19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
68950 2002 QF_{15}									
12 23	21 5.97	+ 0 36.2	1.595	1.233	38.1	19.4	51 E	39*	23*
1 2	21 35.80	+ 1 7.9	1.601	1.187	37.8	19.3	48 E	38*	20*
1 12	22 6.74	+ 1 49.7	1.598	1.137	37.6	19.2	45 E	36*	17*
1 22	22 38.90	+ 2 38.9	1.586	1.083	37.6	19.1	42 E	34*	16*
2 1	23 12.43	+ 3 32.1	1.564	1.025	38.0	19.0	40 E	32*	15*
2 11	23 47.47	+ 4 25.0	1.532	0.965	38.8	18.8	38 E	30*	15*
2 16	0 5.60	+ 4 49.6	1.512	0.934	39.4	18.7	37 E	29*	15*
2 21	0 24.17	+ 5 12.3	1.489	0.904	40.2	18.6	36 E	28*	16*
2 26	0 43.20	+ 5 32.1	1.463	0.873	41.2	18.5	36 E	27*	16*
3 2	1 2.70	+ 5 48.4	1.433	0.843	42.5	18.5	35 E	26*	17*
3 7	1 22.66	+ 6 0.4	1.400	0.815	44.1	18.4	35 E	25*	18*
3 12	1 43.07	+ 6 7.4	1.364	0.788	46.0	18.3	35 E	24*	19*
3 22	2 25.24	+ 6 4.6	1.282	0.741	50.9	18.2	35 E	22*	22*
4 1	3 9.00	+ 5 39.0	1.185	0.708	57.3	18.1	37 E	21*	26*
4 11	3 54.16	+ 4 54.9	1.078	0.694	64.7	18.1	39 E	19*	29*
4 16	4 17.29	+ 4 29.3	1.022	0.694	68.6	18.1	40 E	18*	31*
4 21	4 40.88	+ 4 3.9	0.965	0.700	72.3	18.1	42 E	17*	33*
4 26	5 5.06	+ 3 40.8	0.908	0.711	75.8	18.1	43 E	16*	35*
5 1	5 30.02	+ 3 22.1	0.853	0.726	78.9	18.1	45 E	16*	37*
5 6	5 55.97	+ 3 9.5	0.800	0.745	81.4	18.1	47 E	16*	39*
5 11	6 23.15	+ 3 4.6	0.751	0.768	83.3	18.1	49 E	16*	41*
5 21	7 22.03	+ 3 21.3	0.670	0.820	84.9	18.1	54 E	17*	46*
5 31	8 27.08	+ 4 9.1	0.616	0.879	83.4	18.0	59 E	20*	50*
6 10	9 35.71	+ 5 10.7	0.596	0.940	79.3	17.9	66 E	24*	53*
6 15	10 9.76	+ 5 38.8	0.599	0.971	76.6	17.9	68 E	27*	55*
6 20	10 42.69	+ 6 1.2	0.611	1.001	73.7	17.9	71 E	29*	56*
6 25	11 13.95	+ 6 16.3	0.630	1.031	70.8	17.9	73 E	31*	56*
6 30	11 43.19	+ 6 23.4	0.655	1.060	68.0	18.0	75 E	32*	57*
7 10	12 35.18	+ 6 15.9	0.722	1.116	63.0	18.2	78 E	35*	57*
7 20	13 19.28	+ 5 44.6	0.803	1.168	58.7	18.4	79 E	36*	58*
7 30	13 57.16	+ 4 56.9	0.892	1.215	55.1	18.6	79 E	37*	58*
8 4	14 14.29	+ 4 29.0	0.939	1.237	53.5	18.7	78 E	37*	58*
8 9	14 30.47	+ 3 59.4	0.986	1.258	52.0	18.8	78 E	38*	58*
8 14	14 45.86	+ 3 28.4	1.034	1.277	50.7	18.9	77 E	38*	58*
8 19	15 0.61	+ 2 56.5	1.081	1.296	49.4	19.0	76 E	38*	58*
8 29	15 28.64	+ 1 51.9	1.176	1.329	47.1	19.1	74 E	38*	57*
9 8	15 55.29	+ 0 48.8	1.268	1.357	45.0	19.3	72 E	37*	56*
9 18	16 21.10	− 0 10.7	1.358	1.380	43.1	19.4	70 E	37*	54*
9 28	16 46.49	− 1 4.3	1.442	1.398	41.3	19.5	67 E	37*	51*
10 8	17 11.71	− 1 50.1	1.522	1.410	39.6	19.6	64 E	37*	48*
10 18	17 36.97	− 2 26.8	1.596	1.418	38.0	19.7	61 E	37*	45*
10 28	18 2.43	− 2 52.6	1.664	1.421	36.5	19.8	58 E	36*	41*
11 7	18 28.17	− 3 6.6	1.724	1.419	35.1	19.8	55 E	36*	36*
11 17	18 54.26	− 3 7.9	1.778	1.412	33.7	19.8	52 E	36*	32*
11 27	19 20.76	− 2 55.8	1.824	1.399	32.4	19.8	49 E	35*	27*
12 7	19 47.69	− 2 30.0	1.863	1.382	31.1	19.8	46 E	35*	23*
12 17	20 15.12	− 1 50.7	1.893	1.359	29.9	19.7	43 E	34*	18*
12 27	20 43.08	− 0 58.2	1.916	1.332	28.7	19.7	41 E	32*	14*
1 6	21 11.63	+ 0 6.6	1.930	1.299	27.6	19.6	38 E	31*	11*
1 16	21 40.87	+ 1 22.3	1.935	1.262	26.5	19.5	35 E	28*	8*
138977 2001 CY_{31}									
12 23	21 5.98	−34 16.3	2.380	1.764	21.6	21.4	41 E	7*	35*
12 28	21 19.38	−32 49.3	2.411	1.765	20.7	21.4	39 E	7*	33*
1 2	21 32.46	−31 19.4	2.441	1.766	19.8	21.4	38 E	8*	31*
1 7	21 45.23	−29 47.2	2.470	1.767	18.9	21.4	36 E	8*	29*
1 12	21 57.71	−28 12.9	2.499	1.768	18.0	21.4	34 E	9*	27*
1 17	22 9.91	−26 36.7	2.526	1.769	17.1	21.4	32 E	9*	25*
1 22	22 21.86	−24 59.0	2.552	1.770	16.2	21.3	30 E	8*	23*
1 27	22 33.58	−23 19.9	2.576	1.770	15.2	21.3	28 E	8*	21*
2 1	22 45.08	−21 39.7	2.600	1.771	14.2	21.3	26 E	8*	19*
2 6	22 56.37	−19 58.7	2.622	1.771	13.3	21.3	24 E	7*	17*
2 11	23 7.48	−18 17.1	2.642	1.771	12.3	21.3	22 E	6*	16*
2 16	23 18.42	−16 34.9	2.662	1.771	11.3	21.3	21 E	5*	14*
2 21	23 29.22	−14 52.5	2.679	1.771	10.3	21.2	19 E	4*	12*
2 26	23 39.90	−13 9.9	2.695	1.771	9.3	21.2	17 E	2*	10*
3 2	23 50.45	−11 27.3	2.710	1.771	8.3	21.2	15 E	1*	9*
3 7	0 0.91	− 9 44.9	2.722	1.771	7.4	21.2	13 E	—	7*
3 12	0 11.28	− 8 2.8	2.733	1.771	6.4	21.1	11 E	—	5*
3 17	0 21.59	− 6 21.0	2.742	1.770	5.5	21.1	10 E	—	4*
3 22	0 31.85	− 4 39.8	2.749	1.770	4.7	21.0	8 E	—	2*
3 27	0 42.07	− 2 59.1	2.755	1.769	4.0	21.0	7 E	—	1*
4 1	0 52.27	− 1 19.1	2.758	1.768	3.6	21.0	6 E	—	—
4 6	1 2.46	+ 0 20.0	2.759	1.767	3.5	21.0	6 E	—	—
4 11	1 12.65	+ 1 58.3	2.759	1.767	3.7	21.0	7 W	—	—
4 16	1 22.86	+ 3 35.7	2.756	1.766	4.2	21.0	7 W	—	—

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
138977 2001 CY_{31} *(continuation)*									
4 21	1 33.11	+ 5 12.0	2.751	1.764	4.9	21.0	9 W	—	2*
4 26	1 43.41	+ 6 47.3	2.745	1.763	5.8	21.1	10 W	—	4*
5 1	1 53.76	+ 8 21.4	2.736	1.762	6.7	21.1	12 W	—	6*
5 6	2 4.18	+ 9 54.2	2.725	1.761	7.7	21.2	14 W	—	8*
5 11	2 14.68	+11 25.7	2.713	1.759	8.7	21.2	15 W	—	9*
5 16	2 25.29	+12 55.8	2.698	1.758	9.8	21.2	17 W	—	11*
5 21	2 36.01	+14 24.5	2.682	1.756	10.8	21.2	19 W	1*	13*
5 26	2 46.85	+15 51.6	2.664	1.754	11.9	21.3	21 W	3*	14*
5 31	2 57.83	+17 17.1	2.644	1.753	12.9	21.3	23 W	5*	16*
6 5	3 8.95	+18 40.9	2.622	1.751	13.9	21.3	25 W	7*	17*
6 10	3 20.24	+20 2.9	2.598	1.749	15.0	21.3	26 W	9*	18*
6 15	3 31.70	+21 23.0	2.573	1.747	16.0	21.3	28 W	11*	19*
6 20	3 43.35	+22 41.1	2.546	1.745	17.1	21.3	30 W	13*	20*
6 25	3 55.19	+23 57.2	2.518	1.743	18.1	21.3	32 W	16*	20*
6 30	4 7.23	+25 11.0	2.488	1.741	19.1	21.4	34 W	18*	21*
7 5	4 19.49	+26 22.6	2.457	1.738	20.1	21.4	36 W	21*	21*
7 10	4 31.97	+27 31.7	2.424	1.736	21.0	21.4	38 W	24*	22*
7 15	4 44.69	+28 38.4	2.390	1.734	22.0	21.3	40 W	26*	22*
7 20	4 57.65	+29 42.4	2.355	1.731	22.9	21.3	42 W	29*	22*
7 25	5 10.85	+30 43.7	2.319	1.729	23.8	21.3	43 W	32*	21*
7 30	5 24.28	+31 42.1	2.282	1.727	24.7	21.3	45 W	35*	21*
8 4	5 37.96	+32 37.5	2.244	1.724	25.6	21.3	47 W	37*	21*
8 9	5 51.89	+33 29.8	2.205	1.722	26.4	21.3	49 W	40*	20*
8 14	6 6.06	+34 19.0	2.166	1.719	27.2	21.3	51 W	42*	20*
8 19	6 20.46	+35 4.8	2.126	1.716	28.0	21.3	53 W	45*	20*
8 24	6 35.08	+35 47.3	2.085	1.714	28.8	21.2	55 W	47*	19*
8 29	6 49.89	+36 26.3	2.044	1.711	29.5	21.2	57 W	50*	18*
9 3	7 4.90	+37 1.8	2.003	1.708	30.2	21.2	58 W	52*	18*
9 8	7 20.09	+37 33.8	1.961	1.706	30.9	21.1	60 W	54*	17*
9 13	7 35.42	+38 2.3	1.920	1.703	31.5	21.1	62 W	56*	17*
9 18	7 50.87	+38 27.4	1.878	1.700	32.1	21.1	64 W	58*	16*
9 23	8 6.41	+38 49.1	1.836	1.698	32.7	21.0	66 W	60*	16*
9 28	8 22.00	+39 7.6	1.794	1.695	33.2	21.0	68 W	62*	16*
10 3	8 37.62	+39 22.9	1.753	1.692	33.7	21.0	70 W	64*	15*
10 8	8 53.24	+39 35.4	1.711	1.689	34.2	20.9	72 W	66*	15*
10 13	9 8.81	+39 45.1	1.670	1.687	34.6	20.9	74 W	68*	15*
10 18	9 24.30	+39 52.6	1.629	1.684	35.0	20.8	76 W	70*	14*
10 23	9 39.65	+39 58.0	1.588	1.681	35.3	20.8	77 W	71*	14*
10 28	9 54.85	+40 1.8	1.548	1.679	35.6	20.7	79 W	73*	14*
11 2	10 9.84	+40 4.3	1.509	1.676	35.8	20.7	81 W	75*	14*
11 7	10 24.60	+40 5.9	1.469	1.674	36.0	20.6	83 W	77*	15*
11 12	10 39.08	+40 7.2	1.431	1.671	36.2	20.6	85 W	79*	15*
11 17	10 53.23	+40 8.8	1.392	1.669	36.3	20.5	87 W	81*	15*
11 22	11 7.01	+40 11.0	1.354	1.666	36.3	20.4	89 W	83*	16*
11 27	11 20.38	+40 14.5	1.317	1.664	36.4	20.4	91 W	84*	16*
12 2	11 33.30	+40 19.6	1.281	1.662	36.3	20.3	93 W	85*	17*
12 7	11 45.71	+40 27.0	1.245	1.659	36.2	20.3	95 W	85	17*
12 12	11 57.57	+40 37.3	1.209	1.657	36.1	20.2	98 W	86	18*
12 17	12 8.79	+40 50.8	1.174	1.655	35.9	20.1	100 W	86	19*
12 22	12 19.31	+41 8.2	1.140	1.653	35.6	20.0	102 W	86	19*
12 27	12 29.06	+41 29.5	1.106	1.651	35.3	20.0	104 W	86	20*
1 1	12 37.96	+41 55.2	1.074	1.649	34.9	19.9	107 W	87	20*
1 6	12 45.91	+42 25.5	1.042	1.647	34.4	19.8	109 W	87	20*
1 11	12 52.78	+43 0.5	1.011	1.646	33.9	19.7	111 W	88	20*
1 16	12 58.45	+43 39.9	0.980	1.644	33.2	19.6	114 W	89	20*
160361 2003 YD_{66}									
12 23	21 6.18	−17 20.7	2.378	1.794	22.1	20.1	43 E	23*	31*
1 2	21 30.92	−15 51.2	2.414	1.765	20.6	20.1	39 E	22*	26*
1 12	21 56.08	−14 7.1	2.445	1.739	19.1	20.0	35 E	21*	22*
1 22	22 21.54	−12 9.5	2.474	1.716	17.5	20.0	32 E	19*	18*
2 1	22 47.24	−10 0.0	2.499	1.696	15.9	19.9	28 E	17*	15*
2 11	23 13.11	− 7 40.8	2.522	1.679	14.3	19.8	25 E	15*	13*
2 21	23 39.12	− 5 14.0	2.543	1.666	12.7	19.8	22 E	13*	10*
3 2	0 5.28	− 2 42.2	2.563	1.656	11.1	19.7	19 E	10*	8*
3 12	0 31.58	− 0 8.1	2.583	1.650	9.5	19.7	16 E	7*	7*
3 22	0 58.02	+ 2 25.4	2.603	1.648	7.9	19.6	13 E	5*	5*
4 1	1 24.64	+ 4 55.7	2.622	1.650	6.4	19.6	11 E	2*	3*
4 11	1 51.41	+ 7 19.9	2.642	1.656	4.9	19.5	8 E	—	2*
4 21	2 18.34	+ 9 35.5	2.663	1.666	3.6	19.5	6 E	—	—
5 1	2 45.40	+11 40.2	2.683	1.680	2.7	19.5	4 E	—	—
5 11	3 12.53	+13 31.8	2.702	1.697	2.6	19.5	4 E	—	—
5 21	3 39.68	+15 8.7	2.721	1.717	3.4	19.6	6 W	—	—
5 31	4 6.75	+16 29.9	2.739	1.741	4.7	19.7	8 W	—	2*
6 10	4 33.61	+17 34.4	2.754	1.767	6.2	19.8	11 W	—	5*
6 20	5 0.15	+18 22.0	2.767	1.796	7.7	19.9	14 W	—	8*
6 30	5 26.25	+18 53.0	2.775	1.827	9.3	20.0	17 W	1*	10*
7 10	5 51.76	+19 8.0	2.780	1.860	10.9	20.2	20 W	5*	13*
7 20	6 16.56	+19 7.9	2.779	1.895	12.5	20.3	24 W	9*	15*
7 30	6 40.55	+18 54.0	2.772	1.932	14.1	20.3	28 W	13*	18*
8 9	7 3.63	+18 27.9	2.758	1.969	15.7	20.4	32 W	18*	20*
8 19	7 25.71	+17 51.2	2.737	2.008	17.2	20.5	36 W	23*	22*

160361 2003 YD_{66} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 29	7 46.71	+17 5.7	2.708	2.048	18.7	20.6	41 W	28*	24*
9 8	8 6.58	+16 13.5	2.670	2.088	20.1	20.6	45 W	33*	26*
9 18	8 25.25	+15 16.3	2.623	2.129	21.3	20.7	50 W	38*	29*
9 28	8 42.65	+14 16.3	2.568	2.170	22.5	20.7	56 W	43*	31*
10 8	8 58.69	+13 15.4	2.504	2.212	23.4	20.7	62 W	47*	34*
10 18	9 13.29	+12 15.8	2.432	2.253	24.2	20.7	68 W	51*	38*
10 28	9 26.30	+11 19.7	2.352	2.295	24.6	20.7	74 W	54*	41*
11 7	9 37.58	+10 29.4	2.267	2.336	24.8	20.7	82 W	55*	45*
11 17	9 46.92	+ 9 47.4	2.176	2.378	24.6	20.6	89 W	55	49*
11 27	9 54.09	+ 9 16.3	2.084	2.419	23.9	20.5	97 W	54	52*
12 7	9 58.85	+ 8 58.7	1.993	2.459	22.6	20.4	106 W	54	55*
12 17	10 0.95	+ 8 56.9	1.906	2.499	20.7	20.3	116 W	54	55
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

127938 2003 HN_2

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 7.29	−17 32.4	2.822	2.215	17.8	21.4	44 E	22*	31*
1 2	21 27.13	−17 1.3	2.938	2.246	15.6	21.5	38 E	20*	26*
1 12	21 46.71	−16 20.3	3.044	2.277	13.4	21.5	33 E	18*	21*
1 22	22 5.99	−15 31.2	3.140	2.308	11.2	21.5	27 E	14*	16*
2 1	22 24.96	−14 35.6	3.224	2.338	9.0	21.5	22 E	10*	12*
2 11	22 43.62	−13 35.2	3.295	2.366	6.8	21.5	17 E	6*	8*
2 21	23 1.95	−12 31.5	3.354	2.395	4.8	21.4	12 E	1*	5*
3 2	23 19.97	−11 25.9	3.399	2.422	3.3	21.4	8 E	—	2*
3 12	23 37.67	−10 19.7	3.431	2.448	3.0	21.4	7 E	—	—

