1 6	10 36.28	−19 41.3	2.112	2.666	19.7	20.9	114 W	25	84
1 16	10 32.14	−21 4.3	2.032	2.691	18.0	20.8	122 W	24	85
1 26	10 25.43	−22 2.7	1.966	2.714	15.9	20.7	131 W	23	86
2 5	10 16.58	−22 31.4	1.919	2.737	13.8	20.6	139 W	22	87
2 15	10 6.37	−22 27.0	1.893	2.759	12.0	20.5	145 W	23	86
2 25	9 55.87	−21 49.8	1.892	2.779	11.0	20.5	148 E	23	86
3 2	9 50.87	−21 20.2	1.901	2.789	10.9	20.5	148 E	24	85
3 7	9 46.20	−20 44.5	1.916	2.799	11.2	20.5	147 E	24	85
3 12	9 41.98	−20 3.6	1.937	2.809	11.7	20.6	145 E	25	84
3 17	9 38.29	−19 18.9	1.965	2.818	12.5	20.7	142 E	26	83
3 22	9 35.21	−18 31.6	1.998	2.828	13.3	20.7	139 E	26	83
3 27	9 32.77	−17 42.9	2.036	2.836	14.3	20.8	136 E	27	82
4 1	9 31.01	−16 53.9	2.080	2.845	15.2	20.9	132 E	28	81
4 6	9 29.92	−16 5.6	2.128	2.854	16.1	21.0	128 E	29	80
4 11	9 29.49	−15 18.7	2.180	2.862	16.9	21.1	124 E	30	79
4 16	9 29.70	−14 34.1	2.236	2.870	17.7	21.2	120 E	30	79
4 21	9 30.54	−13 52.2	2.295	2.878	18.3	21.2	116 E	31	78
4 26	9 31.95	−13 13.5	2.357	2.885	18.9	21.3	112 E	32*	77
5 1	9 33.90	−12 38.4	2.421	2.892	19.4	21.4	108 E	32*	77
5 6	9 36.36	−12 6.8	2.486	2.900	19.7	21.5	104 E	31*	76
516155 2016 DP									
12 27	10 38.54	+36 46.2	0.678	1.475	33.4	21.5	124 W	82	27
1 1	10 35.02	+39 5.4	0.653	1.485	30.9	21.4	129 W	84	25
1 6	10 28.93	+41 33.7	0.632	1.493	28.2	21.2	134 W	87	22
1 11	10 19.90	+44 6.5	0.614	1.500	25.7	21.1	139 W	89	20
1 16	10 7.62	+46 36.8	0.601	1.505	23.6	21.0	142 W	88	17
1 21	9 52.04	+48 55.6	0.593	1.508	22.1	20.9	145 W	86	15
1 26	9 33.44	+50 53.8	0.591	1.510	21.5	20.9	146 W	84	13
1 31	9 12.62	+52 23.1	0.594	1.510	22.0	20.9	145 W	83	12
2 5	8 50.78	+53 18.6	0.603	1.509	23.5	21.0	142 E	82	11
2 10	8 29.44	+53 39.3	0.617	1.506	25.6	21.1	139 E	81	10
2 15	8 9.99	+53 28.2	0.635	1.502	28.0	21.2	134 E	82	11
2 20	7 53.44	+52 51.7	0.657	1.496	30.6	21.4	130 E	82	11
2 25	7 40.24	+51 56.8	0.682	1.489	33.1	21.5	125 E	83	12
3 2	7 30.39	+50 49.8	0.710	1.480	35.5	21.7	120 E	84	13
443952 2003 BJ_{73}									
12 27	10 39.29	+17 42.1	0.858	1.599	32.1	18.7	120 W	63	46
1 6	10 47.01	+15 53.4	0.799	1.604	28.9	18.5	128 W	61	48
1 16	10 50.09	+14 12.5	0.750	1.615	24.6	18.3	137 W	59	50
1 26	10 48.37	+12 40.3	0.713	1.630	19.2	18.0	147 W	58	51
2 5	10 42.35	+11 16.7	0.693	1.649	12.9	17.7	158 W	56	53
2 15	10 33.25	+10 1.2	0.691	1.672	5.9	17.5	170 W	55	54