171673 2000 QB_{33}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 7.41	−21 33.1	2.357	1.763	22.2	20.8	43 E	19*	32*
1 2	21 33.59	−19 30.3	2.440	1.785	20.2	20.8	39 E	19*	28*
1 12	21 58.92	−17 17.6	2.521	1.808	18.3	20.8	35 E	18*	24*
1 22	22 23.42	−14 57.2	2.599	1.832	16.2	20.9	31 E	17*	20*
2 1	22 47.16	−12 31.6	2.674	1.857	14.2	20.9	27 E	15*	16*
2 11	23 10.19	−10 2.9	2.745	1.883	12.1	20.9	24 E	13*	13*
2 21	23 32.59	− 7 32.9	2.812	1.910	10.0	20.9	20 E	10*	10*
3 2	23 54.43	− 5 3.5	2.873	1.937	7.9	20.9	16 E	6*	7*
3 12	0 15.79	− 2 36.1	2.928	1.965	5.9	20.9	12 E	3*	4*
3 22	0 36.74	− 0 12.1	2.976	1.994	3.9	20.8	8 E	—	1*
4 1	0 57.33	+ 2 7.3	3.017	2.022	2.2	20.8	4 E	—	—
4 11	1 17.60	+ 4 21.2	3.049	2.051	1.9	20.8	4 W	—	—
4 21	1 37.62	+ 6 28.6	3.073	2.080	3.4	21.0	7 W	—	—
5 1	1 57.39	+ 8 28.8	3.088	2.108	5.2	21.1	11 W	—	5*
5 11	2 16.93	+10 21.2	3.094	2.137	7.2	21.2	15 W	—	9*
5 21	2 36.24	+12 5.2	3.089	2.165	9.1	21.3	20 W	—	14*
5 31	2 55.31	+13 40.6	3.075	2.193	11.0	21.4	24 W	3*	18*

331614 2001 YA_{137}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 7.43	− 0 34.5	2.087	1.643	27.4	19.6	50 E	38*	24*
1 2	21 33.06	+ 1 37.6	2.135	1.638	26.2	19.6	47 E	38*	19*
1 12	21 59.14	+ 3 58.0	2.184	1.636	24.9	19.6	45 E	37*	15*
1 22	22 25.60	+ 6 24.6	2.233	1.637	23.6	19.6	42 E	35*	11*
2 1	22 52.42	+ 8 55.2	2.284	1.642	22.3	19.6	39 E	33*	8*
2 11	23 19.53	+11 27.0	2.335	1.650	20.8	19.7	37 E	31*	5*
2 21	23 46.92	+13 57.1	2.389	1.662	19.4	19.7	34 E	28*	3*
3 2	0 14.57	+16 22.7	2.444	1.677	17.8	19.7	31 E	25*	2*
3 12	0 42.43	+18 40.9	2.500	1.694	16.2	19.7	28 E	22*	—
3 22	1 10.48	+20 49.4	2.558	1.715	14.6	19.7	26 E	19*	—
4 1	1 38.67	+22 45.9	2.616	1.738	12.9	19.7	23 E	17*	—
4 11	2 6.91	+24 28.4	2.673	1.763	11.1	19.8	20 E	14*	—
4 21	2 35.14	+25 55.5	2.729	1.791	9.4	19.8	17 E	11*	—
5 1	3 3.24	+27 6.3	2.782	1.820	7.6	19.8	14 E	8*	—
5 11	3 31.09	+28 0.1	2.833	1.851	6.0	19.8	11 E	5*	—
5 21	3 58.56	+28 36.7	2.879	1.884	4.6	19.8	9 E	2*	—
5 31	4 25.51	+28 56.4	2.919	1.917	3.8	19.8	7 W	1*	—
6 10	4 51.81	+28 59.7	2.953	1.952	4.0	19.9	8 W	2*	—
6 20	5 17.35	+28 47.3	2.980	1.987	5.1	20.0	10 W	3*	—
6 30	5 42.01	+28 20.4	2.999	2.023	6.6	20.1	13 W	6*	2*
7 10	6 5.71	+27 40.0	3.009	2.060	8.4	20.2	17 W	9*	6*
7 20	6 28.38	+26 47.4	3.010	2.097	10.2	20.4	21 W	12*	9*
7 30	6 49.97	+25 43.9	3.000	2.134	12.0	20.5	26 W	16*	12*
8 9	7 10.42	+24 30.8	2.980	2.171	13.8	20.5	31 W	21*	15*
8 19	7 29.71	+23 9.3	2.949	2.208	15.5	20.6	36 W	26*	18*
8 29	7 47.79	+21 40.7	2.908	2.244	17.1	20.7	41 W	31*	21*
9 8	8 4.63	+20 6.2	2.855	2.281	18.7	20.7	46 W	36*	24*
9 18	8 20.18	+18 26.9	2.792	2.317	20.1	20.8	52 W	41*	28*
9 28	8 34.35	+16 43.9	2.719	2.353	21.3	20.8	58 W	46*	31*
10 8	8 47.07	+14 58.3	2.636	2.389	22.2	20.8	65 W	50*	35*
10 18	8 58.21	+13 11.3	2.546	2.424	23.0	20.7	72 W	54*	39*
10 28	9 7.60	+11 23.9	2.448	2.458	23.4	20.7	79 W	55*	44*
11 7	9 15.05	+ 9 37.5	2.346	2.492	23.4	20.6	87 W	55	49*
11 17	9 20.34	+ 7 53.6	2.242	2.525	23.0	20.6	95 W	53	53*
11 27	9 23.19	+ 6 13.9	2.139	2.557	22.0	20.5	104 W	51	57*

331614 2001 YA_{137} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 7	9 23.37	+ 4 40.4	2.041	2.589	20.5	20.3	113 W	50	59
12 17	9 20.70	+ 3 15.9	1.952	2.620	18.4	20.2	123 W	48	61
12 27	9 15.13	+ 2 3.3	1.877	2.650	15.7	20.0	133 W	47	62
1 6	9 6.90	+ 1 5.7	1.821	2.679	12.5	19.9	144 W	46	63
1 16	8 56.56	+ 0 25.7	1.790	2.708	9.2	19.7	154 W	45	64

441875 2010 AX_{128}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 7.47	−16 39.0	2.852	2.247	17.6	21.2	44 E	23*	31*
1 2	21 25.66	−14 24.1	2.979	2.292	15.5	21.2	38 E	23*	24*
1 12	21 43.31	−12 8.8	3.098	2.337	13.3	21.3	33 E	21*	18*
1 22	22 0.45	− 9 53.3	3.209	2.381	11.1	21.3	28 E	18*	13*
2 1	22 17.13	− 7 37.6	3.309	2.426	8.8	21.3	22 E	15*	7*
2 11	22 33.36	− 5 22.2	3.398	2.470	6.7	21.3	17 E	10*	3*
2 21	22 49.15	− 3 7.2	3.475	2.514	4.6	21.3	12 E	6*	—
3 2	23 4.53	− 0 53.0	3.538	2.558	2.7	21.3	7 E	1*	—
3 12	23 19.49	+ 1 20.2	3.588	2.601	2.0	21.3	5 W	—	—
3 22	23 34.05	+ 3 32.1	3.625	2.643	3.2	21.4	8 W	2*	—

210635 2000 GQ_7

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 7.86	−14 26.5	1.880	1.366	30.3	19.5	45 E	25*	30*
12 28	21 25.02	−13 19.6	1.909	1.378	29.6	19.5	44 E	26*	28*
1 2	21 41.88	−12 8.5	1.939	1.391	28.8	19.5	43 E	26*	27*
1 7	21 58.43	−10 54.0	1.972	1.406	28.0	19.6	42 E	27*	26*
1 12	22 14.65	− 9 36.5	2.006	1.421	27.1	19.6	41 E	27*	24*
1 17	22 30.55	− 8 16.9	2.041	1.438	26.2	19.6	40 E	27*	23*
1 22	22 46.13	− 6 55.6	2.078	1.456	25.3	19.7	39 E	27*	22*
2 1	23 16.40	− 4 10.3	2.157	1.493	23.4	19.7	37 E	26*	19*
2 11	23 45.50	− 1 24.8	2.239	1.534	21.5	19.8	35 E	25*	17*
2 21	0 13.57	+ 1 17.3	2.325	1.578	19.5	19.9	32 E	23*	15*
3 2	0 40.74	+ 3 53.6	2.413	1.623	17.4	20.0	29 E	21*	13*
3 12	1 7.11	+ 6 21.7	2.501	1.669	15.3	20.0	26 E	18*	12*
3 22	1 32.80	+ 8 40.0	2.588	1.717	13.2	20.1	23 E	15*	10*
4 1	1 57.89	+10 47.3	2.673	1.766	11.0	20.2	20 E	12*	8*
4 11	2 22.44	+12 42.7	2.755	1.815	8.9	20.2	16 E	8*	6*
4 21	2 46.51	+14 25.7	2.831	1.864	6.8	20.2	13 E	4*	4*
5 1	3 10.14	+15 55.8	2.902	1.912	4.7	20.2	9 E	—	2*
5 11	3 33.31	+17 13.0	2.965	1.961	2.6	20.2	5 E	—	—
5 21	3 56.04	+18 17.3	3.020	2.009	1.1	20.2	2 E	—	—
5 31	4 18.30	+19 8.8	3.066	2.056	2.1	20.3	4 W	—	—
6 10	4 40.05	+19 47.8	3.102	2.103	4.1	20.5	8 W	—	2*
6 20	5 1.25	+20 15.0	3.127	2.149	6.0	20.7	13 W	—	6*
6 30	5 21.87	+20 30.8	3.142	2.194	8.0	20.9	18 W	3*	10*
7 10	5 41.82	+20 35.9	3.144	2.237	9.9	21.0	22 W	7*	14*
7 20	6 1.06	+20 31.1	3.134	2.280	11.8	21.1	27 W	12*	18*
7 30	6 19.52	+20 17.3	3.112	2.322	13.6	21.2	33 W	18*	21*
8 9	6 37.12	+19 55.5	3.078	2.362	15.3	21.3	38 W	24*	24*
8 19	6 53.80	+19 26.6	3.031	2.402	16.9	21.3	44 W	30*	27*
8 29	7 9.45	+18 52.0	2.972	2.440	18.3	21.3	49 W	36*	29*
9 8	7 23.99	+18 12.7	2.901	2.477	19.6	21.4	56 W	42*	32*
9 18	7 37.29	+17 30.0	2.820	2.512	20.7	21.4	62 W	47*	35*
9 28	7 49.21	+16 45.5	2.728	2.547	21.5	21.4	69 W	53*	38*
10 8	7 59.58	+16 0.6	2.629	2.580	22.1	21.3	76 W	57*	41*
10 18	8 8.22	+15 17.0	2.523	2.612	22.3	21.3	84 W	60*	44*
10 28	8 14.87	+14 36.6	2.412	2.642	22.1	21.2	92 W	60	47*
11 7	8 19.30	+14 1.2	2.301	2.672	21.4	21.1	101 W	59	49*
11 17	8 21.24	+13 32.8	2.192	2.700	20.1	21.0	110 W	59	50
11 27	8 20.43	+13 13.4	2.090	2.726	18.2	20.8	120 W	58	51
12 7	8 16.75	+13 4.5	2.000	2.752	15.6	20.7	131 W	58	51
12 17	8 10.24	+13 6.9	1.927	2.776	12.4	20.5	143 W	58	51
12 27	8 1.24	+13 20.3	1.877	2.798	8.6	20.3	155 W	58	51
1 6	7 50.46	+13 43.2	1.854	2.820	4.6	20.1	167 W	59	50
1 16	7 38.90	+14 12.9	1.862	2.840	2.5	20.0	173 E	59	50

368475 2003 SY_{223}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 8.16	−29 50.2	2.975	2.334	16.3	21.5	42 E	11*	35*
1 2	21 26.40	−27 48.2	3.017	2.298	14.6	21.4	36 E	11*	29*
1 12	21 44.91	−25 39.7	3.048	2.261	12.9	21.3	31 E	9*	23*
1 22	22 3.63	−23 24.6	3.068	2.223	11.1	21.3	26 E	8*	19*
2 1	22 22.52	−21 2.9	3.077	2.185	9.3	21.2	21 E	5*	14*
2 11	22 41.53	−18 34.8	3.075	2.146	7.5	21.0	16 E	2*	10*
2 21	23 0.66	−16 0.8	3.062	2.107	5.8	20.9	12 E	—	6*
3 2	23 19.93	−13 21.0	3.040	2.068	4.4	20.8	9 E	—	3*
3 12	23 39.36	−10 36.2	3.008	2.028	3.8	20.7	8 E	—	—
3 22	23 58.99	− 7 46.5	2.968	1.988	4.3	20.6	9 W	—	—
4 1	0 18.89	− 4 52.8	2.920	1.949	5.6	20.6	11 W	—	3*
4 11	0 39.12	− 1 55.5	2.865	1.909	7.4	20.6	14 W	—	7*
4 21	0 59.77	+ 1 4.7	2.804	1.870	9.3	20.6	18 W	—	11*
5 1	1 20.95	+ 4 6.9	2.737	1.832	11.3	20.6	21 W	—	15*
5 11	1 42.74	+ 7 10.1	2.666	1.794	13.4	20.6	24 W	1*	18*
5 21	2 5.30	+10 13.5	2.592	1.758	15.4	20.5	28 W	4*	21*
5 31	2 28.75	+13 15.4	2.516	1.723	17.4	20.5	31 W	7*	24*

368475 2003 SY_{223} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 10	2 53.23	+16 14.4	2.438	1.689	19.4	20.5	34 W	11*	25*
6 20	3 18.91	+19 8.4	2.361	1.658	21.4	20.4	37 W	15*	26*
6 30	3 45.92	+21 55.1	2.283	1.629	23.3	20.4	39 W	20*	27*
7 10	4 14.37	+24 31.4	2.207	1.602	25.1	20.3	42 W	25*	26*
7 15	4 29.18	+25 44.8	2.170	1.590	26.0	20.3	43 W	27*	26*
7 20	4 44.37	+26 54.4	2.133	1.578	26.8	20.2	45 W	30*	26*
7 25	4 59.95	+27 59.8	2.097	1.568	27.7	20.2	46 W	32*	25*
7 30	5 15.90	+29 0.4	2.062	1.558	28.5	20.2	47 W	34*	24*
8 4	5 32.21	+29 55.9	2.028	1.549	29.2	20.2	48 W	37*	24*
8 9	5 48.87	+30 45.8	1.995	1.541	30.0	20.1	49 W	39*	23*
8 14	6 5.83	+31 29.8	1.962	1.534	30.7	20.1	51 W	41*	22*
8 19	6 23.07	+32 7.5	1.931	1.528	31.4	20.1	52 W	43*	22*
8 24	6 40.52	+32 38.6	1.900	1.523	32.0	20.1	53 W	45*	21*
8 29	6 58.13	+33 2.8	1.870	1.519	32.6	20.0	54 W	46*	20*
9 3	7 15.84	+33 20.2	1.842	1.516	33.2	20.0	55 W	48*	20*
9 8	7 33.58	+33 30.5	1.814	1.514	33.7	20.0	57 W	50*	19*
9 13	7 51.29	+33 34.0	1.787	1.513	34.2	20.0	58 W	51*	19*
9 18	8 8.89	+33 30.8	1.761	1.513	34.7	20.0	59 W	52*	18*
9 23	8 26.31	+33 21.3	1.735	1.514	35.1	19.9	60 W	54*	18*
9 28	8 43.47	+33 5.8	1.711	1.516	35.5	19.9	62 W	55*	18*
10 8	9 16.84	+32 18.8	1.663	1.524	36.2	19.9	64 W	58*	18*
10 18	9 48.58	+31 14.6	1.616	1.535	36.7	19.9	67 W	61*	18*
10 28	10 18.38	+29 58.7	1.570	1.551	37.1	19.8	70 W	64*	19*
11 7	10 46.04	+28 36.6	1.523	1.570	37.3	19.8	74 W	66*	21*
11 17	11 11.41	+27 13.8	1.475	1.592	37.4	19.8	78 W	69*	23*
11 27	11 34.34	+25 55.6	1.425	1.618	37.2	19.7	82 W	70*	26*
12 7	11 54.70	+24 46.4	1.374	1.646	36.7	19.7	87 W	70*	29*
12 17	12 12.27	+23 50.1	1.319	1.677	35.9	19.6	92 W	69	33*
12 27	12 26.75	+23 9.9	1.264	1.709	34.7	19.5	98 W	68	37*
1 6	12 37.79	+22 47.6	1.208	1.744	33.0	19.4	105 W	68	40*
1 16	12 44.90	+22 44.1	1.153	1.780	30.7	19.3	113 W	68	41*

101363 1998 UQ

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 8.18	−22 57.1	2.128	1.552	25.3	19.5	42 E	17*	33*
12 28	21 23.05	−21 35.1	2.151	1.551	24.6	19.5	41 E	18*	31*
1 2	21 37.73	−20 9.0	2.175	1.552	23.9	19.5	40 E	19*	29*
1 7	21 52.21	−18 39.1	2.200	1.553	23.1	19.5	38 E	19*	27*
1 12	22 6.48	−17 5.9	2.225	1.556	22.3	19.5	37 E	19*	25*
1 22	22 34.43	−13 51.6	2.276	1.564	20.7	19.5	34 E	19*	22*
2 1	23 1.62	−10 29.8	2.330	1.575	19.0	19.5	31 E	19*	19*
2 11	23 28.11	− 7 4.2	2.385	1.591	17.3	19.5	29 E	18*	16*
2 21	23 54.01	− 3 38.0	2.442	1.610	15.5	19.5	26 E	16*	13*
3 2	0 19.42	− 0 14.4	2.500	1.633	13.6	19.5	23 E	14*	10*
3 12	0 44.44	+ 3 4.0	2.558	1.658	11.8	19.6	20 E	12*	8*
3 22	1 9.17	+ 6 14.8	2.615	1.686	9.8	19.6	17 E	9*	6*
4 1	1 33.69	+ 9 16.3	2.671	1.716	7.9	19.6	14 E	6*	3*
4 11	1 58.06	+12 6.7	2.725	1.749	5.9	19.6	10 E	3*	1*
4 21	2 22.34	+14 44.7	2.776	1.783	4.0	19.5	7 E	1*	—
5 1	2 46.57	+17 9.4	2.823	1.819	2.1	19.5	4 E	—	—
5 11	3 10.72	+19 20.0	2.865	1.855	0.8	19.5	2 W	—	—
5 21	3 34.81	+21 16.1	2.902	1.893	2.2	19.7	4 W	—	—
5 31	3 58.80	+22 57.4	2.932	1.932	4.1	19.8	8 W	—	—
6 10	4 22.61	+24 24.0	2.955	1.971	6.0	20.0	12 W	2*	4*
6 20	4 46.19	+25 36.2	2.970	2.011	7.9	20.1	16 W	5*	7*
6 30	5 9.43	+26 34.5	2.976	2.051	9.8	20.3	20 W	9*	9*
7 10	5 32.25	+27 19.7	2.974	2.091	11.6	20.4	24 W	14*	12*
7 20	5 54.55	+27 52.9	2.962	2.131	13.4	20.5	29 W	18*	14*
7 30	6 16.20	+28 15.1	2.940	2.170	15.1	20.6	34 W	24*	16*
8 9	6 37.11	+28 27.9	2.908	2.210	16.7	20.6	39 W	29*	18*
8 19	6 57.16	+28 32.9	2.865	2.249	18.2	20.7	44 W	35*	20*
8 29	7 16.25	+28 31.8	2.813	2.287	19.6	20.7	49 W	41*	21*
9 8	7 34.26	+28 26.6	2.750	2.325	20.8	20.8	55 W	47*	23*
9 18	7 51.07	+28 19.3	2.678	2.363	21.9	20.8	61 W	53*	25*
9 28	8 6.52	+28 12.2	2.598	2.399	22.7	20.8	67 W	59*	26*
10 8	8 20.48	+28 7.7	2.509	2.435	23.3	20.7	74 W	65*	28*
10 18	8 32.74	+28 8.2	2.415	2.471	23.5	20.7	81 W	70*	30*
10 28	8 43.06	+28 16.2	2.316	2.505	23.4	20.6	89 W	73*	32*
11 7	8 51.18	+28 33.9	2.216	2.539	22.8	20.5	97 W	74	33*
11 17	8 56.77	+29 3.4	2.116	2.572	21.7	20.4	106 W	74	34*
11 27	8 59.48	+29 45.7	2.022	2.604	20.0	20.3	115 W	75	34*
12 7	8 59.00	+30 40.3	1.937	2.635	17.7	20.2	126 W	76	33
12 17	8 55.11	+31 44.7	1.867	2.665	14.8	20.0	136 W	77	32
12 22	8 51.88	+32 19.0	1.839	2.680	13.2	19.9	142 W	77	32
12 27	8 47.84	+32 53.5	1.816	2.694	11.5	19.9	147 W	78	31
1 1	8 43.06	+33 27.2	1.799	2.708	9.7	19.8	152 W	78	31
1 6	8 37.65	+33 59.0	1.789	2.722	8.1	19.7	157 W	79	30
1 11	8 31.72	+34 27.8	1.786	2.736	6.6	19.6	161 W	79	30
1 16	8 25.44	+34 52.7	1.790	2.750	5.6	19.6	164 W	80	29

3553 Mera

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 23	21 8.61	+13 26.9	2.512	2.169	22.8	21.2	59 E	51*	17*
1 2	21 28.15	+13 26.4	2.596	2.165	21.5	21.2	54 E	47*	12*
1 12	21 47.97	+13 39.6	2.673	2.158	20.1	21.2	49 E	43*	8*
1 22	22 8.03	+14 5.0	2.744	2.150	18.6	21.2	44 E	38*	4*
2 1	22 28.27	+14 41.1	2.807	2.140	17.0	21.2	39 E	33*	—
2 11	22 48.65	+15 26.1	2.862	2.128	15.4	21.2	35 E	28*	—
2 21	23 9.19	+16 18.1	2.906	2.114	13.7	21.1	30 E	23*	—
3 2	23 29.87	+17 15.7	2.941	2.098	12.0	21.1	26 E	18*	—
3 12	23 50.72	+18 17.0	2.965	2.080	10.4	21.0	22 E	13*	—
3 22	0 11.77	+19 20.3	2.978	2.060	9.0	20.9	19 E	8*	—
4 1	0 33.05	+20 24.0	2.979	2.038	7.8	20.9	16 W	7*	—
4 11	0 54.59	+21 26.3	2.969	2.014	7.1	20.8	14 W	8*	—
4 21	1 16.46	+22 25.4	2.947	1.988	7.1	20.8	14 W	8*	—
5 1	1 38.69	+23 19.8	2.913	1.960	7.8	20.7	15 W	9*	2*
5 11	2 1.32	+24 7.6	2.868	1.930	9.1	20.7	18 W	10*	6*
5 21	2 24.39	+24 46.8	2.811	1.898	10.9	20.7	21 W	11*	9*
5 31	2 47.95	+25 15.6	2.744	1.865	12.8	20.7	24 W	12*	13*
6 10	3 11.99	+25 31.8	2.666	1.830	15.0	20.7	28 W	14*	16*
6 20	3 36.56	+25 33.2	2.579	1.793	17.2	20.6	31 W	17*	19*
6 30	4 1.64	+25 17.4	2.483	1.754	19.6	20.6	35 W	19*	22*
7 10	4 27.21	+24 41.7	2.380	1.714	21.9	20.5	39 W	23*	24*
7 20	4 53.29	+23 43.4	2.270	1.672	24.3	20.4	43 W	26*	27*
7 30	5 19.83	+22 19.2	2.156	1.629	26.8	20.3	46 W	30*	29*
8 4	5 33.26	+21 26.4	2.098	1.608	28.0	20.3	48 W	31*	30*
8 9	5 46.81	+20 26.0	2.039	1.586	29.2	20.2	50 W	33*	32*
8 14	6 0.47	+19 17.4	1.980	1.563	30.4	20.2	51 W	34*	33*
8 19	6 14.24	+18 0.2	1.921	1.541	31.6	20.1	53 W	36*	34*
8 24	6 28.12	+16 33.9	1.863	1.519	32.8	20.0	55 W	37*	35*
8 29	6 42.12	+14 58.3	1.805	1.496	34.0	20.0	56 W	38*	37*
9 8	7 10.49	+11 17.5	1.694	1.451	36.3	19.8	59 W	39*	40*
9 18	7 39.48	+ 6 55.8	1.589	1.406	38.6	19.7	61 W	39*	43*
9 28	8 9.19	+ 1 53.1	1.495	1.361	40.7	19.5	62 W	37*	46*
10 8	8 39.87	− 3 46.9	1.414	1.318	42.7	19.4	64 W	35*	49*
10 13	8 55.67	− 6 48.7	1.379	1.298	43.6	19.3	64 W	33*	51*
10 18	9 11.82	− 9 56.5	1.349	1.277	44.5	19.3	64 W	31*	52*
10 23	9 28.37	−13 8.3	1.322	1.258	45.3	19.2	64 W	29*	53*
10 28	9 45.37	−16 22.1	1.300	1.239	46.0	19.2	64 W	26*	54*
11 2	10 2.88	−19 35.5	1.283	1.222	46.6	19.1	63 W	24*	55*
11 7	10 20.94	−22 46.0	1.269	1.205	47.1	19.1	63 W	21*	55*
11 12	10 39.62	−25 51.2	1.259	1.189	47.6	19.1	63 W	18*	55*
11 17	10 58.93	−28 48.4	1.253	1.175	47.9	19.0	62 W	15*	55*
11 22	11 18.91	−31 35.4	1.250	1.162	48.2	19.0	61 W	13*	55*
11 27	11 39.57	−34 9.9	1.249	1.151	48.3	19.0	61 W	10*	55*
12 2	12 0.90	−36 30.1	1.250	1.141	48.4	19.0	60 W	8*	54*
12 7	12 22.86	−38 34.4	1.253	1.133	48.5	19.0	59 W	6*	53*
12 12	12 45.38	−40 21.9	1.257	1.126	48.4	19.0	59 W	4*	53*
12 17	13 8.34	−41 51.5	1.261	1.122	48.3	19.0	58 W	3*	52*
12 22	13 31.59	−43 2.7	1.265	1.119	48.3	19.0	58 W	2*	52*
12 27	13 54.96	−43 55.4	1.269	1.118	48.2	19.0	58 W	1*	51*
1 1	14 18.27	−44 29.8	1.271	1.119	48.1	19.0	58 W	—	51*
1 6	14 41.32	−44 46.3	1.273	1.122	48.0	19.0	58 W	—	51*
1 11	15 3.93	−44 45.7	1.272	1.127	47.9	19.0	58 W	—	51*
1 16	15 25.91	−44 28.8	1.270	1.133	47.9	19.0	59 W	—	52*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 9.54	−21 39.8	1.424	0.973	43.6	20.6	43 E	19*	33*
12 28	21 31.86	−21 2.2	1.441	0.989	42.9	20.6	43 E	19*	33*
1 2	21 53.46	−20 14.9	1.459	1.003	42.2	20.7	43 E	20*	32*
1 7	22 14.35	−19 19.1	1.477	1.017	41.5	20.7	43 E	21*	32*
1 12	22 34.56	−18 16.0	1.495	1.029	40.9	20.7	43 E	21*	32*
1 17	22 54.14	−17 6.4	1.513	1.040	40.2	20.8	43 E	22*	32*
1 22	23 13.14	−15 51.3	1.531	1.050	39.6	20.8	43 E	22*	31*
1 27	23 31.61	−14 31.5	1.548	1.058	39.0	20.8	43 E	22*	31*
2 1	23 49.62	−13 7.7	1.564	1.066	38.4	20.8	42 E	23*	30*
2 6	0 7.21	−11 40.6	1.580	1.072	37.9	20.9	42 E	23*	30*
2 11	0 24.44	−10 10.8	1.594	1.076	37.4	20.9	41 E	23*	30*
2 16	0 41.37	− 8 38.9	1.608	1.080	36.9	20.9	41 E	23*	29*
2 21	0 58.06	− 7 5.3	1.620	1.082	36.5	20.9	41 E	23*	29*
2 26	1 14.56	− 5 30.4	1.632	1.083	36.1	20.9	40 E	23*	28*
3 2	1 30.93	− 3 54.8	1.641	1.082	35.8	20.9	40 E	23*	28*
3 7	1 47.20	− 2 18.8	1.650	1.080	35.4	20.9	39 E	23*	28*
3 12	2 3.43	− 0 42.9	1.657	1.077	35.2	20.9	39 E	22*	27*
3 17	2 19.66	+ 0 52.8	1.662	1.073	34.9	20.9	38 E	22*	27*
3 22	2 35.95	+ 2 27.7	1.667	1.067	34.7	20.9	38 E	22*	26*
3 27	2 52.32	+ 4 1.6	1.669	1.060	34.6	20.9	37 E	21*	26*
4 1	3 8.83	+ 5 34.1	1.670	1.052	34.5	20.8	37 E	20*	26*
4 6	3 25.51	+ 7 4.8	1.669	1.042	34.4	20.8	36 E	20*	25*
4 11	3 42.39	+ 8 33.4	1.667	1.031	34.4	20.8	36 E	19*	25*
4 16	3 59.51	+ 9 59.5	1.663	1.019	34.4	20.8	35 E	19*	25*
4 21	4 16.92	+11 22.8	1.657	1.006	34.5	20.7	35 E	18*	24*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 26	4 34.64	+12 42.9	1.650	0.992	34.7	20.7	34 E	17*	24*
5 1	4 52.70	+13 59.3	1.640	0.977	34.9	20.7	34 E	17*	24*
5 6	5 11.13	+15 11.5	1.629	0.961	35.2	20.6	33 E	16*	23*
5 11	5 29.95	+16 19.3	1.616	0.943	35.6	20.6	33 E	16*	23*
5 16	5 49.18	+17 22.1	1.600	0.926	36.0	20.5	33 E	15*	23*
5 21	6 8.85	+18 19.4	1.583	0.907	36.6	20.5	32 E	15*	22*
5 26	6 28.97	+19 10.8	1.564	0.888	37.4	20.4	32 E	14*	22*
5 31	6 49.53	+19 55.7	1.542	0.869	38.3	20.4	32 E	14*	22*
6 5	7 10.54	+20 33.6	1.518	0.849	39.3	20.3	32 E	14*	22*
6 10	7 31.99	+21 4.0	1.491	0.830	40.5	20.3	32 E	14*	22*
6 15	7 53.86	+21 26.4	1.462	0.811	42.0	20.2	32 E	14*	22*
6 20	8 16.13	+21 40.2	1.430	0.792	43.6	20.2	33 E	14*	22*
6 25	8 38.77	+21 44.8	1.396	0.775	45.5	20.1	33 E	15*	22*
6 30	9 1.72	+21 39.8	1.359	0.759	47.7	20.1	33 E	15*	23*
7 5	9 24.92	+21 24.6	1.319	0.744	50.1	20.0	34 E	16*	23*
7 10	9 48.33	+20 58.7	1.276	0.732	52.7	20.0	35 E	17*	24*
7 15	10 11.87	+20 21.5	1.232	0.721	55.6	20.0	36 E	18*	25*
7 20	10 35.48	+19 32.5	1.185	0.714	58.7	19.9	37 E	19*	25*
7 25	10 59.10	+18 31.0	1.136	0.709	61.8	19.9	38 E	19*	26*
7 30	11 22.66	+17 16.4	1.085	0.708	65.0	19.9	39 E	20*	27*
8 4	11 46.13	+15 48.0	1.034	0.709	68.3	19.9	40 E	21*	29*
8 9	12 9.50	+14 5.1	0.983	0.713	71.4	19.9	42 E	22*	30*
8 14	12 32.77	+12 6.9	0.933	0.721	74.3	19.9	43 E	23*	32*
8 19	12 55.98	+ 9 52.4	0.884	0.731	77.0	19.9	45 E	23*	33*
8 24	13 19.21	+ 7 21.0	0.837	0.743	79.3	19.9	46 E	24*	35*
8 29	13 42.54	+ 4 32.5	0.792	0.758	81.3	19.9	48 E	24*	37*
9 8	14 29.96	− 1 54.8	0.715	0.791	83.8	19.9	51 E	23*	42*
9 18	15 19.36	− 9 17.8	0.656	0.828	84.3	19.8	55 E	22*	47*
9 28	16 11.81	−17 4.6	0.620	0.867	82.9	19.8	59 E	19*	52*
10 3	16 39.36	−20 51.2	0.610	0.887	81.7	19.7	61 E	17*	55*
10 8	17 7.76	−24 23.8	0.606	0.906	80.1	19.7	63 E	16*	57*
10 13	17 36.92	−27 35.9	0.607	0.924	78.3	19.7	65 E	14*	59*
10 18	18 6.62	−30 22.0	0.612	0.942	76.5	19.7	67 E	12*	61*
10 23	18 36.58	−32 38.6	0.622	0.959	74.6	19.7	68 E	11*	62*
10 28	19 6.43	−34 24.3	0.635	0.976	72.7	19.7	70 E	10*	63*
11 2	19 35.80	−35 39.2	0.651	0.991	71.0	19.7	71 E	9*	64*
11 7	20 4.36	−36 25.0	0.669	1.005	69.3	19.8	72 E	9*	65*
11 12	20 31.86	−36 44.1	0.688	1.018	67.7	19.8	72 E	8	66*
11 17	20 58.11	−36 39.6	0.709	1.030	66.3	19.9	73 E	8	66*
11 22	21 23.03	−36 14.7	0.731	1.041	65.0	19.9	73 E	9	67*
11 27	21 46.57	−35 32.4	0.752	1.051	63.9	20.0	73 E	9	67*
12 2	22 8.77	−34 35.4	0.774	1.059	62.8	20.0	73 E	10	67*
12 7	22 29.71	−33 26.1	0.795	1.066	61.9	20.0	73 E	12	67*
12 12	22 49.51	−32 6.4	0.815	1.072	61.1	20.1	72 E	13	66*
12 17	23 8.28	−30 37.8	0.835	1.077	60.4	20.1	72 E	14	65*
12 22	23 26.16	−29 1.7	0.854	1.080	59.8	20.2	72 E	16	65*
12 27	23 43.25	−27 19.5	0.872	1.082	59.3	20.2	71 E	18	63*
1 1	23 59.65	−25 31.8	0.888	1.083	58.9	20.2	70 E	19	62*
1 6	0 15.47	−23 39.5	0.904	1.082	58.5	20.3	70 E	21	61*
1 11	0 30.81	−21 43.0	0.917	1.080	58.3	20.3	69 E	23*	59*
1 16	0 45.77	−19 42.8	0.930	1.077	58.2	20.3	68 E	25*	58*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 11.56	− 0 24.1	1.431	1.120	43.3	18.9	51 E	39*	25*
1 2	21 51.95	− 0 4.9	1.427	1.103	43.4	18.9	50 E	38*	24*
1 12	22 33.26	+ 0 22.9	1.432	1.094	43.3	18.8	50 E	38*	24*
1 22	23 14.91	+ 0 56.9	1.447	1.094	42.8	18.9	49 E	37*	24*
2 1	23 56.37	+ 1 35.1	1.471	1.102	42.1	18.9	49 E	36*	25*
2 11	0 37.18	+ 2 15.1	1.504	1.118	41.0	18.9	48 E	35*	27*
2 21	1 16.99	+ 2 54.9	1.546	1.141	39.7	19.0	48 E	34*	28*
3 2	1 55.66	+ 3 32.6	1.595	1.171	38.3	19.1	47 E	33*	30*
3 12	2 33.06	+ 4 6.3	1.651	1.207	36.7	19.2	47 E	31*	31*
3 22	3 9.22	+ 4 34.4	1.713	1.247	35.1	19.3	46 E	29*	32*
4 1	3 44.18	+ 4 55.5	1.779	1.290	33.4	19.4	45 E	26*	33*
4 11	4 17.98	+ 5 8.1	1.849	1.336	31.8	19.5	45 E	23*	34*
4 21	4 50.67	+ 5 11.1	1.923	1.383	30.1	19.6	44 E	20*	35*
5 1	5 22.30	+ 5 3.6	2.000	1.432	28.5	19.7	43 E	16*	35*
5 11	5 52.89	+ 4 45.2	2.079	1.481	26.8	19.8	41 E	12*	34*
5 21	6 22.46	+ 4 15.8	2.161	1.529	25.1	20.0	40 E	7*	34*
5 31	6 51.05	+ 3 35.5	2.243	1.578	23.5	20.1	38 E	3*	32*
6 10	7 18.65	+ 2 44.9	2.326	1.625	21.8	20.1	36 E	—	30*
6 20	7 45.30	+ 1 44.6	2.408	1.672	20.1	20.2	34 E	—	28*
6 30	8 11.05	+ 0 35.5	2.489	1.717	18.4	20.3	32 E	—	25*
7 10	8 35.92	− 0 41.3	2.568	1.760	16.7	20.4	30 E	—	22*
7 20	8 59.97	− 2 4.9	2.644	1.802	15.0	20.4	27 E	—	18*
7 30	9 23.26	− 3 34.1	2.715	1.843	13.3	20.5	25 E	—	14*
8 9	9 45.85	− 5 7.9	2.780	1.881	11.8	20.5	22 E	—	10*
8 19	10 7.80	− 6 45.2	2.839	1.918	10.3	20.5	20 E	—	6*
8 29	10 29.18	− 8 25.2	2.890	1.953	9.1	20.6	18 W	—	2*
9 8	10 50.04	−10 6.6	2.932	1.986	8.2	20.6	16 W	—	5*
9 18	11 10.45	−11 48.8	2.965	2.017	7.8	20.6	16 W	—	7*