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
443952 2003 BJ_{73} *(continuation)*									
	h m	° ′			°	m	°	°	°
2 20	10 28.18	+ 9 26.1	0.697	1.685	2.4	17.3	176 W	54	55
2 25	10 23.14	+ 8 52.3	0.709	1.699	1.3	17.3	178 E	54	55
3 2	10 18.40	+ 8 19.8	0.727	1.713	4.7	17.6	172 E	53	56
3 7	10 14.19	+ 7 48.4	0.749	1.729	8.0	17.8	166 E	53	56
3 17	10 8.01	+ 6 48.2	0.810	1.762	13.9	18.3	155 E	52	57
3 27	10 5.49	+ 5 49.4	0.889	1.798	18.7	18.7	145 E	51	58
4 6	10 6.65	+ 4 50.0	0.983	1.836	22.5	19.1	135 E	50	59
4 16	10 11.12	+ 3 48.4	1.091	1.876	25.3	19.4	127 E	49	60
4 26	10 18.38	+ 2 43.0	1.210	1.917	27.2	19.7	119 E	48	61
5 6	10 27.82	+ 1 33.1	1.339	1.961	28.4	20.0	112 E	46*	62
5 16	10 38.98	+ 0 18.5	1.475	2.005	29.0	20.3	106 E	44*	64
5 26	10 51.44	− 1 0.9	1.618	2.050	29.1	20.6	100 E	40*	65
6 5	11 4.87	− 2 24.6	1.765	2.096	28.9	20.8	94 E	35*	66
6 15	11 19.06	− 3 52.1	1.916	2.142	28.3	21.0	88 E	30*	68
6 25	11 33.81	− 5 22.8	2.070	2.189	27.4	21.2	83 E	25*	69*
7 5	11 48.99	− 6 56.0	2.224	2.236	26.4	21.4	77 E	20*	68*
100935 1998 MA_{42}									
12 27	10 39.83	+ 4 40.4	2.357	2.920	17.7	20.5	116 W	50	59
1 6	10 38.16	+ 4 29.9	2.244	2.933	15.7	20.4	126 W	49	60
1 16	10 34.01	+ 4 34.2	2.147	2.945	13.1	20.2	137 W	50	59
1 26	10 27.51	+ 4 53.4	2.069	2.956	9.9	20.0	149 W	50	59
2 5	10 19.08	+ 5 25.9	2.017	2.966	6.2	19.8	161 W	50	59
2 15	10 9.39	+ 6 8.7	1.993	2.975	2.5	19.5	172 W	51	58
2 20	10 4.36	+ 6 32.5	1.993	2.979	1.7	19.5	175 E	52	57
2 25	9 59.38	+ 6 56.9	2.000	2.983	2.8	19.6	172 E	52	57
3 2	9 54.56	+ 7 21.4	2.015	2.986	4.6	19.7	166 E	52	57
3 7	9 50.01	+ 7 45.3	2.037	2.989	6.5	19.8	160 E	53	56
3 17	9 42.15	+ 8 29.2	2.103	2.995	10.1	20.0	148 E	53	56
3 27	9 36.39	+ 9 5.0	2.193	3.000	13.1	20.3	137 E	54	55
4 6	9 33.03	+ 9 30.6	2.302	3.003	15.6	20.5	126 E	55	54
4 16	9 32.10	+ 9 45.2	2.426	3.006	17.4	20.6	116 E	55	54
4 26	9 33.48	+ 9 48.7	2.559	3.008	18.7	20.8	107 E	55*	54
5 6	9 36.92	+ 9 41.7	2.699	3.008	19.4	20.9	98 E	52*	54
5 16	9 42.17	+ 9 24.6	2.840	3.008	19.6	21.0	90 E	47*	55
5 26	9 48.96	+ 8 58.2	2.980	3.006	19.5	21.1	82 E	41*	55*
6 5	9 57.04	+ 8 23.2	3.116	3.004	19.0	21.2	74 E	34*	54*
6 15	10 6.19	+ 7 40.3	3.247	3.000	18.2	21.3	67 E	28*	53*
6 25	10 16.24	+ 6 50.0	3.369	2.995	17.1	21.3	60 E	22*	49*
7 5	10 27.03	+ 5 53.1	3.481	2.990	15.9	21.3	53 E	16*	45*
7 15	10 38.43	+ 4 50.2	3.582	2.983	14.4	21.4	47 E	12*	40*
7 25	10 50.34	+ 3 41.8	3.671	2.975	12.9	21.3	41 E	8*	34*
8 4	11 2.68	+ 2 28.5	3.747	2.967	11.2	21.3	34 E	4*	28*
8 14	11 15.39	+ 1 10.9	3.809	2.957	9.4	21.3	28 E	2*	22*
8 24	11 28.40	− 0 10.4	3.857	2.946	7.5	21.2	22 E	—	16*
9 3	11 41.67	− 1 34.8	3.889	2.934	5.5	21.1	16 E	—	10*
9 13	11 55.18	− 3 1.8	3.905	2.921	3.6	21.0	10 E	—	4*
9 23	12 8.89	− 4 30.7	3.906	2.907	1.8	20.9	5 E	—	—
10 3	12 22.78	− 6 0.9	3.890	2.893	1.3	20.8	4 W	—	—
10 13	12 36.82	− 7 31.9	3.859	2.877	3.0	20.9	9 W	—	2*
10 23	12 50.98	− 9 2.9	3.811	2.860	5.0	21.0	15 W	6*	6*
11 2	13 5.25	−10 33.3	3.749	2.842	7.1	21.1	21 W	11*	10*
11 12	13 19.57	−12 2.6	3.671	2.823	9.1	21.1	27 W	15*	15*
11 22	13 33.92	−13 30.0	3.578	2.803	11.1	21.1	33 W	19*	20*
12 2	13 48.23	−14 54.9	3.472	2.782	13.0	21.1	39 W	22*	26*
12 12	14 2.44	−16 16.7	3.354	2.760	14.8	21.1	46 W	24*	33*
12 22	14 16.46	−17 34.8	3.224	2.737	16.5	21.0	52 W	25*	40*
1 1	14 30.19	−18 48.7	3.084	2.713	18.1	21.0	59 W	25*	47*
1 11	14 43.49	−19 57.9	2.935	2.688	19.5	20.9	66 W	25*	55*
1 21	14 56.20	−21 2.0	2.780	2.662	20.7	20.8	73 W	24	63*
99297 2001 RU_{14}									
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
1 21	10 54.94	−28 0.9	1.188	1.865	27.8	18.1	118 W	17	88
1 26	10 56.06	−29 15.4	1.132	1.843	27.3	17.9	121 W	16	87
1 31	10 56.45	−30 24.0	1.078	1.821	26.7	17.8	124 W	15	86
2 5	10 56.07	−31 25.3	1.027	1.799	26.1	17.6	127 W	14	85
2 10	10 54.91	−32 17.3	0.979	1.777	25.4	17.5	129 W	13	84
2 15	10 52.99	−32 58.3	0.933	1.756	24.7	17.3	132 W	12	83
2 20	10 50.38	−33 26.4	0.891	1.735	23.9	17.2	135 W	12	83
2 25	10 47.19	−33 39.6	0.852	1.714	23.2	17.0	137 W	11	82
3 2	10 43.58	−33 36.3	0.816	1.694	22.6	16.9	139 E	11	82
3 7	10 39.73	−33 15.1	0.784	1.674	22.0	16.8	141 E	12	83
3 12	10 35.88	−32 34.9	0.755	1.655	21.7	16.6	142 E	12	83
3 17	10 32.31	−31 35.2	0.730	1.636	21.7	16.5	143 E	13	84
3 22	10 29.30	−30 16.8	0.708	1.617	22.0	16.5	143 E	15	86

99297 2001 RU_{14} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 27	10 27.09	−28 41.0	0.691	1.600	22.6	16.4	142 E	16	87
4 1	10 25.89	−26 50.0	0.677	1.583	23.6	16.4	141 E	18	89
4 6	10 25.83	−24 46.2	0.668	1.566	24.8	16.3	139 E	20	89
4 11	10 27.04	−22 32.9	0.661	1.551	26.3	16.3	137 E	22	87
4 16	10 29.56	−20 13.7	0.659	1.536	28.0	16.4	134 E	25	84
4 21	10 33.40	−17 52.1	0.660	1.522	29.8	16.4	131 E	27	82
4 26	10 38.53	−15 31.5	0.665	1.510	31.7	16.5	128 E	29	80
5 1	10 44.85	−13 14.8	0.673	1.498	33.5	16.5	125 E	32	77
5 6	10 52.27	−11 4.3	0.684	1.487	35.2	16.6	122 E	34	75
5 11	11 0.71	− 9 2.2	0.697	1.477	36.8	16.7	119 E	36*	73
5 16	11 10.07	− 7 10.0	0.713	1.469	38.3	16.7	116 E	38*	71
5 21	11 20.24	− 5 28.7	0.732	1.461	39.7	16.8	113 E	39*	69
5 26	11 31.10	− 3 58.9	0.753	1.455	40.8	16.9	110 E	40*	68
6 5	11 54.46	− 1 34.0	0.801	1.447	42.6	17.1	105 E	40*	66
6 15	12 19.46	+ 0 6.1	0.856	1.443	43.8	17.2	101 E	40*	64
6 25	12 45.51	+ 1 5.6	0.917	1.445	44.3	17.4	97 E	39*	63
6 30	12 58.77	+ 1 22.1	0.950	1.448	44.4	17.5	95 E	39*	63
7 5	13 12.13	+ 1 30.8	0.984	1.452	44.4	17.6	93 E	38*	62
7 10	13 25.56	+ 1 32.4	1.019	1.458	44.2	17.7	91 E	38*	62
7 15	13 39.03	+ 1 27.6	1.055	1.464	44.0	17.7	90 E	38*	63
7 20	13 52.52	+ 1 17.4	1.093	1.472	43.6	17.8	88 E	37*	63
7 25	14 6.01	+ 1 2.5	1.131	1.481	43.2	17.9	87 E	37*	63
7 30	14 19.48	+ 0 43.6	1.171	1.491	42.8	18.0	86 E	37*	63*
8 4	14 32.93	+ 0 21.4	1.212	1.502	42.2	18.0	84 E	36*	63*
8 14	14 59.76	− 0 30.4	1.297	1.528	41.0	18.2	82 E	36*	63*
8 24	15 26.45	− 1 27.9	1.387	1.557	39.6	18.3	79 E	36*	63*
9 3	15 52.98	− 2 26.8	1.480	1.589	38.2	18.5	77 E	35*	62*
9 13	16 19.36	− 3 23.6	1.578	1.625	36.6	18.6	74 E	35*	60*
9 23	16 45.56	− 4 14.8	1.680	1.662	34.9	18.8	72 E	35*	58*
10 3	17 11.54	− 4 58.0	1.787	1.702	33.2	18.9	69 E	35*	55*
10 13	17 37.28	− 5 31.3	1.896	1.743	31.5	19.0	66 E	35*	51*
10 23	18 2.71	− 5 53.1	2.009	1.786	29.7	19.2	63 E	35*	48*
11 2	18 27.78	− 6 2.6	2.124	1.829	27.8	19.3	59 E	35*	43*
11 12	18 52.44	− 5 59.3	2.240	1.874	25.9	19.4	56 E	34*	38*
11 22	19 16.62	− 5 43.3	2.358	1.918	24.0	19.5	52 E	34*	33*
12 2	19 40.27	− 5 15.1	2.475	1.963	22.1	19.6	48 E	33*	28*
12 12	20 3.37	− 4 35.2	2.590	2.008	20.1	19.7	44 E	32*	22*
12 22	20 25.88	− 3 44.6	2.702	2.053	18.1	19.8	40 E	31*	17*
1 1	20 47.78	− 2 44.4	2.811	2.098	16.0	19.8	36 E	28*	11*
1 11	21 9.07	− 1 35.8	2.914	2.142	14.0	19.9	32 E	25*	6*
1 21	21 29.75	− 0 20.0	3.011	2.186	12.0	19.9	28 E	21*	2*