142040 2002 QE_{15} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 28	11 30.45	−13 30.7	2.987	2.046	8.0	20.7	17 W	—	10*
10 8	11 50.09	−15 11.5	2.997	2.073	8.8	20.8	18 W	—	12*
10 18	12 9.41	−16 50.4	2.995	2.098	9.9	20.8	21 W	3*	15*
10 28	12 28.42	−18 26.4	2.980	2.121	11.4	20.9	25 W	6*	18*
11 7	12 47.13	−19 58.7	2.952	2.142	13.0	21.0	29 W	10*	22*
11 17	13 5.54	−21 26.5	2.911	2.161	14.8	21.0	34 W	13*	26*
11 27	13 23.62	−22 49.0	2.856	2.178	16.5	21.1	39 W	15*	30*
12 7	13 41.31	−24 5.2	2.788	2.193	18.3	21.1	44 W	17*	35*
12 17	13 58.55	−25 14.6	2.707	2.206	20.0	21.1	50 W	18*	41*
12 27	14 15.21	−26 16.0	2.614	2.217	21.5	21.1	56 W	18*	48*
1 6	14 31.17	−27 8.9	2.509	2.226	23.0	21.0	62 W	18*	54*
1 16	14 46.23	−27 52.2	2.394	2.233	24.2	21.0	69 W	17*	62*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 11.58	−17 52.3	1.996	1.465	28.0	20.9	44 E	23*	32*
1 2	21 38.42	−15 10.2	2.091	1.498	25.6	21.0	41 E	23*	27*
1 12	22 3.81	−12 24.2	2.182	1.527	23.2	21.0	38 E	23*	23*
1 22	22 28.06	− 9 36.0	2.266	1.552	20.8	21.1	34 E	22*	19*
2 1	22 51.44	− 6 46.6	2.343	1.573	18.4	21.1	30 E	21*	15*
2 11	23 14.17	− 3 56.9	2.411	1.590	16.1	21.1	27 E	18*	11*
2 21	23 36.46	− 1 7.8	2.469	1.603	13.7	21.1	23 E	15*	8*
3 2	23 58.49	+ 1 40.3	2.518	1.611	11.4	21.0	19 E	12*	5*
3 12	0 20.43	+ 4 26.5	2.555	1.616	9.1	21.0	15 E	9*	2*
3 22	0 42.43	+ 7 10.3	2.582	1.617	6.9	20.9	11 E	5*	—
4 1	1 4.66	+ 9 50.8	2.598	1.613	4.8	20.8	8 E	2*	—
4 11	1 27.26	+12 27.3	2.603	1.606	2.9	20.7	5 E	—	—
4 21	1 50.41	+14 58.8	2.596	1.594	2.1	20.6	3 W	—	—
5 1	2 14.28	+17 24.2	2.579	1.579	3.3	20.7	5 W	—	—
5 11	2 39.01	+19 42.1	2.552	1.559	5.2	20.7	8 W	—	—
5 21	3 4.81	+21 51.0	2.516	1.535	7.3	20.8	11 W	2*	3*
5 31	3 31.85	+23 48.7	2.470	1.507	9.4	20.8	14 W	4*	5*
6 10	4 0.28	+25 32.8	2.417	1.475	11.5	20.8	17 W	6*	7*
6 20	4 30.30	+27 0.4	2.357	1.439	13.6	20.7	19 W	9*	9*
6 30	5 2.01	+28 7.9	2.291	1.399	15.7	20.7	22 W	11*	10*
7 10	5 35.49	+28 51.1	2.220	1.355	17.7	20.6	24 W	14*	10*
7 20	6 10.75	+29 5.3	2.147	1.308	19.7	20.5	26 W	17*	11*
7 30	6 47.70	+28 45.5	2.072	1.256	21.6	20.4	27 W	19*	10*
8 4	7 6.76	+28 21.2	2.035	1.230	22.5	20.4	28 W	20*	10*
8 9	7 26.16	+27 46.4	1.998	1.202	23.4	20.3	28 W	20*	10*
8 14	7 45.88	+27 0.6	1.961	1.174	24.2	20.2	28 W	21*	10*
8 19	8 5.88	+26 3.2	1.926	1.145	25.0	20.2	29 W	21*	10*
8 29	8 46.54	+23 32.1	1.858	1.085	26.4	20.0	29 W	22*	9*
9 8	9 27.87	+20 10.9	1.798	1.025	27.5	19.9	28 W	21*	9*
9 18	10 9.73	+15 59.7	1.747	0.965	28.1	19.7	27 W	20*	8*
9 23	10 30.83	+13 36.3	1.726	0.935	28.1	19.6	26 W	19*	8*
9 28	10 52.06	+11 2.1	1.708	0.907	28.0	19.5	25 W	18*	7*
10 3	11 13.44	+ 8 18.2	1.693	0.880	27.6	19.4	24 W	17*	7*
10 8	11 35.03	+ 5 25.9	1.681	0.855	27.1	19.3	23 W	16*	7*
10 13	11 56.87	+ 2 27.0	1.673	0.831	26.2	19.2	22 W	15*	7*
10 18	12 19.02	− 0 36.6	1.669	0.811	25.1	19.1	20 W	13*	6*
10 23	12 41.53	− 3 42.5	1.668	0.793	23.8	19.0	19 W	11*	6*
10 28	13 4.47	− 6 48.1	1.670	0.780	22.2	18.9	17 W	10*	6*
11 2	13 27.91	− 9 50.5	1.676	0.770	20.5	18.9	16 W	8*	5*
11 7	13 51.87	−12 46.8	1.684	0.764	18.7	18.8	14 W	6*	5*
11 12	14 16.39	−15 34.0	1.696	0.763	16.8	18.8	13 W	4*	4*
11 17	14 41.46	−18 9.2	1.710	0.767	14.9	18.7	11 W	2*	4*
11 22	15 7.02	−20 29.6	1.727	0.775	13.1	18.7	10 W	1*	3*
11 27	15 33.00	−22 33.1	1.745	0.787	11.5	18.7	9 W	—	3*
12 2	15 59.26	−24 17.9	1.766	0.803	10.1	18.7	8 W	—	2*
12 7	16 25.65	−25 42.9	1.789	0.822	8.9	18.7	7 W	—	1*
12 12	16 51.99	−26 47.5	1.814	0.844	7.9	18.8	7 W	—	1*
12 17	17 18.08	−27 32.1	1.840	0.869	7.2	18.8	6 W	—	—
12 22	17 43.72	−27 57.2	1.867	0.895	6.6	18.9	6 W	—	—
12 27	18 8.75	−28 4.1	1.896	0.923	6.2	19.0	6 W	—	—
1 1	18 33.03	−27 54.2	1.925	0.952	5.8	19.1	6 W	—	—
1 6	18 56.44	−27 29.4	1.955	0.982	5.6	19.2	6 W	—	—
1 11	19 18.94	−26 51.4	1.986	1.012	5.4	19.3	6 W	—	—
1 16	19 40.47	−26 2.1	2.016	1.042	5.3	19.3	6 W	—	—

173154 1996 *ME*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 11.76	−19 56.1	2.092	1.543	26.3	20.3	44 E	21*	33*
12 28	21 26.93	−18 58.6	2.121	1.547	25.5	20.3	43 E	21*	31*
1 2	21 41.94	−17 56.7	2.150	1.551	24.7	20.4	41 E	21*	29*
1 7	21 56.76	−16 50.7	2.179	1.557	23.9	20.4	40 E	21*	27*
1 12	22 11.40	−15 41.2	2.209	1.564	23.0	20.4	38 E	21*	26*
1 22	22 40.09	−13 13.1	2.270	1.579	21.3	20.4	36 E	21*	23*
2 1	23 8.00	−10 36.1	2.333	1.598	19.6	20.4	33 E	20*	20*
2 11	23 35.16	− 7 53.7	2.396	1.620	17.8	20.5	30 E	18*	18*
2 21	0 1.64	− 5 9.2	2.461	1.644	16.0	20.5	27 E	16*	15*

19/20		α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			173154 1996 *ME*				*(continuation)*			
		h m	° ′			°	m	°	°	°
3	2	0 27.51	− 2 25.6	2.525	1.671	14.1	20.5	24 E	14*	13*
3	12	0 52.85	+ 0 14.4	2.588	1.700	12.2	20.6	21 E	11*	11*
3	22	1 17.74	+ 2 48.6	2.650	1.731	10.3	20.6	18 E	8*	9*
4	1	1 42.25	+ 5 15.1	2.710	1.763	8.4	20.6	15 E	5*	7*
4	11	2 6.42	+ 7 32.2	2.766	1.797	6.6	20.6	12 E	2*	5*
4	21	2 30.30	+ 9 38.7	2.819	1.832	4.8	20.6	9 E	—	3*
5	1	2 53.92	+11 33.7	2.866	1.868	3.3	20.6	6 E	—	—
5	11	3 17.27	+13 16.4	2.908	1.904	2.5	20.6	5 E	—	—
5	21	3 40.35	+14 46.2	2.944	1.940	3.2	20.7	6 W	—	—
5	31	4 3.14	+16 3.1	2.972	1.977	4.6	20.8	9 W	—	3*
6	10	4 25.57	+17 6.9	2.993	2.014	6.4	21.0	13 W	—	7*
6	20	4 47.62	+17 57.9	3.004	2.051	8.2	21.1	17 W	—	10*
6	30	5 9.21	+18 36.5	3.007	2.088	10.0	21.2	21 W	3*	14*
7	10	5 30.26	+19 3.2	2.999	2.125	11.8	21.3	25 W	8*	17*
7	20	5 50.72	+19 18.8	2.982	2.161	13.6	21.4	30 W	13*	20*
			430904 2005 SA_{69}							
12	23	21 11.79	−21 19.9	2.292	1.719	23.3	20.9	44 E	19*	33*
1	2	21 37.74	−18 28.8	2.374	1.741	21.3	20.9	40 E	20*	28*
1	12	22 2.67	−15 31.3	2.455	1.764	19.4	21.0	36 E	20*	24*
1	22	22 26.66	−12 30.0	2.536	1.790	17.3	21.0	33 E	20*	20*
2	1	22 49.84	− 9 26.8	2.615	1.817	15.2	21.0	29 E	18*	16*
2	11	23 12.29	− 6 23.8	2.692	1.846	13.1	21.0	25 E	16*	12*
2	21	23 34.12	− 3 22.5	2.764	1.877	11.0	21.1	21 E	13*	8*
3	2	23 55.45	− 0 24.2	2.833	1.909	8.8	21.1	17 E	10*	5*
3	12	0 16.34	+ 2 29.9	2.895	1.941	6.7	21.1	13 E	6*	2*
3	22	0 36.88	+ 5 18.7	2.952	1.975	4.6	21.0	9 E	3*	—
4	1	0 57.15	+ 8 1.5	3.002	2.009	2.5	21.0	5 E	—	—
4	11	1 17.19	+10 37.6	3.044	2.043	1.2	20.9	2 W	—	—
4	21	1 37.05	+13 6.3	3.078	2.078	2.3	21.1	5 W	—	—
5	1	1 56.76	+15 27.2	3.103	2.113	4.2	21.3	9 W	—	2*
5	11	2 16.32	+17 39.9	3.119	2.149	6.2	21.4	13 W	3*	6*
			226219 2002 VT_{85}							
12	23	21 12.38	−11 33.1	1.739	1.281	33.9	21.1	47 E	29*	30*
12	28	21 30.14	−10 12.6	1.756	1.286	33.4	21.1	46 E	29*	28*
1	2	21 47.77	− 8 48.0	1.774	1.293	32.9	21.1	46 E	30*	27*
1	7	22 5.25	− 7 19.7	1.795	1.301	32.3	21.1	45 E	31*	26*
1	12	22 22.54	− 5 48.8	1.818	1.312	31.7	21.1	45 E	31*	24*
1	17	22 39.64	− 4 15.8	1.843	1.324	31.0	21.2	44 E	32*	23*
1	22	22 56.54	− 2 41.5	1.870	1.338	30.3	21.2	43 E	32*	22*
1	27	23 13.22	− 1 6.7	1.900	1.353	29.6	21.2	43 E	32*	21*
2	1	23 29.69	+ 0 28.1	1.933	1.370	28.8	21.3	42 E	32*	20*
2	6	23 45.95	+ 2 2.0	1.967	1.388	28.0	21.3	41 E	32*	19*
2	11	0 1.98	+ 3 34.5	2.003	1.408	27.1	21.4	41 E	31*	18*
2	16	0 17.80	+ 5 5.1	2.042	1.429	26.2	21.4	40 E	31*	18*
2	21	0 33.42	+ 6 33.3	2.082	1.450	25.3	21.5	39 E	30*	17*
			297839 2002 BE_{17}							
12	23	21 12.76	−14 14.7	2.969	2.389	17.2	21.0	46 E	26*	31*
1	2	21 31.12	−13 52.1	3.102	2.431	15.0	21.0	40 E	24*	25*
1	12	21 49.21	−13 19.9	3.225	2.472	12.9	21.1	34 E	21*	20*
1	22	22 7.00	−12 39.9	3.337	2.512	10.7	21.1	28 E	17*	15*
2	1	22 24.49	−11 53.9	3.436	2.552	8.4	21.1	22 E	12*	11*
2	11	22 41.64	−11 3.3	3.523	2.592	6.2	21.1	17 E	7*	7*
2	21	22 58.45	−10 9.8	3.595	2.631	4.1	21.0	11 E	2*	3*
3	2	23 14.91	− 9 14.6	3.653	2.669	2.2	21.0	6 E	—	—
3	12	23 31.02	− 8 19.1	3.695	2.707	1.8	21.0	5 E	—	—
3	22	23 46.76	− 7 24.6	3.722	2.744	3.4	21.2	9 W	—	2*
4	1	0 2.14	− 6 32.2	3.734	2.780	5.3	21.3	15 W	—	8*
4	11	0 17.13	− 5 43.2	3.730	2.816	7.3	21.4	21 W	—	14*
			111253 2001 XU_{10}							
12	23	21 13.20	+31 59.5	1.248	1.325	44.8	18.0	72 E	66*	7*
1	2	21 50.43	+35 35.0	1.311	1.389	42.6	18.2	73 E	66*	4*
1	12	22 29.76	+38 40.6	1.381	1.452	40.5	18.3	74 E	66*	2*
1	22	23 10.76	+41 12.6	1.462	1.515	38.5	18.5	74 E	65*	1*
1	27	23 31.69	+42 15.4	1.507	1.547	37.6	18.6	73 E	65*	1*
2	1	23 52.76	+43 9.3	1.554	1.578	36.7	18.6	73 E	64*	1*
2	6	0 13.85	+43 54.3	1.604	1.608	35.7	18.7	72 E	63*	1*
2	11	0 34.85	+44 30.7	1.656	1.639	34.8	18.8	72 E	62*	1*
2	16	0 55.67	+44 58.7	1.711	1.669	34.0	18.9	71 E	62*	2*
2	21	1 16.21	+45 18.8	1.769	1.698	33.1	19.0	70 E	61*	2*
2	26	1 36.39	+45 31.7	1.828	1.728	32.2	19.1	68 E	60*	3*
3	2	1 56.14	+45 37.8	1.890	1.756	31.3	19.1	67 E	59*	3*
3	7	2 15.39	+45 37.9	1.953	1.785	30.4	19.2	65 E	57*	4*
3	12	2 34.12	+45 32.4	2.017	1.812	29.5	19.3	64 E	56*	4*
3	17	2 52.30	+45 21.9	2.083	1.840	28.5	19.4	62 E	55*	5*
3	22	3 9.92	+45 7.1	2.150	1.866	27.6	19.4	60 E	53*	5*
3	27	3 26.98	+44 48.3	2.217	1.893	26.6	19.5	58 E	52*	6*
4	1	3 43.49	+44 26.1	2.284	1.918	25.7	19.6	56 E	50*	6*

19/21		α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			111253 2001 XU_{10}				*(continuation)*			
		h m	° ′			°	m	°	°	°
4	6	3 59.44	+44 0.9	2.352	1.944	24.7	19.6	54 E	48*	7*
4	11	4 14.86	+43 32.9	2.419	1.968	23.7	19.7	52 E	46*	7*
4	16	4 29.77	+43 2.6	2.486	1.992	22.6	19.8	50 E	44*	8*
4	21	4 44.20	+42 30.1	2.552	2.016	21.6	19.8	48 E	42*	8*
4	26	4 58.16	+41 55.6	2.617	2.039	20.6	19.9	45 E	39*	8*
5	1	5 11.68	+41 19.5	2.680	2.062	19.5	19.9	43 E	37*	8*
5	11	5 37.45	+40 2.7	2.802	2.105	17.3	20.0	38 E	32*	8*
5	21	6 1.69	+38 40.6	2.916	2.146	15.1	20.0	34 E	27*	8*
5	31	6 24.56	+37 14.1	3.021	2.185	12.8	20.1	29 E	22*	7*
6	10	6 46.17	+35 43.6	3.113	2.222	10.6	20.1	24 E	17*	5*
6	20	7 6.65	+34 9.6	3.194	2.257	8.4	20.1	19 E	12*	2*
6	30	7 26.10	+32 32.5	3.260	2.289	6.3	20.1	14 E	8*	—
7	10	7 44.58	+30 52.4	3.312	2.320	4.6	20.0	11 E	5*	—
7	20	8 2.19	+29 9.6	3.348	2.348	3.7	20.0	9 E	1*	—
7	30	8 18.96	+27 24.4	3.368	2.374	4.2	20.1	10 W	4*	—
8	9	8 34.92	+25 36.9	3.371	2.398	5.7	20.2	14 W	8*	—
8	19	8 50.13	+23 47.2	3.357	2.420	7.7	20.3	19 W	12*	2*
8	29	9 4.58	+21 55.5	3.326	2.440	9.7	20.4	24 W	17*	6*
9	8	9 18.26	+20 2.1	3.278	2.457	11.8	20.4	30 W	23*	11*
9	18	9 31.16	+18 6.9	3.213	2.473	13.8	20.5	36 W	28*	15*
9	28	9 43.24	+16 10.2	3.132	2.487	15.8	20.5	42 W	34*	19*
10	8	9 54.43	+14 12.1	3.036	2.498	17.6	20.5	49 W	40*	23*
10	18	10 4.64	+12 12.5	2.926	2.507	19.2	20.5	56 W	44*	28*
10	28	10 13.72	+10 11.8	2.804	2.515	20.6	20.5	63 W	48*	34*
11	7	10 21.53	+ 8 9.8	2.670	2.520	21.8	20.4	71 W	51*	39*
11	17	10 27.83	+ 6 6.8	2.529	2.523	22.6	20.3	78 W	51*	46*
11	27	10 32.32	+ 4 2.9	2.381	2.525	23.0	20.2	87 W	49	52*
12	7	10 34.67	+ 1 58.4	2.232	2.524	22.9	20.0	95 W	47	59*
12	17	10 34.46	− 0 5.9	2.083	2.521	22.2	19.9	105 W	45	64*
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
			209924 2005 WS_{55}							
12	23	21 13.97	+ 1 44.0	3.026	2.556	17.9	21.5	53 E	41*	24*
1	2	21 27.50	+ 2 35.6	3.089	2.520	16.5	21.4	47 E	38*	17*
1	12	21 41.81	+ 3 38.1	3.139	2.481	15.1	21.4	41 E	34*	11*
1	22	21 56.81	+ 4 50.9	3.175	2.441	13.5	21.3	35 E	29*	5*
2	1	22 12.44	+ 6 13.8	3.197	2.400	12.0	21.2	30 E	24*	—
2	11	22 28.65	+ 7 46.1	3.206	2.357	10.5	21.2	26 E	19*	—
2	21	22 45.43	+ 9 27.1	3.200	2.312	9.1	21.1	22 E	14*	—
3	2	23 2.79	+11 16.3	3.181	2.265	8.1	21.0	19 E	9*	—
3	12	23 20.75	+13 12.8	3.150	2.217	7.4	20.9	17 W	7*	—
3	22	23 39.37	+15 15.7	3.107	2.167	7.3	20.8	16 W	9*	—
4	1	23 58.74	+17 24.1	3.053	2.115	7.8	20.7	17 W	11*	—
4	11	0 18.96	+19 36.6	2.989	2.062	8.8	20.6	18 W	12*	2*
4	21	0 40.16	+21 52.0	2.916	2.007	10.2	20.6	21 W	14*	5*
5	1	1 2.51	+24 8.6	2.836	1.951	11.8	20.5	23 W	15*	8*
5	11	1 26.20	+26 24.0	2.750	1.894	13.5	20.5	26 W	17*	11*
5	21	1 51.45	+28 35.7	2.659	1.835	15.3	20.4	29 W	19*	13*
5	26	2 4.73	+29 39.1	2.612	1.805	16.2	20.3	30 W	20*	14*
5	31	2 18.48	+30 40.3	2.564	1.775	17.2	20.3	31 W	21*	14*
6	5	2 32.72	+31 38.6	2.516	1.745	18.1	20.3	32 W	22*	15*
6	10	2 47.50	+32 33.5	2.467	1.714	19.1	20.2	33 W	23*	15*
6	15	3 2.83	+33 24.3	2.418	1.684	20.0	20.1	35 W	24*	15*
6	20	3 18.72	+34 10.4	2.369	1.653	21.0	20.1	36 W	25*	16*
6	25	3 35.19	+34 50.8	2.321	1.622	22.0	20.0	37 W	26*	16*
6	30	3 52.22	+35 24.8	2.272	1.592	22.9	20.0	38 W	27*	16*
7	5	4 9.80	+35 51.4	2.224	1.561	23.9	19.9	38 W	29*	16*
7	10	4 27.92	+36 9.8	2.176	1.530	24.8	19.9	39 W	30*	16*
7	15	4 46.54	+36 19.1	2.130	1.500	25.8	19.8	40 W	31*	16*
7	20	5 5.60	+36 18.3	2.084	1.470	26.7	19.7	41 W	32*	15*
7	25	5 25.02	+36 6.7	2.039	1.440	27.7	19.7	41 W	33*	15*
7	30	5 44.73	+35 43.4	1.995	1.410	28.6	19.6	42 W	33*	15*
8	4	6 4.63	+35 7.7	1.953	1.381	29.6	19.5	42 W	34*	15*
8	9	6 24.63	+34 19.3	1.912	1.353	30.5	19.5	43 W	35*	16*
8	14	6 44.64	+33 17.6	1.873	1.325	31.4	19.4	43 W	35*	16*
8	19	7 4.56	+32 2.5	1.836	1.299	32.2	19.4	43 W	35*	16*
8	24	7 24.31	+30 34.0	1.801	1.273	33.1	19.3	43 W	36*	16*
8	29	7 43.80	+28 52.3	1.767	1.249	33.9	19.2	44 W	36*	17*
9	8	8 21.86	+24 50.8	1.708	1.204	35.4	19.1	44 W	36*	18*
9	18	8 58.50	+20 3.0	1.658	1.167	36.7	19.0	44 W	35*	20*
9	28	9 33.70	+14 36.8	1.619	1.138	37.8	18.9	44 W	35*	22*
10	3	9 50.81	+11 42.2	1.604	1.126	38.2	18.9	44 W	34*	23*
10	8	10 7.63	+ 8 41.9	1.592	1.118	38.5	18.9	44 W	33*	24*
10	13	10 24.22	+ 5 37.3	1.582	1.112	38.7	18.9	44 W	32*	25*
10	18	10 40.61	+ 2 30.0	1.575	1.108	38.9	18.9	44 W	31*	27*
10	23	10 56.83	− 0 38.6	1.571	1.108	39.0	18.9	44 W	30*	28*
10	28	11 12.92	− 3 46.9	1.569	1.110	39.0	18.9	45 W	29*	29*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		209924 2005 WS_{55}				*(continuation)*			
	h m	° ′			°	m	°	°	°
11 2	11 28.94	− 6 53.3	1.570	1.115	38.9	18.9	45 W	28*	31*
11 7	11 44.90	− 9 56.5	1.572	1.122	38.8	18.9	45 W	26*	32*
11 12	12 0.85	−12 55.3	1.577	1.132	38.6	18.9	46 W	25*	33*
11 17	12 16.81	−15 48.4	1.583	1.144	38.4	18.9	46 W	23*	35*
11 22	12 32.78	−18 34.9	1.590	1.159	38.2	19.0	47 W	21*	36*
11 27	12 48.79	−21 13.8	1.599	1.176	37.9	19.0	47 W	20*	38*
12 2	13 4.83	−23 44.5	1.608	1.195	37.7	19.0	48 W	18*	39*
12 7	13 20.91	−26 6.6	1.617	1.216	37.4	19.1	49 W	16*	40*
12 17	13 53.14	−30 23.3	1.636	1.262	36.9	19.2	50 W	13*	43*
12 27	14 25.26	−34 2.4	1.652	1.313	36.5	19.3	53 W	10*	46*
1 6	14 57.01	−37 4.6	1.663	1.368	36.2	19.4	55 W	7*	49*
1 16	15 27.98	−39 32.2	1.668	1.426	36.0	19.5	58 W	5*	52*
		153267 2001 CB_{32}							
12 23	21 14.33	−21 28.4	0.799	0.692	82.3	19.4	44 E	19*	34*
12 28	21 34.85	−18 52.5	0.728	0.688	87.9	19.4	44 E	22*	33*
1 2	21 55.35	−15 47.1	0.658	0.695	93.2	19.4	45 E	24*	31*
1 7	22 16.05	−12 7.4	0.591	0.710	97.8	19.4	46 E	27*	30*
1 12	22 37.36	− 7 46.8	0.528	0.734	101.1	19.4	47 E	31*	29*
1 17	22 59.99	− 2 36.9	0.471	0.764	103.0	19.4	49 E	35*	27*
1 22	23 24.96	+ 3 30.5	0.421	0.801	102.8	19.2	53 E	41*	25*
1 27	23 53.60	+10 40.1	0.381	0.842	100.4	19.0	57 E	47*	24*
2 1	0 27.52	+18 43.6	0.352	0.886	95.7	18.7	63 E	55*	22*
2 3	0 42.96	+22 6.1	0.344	0.904	93.2	18.6	66 E	58*	21*
2 5	0 59.61	+25 29.2	0.338	0.923	90.5	18.5	69 E	62*	21*
2 7	1 17.54	+28 49.1	0.334	0.942	87.5	18.4	73 E	66*	20*
2 9	1 36.78	+32 1.2	0.333	0.961	84.4	18.3	76 E	69*	19*
2 11	1 57.30	+35 1.3	0.334	0.981	81.2	18.2	79 E	73*	19*
2 13	2 18.97	+37 45.1	0.338	1.001	78.0	18.2	82 E	76*	18*
2 15	2 41.61	+40 9.4	0.343	1.020	74.8	18.1	86 E	79*	18*
2 17	3 4.92	+42 11.6	0.351	1.040	71.7	18.1	89 E	83*	18*
2 19	3 28.56	+43 50.8	0.361	1.060	68.7	18.1	91 E	85*	17*
2 21	3 52.12	+45 7.0	0.373	1.080	66.0	18.2	94 E	88*	17*
2 22	4 3.74	+45 36.8	0.380	1.090	64.6	18.2	95 E	89*	17*
2 23	4 15.21	+46 1.4	0.387	1.100	63.4	18.2	96 E	89	17*
2 24	4 26.48	+46 21.1	0.394	1.110	62.1	18.2	97 E	89	17*
2 25	4 37.51	+46 36.1	0.402	1.120	61.0	18.2	98 E	88	17*
2 26	4 48.28	+46 46.8	0.410	1.130	59.8	18.3	99 E	88	17*
2 27	4 58.75	+46 53.5	0.418	1.140	58.8	18.3	100 E	88	17*
2 28	5 8.90	+46 56.6	0.427	1.150	57.7	18.3	101 E	88	17*
2 29	5 18.74	+46 56.4	0.436	1.160	56.7	18.4	102 E	88	17*
3 1	5 28.23	+46 53.2	0.446	1.170	55.8	18.4	102 E	88	17*
3 2	5 37.39	+46 47.3	0.456	1.180	54.9	18.5	103 E	88	17
3 4	5 54.69	+46 28.7	0.476	1.200	53.2	18.5	104 E	89	18
3 6	6 10.66	+46 2.7	0.497	1.220	51.7	18.6	105 E	89	18
3 8	6 25.37	+45 31.0	0.519	1.240	50.4	18.7	106 E	89	18
3 10	6 38.92	+44 55.2	0.542	1.259	49.1	18.8	106 E	90	19
3 12	6 51.40	+44 16.3	0.566	1.279	48.0	18.9	107 E	89	20
3 14	7 2.92	+43 35.4	0.591	1.299	47.0	19.0	107 E	89	20
3 16	7 13.57	+42 53.1	0.616	1.318	46.0	19.1	107 E	88	21
3 18	7 23.45	+42 10.0	0.642	1.337	45.2	19.2	108 E	87	22
3 20	7 32.64	+41 26.6	0.668	1.357	44.4	19.3	108 E	86	23
3 22	7 41.23	+40 43.0	0.696	1.376	43.7	19.4	107 E	86	23
3 24	7 49.28	+39 59.7	0.723	1.395	43.1	19.5	107 E	85	24
3 26	7 56.84	+39 16.7	0.751	1.413	42.5	19.6	107 E	84	25
3 28	8 3.98	+38 34.2	0.780	1.432	41.9	19.7	107 E	84	25
3 30	8 10.75	+37 52.3	0.809	1.451	41.4	19.8	106 E	83	26
4 1	8 17.17	+37 10.9	0.839	1.469	40.9	19.9	106 E	82	27
4 6	8 31.97	+35 30.6	0.914	1.515	39.8	20.1	104 E	81	28
4 11	8 45.30	+33 54.4	0.992	1.559	38.8	20.3	103 E	79	30
4 16	8 57.50	+32 22.3	1.073	1.603	37.9	20.5	101 E	77	32
4 21	9 8.83	+30 53.9	1.155	1.646	37.1	20.7	99 E	76*	33
4 26	9 19.48	+29 28.9	1.238	1.688	36.3	20.9	97 E	74*	35
5 1	9 29.57	+28 6.8	1.324	1.729	35.5	21.1	95 E	71*	36
5 6	9 39.21	+26 47.4	1.410	1.769	34.7	21.2	93 E	68*	37
5 11	9 48.48	+25 30.4	1.497	1.809	33.9	21.4	90 E	65*	38
		1374 Isora							
12 23	21 14.40	−13 16.2	2.165	1.650	25.6	17.3	46 E	27*	31*
1 2	21 40.24	−10 59.4	2.215	1.639	24.1	17.3	43 E	27*	26*
1 12	22 6.11	− 8 31.3	2.263	1.632	22.6	17.3	40 E	27*	22*
1 22	22 31.97	− 5 53.8	2.311	1.628	21.0	17.3	36 E	26*	18*
2 1	22 57.82	− 3 9.2	2.357	1.626	19.4	17.3	33 E	24*	15*
2 11	23 23.64	− 0 19.9	2.403	1.628	17.8	17.3	30 E	22*	12*
2 21	23 49.45	+ 2 31.3	2.448	1.633	16.1	17.3	27 E	20*	9*
3 2	0 15.32	+ 5 21.8	2.493	1.641	14.4	17.3	24 E	18*	7*
3 12	0 41.25	+ 8 9.1	2.537	1.652	12.6	17.3	21 E	15*	5*
3 22	1 7.30	+10 50.6	2.581	1.665	10.9	17.2	18 E	12*	3*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		1374 Isora				*(continuation)*			
	h m	° ′			°	m	°	°	°
4 1	1 33.50	+13 23.9	2.624	1.682	9.1	17.2	15 E	9*	1*
4 11	1 59.86	+15 46.8	2.665	1.700	7.3	17.2	13 E	6*	—
4 21	2 26.38	+17 57.4	2.704	1.721	5.6	17.2	10 E	4*	—
5 1	2 53.05	+19 54.1	2.741	1.744	3.9	17.2	7 E	1*	—
5 11	3 19.79	+21 35.4	2.775	1.769	2.4	17.1	4 E	—	—
5 21	3 46.56	+23 0.5	2.806	1.796	1.7	17.1	3 W	—	—
5 31	4 13.24	+24 8.6	2.832	1.824	2.7	17.3	5 W	—	—
6 10	4 39.72	+24 59.5	2.853	1.853	4.3	17.4	8 W	—	—
6 20	5 5.87	+25 33.4	2.869	1.884	6.1	17.5	11 W	2*	3*
6 30	5 31.57	+25 50.8	2.878	1.915	7.9	17.7	15 W	5*	6*
7 10	5 56.66	+25 52.4	2.881	1.946	9.7	17.8	19 W	9*	8*
7 20	6 21.05	+25 39.5	2.876	1.979	11.5	17.9	23 W	13*	11*
7 30	6 44.61	+25 13.2	2.862	2.012	13.3	18.0	27 W	17*	13*
8 9	7 7.25	+24 35.2	2.841	2.045	15.0	18.1	31 W	21*	15*
8 19	7 28.91	+23 46.9	2.810	2.078	16.6	18.1	36 W	26*	18*
8 29	7 49.49	+22 50.1	2.770	2.111	18.2	18.2	41 W	31*	20*
9 8	8 8.94	+21 46.6	2.720	2.144	19.7	18.2	46 W	36*	22*
9 18	8 27.22	+20 37.9	2.661	2.177	21.1	18.2	51 W	41*	25*
9 28	8 44.22	+19 26.1	2.593	2.209	22.3	18.3	57 W	46*	28*
10 8	8 59.89	+18 12.9	2.516	2.241	23.3	18.3	63 W	51*	31*
10 18	9 14.11	+17 0.1	2.431	2.273	24.2	18.2	69 W	55*	34*
10 28	9 26.73	+15 49.7	2.338	2.304	24.7	18.2	76 W	58*	37*
11 7	9 37.61	+14 43.7	2.240	2.335	24.9	18.1	83 W	60*	41*
11 17	9 46.51	+13 44.3	2.138	2.365	24.7	18.1	91 W	59	45*
11 27	9 53.18	+12 53.5	2.035	2.395	24.0	18.0	99 W	58	49*
12 7	9 57.34	+12 13.6	1.933	2.423	22.8	17.8	108 W	57	51*
12 17	9 58.70	+11 46.6	1.836	2.451	20.9	17.7	118 W	57	52
12 27	9 57.02	+11 34.1	1.749	2.479	18.2	17.5	128 W	57	52
1 6	9 52.25	+11 36.4	1.676	2.505	14.8	17.3	139 W	57	52
1 16	9 44.58	+11 52.7	1.623	2.531	10.7	17.1	151 W	57	52
		38086 Beowulf							
12 23	21 14.66	−29 35.6	0.906	0.698	74.3	19.0	43 E	12*	36*
12 25	21 29.45	−29 57.6	0.892	0.714	74.7	19.0	44 E	12*	37*
12 27	21 44.40	−30 14.3	0.878	0.729	74.8	19.0	46 E	12*	39*
12 29	21 59.47	−30 25.3	0.866	0.746	74.8	19.1	47 E	12*	40*
12 31	22 14.63	−30 30.4	0.856	0.763	74.6	19.1	48 E	12*	41*
1 2	22 29.83	−30 29.4	0.846	0.781	74.2	19.1	50 E	13*	43*
1 7	23 7.67	−29 59.0	0.830	0.828	72.8	19.1	54 E	14*	47*
1 12	23 44.66	−28 49.7	0.822	0.876	70.7	19.2	57 E	15*	50*
1 17	0 20.05	−27 5.2	0.824	0.925	68.2	19.2	61 E	17*	53*
1 22	0 53.33	−24 52.1	0.834	0.974	65.4	19.3	64 E	20*	56*
1 27	1 24.20	−22 18.4	0.853	1.024	62.5	19.3	67 E	22*	59*
2 1	1 52.60	−19 32.4	0.879	1.073	59.6	19.4	70 E	25*	60*
2 6	2 18.62	−16 41.4	0.913	1.121	56.9	19.5	72 E	28*	61*
2 11	2 42.46	−13 51.3	0.953	1.169	54.3	19.6	74 E	31*	62*
2 16	3 4.38	−11 6.5	0.999	1.216	51.9	19.7	75 E	33*	61*
2 21	3 24.62	− 8 29.7	1.051	1.261	49.6	19.9	76 E	36*	61*
2 26	3 43.43	− 6 2.9	1.107	1.306	47.6	20.0	77 E	38*	60*
3 2	4 1.02	− 3 46.9	1.168	1.349	45.7	20.1	77 E	40*	59*
3 12	4 33.23	+ 0 11.7	1.299	1.433	42.3	20.4	76 E	42*	56*
3 22	5 2.39	+ 3 27.8	1.440	1.511	39.4	20.7	74 E	43*	54*
4 1	5 29.34	+ 6 5.5	1.589	1.585	36.7	20.9	71 E	42*	51*
4 11	5 54.60	+ 8 9.7	1.741	1.655	34.2	21.1	68 E	41*	49*
4 21	6 18.56	+ 9 44.9	1.895	1.719	31.8	21.3	64 E	37*	47*
5 1	6 41.47	+10 55.0	2.048	1.780	29.5	21.5	60 E	33*	44*
		111346 2001 XS_{103}							
12 23	21 14.75	−14 37.3	2.098	1.583	26.6	20.4	46 E	26*	32*
1 2	21 42.62	−12 36.7	2.150	1.580	25.1	20.4	43 E	26*	27*
1 12	22 10.29	−10 22.8	2.203	1.579	23.5	20.4	40 E	26*	24*
1 22	22 37.70	− 7 58.3	2.255	1.582	21.9	20.4	37 E	25*	20*
2 1	23 4.83	− 5 25.8	2.308	1.588	20.2	20.4	34 E	24*	17*
2 11	23 31.68	− 2 48.3	2.361	1.597	18.5	20.4	31 E	22*	15*
2 21	23 58.28	− 0 8.6	2.414	1.609	16.8	20.4	28 E	20*	12*
3 2	0 24.67	+ 2 30.4	2.466	1.624	15.0	20.4	25 E	17*	10*
3 12	0 50.89	+ 5 6.1	2.518	1.641	13.2	20.4	22 E	14*	9*
3 22	1 16.98	+ 7 36.1	2.569	1.660	11.3	20.4	19 E	12*	7*
4 1	1 43.00	+ 9 58.1	2.619	1.681	9.5	20.4	16 E	8*	5*
4 11	2 8.95	+12 10.2	2.667	1.705	7.6	20.4	13 E	5*	3*
4 21	2 34.85	+14 10.8	2.712	1.730	5.7	20.4	10 E	2*	2*
5 1	3 0.70	+15 58.4	2.754	1.756	3.8	20.4	7 E	—	—
5 11	3 26.46	+17 32.0	2.791	1.784	1.9	20.3	3 E	—	—
5 21	3 52.09	+18 50.8	2.825	1.813	0.7	20.3	1 E	—	—
5 31	4 17.52	+19 54.3	2.853	1.843	2.2	20.5	4 W	—	—
6 10	4 42.67	+20 42.5	2.875	1.873	4.1	20.6	8 W	—	1*
6 20	5 7.47	+21 15.3	2.891	1.904	6.0	20.8	11 W	—	5*
6 30	5 31.80	+21 33.3	2.900	1.936	7.8	20.9	15 W	2*	8*
7 10	5 55.58	+21 37.1	2.900	1.967	9.7	21.0	19 W	6*	11*
7 20	6 18.73	+21 27.6	2.893	1.999	11.5	21.1	23 W	10*	14*
7 30	6 41.14	+21 5.9	2.877	2.031	13.3	21.2	27 W	15*	16*