105158 2000 *OL*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 40.06	+ 4 37.7	2.742	3.288	15.7	19.1	116 W	50	59
1 6	10 38.39	+ 4 9.0	2.576	3.252	14.2	18.9	126 W	49	60
1 16	10 34.42	+ 3 50.9	2.426	3.214	12.1	18.7	137 W	49	60
1 26	10 28.17	+ 3 44.2	2.296	3.175	9.4	18.4	148 W	49	60
2 5	10 19.85	+ 3 49.0	2.192	3.135	6.2	18.2	160 W	49	60
2 15	10 9.93	+ 4 4.0	2.116	3.095	3.0	17.9	170 W	49	60
2 25	9 59.22	+ 4 26.7	2.072	3.053	3.1	17.8	171 E	49	60
3 7	9 48.66	+ 4 53.5	2.059	3.010	6.5	18.0	160 E	50	59
3 17	9 39.20	+ 5 20.5	2.074	2.965	10.2	18.1	148 E	50	59
3 27	9 31.64	+ 5 43.7	2.115	2.920	13.6	18.2	136 E	51	58
4 6	9 26.46	+ 6 0.4	2.176	2.874	16.5	18.4	125 E	51	58
4 16	9 23.89	+ 6 8.6	2.251	2.827	18.7	18.5	115 E	51	58
4 26	9 23.93	+ 6 7.1	2.335	2.779	20.4	18.6	106 E	51*	58
5 6	9 26.40	+ 5 55.3	2.423	2.729	21.5	18.7	97 E	48*	58
5 16	9 31.10	+ 5 33.2	2.512	2.679	22.2	18.7	88 E	43*	58
5 26	9 37.77	+ 5 0.5	2.598	2.628	22.3	18.7	80 E	36*	59*
6 5	9 46.15	+ 4 17.5	2.678	2.575	22.2	18.8	73 E	29*	58*
6 15	9 56.05	+ 3 24.4	2.751	2.522	21.7	18.8	66 E	23*	55*
6 25	10 7.27	+ 2 21.1	2.815	2.468	20.9	18.7	60 E	17*	51*
7 5	10 19.68	+ 1 8.2	2.868	2.413	19.9	18.7	54 E	12*	47*
7 15	10 33.16	− 0 14.4	2.910	2.357	18.7	18.6	48 E	7*	42*
7 25	10 47.64	− 1 46.2	2.941	2.301	17.4	18.6	43 E	3*	37*
8 4	11 3.05	− 3 26.9	2.961	2.244	16.0	18.5	38 E	—	31*
8 14	11 19.41	− 5 16.2	2.968	2.186	14.5	18.4	33 E	—	26*
8 24	11 36.71	− 7 13.5	2.965	2.128	12.9	18.3	28 E	—	21*
9 3	11 54.99	− 9 18.0	2.951	2.069	11.4	18.1	24 E	—	16*
9 13	12 14.32	−11 29.1	2.927	2.010	9.8	18.0	20 E	—	12*
9 23	12 34.81	−13 45.5	2.895	1.952	8.3	17.8	16 E	—	8*
10 3	12 56.57	−16 5.7	2.854	1.894	7.0	17.7	13 E	—	4*
10 13	13 19.76	−18 28.0	2.806	1.836	5.9	17.5	11 E	—	1*
10 23	13 44.55	−20 49.8	2.753	1.779	5.4	17.4	10 W	—	—
11 2	14 11.12	−23 8.0	2.695	1.724	5.4	17.3	9 W	—	2*
11 12	14 39.66	−25 18.7	2.636	1.670	6.0	17.2	10 W	—	4*
11 17	14 54.70	−26 19.7	2.605	1.644	6.5	17.2	11 W	—	4*
11 22	15 10.28	−27 17.0	2.575	1.619	7.0	17.1	12 W	—	5*
11 27	15 26.40	−28 9.8	2.545	1.595	7.6	17.1	12 W	—	6*

105158 2000 *OL* *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 2	15 43.07	−28 57.4	2.515	1.571	8.2	17.1	13 W	—	7*
12 7	16 0.25	−29 39.0	2.485	1.548	8.8	17.0	14 W	—	8*
12 12	16 17.94	−30 13.8	2.457	1.526	9.5	17.0	15 W	—	9*
12 17	16 36.08	−30 41.0	2.429	1.505	10.1	17.0	16 W	—	10*
12 22	16 54.62	−30 59.9	2.403	1.485	10.8	16.9	16 W	—	10*
12 27	17 13.52	−31 9.9	2.377	1.467	11.4	16.9	17 W	—	11*
1 1	17 32.68	−31 10.4	2.353	1.449	12.0	16.9	18 W	—	12*
1 6	17 52.03	−31 0.9	2.331	1.433	12.6	16.9	19 W	—	13*
1 11	18 11.47	−30 41.2	2.309	1.419	13.2	16.8	19 W	—	13*
1 16	18 30.89	−30 11.3	2.290	1.406	13.8	16.8	20 W	—	14*
1 21	18 50.22	−29 31.0	2.272	1.395	14.4	16.8	21 W	—	15*

175519 2006 SR_{54}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 40.19	+15 40.0	1.886	2.520	19.9	21.5	119 W	61	48
1 6	10 40.77	+16 8.0	1.759	2.503	17.6	21.2	130 W	61	48
1 16	10 38.34	+16 53.0	1.647	2.485	14.6	21.0	140 W	62	47
1 26	10 32.80	+17 52.5	1.555	2.466	10.9	20.7	152 W	63	46
2 5	10 24.41	+19 0.9	1.486	2.446	6.8	20.4	163 W	64	45
2 10	10 19.33	+19 36.0	1.462	2.436	4.8	20.3	168 W	65	44
2 15	10 13.85	+20 10.1	1.445	2.426	3.6	20.2	171 W	65	44
2 20	10 8.12	+20 42.1	1.435	2.415	4.0	20.2	170 E	66	43
2 25	10 2.33	+21 10.7	1.432	2.405	5.7	20.2	166 E	66	43
3 2	9 56.67	+21 35.1	1.436	2.394	7.9	20.3	161 E	67	42
3 7	9 51.31	+21 54.8	1.447	2.383	10.2	20.4	155 E	67	42
3 12	9 46.42	+22 9.1	1.463	2.371	12.5	20.5	149 E	67	42
3 17	9 42.14	+22 18.1	1.486	2.360	14.6	20.6	143 E	67	42
3 22	9 38.59	+22 21.6	1.513	2.348	16.6	20.7	138 E	67	42
3 27	9 35.83	+22 20.0	1.545	2.336	18.4	20.8	132 E	67	42
4 1	9 33.91	+22 13.5	1.581	2.324	20.1	20.9	127 E	67	42
4 6	9 32.82	+22 2.6	1.620	2.312	21.5	21.0	122 E	67	42
4 11	9 32.58	+21 47.4	1.662	2.300	22.8	21.1	117 E	67	42
4 16	9 33.16	+21 28.5	1.706	2.287	23.9	21.2	113 E	66	43
4 21	9 34.52	+21 6.0	1.752	2.275	24.8	21.2	108 E	66	43
4 26	9 36.61	+20 40.2	1.798	2.262	25.6	21.3	104 E	66*	43
5 1	9 39.38	+20 11.5	1.846	2.249	26.2	21.4	100 E	64*	44
5 6	9 42.78	+19 39.9	1.893	2.236	26.7	21.4	96 E	62*	44
5 11	9 46.76	+19 5.6	1.941	2.223	27.0	21.5	92 E	59*	45