111346 2001 XS_{103} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 9	7 2.74	+20 33.2	2.851	2.062	15.1	21.3	32 W	19*	19*
8 19	7 23.47	+19 50.8	2.816	2.094	16.8	21.3	37 W	25*	21*
8 29	7 43.24	+19 0.3	2.772	2.125	18.4	21.4	42 W	30*	24*
9 8	8 2.01	+18 3.1	2.718	2.155	19.9	21.4	47 W	35*	26*
9 18	8 19.69	+17 0.9	2.654	2.185	21.3	21.5	52 W	40*	29*
9 28	8 36.21	+15 55.2	2.581	2.215	22.5	21.5	58 W	45*	31*
10 8	8 51.47	+14 47.9	2.499	2.243	23.5	21.5	64 W	50*	34*
10 18	9 5.37	+13 40.7	2.409	2.272	24.4	21.4	70 W	53*	38*
10 28	9 17.72	+12 35.7	2.312	2.299	24.9	21.4	77 W	56*	41*
11 7	9 28.38	+11 35.1	2.210	2.326	25.1	21.3	84 W	57*	45*
11 17	9 37.11	+10 41.0	2.104	2.352	24.8	21.2	92 W	56	49*
11 27	9 43.62	+ 9 56.0	1.997	2.377	24.1	21.1	100 W	55	52*
12 7	9 47.65	+ 9 22.8	1.891	2.401	22.8	21.0	109 W	54	55*
12 17	9 48.89	+ 9 3.9	1.792	2.425	20.8	20.8	119 W	54	55
12 27	9 47.10	+ 9 1.5	1.702	2.447	18.1	20.6	129 W	54	55
1 6	9 42.24	+ 9 16.8	1.628	2.469	14.6	20.4	141 W	54	55
1 16	9 34.52	+ 9 49.3	1.574	2.489	10.4	20.2	153 W	55	54

102910 1999 XT_{19}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 17.19	−12 9.2	2.123	1.628	26.4	19.4	47 E	28*	31*
1 2	21 44.57	−10 10.7	2.191	1.638	24.8	19.4	44 E	28*	27*
1 12	22 11.54	− 8 1.4	2.260	1.650	23.1	19.5	41 E	28*	23*
1 22	22 38.06	− 5 44.1	2.329	1.666	21.3	19.5	38 E	27*	19*
2 1	23 4.14	− 3 21.1	2.399	1.684	19.4	19.5	35 E	25*	16*
2 11	23 29.78	− 0 55.2	2.468	1.704	17.5	19.5	31 E	23*	13*
2 21	23 55.01	+ 1 31.2	2.536	1.727	15.6	19.6	28 E	20*	11*
3 2	0 19.90	+ 3 55.8	2.603	1.751	13.6	19.6	25 E	17*	9*
3 12	0 44.48	+ 6 16.6	2.668	1.778	11.6	19.6	21 E	14*	7*
3 22	1 8.79	+ 8 31.6	2.730	1.806	9.6	19.6	18 E	11*	5*
4 1	1 32.89	+10 39.4	2.789	1.835	7.6	19.6	14 E	7*	3*
4 11	1 56.79	+12 38.5	2.843	1.866	5.5	19.6	10 E	4*	1*
4 21	2 20.52	+14 27.7	2.892	1.897	3.5	19.5	7 E	—	—
5 1	2 44.08	+16 6.1	2.935	1.929	1.4	19.5	3 E	—	—
5 11	3 7.44	+17 32.8	2.972	1.962	0.6	19.4	1 W	—	—
5 21	3 30.60	+18 47.4	3.002	1.996	2.6	19.7	5 W	—	—
5 31	3 53.49	+19 49.6	3.023	2.029	4.6	19.8	9 W	—	3*
6 10	4 16.06	+20 39.1	3.037	2.063	6.6	20.0	14 W	—	7*
6 20	4 38.25	+21 16.1	3.041	2.097	8.5	20.1	18 W	3*	11*
6 30	4 59.98	+21 40.8	3.036	2.131	10.4	20.2	22 W	7*	14*
7 10	5 21.16	+21 53.7	3.021	2.164	12.3	20.3	27 W	12*	17*
7 20	5 41.70	+21 55.4	2.996	2.198	14.1	20.4	32 W	17*	20*
7 30	6 1.52	+21 46.7	2.961	2.231	15.8	20.5	37 W	22*	23*
8 9	6 20.50	+21 28.4	2.915	2.264	17.4	20.5	42 W	27*	25*
8 19	6 38.57	+21 1.7	2.859	2.296	18.9	20.5	47 W	33*	28*
8 29	6 55.59	+20 27.6	2.793	2.327	20.2	20.6	53 W	39*	30*
9 8	7 11.45	+19 47.6	2.718	2.358	21.4	20.6	59 W	45*	33*
9 18	7 26.03	+19 3.0	2.633	2.389	22.4	20.6	65 W	50*	35*
9 28	7 39.17	+18 15.3	2.541	2.419	23.1	20.5	72 W	55*	38*
10 8	7 50.68	+17 26.2	2.441	2.448	23.6	20.5	79 W	59*	41*
10 18	8 0.37	+16 37.4	2.337	2.476	23.7	20.4	86 W	61*	44*
10 28	8 7.97	+15 51.0	2.230	2.504	23.3	20.3	94 W	61	46*
11 7	8 13.23	+15 8.8	2.122	2.530	22.5	20.2	103 W	60	48*
11 17	8 15.87	+14 33.0	2.018	2.556	21.0	20.1	112 W	60	49
11 27	8 15.63	+14 5.6	1.921	2.581	19.0	19.9	122 W	59	50
12 7	8 12.37	+13 48.2	1.836	2.605	16.2	19.8	133 W	59	50
12 17	8 6.15	+13 41.7	1.768	2.629	12.7	19.6	144 W	59	50
12 27	7 57.34	+13 46.1	1.723	2.651	8.7	19.4	156 W	59	50
1 6	7 46.74	+14 0.0	1.704	2.673	4.6	19.2	167 W	59	50
1 16	7 35.41	+14 20.8	1.715	2.693	2.8	19.1	172 E	59	50

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 17.45	− 2 25.2	1.193	0.966	53.0	20.6	52 E	37*	27*
12 28	21 42.98	+ 0 20.4	1.230	1.022	50.8	20.7	54 E	40*	26*
1 2	22 6.99	+ 2 56.0	1.275	1.078	48.5	20.8	55 E	43*	26*
1 7	22 29.56	+ 5 20.6	1.327	1.133	46.3	20.9	56 E	45*	25*
1 12	22 50.80	+ 7 33.7	1.385	1.186	44.1	21.1	57 E	46*	24*
1 17	23 10.84	+ 9 35.7	1.447	1.239	42.1	21.2	58 E	47*	23*
1 22	23 29.78	+11 27.3	1.514	1.290	40.1	21.3	58 E	48*	22*
1 27	23 47.75	+13 9.3	1.585	1.340	38.2	21.5	57 E	49*	21*

112221 2002 KH_4

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 18.03	+32 10.1	2.528	2.423	22.8	20.5	73 E	67*	8*
1 2	21 41.05	+31 16.7	2.655	2.470	21.7	20.6	68 E	62*	5*
1 12	22 3.33	+30 38.2	2.786	2.515	20.6	20.7	64 E	57*	2*
1 22	22 24.88	+30 13.4	2.918	2.559	19.3	20.8	59 E	52*	—
2 1	22 45.72	+30 0.9	3.048	2.601	17.9	20.9	54 E	46*	—
2 11	23 5.89	+29 59.3	3.176	2.642	16.5	21.0	49 E	40*	—
2 21	23 25.41	+30 6.8	3.297	2.682	15.0	21.1	44 E	34*	—
3 2	23 44.34	+30 22.1	3.410	2.721	13.4	21.1	40 E	29*	—
3 12	0 2.70	+30 43.5	3.513	2.758	11.9	21.2	35 E	23*	—
3 22	0 20.53	+31 9.6	3.603	2.794	10.5	21.2	31 E	18*	—
4 1	0 37.85	+31 39.4	3.681	2.828	9.3	21.2	27 W	14*	—

112221 2002 KH_4 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 11	0 54.66	+32 11.4	3.743	2.862	8.4	21.2	25 W	15*	—
4 21	1 10.98	+32 44.8	3.789	2.894	7.9	21.3	23 W	16*	—
5 1	1 26.80	+33 18.8	3.819	2.924	8.0	21.3	24 W	18*	—
5 11	1 42.08	+33 52.3	3.831	2.954	8.5	21.4	26 W	19*	4*
5 21	1 56.81	+34 24.9	3.825	2.982	9.5	21.4	29 W	22*	8*
5 31	2 10.92	+34 55.9	3.802	3.008	10.7	21.5	33 W	25*	13*

1943 Anteros

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 18.63	− 8 45.8	2.010	1.555	28.6	19.5	49 E	32*	30*
1 2	21 45.22	− 6 51.8	2.106	1.586	26.4	19.6	46 E	32*	26*
1 12	22 10.88	− 4 51.4	2.200	1.615	24.2	19.6	42 E	31*	21*
1 22	22 35.75	− 2 46.3	2.290	1.642	22.0	19.7	39 E	29*	17*
2 1	22 59.97	− 0 38.2	2.376	1.667	19.8	19.7	35 E	27*	14*
2 11	23 23.66	+ 1 31.6	2.455	1.690	17.6	19.8	31 E	24*	11*
2 21	23 46.92	+ 3 41.5	2.529	1.711	15.4	19.8	27 E	21*	8*
3 2	0 9.90	+ 5 50.3	2.594	1.730	13.1	19.8	23 E	17*	6*
3 12	0 32.67	+ 7 56.6	2.652	1.746	10.9	19.8	19 E	13*	3*
3 22	0 55.35	+ 9 59.4	2.700	1.760	8.7	19.7	15 E	9*	1*
4 1	1 18.02	+11 57.4	2.740	1.772	6.5	19.7	12 E	6*	—
4 11	1 40.75	+13 49.6	2.770	1.782	4.3	19.6	8 E	2*	—
4 21	2 3.62	+15 34.7	2.790	1.789	2.4	19.5	4 E	—	—
5 1	2 26.70	+17 11.8	2.800	1.794	1.5	19.5	3 W	—	—
5 11	2 50.01	+18 39.7	2.799	1.796	3.0	19.6	5 W	—	—
5 21	3 13.61	+19 57.3	2.789	1.796	5.0	19.7	9 W	—	2*
5 31	3 37.51	+21 3.7	2.769	1.794	7.2	19.8	13 W	1*	6*
6 10	4 1.70	+21 57.7	2.739	1.790	9.3	19.8	17 W	4*	9*
6 20	4 26.19	+22 38.5	2.700	1.783	11.5	19.9	20 W	6*	12*
6 30	4 50.94	+23 5.2	2.651	1.774	13.6	19.9	24 W	10*	15*
7 10	5 15.90	+23 16.8	2.593	1.762	15.7	19.9	28 W	13*	17*
7 20	5 41.04	+23 12.7	2.528	1.748	17.8	19.9	32 W	17*	19*
7 30	6 6.30	+22 52.2	2.454	1.732	19.9	19.9	36 W	22*	21*
8 9	6 31.61	+22 15.0	2.374	1.714	22.0	19.9	39 W	26*	23*
8 19	6 56.93	+21 20.5	2.287	1.693	24.0	19.8	43 W	30*	25*
8 29	7 22.21	+20 8.4	2.194	1.671	26.1	19.8	47 W	34*	26*
9 8	7 47.42	+18 38.7	2.097	1.646	28.1	19.7	50 W	38*	28*
9 18	8 12.57	+16 51.2	1.996	1.619	30.0	19.6	54 W	41*	30*
9 28	8 37.65	+14 45.8	1.892	1.590	32.0	19.5	57 W	44*	32*
10 8	9 2.74	+12 22.6	1.787	1.559	33.9	19.4	60 W	46*	34*
10 18	9 27.92	+ 9 41.6	1.680	1.527	35.8	19.3	64 W	47*	37*
10 28	9 53.29	+ 6 42.9	1.574	1.493	37.7	19.1	67 W	48*	40*
11 7	10 19.05	+ 3 26.9	1.470	1.457	39.6	19.0	70 W	47*	43*
11 17	10 45.43	− 0 6.0	1.368	1.421	41.5	18.8	72 W	44*	47*
11 27	11 12.71	− 3 54.5	1.271	1.384	43.4	18.7	74 W	41*	51*
12 7	11 41.28	− 7 56.8	1.178	1.346	45.4	18.5	76 W	37	56*
12 12	11 56.20	−10 2.2	1.134	1.327	46.4	18.4	77 W	35	58*
12 17	12 11.62	−12 9.7	1.092	1.308	47.4	18.3	78 W	33	60*
12 22	12 27.62	−14 18.6	1.052	1.289	48.4	18.2	78 W	31	63*
12 27	12 44.28	−16 27.8	1.014	1.270	49.5	18.1	79 W	29	65*
1 1	13 1.68	−18 36.5	0.978	1.251	50.5	18.1	79 W	26	67*
1 6	13 19.91	−20 43.1	0.944	1.233	51.6	18.0	80 W	24	69*
1 11	13 39.05	−22 46.3	0.913	1.215	52.7	17.9	80 W	22	71*
1 16	13 59.15	−24 44.0	0.883	1.198	53.9	17.8	80 W	20	72*

183581 2003 SY_{84}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 19.32	− 4 37.1	2.129	1.692	26.9	19.0	51 E	36*	28*
1 2	21 47.47	− 4 7.8	2.235	1.731	24.8	19.1	48 E	34*	25*
1 12	22 14.58	− 3 25.2	2.345	1.771	22.6	19.2	44 E	32*	22*
1 22	22 40.65	− 2 32.2	2.456	1.814	20.4	19.3	40 E	30*	18*
2 1	23 5.74	− 1 31.4	2.566	1.858	18.1	19.3	36 E	27*	16*
2 11	23 29.90	− 0 25.3	2.673	1.904	15.7	19.4	32 E	23*	13*
2 21	23 53.22	+ 0 43.8	2.777	1.951	13.4	19.4	27 E	19*	11*
3 2	0 15.78	+ 1 54.0	2.875	1.998	11.1	19.5	23 E	15*	9*
3 12	0 37.65	+ 3 3.4	2.966	2.046	8.8	19.5	18 E	11*	7*
3 22	0 58.90	+ 4 10.5	3.049	2.095	6.5	19.5	14 E	6*	4*
4 1	1 19.59	+ 5 14.0	3.123	2.143	4.4	19.5	9 E	1*	2*
4 11	1 39.76	+ 6 12.7	3.187	2.191	2.6	19.5	6 E	—	—
4 21	1 59.44	+ 7 5.4	3.240	2.240	2.2	19.6	5 E	—	—
5 1	2 18.66	+ 7 51.4	3.281	2.288	3.5	19.7	8 W	—	—
5 11	2 37.40	+ 8 29.7	3.311	2.336	5.4	19.9	13 W	—	6*
5 21	2 55.67	+ 8 59.7	3.328	2.383	7.4	20.0	18 W	—	11*
5 31	3 13.44	+ 9 20.8	3.333	2.430	9.3	20.2	23 W	—	17*
6 10	3 30.66	+ 9 32.4	3.326	2.476	11.1	20.3	28 W	—	22*
6 20	3 47.29	+ 9 34.2	3.306	2.521	12.9	20.4	33 W	4*	27*
6 30	4 3.25	+ 9 25.8	3.274	2.566	14.5	20.4	39 W	8*	32*
7 10	4 18.47	+ 9 6.9	3.230	2.610	16.0	20.5	45 W	14*	37*
7 20	4 32.85	+ 8 37.3	3.175	2.653	17.3	20.5	51 W	19*	41*
7 30	4 46.26	+ 7 56.9	3.110	2.696	18.4	20.6	57 W	26*	45*
8 9	4 58.58	+ 7 5.5	3.035	2.738	19.4	20.6	64 W	32*	49*
8 19	5 9.66	+ 6 3.3	2.953	2.778	20.0	20.6	70 W	37*	53*
8 29	5 19.32	+ 4 50.5	2.864	2.818	20.5	20.5	77 W	42*	56*
9 8	5 27.36	+ 3 27.5	2.772	2.857	20.5	20.5	85 W	45*	59*

183581 2003 SY_{84} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 18	5 33.58	+ 1 55.1	2.677	2.895	20.3	20.5	92 W	46*	62*
9 28	5 37.75	+ 0 14.7	2.584	2.933	19.7	20.4	100 W	45	64
10 8	5 39.68	− 1 31.6	2.496	2.969	18.6	20.3	109 W	43	66
10 18	5 39.20	− 3 20.8	2.417	3.004	17.2	20.2	117 W	42	67
10 28	5 36.25	− 5 8.6	2.351	3.039	15.4	20.1	126 W	40	69
11 2	5 33.87	− 6 0.4	2.324	3.055	14.5	20.1	130 W	39	70
11 7	5 30.93	− 6 49.7	2.302	3.072	13.5	20.0	134 W	38	71
11 12	5 27.47	− 7 35.7	2.285	3.088	12.5	20.0	138 W	37	72
11 17	5 23.55	− 8 17.8	2.274	3.104	11.6	20.0	141 W	37	72
11 22	5 19.25	− 8 55.1	2.269	3.120	10.8	19.9	144 W	36	73
11 27	5 14.67	− 9 26.9	2.271	3.136	10.2	19.9	146 W	36	73
12 7	5 5.08	−10 12.4	2.294	3.167	9.7	19.9	147 W	35	74
12 17	4 55.62	−10 32.1	2.344	3.196	10.3	20.0	144 E	34	75
12 27	4 47.15	−10 26.5	2.419	3.225	11.6	20.2	139 E	35	74
1 6	4 40.31	− 9 58.7	2.517	3.253	13.1	20.3	131 E	35	74
1 16	4 35.49	− 9 13.2	2.635	3.279	14.5	20.5	123 E	36	73

286079 2001 TW_1

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 19.64	−25 51.0	1.322	0.929	48.0	21.5	45 E	16*	36*
12 28	21 43.32	−22 35.6	1.366	0.975	46.0	21.6	46 E	19*	36*
1 2	22 4.41	−19 21.9	1.414	1.017	44.1	21.7	46 E	22*	35*
1 7	22 23.37	−16 13.2	1.466	1.057	42.1	21.8	46 E	24*	33*
1 12	22 40.62	−13 11.6	1.520	1.095	40.2	21.9	46 E	26*	31*

163051 2001 YJ_4

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 19.70	− 7 35.4	2.885	2.372	18.5	21.4	50 E	33*	30*
1 2	21 36.50	− 6 25.8	3.042	2.433	16.3	21.5	44 E	31*	23*
1 12	21 52.89	− 5 11.4	3.190	2.492	14.1	21.6	38 E	28*	17*
1 22	22 8.89	− 3 52.9	3.326	2.550	11.9	21.7	32 E	24*	12*
2 1	22 24.51	− 2 31.1	3.449	2.605	9.7	21.7	27 E	20*	7*

333416 2003 AG_2

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 19.75	− 0 47.8	2.238	1.822	25.5	20.3	53 E	39*	27*
1 2	21 40.39	+ 1 8.7	2.276	1.786	24.4	20.3	49 E	38*	21*
1 12	22 2.03	+ 3 16.4	2.308	1.752	23.3	20.2	45 E	37*	16*
1 22	22 24.63	+ 5 34.3	2.335	1.719	22.1	20.2	41 E	34*	11*
2 1	22 48.21	+ 8 1.1	2.356	1.689	20.9	20.1	38 E	32*	7*
2 11	23 12.77	+10 34.9	2.374	1.661	19.8	20.1	35 E	29*	4*
2 21	23 38.35	+13 13.1	2.389	1.635	18.6	20.0	32 E	26*	2*
3 2	0 5.03	+15 52.9	2.402	1.613	17.5	20.0	29 E	23*	—
3 12	0 32.83	+18 30.7	2.415	1.594	16.4	19.9	27 E	20*	—
3 22	1 1.81	+21 2.5	2.428	1.578	15.2	19.9	25 E	18*	—
4 1	1 31.98	+23 24.2	2.443	1.566	14.1	19.8	22 E	16*	—
4 11	2 3.29	+25 31.4	2.459	1.557	12.9	19.8	20 E	14*	—
4 21	2 35.63	+27 19.8	2.477	1.553	11.6	19.7	18 E	12*	—
5 1	3 8.80	+28 45.9	2.497	1.553	10.3	19.7	16 E	10*	—
5 11	3 42.51	+29 46.5	2.519	1.557	8.9	19.7	14 E	8*	—
5 21	4 16.41	+30 19.8	2.543	1.564	7.5	19.6	12 E	5*	—
5 31	4 50.11	+30 25.0	2.568	1.576	6.0	19.6	9 E	3*	—
6 10	5 23.19	+30 2.7	2.593	1.591	4.7	19.6	7 E	1*	—
6 20	5 55.35	+29 14.3	2.618	1.610	3.7	19.6	6 E	—	—
6 30	6 26.30	+28 2.2	2.642	1.633	3.3	19.6	5 W	—	—
7 10	6 55.85	+26 28.9	2.664	1.658	4.0	19.7	7 W	—	—
7 20	7 23.94	+24 37.6	2.682	1.685	5.3	19.8	9 W	2*	—
7 30	7 50.52	+22 31.1	2.697	1.715	6.9	19.9	12 W	4*	2*
8 9	8 15.62	+20 12.1	2.707	1.748	8.6	20.1	15 W	7*	5*
8 19	8 39.32	+17 43.2	2.711	1.782	10.4	20.2	19 W	10*	8*
8 29	9 1.69	+15 6.4	2.709	1.817	12.2	20.3	22 W	13*	11*
9 8	9 22.81	+12 23.7	2.700	1.854	14.0	20.4	26 W	17*	14*
9 18	9 42.77	+ 9 36.6	2.684	1.892	15.8	20.5	31 W	21*	17*
9 28	10 1.62	+ 6 46.4	2.659	1.930	17.4	20.6	35 W	24*	20*
10 8	10 19.41	+ 3 54.3	2.627	1.969	19.0	20.6	40 W	28*	24*
10 18	10 36.16	+ 1 1.1	2.585	2.008	20.5	20.7	45 W	31*	28*
10 28	10 51.86	− 1 52.1	2.536	2.048	21.9	20.7	50 W	33*	33*
11 7	11 6.47	− 4 44.8	2.478	2.088	23.1	20.8	56 W	35*	38*
11 17	11 19.91	− 7 36.3	2.412	2.127	24.1	20.8	62 W	35*	44*
11 27	11 32.06	−10 25.9	2.340	2.167	24.9	20.8	68 W	34*	51*
12 7	11 42.76	−13 12.8	2.262	2.206	25.4	20.8	74 W	32	58*
12 17	11 51.78	−15 56.3	2.178	2.245	25.7	20.7	81 W	29	66*
12 27	11 58.82	−18 34.8	2.093	2.283	25.5	20.7	88 W	26	75*
1 6	12 3.57	−21 6.6	2.006	2.321	24.9	20.6	96 W	24	84*
1 16	12 5.66	−23 28.9	1.922	2.358	23.9	20.5	104 W	22	87

143678 2003 SA_{224}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 21.20	−20 54.9	2.744	2.176	18.9	21.1	46 E	20*	35*
1 2	21 38.34	−18 57.3	2.825	2.167	17.0	21.1	40 E	20*	29*
1 12	21 55.63	−16 55.1	2.894	2.157	15.0	21.1	34 E	18*	23*
1 22	22 13.04	−14 48.3	2.951	2.144	12.8	21.1	29 E	16*	17*
2 1	22 30.55	−12 37.1	2.995	2.129	10.7	21.0	24 E	13*	13*
2 11	22 48.15	−10 21.7	3.026	2.112	8.4	20.9	18 E	9*	8*

143678 2003 SA_{224} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 21	23 5.84	− 8 2.6	3.044	2.093	6.1	20.8	13 E	5*	4*
3 2	23 23.65	− 5 40.0	3.048	2.072	3.8	20.7	8 E	1*	—
3 12	23 41.61	− 3 14.3	3.040	2.049	1.5	20.5	3 E	—	—
3 22	23 59.77	− 0 45.9	3.019	2.024	1.0	20.4	2 W	—	—
4 1	0 18.19	+ 1 44.8	2.986	1.997	3.3	20.5	7 W	—	1*
4 11	0 36.92	+ 4 17.2	2.941	1.968	5.6	20.6	11 W	—	5*
4 21	0 56.08	+ 6 51.0	2.886	1.937	8.0	20.6	16 W	—	9*
5 1	1 15.76	+ 9 25.6	2.821	1.904	10.3	20.6	20 W	3*	13*
5 11	1 36.05	+12 0.3	2.747	1.869	12.7	20.6	24 W	5*	17*
5 21	1 57.12	+14 34.5	2.665	1.833	15.0	20.6	28 W	8*	20*
5 31	2 19.10	+17 7.3	2.577	1.795	17.3	20.5	32 W	11*	23*
6 10	2 42.17	+19 37.4	2.483	1.755	19.5	20.5	35 W	15*	25*
6 20	3 6.54	+22 3.5	2.384	1.714	21.8	20.4	39 W	19*	26*
6 30	3 32.41	+24 23.5	2.282	1.671	24.0	20.3	42 W	24*	27*
7 10	4 0.03	+26 35.0	2.179	1.627	26.2	20.2	45 W	29*	27*
7 15	4 14.56	+27 36.5	2.128	1.604	27.3	20.2	46 W	31*	27*
7 20	4 29.63	+28 34.7	2.076	1.582	28.4	20.1	48 W	33*	26*
7 25	4 45.23	+29 28.8	2.024	1.559	29.4	20.1	49 W	36*	26*
7 30	5 1.40	+30 18.4	1.973	1.536	30.5	20.0	50 W	38*	25*
8 4	5 18.14	+31 2.7	1.923	1.512	31.6	20.0	51 W	40*	25*
8 9	5 35.47	+31 41.0	1.874	1.489	32.6	19.9	52 W	42*	24*
8 14	5 53.39	+32 12.6	1.825	1.466	33.7	19.8	53 W	43*	23*
8 19	6 11.89	+32 36.6	1.778	1.443	34.7	19.8	54 W	45*	23*
8 24	6 30.91	+32 52.2	1.732	1.419	35.7	19.7	55 W	46*	22*
8 29	6 50.43	+32 58.6	1.688	1.396	36.7	19.7	56 W	48*	21*
9 3	7 10.39	+32 55.0	1.645	1.373	37.7	19.6	56 W	49*	21*
9 8	7 30.71	+32 40.7	1.605	1.351	38.7	19.5	57 W	50*	20*
9 13	7 51.33	+32 15.0	1.566	1.328	39.6	19.5	57 W	50*	20*
9 18	8 12.13	+31 37.6	1.529	1.307	40.6	19.4	58 W	51*	19*
9 23	8 33.01	+30 48.0	1.495	1.285	41.5	19.3	58 W	51*	19*
9 28	8 53.87	+29 46.2	1.462	1.265	42.3	19.3	58 W	52*	19*
10 3	9 14.63	+28 32.3	1.433	1.245	43.2	19.2	58 W	52*	19*
10 8	9 35.20	+27 6.5	1.405	1.226	44.0	19.2	58 W	52*	19*
10 18	10 15.48	+23 41.8	1.358	1.191	45.4	19.1	58 W	51*	19*
10 28	10 54.28	+19 38.3	1.320	1.161	46.7	19.0	58 W	51*	20*
11 7	11 31.46	+15 4.3	1.291	1.137	47.7	18.9	58 W	49*	22*
11 12	11 49.45	+12 38.7	1.279	1.127	48.1	18.9	58 W	48*	23*
11 17	12 7.07	+10 9.1	1.270	1.119	48.4	18.9	58 W	47*	25*
11 22	12 24.34	+ 7 36.6	1.261	1.113	48.7	18.9	58 W	46*	26*
11 27	12 41.29	+ 5 2.5	1.255	1.109	48.9	18.8	58 W	45*	28*
12 2	12 57.97	+ 2 27.7	1.249	1.107	49.0	18.8	58 W	43*	30*
12 7	13 14.41	− 0 6.6	1.245	1.107	49.1	18.8	58 W	42*	32*
12 12	13 30.64	− 2 39.5	1.241	1.109	49.1	18.8	58 W	40*	34*
12 17	13 46.70	− 5 10.1	1.238	1.113	49.1	18.8	59 W	38*	37*
12 22	14 2.61	− 7 37.5	1.236	1.118	49.1	18.8	59 W	36*	39*
12 27	14 18.39	−10 1.0	1.234	1.126	49.0	18.8	60 W	34*	42*
1 1	14 34.07	−12 20.1	1.231	1.135	48.9	18.9	60 W	32*	44*
1 6	14 49.67	−14 34.1	1.229	1.146	48.7	18.9	61 W	30*	47*
1 11	15 5.18	−16 42.8	1.226	1.159	48.6	18.9	62 W	28*	49*
1 16	15 20.62	−18 45.6	1.223	1.173	48.4	18.9	63 W	26*	52*

311554 2006 BQ_{147}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 21.33	−34 53.1	0.865	0.708	76.7	20.3	44 E	7*	38*
12 25	21 36.73	−34 53.7	0.856	0.725	76.4	20.3	46 E	7*	40*
12 27	21 52.00	−34 47.0	0.848	0.743	76.0	20.4	47 E	8*	41*
12 29	22 7.08	−34 33.1	0.842	0.760	75.6	20.4	48 E	8*	42*
12 31	22 21.92	−34 12.2	0.836	0.777	75.1	20.4	50 E	9*	43*
1 2	22 36.48	−33 44.7	0.831	0.793	74.5	20.4	51 E	10*	45*
1 7	23 11.44	−32 9.0	0.824	0.834	72.7	20.4	54 E	12*	48*
1 12	23 44.01	−30 0.4	0.824	0.872	70.8	20.5	57 E	14*	50*
1 17	0 14.05	−27 26.4	0.828	0.908	68.8	20.5	59 E	17*	52*
1 22	0 41.61	−24 34.1	0.838	0.942	66.8	20.5	62 E	20*	54*
1 27	1 6.88	−21 30.5	0.853	0.973	64.9	20.6	64 E	23*	54*
2 1	1 30.11	−18 21.1	0.871	1.003	63.0	20.6	65 E	26*	55*
2 6	1 51.57	−15 10.5	0.893	1.029	61.2	20.7	66 E	29*	55*
2 11	2 11.53	−12 2.3	0.918	1.053	59.6	20.8	67 E	31*	54*
2 16	2 30.24	− 8 59.0	0.946	1.075	58.1	20.8	68 E	34*	53*
2 21	2 47.92	− 6 2.1	0.976	1.095	56.7	20.9	68 E	36*	52*
2 26	3 4.76	− 3 13.0	1.007	1.112	55.4	21.0	68 E	38*	51*
3 2	3 20.94	− 0 32.4	1.040	1.127	54.3	21.0	67 E	40*	49*
3 7	3 36.56	+ 1 59.4	1.074	1.139	53.2	21.1	67 E	41*	48*
3 12	3 51.75	+ 4 22.1	1.108	1.149	52.2	21.1	66 E	42*	46*
3 17	4 6.61	+ 6 36.1	1.142	1.157	51.3	21.2	65 E	42*	45*
3 22	4 21.21	+ 8 41.3	1.175	1.162	50.5	21.3	64 E	43*	43*
3 27	4 35.64	+10 38.1	1.208	1.165	49.7	21.3	63 E	43*	42*
4 1	4 49.95	+12 26.6	1.240	1.166	49.0	21.3	62 E	42*	40*
4 6	5 4.19	+14 7.2	1.271	1.165	48.3	21.4	60 E	42*	39*
4 11	5 18.39	+15 40.3	1.300	1.161	47.7	21.4	59 E	41*	38*
4 16	5 32.59	+17 6.0	1.327	1.155	47.1	21.4	57 E	40*	36*

311554 2006 BQ_{147} *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 21	5 46.84	+18 24.6	1.351	1.147	46.6	21.4	56 E	39*	35*
4 26	6 1.16	+19 36.5	1.373	1.136	46.1	21.4	54 E	37*	34*
5 1	6 15.58	+20 41.9	1.393	1.123	45.7	21.4	53 E	36*	33*
5 6	6 30.11	+21 40.9	1.408	1.108	45.3	21.4	51 E	34*	32*
5 11	6 44.77	+22 33.7	1.421	1.090	45.1	21.4	50 E	33*	31*
5 16	6 59.58	+23 20.5	1.430	1.070	44.9	21.3	48 E	31*	30*
5 21	7 14.56	+24 1.4	1.434	1.047	44.9	21.3	47 E	30*	29*
5 26	7 29.73	+24 36.5	1.435	1.022	44.9	21.3	45 E	28*	28*
5 31	7 45.11	+25 5.9	1.430	0.995	45.1	21.2	44 E	27*	27*
6 5	8 0.68	+25 29.6	1.421	0.965	45.6	21.1	43 E	26*	26*
6 10	8 16.47	+25 47.7	1.406	0.933	46.2	21.0	42 E	25*	26*
6 15	8 32.48	+25 59.9	1.385	0.899	47.1	21.0	40 E	24*	25*
6 20	8 48.70	+26 6.4	1.359	0.862	48.4	20.9	39 E	23*	24*
6 25	9 5.12	+26 6.8	1.326	0.823	50.1	20.8	38 E	22*	24*
6 30	9 21.69	+26 0.9	1.285	0.782	52.3	20.6	37 E	22*	23*
7 5	9 38.31	+25 48.5	1.237	0.740	55.2	20.5	37 E	21*	22*
7 10	9 54.83	+25 29.1	1.181	0.696	59.1	20.4	36 E	21*	22*
7 15	10 11.01	+25 1.8	1.116	0.652	64.0	20.3	35 E	21*	21*
7 20	10 26.38	+24 25.7	1.042	0.608	70.5	20.2	34 E	20*	20*
7 25	10 40.21	+23 39.0	0.960	0.567	78.8	20.1	33 E	20*	20*
7 30	10 51.22	+22 38.9	0.870	0.530	89.6	20.2	31 E	19*	18*
8 1	10 54.43	+22 9.9	0.832	0.517	94.7	20.2	31 E	18*	18*
8 3	10 56.73	+21 37.5	0.794	0.505	100.3	20.4	29 E	17*	17*
8 5	10 57.94	+21 1.0	0.756	0.495	106.5	20.5	28 E	16*	16*
8 7	10 57.89	+20 19.4	0.718	0.487	113.2	20.8	26 E	15*	15*
8 9	10 56.38	+19 31.8	0.682	0.481	120.5	21.2	24 E	13*	13*