101818 1999 JD_{13}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 41.03	+ 0 33.4	1.937	2.500	21.1	21.1	114 W	46	63
1 6	10 42.28	− 0 2.1	1.797	2.476	19.4	20.8	123 W	45	64
1 16	10 40.79	− 0 20.6	1.669	2.452	17.0	20.6	133 W	45	64
1 26	10 36.44	− 0 19.2	1.558	2.426	13.7	20.3	144 W	45	64
2 5	10 29.35	+ 0 4.2	1.468	2.400	9.8	20.0	156 W	45	64
2 15	10 20.02	+ 0 49.2	1.402	2.373	5.6	19.7	166 W	46	63
2 20	10 14.81	+ 1 18.8	1.379	2.360	4.1	19.5	170 W	46	63
2 25	10 9.45	+ 1 52.2	1.363	2.346	3.9	19.5	171 E	47	62
3 2	10 4.11	+ 2 28.4	1.355	2.332	5.3	19.5	167 E	47	62
3 7	9 58.95	+ 3 6.3	1.353	2.317	7.5	19.6	162 E	48	61
3 12	9 54.15	+ 3 44.8	1.357	2.303	9.9	19.7	157 E	49	60
3 17	9 49.85	+ 4 22.8	1.368	2.288	12.3	19.8	151 E	49	60
3 22	9 46.20	+ 4 59.2	1.385	2.274	14.6	19.9	145 E	50	59
3 27	9 43.27	+ 5 33.2	1.406	2.259	16.7	20.0	139 E	51	58
4 6	9 39.83	+ 6 31.5	1.463	2.229	20.6	20.2	129 E	52	57
4 16	9 39.72	+ 7 14.0	1.533	2.198	23.6	20.3	119 E	52	57
4 26	9 42.86	+ 7 39.2	1.611	2.167	25.9	20.5	110 E	53*	56
5 6	9 48.91	+ 7 46.9	1.694	2.135	27.6	20.6	101 E	51*	56
5 16	9 57.52	+ 7 37.7	1.780	2.103	28.7	20.7	94 E	47*	56
5 26	10 8.33	+ 7 12.6	1.864	2.071	29.2	20.8	87 E	42*	57
6 5	10 21.00	+ 6 32.6	1.946	2.039	29.4	20.9	80 E	37*	57*
6 15	10 35.26	+ 5 38.9	2.024	2.007	29.2	20.9	74 E	31*	57*
6 25	10 50.89	+ 4 32.4	2.097	1.975	28.7	20.9	69 E	26*	56*
7 5	11 7.69	+ 3 14.5	2.164	1.943	28.0	21.0	64 E	21*	53*
7 15	11 25.55	+ 1 46.3	2.226	1.912	27.1	21.0	59 E	18*	51*
7 25	11 44.37	+ 0 9.0	2.281	1.881	26.0	20.9	54 E	15*	47*
8 4	12 4.10	− 1 35.8	2.331	1.850	24.8	20.9	50 E	12*	43*
8 14	12 24.72	− 3 26.7	2.374	1.821	23.5	20.9	46 E	10*	40*
8 24	12 46.21	− 5 22.2	2.412	1.793	22.2	20.8	42 E	9*	36*
9 3	13 8.59	− 7 20.1	2.445	1.766	20.7	20.8	38 E	8*	32*
9 13	13 31.90	− 9 18.8	2.472	1.740	19.2	20.7	35 E	7*	29*
9 23	13 56.16	−11 15.7	2.495	1.716	17.6	20.7	31 E	6*	25*
10 3	14 21.41	−13 8.5	2.514	1.694	15.9	20.6	28 E	5*	22*
10 13	14 47.66	−14 54.7	2.530	1.674	14.3	20.5	24 E	5*	18*
10 23	15 14.91	−16 31.4	2.543	1.656	12.6	20.5	21 E	4*	15*
11 2	15 43.12	−17 55.8	2.554	1.641	10.9	20.4	18 E	4*	12*
11 12	16 12.22	−19 5.2	2.562	1.628	9.2	20.3	15 E	3*	8*
11 22	16 42.07	−19 57.0	2.569	1.618	7.5	20.2	12 E	2*	5*
12 2	17 12.51	−20 29.3	2.575	1.611	5.8	20.2	9 E	1*	2*
12 12	17 43.33	−20 40.4	2.581	1.607	4.2	20.1	7 E	—	—
12 22	18 14.27	−20 29.6	2.585	1.606	2.7	20.0	4 E	—	—

101818 1999 JD_{13} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 1	18 45.08	−19 56.7	2.589	1.608	1.9	19.9	3 E	—	—
1 11	19 15.54	−19 2.6	2.593	1.614	2.5	20.0	4 W	—	—
1 21	19 45.41	−17 48.7	2.596	1.622	3.9	20.1	6 W	—	—

57047 2001 LG_1

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 42.14	− 2 27.8	2.522	3.032	17.5	20.2	112 W	43	66
1 6	10 40.77	− 3 1.1	2.399	3.038	15.9	20.1	122 W	42	67
1 16	10 37.06	− 3 19.6	2.290	3.044	13.8	19.9	133 W	42	67
1 26	10 31.11	− 3 21.2	2.199	3.048	11.1	19.7	144 W	42	67
2 5	10 23.25	− 3 5.4	2.132	3.051	8.0	19.5	154 W	42	67
2 15	10 14.07	− 2 32.7	2.092	3.054	5.2	19.4	164 W	42	67
2 25	10 4.41	− 1 46.3	2.082	3.055	4.2	19.3	167 E	43	66
3 2	9 59.69	− 1 19.4	2.089	3.055	5.0	19.3	165 E	44	65
3 7	9 55.19	− 0 50.9	2.102	3.055	6.3	19.4	160 E	44	65
3 12	9 51.00	− 0 21.6	2.123	3.055	7.8	19.5	155 E	45	64
3 17	9 47.23	+ 0 7.8	2.151	3.055	9.3	19.6	150 E	45	64
3 27	9 41.20	+ 1 4.4	2.225	3.053	12.3	19.8	139 E	46	63
4 6	9 37.44	+ 1 54.3	2.321	3.050	14.8	20.0	129 E	47	62
4 16	9 36.04	+ 2 34.7	2.432	3.046	16.8	20.1	119 E	48	61
4 26	9 36.95	+ 3 3.9	2.555	3.042	18.2	20.3	109 E	48*	61
5 6	9 39.95	+ 3 21.3	2.685	3.036	19.1	20.4	101 E	46*	61
5 16	9 44.80	+ 3 27.1	2.818	3.029	19.5	20.5	92 E	42*	61
5 26	9 51.27	+ 3 21.5	2.950	3.021	19.5	20.6	84 E	37*	61*
6 5	9 59.09	+ 3 5.3	3.080	3.012	19.1	20.7	77 E	31*	60*
6 15	10 8.07	+ 2 39.2	3.205	3.003	18.5	20.8	69 E	24*	57*
6 25	10 18.02	+ 2 3.8	3.322	2.992	17.5	20.8	63 E	19*	53*
7 5	10 28.78	+ 1 20.1	3.430	2.980	16.4	20.8	56 E	13*	49*
7 15	10 40.22	+ 0 28.7	3.527	2.967	15.1	20.8	49 E	9*	43*
7 25	10 52.24	− 0 29.6	3.613	2.953	13.6	20.8	43 E	5*	37*
8 4	11 4.75	− 1 34.1	3.686	2.938	12.0	20.8	37 E	2*	31*
8 14	11 17.70	− 2 44.1	3.745	2.922	10.2	20.8	31 E	—	25*
8 24	11 31.02	− 3 58.9	3.790	2.905	8.5	20.7	25 E	—	19*
9 3	11 44.67	− 5 17.8	3.821	2.887	6.6	20.6	19 E	—	12*
9 13	11 58.63	− 6 40.2	3.836	2.869	4.8	20.5	14 E	—	6*
9 23	12 12.86	− 8 5.3	3.836	2.849	3.1	20.4	9 E	—	1*
10 3	12 27.35	− 9 32.3	3.821	2.828	2.1	20.3	6 W	—	—
10 13	12 42.08	−11 0.8	3.790	2.806	2.9	20.3	8 W	—	2*
10 23	12 57.04	−12 29.7	3.744	2.783	4.6	20.4	13 W	2*	6*
11 2	13 12.20	−13 58.5	3.683	2.759	6.5	20.4	18 W	7*	10*
11 12	13 27.55	−15 26.3	3.607	2.734	8.5	20.5	24 W	11*	15*
11 22	13 43.04	−16 52.5	3.517	2.709	10.5	20.5	30 W	15*	20*
12 2	13 58.66	−18 16.2	3.414	2.682	12.5	20.5	36 W	18*	25*
12 12	14 14.35	−19 36.7	3.299	2.654	14.4	20.4	42 W	20*	31*
12 22	14 30.04	−20 53.2	3.173	2.626	16.3	20.4	48 W	21*	38*
1 1	14 45.66	−22 5.2	3.037	2.596	18.0	20.3	55 W	22*	45*
1 11	15 1.10	−23 12.0	2.892	2.566	19.6	20.2	61 W	21*	52*
1 21	15 16.22	−24 12.9	2.740	2.535	21.0	20.1	68 W	21*	59*

134970 2001 EZ_9

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 42.77	+38 53.8	2.834	3.476	13.6	20.4	124 W	84	25
1 6	10 38.74	+39 54.3	2.726	3.466	12.1	20.2	132 W	85	24
1 16	10 31.75	+40 55.8	2.638	3.456	10.4	20.1	141 W	86	23
1 26	10 21.99	+41 50.6	2.575	3.445	8.9	19.9	147 W	87	22
1 31	10 16.23	+42 13.0	2.553	3.439	8.3	19.9	150 W	87	22
2 5	10 10.02	+42 30.7	2.538	3.433	8.0	19.9	151 W	88	21
2 10	10 3.48	+42 43.0	2.530	3.427	8.0	19.9	151 W	88	21
2 15	9 56.78	+42 49.2	2.529	3.420	8.3	19.9	150 W	88	21
2 20	9 50.07	+42 48.8	2.536	3.413	8.9	19.9	148 E	88	21
2 25	9 43.52	+42 41.8	2.549	3.406	9.6	19.9	145 E	88	21
3 2	9 37.28	+42 28.3	2.569	3.399	10.5	20.0	141 E	87	22
3 7	9 31.48	+42 8.6	2.596	3.392	11.5	20.0	137 E	87	22
3 12	9 26.22	+41 43.2	2.628	3.384	12.4	20.1	133 E	87	22
3 17	9 21.60	+41 12.7	2.665	3.376	13.3	20.1	129 E	86	23
3 22	9 17.67	+40 37.8	2.708	3.368	14.2	20.2	124 E	86	23
3 27	9 14.46	+39 59.1	2.754	3.360	15.0	20.3	120 E	85	24
4 6	9 10.22	+38 33.1	2.858	3.343	16.3	20.4	111 E	84	25
4 16	9 8.76	+36 59.1	2.971	3.325	17.2	20.5	102 E	82	27
4 26	9 9.83	+35 20.3	3.091	3.306	17.7	20.6	93 E	78*	29
5 6	9 13.06	+33 39.0	3.212	3.286	17.8	20.6	85 E	70*	30
5 16	9 18.12	+31 56.0	3.332	3.265	17.6	20.7	77 E	61*	32*
5 26	9 24.70	+30 12.2	3.448	3.244	17.1	20.7	70 E	52*	33*
6 5	9 32.51	+28 27.7	3.557	3.221	16.3	20.8	63 E	44*	34*
6 15	9 41.34	+26 42.4	3.657	3.198	15.2	20.8	56 E	36*	33*
6 25	9 50.98	+24 56.1	3.746	3.173	14.0	20.8	49 E	30*	31*
7 5	10 1.28	+23 8.7	3.823	3.148	12.6	20.7	42 E	24*	28*
7 15	10 12.11	+21 20.0	3.887	3.122	11.0	20.7	36 E	18*	24*
7 25	10 23.36	+19 29.9	3.936	3.095	9.4	20.6	30 E	14*	20*
8 4	10 34.94	+17 38.3	3.971	3.068	7.6	20.6	24 E	10*	14*
8 14	10 46.81	+15 45.0	3.989	3.039	5.8	20.5	18 E	7*	9*

134970 2001 EZ_9 *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 24	10 58.88	+13 50.2	3.992	3.010	4.0	20.4	12 E	4*	3*
9 3	11 11.11	+11 53.7	3.978	2.979	2.4	20.2	7 E	1*	—
9 13	11 23.49	+ 9 55.7	3.947	2.948	2.1	20.2	6 W	—	—
9 23	11 35.94	+ 7 56.2	3.900	2.916	3.4	20.2	10 W	4*	—
10 3	11 48.46	+ 5 55.3	3.837	2.884	5.3	20.3	15 W	9*	—
10 13	12 1.01	+ 3 53.1	3.757	2.850	7.3	20.3	21 W	15*	5*
10 23	12 13.55	+ 1 49.6	3.663	2.816	9.3	20.3	27 W	20*	10*
11 2	12 26.04	− 0 15.1	3.554	2.781	11.4	20.3	33 W	25*	15*
11 12	12 38.44	− 2 21.1	3.431	2.745	13.3	20.2	40 W	29*	20*
11 22	12 50.68	− 4 28.3	3.296	2.708	15.3	20.2	46 W	32*	26*
12 2	13 2.71	− 6 37.1	3.150	2.671	17.1	20.1	53 W	34*	33*
12 12	13 14.42	− 8 47.6	2.994	2.633	18.8	20.0	59 W	35*	40*
12 22	13 25.70	−11 0.2	2.831	2.594	20.3	19.9	66 W	34*	48*
1 1	13 36.41	−13 15.8	2.662	2.555	21.6	19.8	73 W	32	57*
1 11	13 46.35	−15 35.1	2.488	2.515	22.7	19.7	80 W	29	66*
1 21	13 55.29	−17 59.1	2.314	2.475	23.4	19.5	88 W	27	75*

86450 2000 CK_{33}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	10 42.96	−25 50.8	0.217	1.044	67.9	17.4	100 W	19	90
12 29	10 34.91	−23 30.5	0.211	1.057	64.0	17.2	105 W	21	88
12 31	10 26.51	−20 58.7	0.206	1.070	59.9	17.1	110 W	24	85
1 2	10 17.73	−18 15.0	0.201	1.083	55.6	16.9	115 W	27	82
1 4	10 8.58	−15 19.3	0.197	1.095	51.1	16.8	120 W	30	79
1 6	9 59.06	−12 12.1	0.194	1.107	46.3	16.6	126 W	33	76
1 8	9 49.22	− 8 54.8	0.191	1.119	41.3	16.5	131 W	36	73
1 10	9 39.09	− 5 29.3	0.190	1.130	36.2	16.3	137 W	40	69
1 12	9 28.75	− 1 58.4	0.190	1.142	31.0	16.2	143 W	43	66
1 14	9 18.28	+ 1 34.4	0.191	1.153	25.7	16.1	149 W	47	62
1 16	9 7.78	+ 5 5.5	0.194	1.163	20.5	16.0	156 W	50	59
1 18	8 57.37	+ 8 31.0	0.198	1.174	15.4	15.9	162 W	54	55
1 20	8 47.15	+11 47.6	0.204	1.184	10.4	15.8	167 W	57	52
1 22	8 37.22	+14 52.5	0.211	1.194	5.7	15.7	173 W	60	49
1 24	8 27.68	+17 43.8	0.219	1.203	1.4	15.5	178 W	63	46
1 26	8 18.61	+20 20.5	0.228	1.213	3.1	15.7	176 E	65	44
1 31	7 58.33	+25 47.6	0.257	1.235	12.2	16.4	165 E	71	38
2 5	7 41.89	+29 50.7	0.291	1.255	19.6	17.0	155 E	75	34
2 10	7 29.36	+32 46.8	0.329	1.274	25.5	17.5	146 E	78	31
2 15	7 20.51	+34 52.8	0.371	1.291	30.2	17.9	139 E	80	29
2 17	7 17.92	+35 32.3	0.389	1.297	31.8	18.1	136 E	81	28
2 19	7 15.83	+36 6.7	0.407	1.303	33.2	18.2	134 E	81	28
2 21	7 14.19	+36 36.7	0.425	1.309	34.5	18.4	131 E	82	27
2 23	7 12.99	+37 2.8	0.443	1.315	35.7	18.5	129 E	82	27
2 25	7 12.19	+37 25.4	0.462	1.320	36.8	18.6	127 E	82	27
3 2	7 11.77	+38 9.2	0.509	1.332	39.2	18.9	122 E	83	26
3 7	7 13.28	+38 38.7	0.557	1.342	41.1	19.2	117 E	84	25
3 12	7 16.41	+38 56.9	0.606	1.351	42.6	19.4	113 E	84	25
3 17	7 20.92	+39 6.3	0.655	1.358	43.8	19.6	109 E	84	25
3 22	7 26.57	+39 8.5	0.703	1.363	44.8	19.8	105 E	84	25
3 27	7 33.17	+39 4.5	0.751	1.367	45.6	20.0	102 E	84	25
4 1	7 40.55	+38 55.2	0.798	1.369	46.2	20.1	99 E	84	25
4 6	7 48.59	+38 41.1	0.844	1.370	46.7	20.3	96 E	83*	25
4 11	7 57.19	+38 22.4	0.889	1.369	47.0	20.4	93 E	81*	26
4 16	8 6.28	+37 59.5	0.932	1.366	47.3	20.5	90 E	79*	26
4 21	8 15.77	+37 32.6	0.973	1.361	47.5	20.6	87 E	76*	26
4 26	8 25.61	+37 1.8	1.013	1.355	47.6	20.7	84 E	73*	27
5 1	8 35.71	+36 27.2	1.050	1.348	47.7	20.8	82 E	70*	28
5 6	8 46.06	+35 48.9	1.086	1.338	47.8	20.8	79 E	67*	28*
5 11	8 56.62	+35 6.8	1.118	1.327	47.9	20.9	77 E	64*	29*
5 16	9 7.36	+34 20.9	1.148	1.314	47.9	20.9	75 E	61*	30*
5 21	9 18.26	+33 31.4	1.175	1.300	47.9	20.9	72 E	58*	30*
5 26	9 29.29	+32 38.1	1.200	1.284	48.0	20.9	70 E	55*	31*
5 31	9 40.43	+31 41.0	1.221	1.266	48.1	21.0	68 E	52*	32*
6 5	9 51.68	+30 40.1	1.238	1.247	48.2	21.0	66 E	49*	32*
6 10	10 3.02	+29 35.2	1.253	1.226	48.3	20.9	64 E	46*	33*
6 15	10 14.46	+28 26.3	1.264	1.203	48.6	20.9	63 E	43*	34*
6 20	10 26.00	+27 13.2	1.271	1.178	48.9	20.9	61 E	41*	34*
6 25	10 37.61	+25 55.8	1.274	1.152	49.2	20.9	59 E	38*	35*
6 30	10 49.31	+24 33.9	1.273	1.124	49.7	20.8	58 E	36*	35*
7 5	11 1.10	+23 7.3	1.269	1.095	50.3	20.8	56 E	34*	36*
7 10	11 12.98	+21 35.7	1.260	1.063	51.1	20.7	54 E	32*	36*
7 15	11 24.96	+19 58.8	1.246	1.031	52.0	20.7	53 E	30*	36*
7 20	11 37.04	+18 16.2	1.228	0.996	53.1	20.6	52 E	29*	36*
7 25	11 49.19	+16 27.6	1.206	0.960	54.5	20.5	50 E	27*	36*
7 30	12 1.41	+14 32.3	1.178	0.923	56.2	20.4	49 E	26*	36*
8 4	12 13.68	+12 29.6	1.146	0.885	58.3	20.3	48 E	24*	36*
8 9	12 25.96	+10 18.8	1.109	0.845	60.8	20.2	47 E	23*	36*
8 14	12 38.17	+ 7 59.0	1.066	0.806	63.8	20.1	46 E	21*	36*
8 19	12 50.18	+ 5 29.1	1.018	0.766	67.4	20.0	44 E	19*	35*
8 24	13 1.79	+ 2 47.9	0.965	0.727	71.9	19.9	43 E	18*	35*
8 29	13 12.71	− 0 6.2	0.907	0.689	77.2	19.9	42 E	16*	34*

86450 2000 CK_{33} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 3	13 22.46	− 3 14.5	0.844	0.654	83.6	19.8	40 E	13*	33*
9 8	13 30.35	− 6 38.5	0.778	0.623	91.3	19.9	38 E	10*	32*
9 13	13 35.35	−10 18.4	0.711	0.597	100.3	20.0	36 E	7*	30*
9 18	13 36.06	−14 11.9	0.644	0.578	110.5	20.3	33 E	2*	27*
9 23	13 30.84	−18 11.0	0.583	0.568	121.4	20.8	29 E	—	22*
9 28	13 18.27	−21 58.3	0.530	0.567	131.9	21.5	25 E	—	16*

182127 2000 RJ_{70}

12 27	10 42.96	+ 9 28.1	2.515	3.085	16.5	21.4	117 W	54	55
1 6	10 43.09	+ 9 43.1	2.355	3.049	14.9	21.2	127 W	55	54
1 16	10 40.92	+10 13.3	2.209	3.012	12.7	21.0	138 W	55	54
1 26	10 36.38	+10 58.4	2.085	2.974	9.7	20.7	149 W	56	53
2 5	10 29.63	+11 56.4	1.984	2.935	6.2	20.4	161 W	57	52
2 10	10 25.54	+12 29.0	1.944	2.915	4.2	20.2	167 W	57	52
2 15	10 21.08	+13 3.1	1.912	2.895	2.3	20.1	173 W	58	51
2 20	10 16.36	+13 37.9	1.887	2.875	0.9	19.9	177 W	59	50
2 25	10 11.50	+14 12.6	1.870	2.855	2.5	20.0	173 E	59	50
3 2	10 6.64	+14 46.1	1.860	2.834	4.6	20.1	167 E	60	49
3 7	10 1.89	+15 17.9	1.858	2.814	6.7	20.2	161 E	60	49
3 12	9 57.38	+15 47.1	1.863	2.793	8.8	20.3	154 E	61	48
3 17	9 53.25	+16 13.3	1.874	2.771	10.8	20.4	148 E	61	48
3 27	9 46.49	+16 54.7	1.914	2.728	14.5	20.5	137 E	62	47
4 6	9 42.19	+17 20.3	1.973	2.685	17.6	20.6	126 E	62	47
4 16	9 40.63	+17 30.2	2.046	2.640	20.0	20.8	116 E	63	46
4 26	9 41.82	+17 24.9	2.128	2.595	21.9	20.9	106 E	62*	47
5 6	9 45.60	+17 5.9	2.214	2.549	23.1	21.0	97 E	60*	47
5 16	9 51.71	+16 34.1	2.300	2.503	23.8	21.0	89 E	55*	47
5 26	9 59.89	+15 50.6	2.385	2.456	24.1	21.1	82 E	48*	48
6 5	10 9.86	+14 56.1	2.465	2.408	24.0	21.1	75 E	41*	49*
6 15	10 21.39	+13 51.4	2.539	2.360	23.6	21.1	68 E	35*	48*
6 25	10 34.26	+12 36.9	2.605	2.312	22.9	21.1	62 E	29*	47*
7 5	10 48.32	+11 13.3	2.662	2.263	22.0	21.1	56 E	24*	44*
7 15	11 3.44	+ 9 40.8	2.711	2.214	20.9	21.0	51 E	19*	41*
7 25	11 19.52	+ 8 0.2	2.750	2.166	19.6	21.0	46 E	16*	37*
8 4	11 36.50	+ 6 11.9	2.780	2.117	18.2	20.9	41 E	13*	33*
8 14	11 54.36	+ 4 16.7	2.801	2.069	16.7	20.8	36 E	11*	29*
8 24	12 13.07	+ 2 15.3	2.812	2.021	15.2	20.7	31 E	9*	25*
9 3	12 32.64	+ 0 8.7	2.816	1.973	13.5	20.6	27 E	7*	21*
9 13	12 53.13	− 2 2.1	2.811	1.927	11.8	20.5	23 E	5*	17*
9 23	13 14.57	− 4 15.7	2.800	1.882	10.1	20.4	19 E	4*	13*
10 3	13 37.02	− 6 30.5	2.782	1.838	8.4	20.2	16 E	3*	9*
10 13	14 0.57	− 8 44.6	2.760	1.796	6.6	20.1	12 E	2*	5*
10 23	14 25.26	−10 55.9	2.732	1.755	4.9	19.9	9 E	—	2*
11 2	14 51.16	−13 1.9	2.702	1.718	3.3	19.8	6 E	—	—
11 12	15 18.33	−14 59.7	2.670	1.683	2.1	19.6	4 E	—	—
11 22	15 46.76	−16 46.1	2.636	1.651	2.0	19.5	3 W	—	—
12 2	16 16.40	−18 18.1	2.603	1.623	3.1	19.5	5 W	—	—
12 12	16 47.16	−19 32.5	2.570	1.599	4.6	19.6	8 W	1*	—
12 22	17 18.85	−20 26.3	2.539	1.580	6.2	19.6	10 W	3*	1*
1 1	17 51.23	−20 57.4	2.510	1.565	7.8	19.6	13 W	4*	4*
1 11	18 23.99	−21 4.3	2.484	1.555	9.4	19.7	15 W	4*	7*
1 21	18 56.79	−20 46.7	2.460	1.550	11.0	19.7	17 W	5*	10*

10984 Gispen

12 27	10 44.42	+ 1 0.3	2.080	2.626	20.2	19.3	113 W	46	63
1 6	10 45.25	+ 0 36.8	1.934	2.601	18.5	19.1	123 W	46	63
1 16	10 43.43	+ 0 30.4	1.800	2.576	16.2	18.8	133 W	46	63
1 26	10 38.83	+ 0 43.8	1.683	2.549	13.0	18.5	144 W	46	63
2 5	10 31.59	+ 1 18.2	1.588	2.520	9.2	18.2	156 W	46	63
2 15	10 22.17	+ 2 12.9	1.518	2.491	5.0	17.9	167 W	47	62
2 20	10 16.92	+ 2 46.6	1.494	2.476	3.3	17.8	172 W	48	61
2 25	10 11.50	+ 3 23.5	1.477	2.461	3.1	17.7	172 E	48	61
3 2	10 6.08	+ 4 2.6	1.467	2.445	4.7	17.8	168 E	49	60
3 7	10 0.81	+ 4 42.9	1.464	2.430	6.9	17.9	163 E	50	59
3 12	9 55.85	+ 5 23.3	1.468	2.414	9.3	18.0	157 E	50	59
3 17	9 51.36	+ 6 2.8	1.479	2.397	11.6	18.1	151 E	51	58
3 22	9 47.45	+ 6 40.3	1.495	2.381	13.9	18.2	145 E	52	57
3 27	9 44.24	+ 7 15.1	1.517	2.364	16.0	18.2	139 E	52	57
4 6	9 40.09	+ 8 14.4	1.574	2.330	19.7	18.4	128 E	53	56
4 16	9 39.14	+ 8 57.7	1.645	2.295	22.7	18.6	118 E	54	55
4 26	9 41.35	+ 9 23.7	1.725	2.259	25.0	18.7	109 E	54*	55
5 6	9 46.43	+ 9 32.6	1.810	2.222	26.5	18.8	100 E	53*	54
5 16	9 54.06	+ 9 25.2	1.895	2.184	27.6	18.9	92 E	49*	55
5 26	10 3.90	+ 9 2.4	1.980	2.146	28.1	19.0	85 E	43*	55
6 5	10 15.62	+ 8 25.3	2.060	2.107	28.2	19.0	78 E	37*	55*
6 15	10 28.97	+ 7 34.7	2.136	2.067	27.9	19.1	72 E	31*	55*
6 25	10 43.72	+ 6 31.7	2.205	2.027	27.4	19.1	67 E	26*	53*
7 5	10 59.70	+ 5 17.3	2.267	1.987	26.6	19.1	61 E	22*	51*
7 15	11 16.79	+ 3 52.3	2.321	1.947	25.7	19.0	56 E	18*	48*

10984 Gispen *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 25	11 34.91	+ 2 17.9	2.368	1.906	24.6	19.0	51 E	15*	44*
8 4	11 53.99	+ 0 35.1	2.407	1.866	23.4	19.0	47 E	12*	40*
8 14	12 14.03	− 1 14.8	2.438	1.826	22.0	18.9	43 E	10*	36*
8 24	12 35.03	− 3 10.5	2.463	1.786	20.6	18.8	39 E	9*	32*
9 3	12 57.03	− 5 10.4	2.480	1.748	19.2	18.8	35 E	7*	29*
9 13	13 20.07	− 7 12.7	2.491	1.710	17.7	18.7	31 E	6*	25*
9 23	13 44.22	− 9 15.3	2.496	1.674	16.2	18.6	28 E	6*	22*
10 3	14 9.54	−11 15.8	2.497	1.639	14.6	18.5	24 E	5*	18*
10 13	14 36.09	−13 11.6	2.494	1.606	13.1	18.4	21 E	4*	15*
10 23	15 3.90	−14 59.5	2.488	1.576	11.5	18.3	18 E	4*	12*
11 2	15 33.00	−16 36.4	2.480	1.548	10.0	18.2	16 E	3*	9*
11 12	16 3.34	−17 58.8	2.471	1.524	8.5	18.1	13 E	3*	6*
11 22	16 34.82	−19 3.2	2.462	1.503	7.0	18.0	11 E	2*	3*
12 2	17 7.27	−19 46.8	2.454	1.486	5.6	17.9	8 E	1*	—
12 12	17 40.46	−20 6.9	2.447	1.472	4.3	17.8	6 E	—	—
12 22	18 14.07	−20 1.8	2.442	1.463	3.2	17.7	5 E	—	—
1 1	18 47.78	−19 31.1	2.439	1.459	2.4	17.6	4 E	—	—
1 11	19 21.26	−18 35.2	2.439	1.459	2.5	17.6	4 W	—	—
1 21	19 54.20	−17 15.9	2.442	1.464	3.3	17.7	5 W	—	—

67865 2000 WG_{23}

12 27	10 46.19	+13 57.4	2.071	2.673	19.0	20.6	118 W	59	50
1 6	10 46.19	+14 37.0	1.958	2.676	16.9	20.4	128 W	60	49
1 16	10 43.39	+15 33.7	1.859	2.679	14.0	20.2	139 W	61	48
1 26	10 37.79	+16 44.8	1.781	2.681	10.5	20.0	150 W	62	47
1 31	10 34.03	+17 24.1	1.751	2.681	8.5	19.8	156 W	62	47
2 5	10 29.72	+18 4.7	1.727	2.682	6.6	19.7	162 W	63	46
2 10	10 24.95	+18 45.6	1.711	2.682	4.7	19.6	167 W	64	45
2 15	10 19.84	+19 25.7	1.702	2.681	3.3	19.5	171 W	64	45
2 20	10 14.56	+20 3.7	1.700	2.681	3.3	19.5	171 W	65	44
2 25	10 9.24	+20 38.8	1.706	2.680	4.7	19.6	167 E	66	43
3 2	10 4.05	+21 10.1	1.719	2.679	6.5	19.7	162 E	66	43
3 7	9 59.12	+21 36.9	1.739	2.678	8.5	19.8	156 E	67	42
3 12	9 54.59	+21 59.0	1.766	2.677	10.5	19.9	151 E	67	42
3 17	9 50.59	+22 15.9	1.799	2.675	12.3	20.0	145 E	67	42
3 27	9 44.46	+22 34.9	1.880	2.671	15.6	20.3	134 E	68	41
4 6	9 41.12	+22 35.2	1.979	2.666	18.2	20.5	124 E	68	41
4 16	9 40.62	+22 19.3	2.091	2.660	20.2	20.6	114 E	67	42
4 26	9 42.80	+21 49.7	2.210	2.653	21.5	20.8	105 E	67*	42
5 6	9 47.33	+21 8.7	2.334	2.645	22.3	20.9	96 E	64*	43
5 16	9 53.90	+20 17.8	2.459	2.636	22.5	21.0	89 E	58*	44
5 26	10 2.19	+19 18.4	2.583	2.627	22.4	21.1	81 E	51*	45
6 5	10 11.89	+18 11.4	2.702	2.616	21.9	21.2	74 E	44*	45*
6 15	10 22.76	+16 57.6	2.816	2.604	21.1	21.3	68 E	37*	45*
6 25	10 34.59	+15 37.7	2.922	2.592	20.1	21.3	61 E	31*	44*
7 5	10 47.23	+14 12.3	3.021	2.578	18.9	21.3	55 E	26*	42*
7 15	11 0.53	+12 41.8	3.109	2.564	17.5	21.3	49 E	21*	38*
7 25	11 14.41	+11 7.0	3.188	2.548	15.9	21.3	43 E	17*	34*
8 4	11 28.77	+ 9 28.3	3.255	2.532	14.2	21.3	38 E	14*	30*
8 14	11 43.58	+ 7 46.2	3.311	2.515	12.5	21.2	32 E	11*	25*
8 24	11 58.79	+ 6 1.6	3.355	2.497	10.6	21.2	27 E	9*	20*
9 3	12 14.37	+ 4 14.9	3.386	2.478	8.7	21.1	22 E	7*	15*
9 13	12 30.33	+ 2 26.7	3.405	2.459	6.7	21.0	17 E	5*	10*
9 23	12 46.63	+ 0 38.0	3.412	2.438	4.8	20.9	12 E	3*	4*
10 3	13 3.30	− 1 10.6	3.406	2.417	3.1	20.8	7 E	1*	—
10 13	13 20.34	− 2 58.4	3.387	2.395	2.1	20.7	5 E	—	—
10 23	13 37.75	− 4 44.4	3.356	2.372	3.0	20.7	7 W	1*	—
11 2	13 55.54	− 6 27.9	3.313	2.349	4.8	20.8	11 W	5*	—
11 12	14 13.72	− 8 7.9	3.258	2.324	6.9	20.8	16 W	10*	1*
11 22	14 32.29	− 9 43.4	3.192	2.300	9.0	20.8	21 W	14*	6*
12 2	14 51.24	−11 13.7	3.115	2.274	11.1	20.8	26 W	18*	11*
12 12	15 10.56	−12 37.7	3.028	2.248	13.2	20.8	32 W	20*	16*
12 22	15 30.23	−13 54.6	2.932	2.222	15.3	20.8	37 W	22*	22*
1 1	15 50.20	−15 3.6	2.828	2.195	17.4	20.8	42 W	24*	28*
1 11	16 10.44	−16 4.0	2.716	2.167	19.4	20.7	47 W	24*	34*
1 21	16 30.86	−16 55.2	2.598	2.140	21.3	20.7	52 W	25*	41*

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12 27	10 46.24	+10 5.9	1.154	1.817	29.0	21.0	116 W	55	54
1 6	10 45.23	+10 37.9	1.127	1.889	24.6	20.9	127 W	56	53
1 16	10 40.03	+11 33.5	1.112	1.960	19.4	20.8	138 W	57	52
1 26	10 31.19	+12 46.6	1.113	2.031	13.6	20.7	151 W	58	51
2 5	10 19.85	+14 7.3	1.137	2.102	7.4	20.5	164 W	59	50
2 15	10 7.59	+15 24.4	1.186	2.172	1.9	20.4	176 W	60	49
2 20	10 1.67	+15 58.4	1.221	2.207	2.5	20.5	174 E	61	48
2 25	9 56.14	+16 28.1	1.263	2.242	5.0	20.8	169 E	61	48
3 2	9 51.18	+16 53.1	1.312	2.276	7.5	21.0	163 E	62	47
3 7	9 46.87	+17 13.1	1.366	2.311	9.8	21.2	157 E	62	47
3 12	9 43.31	+17 28.2	1.427	2.345	12.0	21.4	151 E	62	47
3 17	9 40.53	+17 38.4	1.493	2.379	13.9	21.6	145 E	63	46