409836 2006 QY_{110}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 22.20	−11 35.5	1.705	1.290	35.0	21.3	49 E	29*	32*
1 2	21 48.84	− 9 59.3	1.671	1.204	35.5	21.1	45 E	29*	28*
1 12	22 17.79	− 8 1.6	1.625	1.118	36.5	20.9	43 E	29*	24*
1 22	22 49.23	− 5 41.8	1.567	1.037	38.0	20.7	40 E	28*	22*
2 1	23 23.44	− 3 0.4	1.498	0.962	40.3	20.5	39 E	28*	20*
2 11	0 0.72	+ 0 0.4	1.422	0.898	43.4	20.3	39 E	28*	20*
2 16	0 20.62	+ 1 36.8	1.382	0.872	45.3	20.2	39 E	29*	20*
2 21	0 41.42	+ 3 16.1	1.341	0.850	47.4	20.2	39 E	29*	20*
2 26	1 3.17	+ 4 57.3	1.300	0.834	49.6	20.1	40 E	30*	21*
3 2	1 25.88	+ 6 39.1	1.259	0.823	51.8	20.1	41 E	30*	22*
3 7	1 49.59	+ 8 20.0	1.220	0.819	54.0	20.1	42 E	31*	23*
3 12	2 14.31	+ 9 58.2	1.183	0.821	56.0	20.1	43 E	32*	24*
3 17	2 40.02	+11 31.9	1.150	0.829	57.7	20.1	45 E	33*	25*
3 22	3 6.71	+12 59.0	1.121	0.843	59.0	20.1	47 E	34*	27*
3 27	3 34.28	+14 17.4	1.096	0.863	59.8	20.1	48 E	36*	28*
4 1	4 2.60	+15 24.9	1.078	0.888	60.2	20.2	50 E	37*	30*
4 6	4 31.47	+16 19.5	1.066	0.916	60.1	20.2	53 E	38*	32*
4 11	5 0.62	+16 59.4	1.061	0.949	59.5	20.2	55 E	39*	34*
4 16	5 29.75	+17 23.8	1.064	0.984	58.5	20.3	57 E	39*	36*
4 21	5 58.54	+17 32.4	1.074	1.022	57.2	20.4	59 E	40*	37*
4 26	6 26.68	+17 25.7	1.092	1.061	55.7	20.4	61 E	40*	39*
5 1	6 53.87	+17 4.9	1.117	1.102	54.0	20.5	62 E	40*	41*
5 6	7 19.90	+16 31.7	1.148	1.144	52.2	20.6	64 E	40*	42*
5 11	7 44.63	+15 48.3	1.187	1.187	50.4	20.7	65 E	39*	44*
5 16	8 8.00	+14 56.7	1.231	1.230	48.5	20.8	66 E	38*	45*
5 21	8 30.00	+13 58.8	1.280	1.274	46.7	20.9	66 E	36*	47*
5 26	8 50.68	+12 56.4	1.334	1.317	44.9	21.0	67 E	35*	48*
5 31	9 10.10	+11 50.8	1.393	1.361	43.2	21.2	67 E	33*	49*
6 5	9 28.34	+10 43.2	1.455	1.404	41.5	21.3	67 E	31*	50*
6 10	9 45.51	+ 9 34.5	1.521	1.447	39.9	21.4	66 E	29*	51*

55401 2001 SX_{316}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 22.22	+ 0 43.1	3.430	2.963	15.6	19.8	54 E	41*	27*
1 2	21 34.75	+ 1 36.3	3.554	2.982	14.1	19.8	48 E	38*	19*
1 12	21 47.63	+ 2 37.2	3.665	2.999	12.5	19.9	41 E	34*	13*
1 22	22 0.74	+ 3 45.0	3.764	3.016	10.9	19.9	35 E	29*	7*
2 1	22 14.02	+ 4 59.3	3.848	3.032	9.3	19.9	30 E	24*	1*
2 11	22 27.37	+ 6 19.4	3.918	3.047	7.7	19.8	24 E	18*	—
2 21	22 40.75	+ 7 44.6	3.973	3.061	6.3	19.8	20 E	12*	—
3 2	22 54.11	+ 9 14.3	4.011	3.074	5.2	19.8	16 E	6*	—
3 12	23 7.39	+10 47.7	4.034	3.086	4.8	19.8	15 W	8*	—
3 22	23 20.56	+12 24.4	4.041	3.097	5.2	19.8	16 W	10*	—
4 1	23 33.57	+14 3.7	4.032	3.107	6.1	19.9	19 W	13*	5*
4 11	23 46.38	+15 45.0	4.007	3.116	7.4	19.9	24 W	15*	11*
4 21	23 58.96	+17 27.9	3.968	3.125	8.9	20.0	29 W	18*	16*
5 1	0 11.24	+19 11.8	3.914	3.132	10.4	20.0	34 W	21*	21*
5 11	0 23.17	+20 56.2	3.846	3.138	11.9	20.0	40 W	24*	25*
5 21	0 34.69	+22 40.9	3.766	3.144	13.3	20.0	46 W	28*	29*
5 31	0 45.70	+24 25.3	3.673	3.148	14.7	20.0	52 W	33*	32*
6 10	0 56.09	+26 9.0	3.570	3.152	15.9	20.0	58 W	38*	34*
6 20	1 5.74	+27 51.7	3.458	3.155	16.9	20.0	64 W	44*	35*
6 30	1 14.48	+29 32.8	3.338	3.157	17.7	19.9	71 W	51*	34*
7 10	1 22.12	+31 11.8	3.212	3.157	18.3	19.9	78 W	59*	33

55401 2001 SX_{316} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 20	1 28.42	+32 47.9	3.082	3.157	18.7	19.8	85 W	67*	31
7 30	1 33.11	+34 19.9	2.950	3.156	18.7	19.7	92 W	75*	30
8 9	1 35.90	+35 46.0	2.819	3.154	18.5	19.6	100 W	81*	28
8 19	1 36.48	+37 4.0	2.691	3.151	17.8	19.5	108 W	82	27
8 29	1 34.59	+38 10.5	2.571	3.148	16.8	19.3	116 W	83	26
9 8	1 30.09	+39 1.2	2.462	3.143	15.4	19.2	124 W	84	25
9 18	1 23.06	+39 31.3	2.368	3.137	13.6	19.0	133 W	85	24
9 23	1 18.69	+39 37.0	2.328	3.134	12.7	19.0	137 W	85	24
9 28	1 13.88	+39 35.8	2.293	3.130	11.8	18.9	140 W	85	24
10 3	1 8.72	+39 27.4	2.263	3.127	10.9	18.8	144 W	84	25
10 8	1 3.33	+39 11.6	2.240	3.123	10.1	18.8	147 W	84	25
10 13	0 57.86	+38 48.5	2.222	3.119	9.6	18.7	149 E	84	25
10 18	0 52.44	+38 18.4	2.212	3.114	9.2	18.7	150 E	83	26
10 23	0 47.24	+37 41.8	2.207	3.110	9.2	18.7	150 E	83	26
10 28	0 42.37	+36 59.7	2.210	3.105	9.5	18.7	149 E	82	27
11 2	0 37.97	+36 13.1	2.219	3.100	10.0	18.7	147 E	81	28
11 7	0 34.11	+35 23.2	2.235	3.095	10.8	18.8	144 E	80	29
11 12	0 30.87	+34 31.1	2.256	3.089	11.6	18.8	141 E	80	29
11 17	0 28.29	+33 38.0	2.284	3.083	12.6	18.9	137 E	79	30
11 22	0 26.43	+32 45.1	2.317	3.077	13.6	18.9	133 E	78	31
11 27	0 25.26	+31 53.4	2.356	3.071	14.5	19.0	129 E	77	32
12 2	0 24.80	+31 3.9	2.398	3.064	15.4	19.1	124 E	76	33
12 7	0 25.01	+30 17.1	2.445	3.058	16.2	19.1	120 E	75	34
12 17	0 27.35	+28 54.0	2.548	3.044	17.6	19.3	111 E	74	35*
12 27	0 32.03	+27 47.0	2.661	3.029	18.5	19.4	102 E	73	34*
1 6	0 38.74	+26 56.9	2.780	3.013	19.0	19.5	94 E	72	31*
1 16	0 47.21	+26 23.2	2.900	2.996	19.1	19.6	86 E	71*	28*

172451 2003 QV_{79}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 22.59	−21 53.2	2.557	2.002	20.7	21.2	46 E	20*	36*
1 2	21 44.56	−19 45.0	2.667	2.035	18.6	21.2	41 E	20*	30*
1 12	22 5.80	−17 32.5	2.771	2.068	16.5	21.3	37 E	19*	25*
1 22	22 26.36	−15 17.0	2.870	2.101	14.4	21.3	32 E	17*	21*
2 1	22 46.30	−12 59.9	2.962	2.134	12.2	21.3	27 E	15*	16*
2 11	23 5.68	−10 42.1	3.046	2.166	10.0	21.3	22 E	12*	12*
2 21	23 24.56	− 8 24.8	3.121	2.198	7.8	21.3	18 E	8*	8*
3 2	23 43.00	− 6 8.7	3.186	2.230	5.6	21.3	13 E	4*	5*
3 12	0 1.01	− 3 54.8	3.241	2.261	3.5	21.3	8 E	—	1*
3 22	0 18.67	− 1 43.8	3.284	2.291	1.7	21.2	4 E	—	—
4 1	0 35.99	+ 0 23.7	3.316	2.321	1.9	21.3	4 W	—	—
4 11	0 53.00	+ 2 27.0	3.336	2.350	3.7	21.4	9 W	—	2*

213812 2003 *NE*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 22.60	−19 57.3	1.979	1.482	28.7	20.5	46 E	21*	35*
12 28	21 38.10	−18 53.7	2.002	1.482	28.1	20.5	45 E	22*	33*
1 2	21 53.49	−17 45.2	2.025	1.483	27.4	20.5	44 E	22*	32*
1 7	22 8.74	−16 32.3	2.049	1.484	26.7	20.5	43 E	23*	30*
1 12	22 23.85	−15 15.4	2.074	1.487	26.0	20.5	41 E	23*	28*
1 17	22 38.80	−13 55.0	2.100	1.491	25.2	20.5	40 E	23*	27*
1 22	22 53.59	−12 31.7	2.126	1.496	24.5	20.6	39 E	23*	26*
1 27	23 8.22	−11 5.9	2.153	1.502	23.7	20.6	38 E	23*	24*
2 1	23 22.70	− 9 38.2	2.180	1.509	22.9	20.6	37 E	23*	23*
2 6	23 37.01	− 8 9.1	2.208	1.517	22.1	20.6	35 E	22*	22*
2 11	23 51.17	− 6 39.0	2.237	1.526	21.3	20.6	34 E	22*	21*
2 16	0 5.18	− 5 8.5	2.267	1.536	20.5	20.6	33 E	21*	20*
2 21	0 19.06	− 3 38.1	2.297	1.547	19.7	20.6	32 E	20*	19*
2 26	0 32.82	− 2 8.0	2.328	1.558	18.8	20.7	31 E	19*	18*
3 2	0 46.45	− 0 38.9	2.359	1.571	18.0	20.7	29 E	18*	17*
3 7	0 59.98	+ 0 49.0	2.390	1.584	17.1	20.7	28 E	17*	16*
3 12	1 13.40	+ 2 15.2	2.422	1.598	16.2	20.7	27 E	16*	15*
3 17	1 26.73	+ 3 39.5	2.454	1.612	15.3	20.7	25 E	15*	14*
3 22	1 39.98	+ 5 1.5	2.487	1.627	14.4	20.7	24 E	14*	13*
3 27	1 53.15	+ 6 21.0	2.519	1.643	13.5	20.8	23 E	12*	12*
4 1	2 6.26	+ 7 37.6	2.552	1.659	12.5	20.8	21 E	11*	11*
4 6	2 19.29	+ 8 51.3	2.584	1.676	11.6	20.8	20 E	9*	10*
4 11	2 32.26	+10 1.7	2.616	1.693	10.7	20.8	18 E	8*	9*
4 16	2 45.17	+11 8.8	2.647	1.711	9.7	20.8	17 E	6*	8*
4 21	2 58.02	+12 12.3	2.678	1.729	8.8	20.8	15 E	5*	7*
4 26	3 10.81	+13 12.2	2.708	1.747	7.8	20.8	14 E	3*	6*
5 1	3 23.55	+14 8.3	2.738	1.766	6.9	20.8	12 E	1*	5*
5 6	3 36.22	+15 0.7	2.767	1.784	5.9	20.8	11 E	—	4*
5 11	3 48.82	+15 49.1	2.794	1.804	5.0	20.8	9 E	—	3*
5 16	4 1.35	+16 33.7	2.821	1.823	4.1	20.8	7 E	—	1*
5 21	4 13.81	+17 14.3	2.846	1.842	3.3	20.8	6 E	—	—
5 26	4 26.19	+17 51.0	2.870	1.862	2.5	20.8	5 E	—	—
5 31	4 38.48	+18 23.9	2.892	1.882	2.0	20.8	4 E	—	—
6 5	4 50.67	+18 52.9	2.913	1.902	2.0	20.9	4 W	—	—
6 10	5 2.75	+19 18.1	2.932	1.922	2.4	20.9	4 W	—	—
6 15	5 14.72	+19 39.7	2.949	1.942	3.0	21.0	6 W	—	—
6 20	5 26.57	+19 57.6	2.965	1.962	3.9	21.1	7 W	—	1*
6 25	5 38.29	+20 12.0	2.978	1.982	4.7	21.2	9 W	—	3*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
						(continuation)			
	213812 2003 *NE*								
	h m	° ′			°	m	°	°	°
6 30	5 49.87	+20 22.9	2.989	2.002	5.7	21.2	11 W	—	5*
7 5	6 1.29	+20 30.6	2.998	2.022	6.6	21.3	13 W	—	7*
7 10	6 12.56	+20 35.2	3.005	2.041	7.5	21.4	15 W	2*	8*
7 15	6 23.66	+20 36.7	3.009	2.061	8.5	21.4	17 W	4*	10*
	37671 1994 UY_{11}								
12 23	21 23.73	−29 8.6	3.200	2.601	15.6	20.2	45 E	13*	38*
1 2	21 39.17	−27 5.6	3.259	2.571	13.9	20.1	39 E	12*	31*
1 12	21 54.95	−24 59.0	3.306	2.540	12.2	20.1	33 E	11*	25*
1 22	22 10.99	−22 48.6	3.341	2.509	10.4	20.0	27 E	9*	20*
2 1	22 27.22	−20 34.5	3.363	2.477	8.6	19.9	22 E	6*	15*
2 11	22 43.59	−18 16.9	3.372	2.444	6.7	19.8	17 E	2*	10*
2 21	23 0.07	−15 55.8	3.368	2.411	5.0	19.7	12 E	—	6*
3 2	23 16.65	−13 31.4	3.352	2.378	3.6	19.6	9 E	—	2*
3 12	23 33.32	−11 4.2	3.324	2.343	3.3	19.5	8 E	—	—
3 22	23 50.09	− 8 34.3	3.284	2.309	4.3	19.5	10 W	—	2*
4 1	0 6.98	− 6 1.9	3.232	2.274	6.0	19.5	14 W	—	7*
4 11	0 24.01	− 3 27.5	3.170	2.239	8.0	19.5	18 W	—	11*
4 21	0 41.21	− 0 51.2	3.098	2.203	10.0	19.5	22 W	—	16*
5 1	0 58.64	+ 1 46.6	3.018	2.168	12.1	19.5	27 W	—	21*
5 11	1 16.32	+ 4 25.9	2.929	2.132	14.3	19.5	31 W	3*	25*
5 21	1 34.33	+ 7 6.2	2.833	2.097	16.4	19.5	36 W	7*	29*
5 31	1 52.71	+ 9 47.6	2.731	2.062	18.5	19.4	40 W	11*	33*
6 10	2 11.53	+12 29.6	2.624	2.027	20.5	19.3	44 W	16*	35*
6 20	2 30.88	+15 12.2	2.513	1.992	22.5	19.3	49 W	21*	37*
6 30	2 50.81	+17 55.2	2.398	1.959	24.4	19.2	53 W	27*	38*
7 10	3 11.42	+20 38.3	2.282	1.926	26.3	19.1	57 W	33*	38*
7 20	3 32.80	+23 21.3	2.165	1.894	28.0	19.0	61 W	40*	37*
7 30	3 55.03	+26 3.8	2.048	1.863	29.6	18.9	65 W	47*	35*
8 9	4 18.21	+28 45.6	1.932	1.834	31.1	18.8	69 W	54*	33*
8 19	4 42.43	+31 26.1	1.819	1.806	32.4	18.7	73 W	60*	31*
8 24	4 54.94	+32 45.7	1.763	1.793	33.0	18.6	75 W	63*	30*
8 29	5 7.74	+34 4.7	1.709	1.780	33.6	18.5	77 W	66*	29*
9 3	5 20.81	+35 23.0	1.655	1.768	34.1	18.4	79 W	69*	28*
9 8	5 34.18	+36 40.7	1.603	1.756	34.5	18.4	81 W	72*	27*
9 13	5 47.84	+37 57.5	1.552	1.745	34.9	18.3	83 W	75*	25*
9 18	6 1.76	+39 13.3	1.502	1.734	35.3	18.2	85 W	77*	24*
9 23	6 15.94	+40 28.1	1.454	1.724	35.5	18.2	87 W	80*	23*
9 28	6 30.36	+41 41.8	1.407	1.715	35.7	18.1	89 W	82*	22*
10 3	6 44.99	+42 54.1	1.362	1.706	35.9	18.0	91 W	85*	20*
10 8	6 59.81	+44 5.2	1.319	1.698	36.0	17.9	93 W	87*	19*
10 13	7 14.75	+45 15.0	1.277	1.691	36.0	17.8	95 W	89*	18*
10 18	7 29.76	+46 23.4	1.238	1.684	35.9	17.8	97 W	89	17*
10 23	7 44.76	+47 30.4	1.200	1.679	35.8	17.7	99 W	87	16*
10 28	7 59.67	+48 36.2	1.164	1.674	35.6	17.6	101 W	86	15*
11 2	8 14.40	+49 40.7	1.130	1.669	35.3	17.5	104 W	85	14*
11 7	8 28.84	+50 44.3	1.097	1.666	34.9	17.5	106 W	84	13*
11 12	8 42.86	+51 47.0	1.067	1.663	34.5	17.4	108 W	83	12*
11 17	8 56.30	+52 49.2	1.039	1.661	34.0	17.3	110 W	82	11*
11 22	9 8.99	+53 50.9	1.012	1.660	33.4	17.2	112 W	81	10*
11 27	9 20.79	+54 52.2	0.988	1.660	32.8	17.2	114 W	80	9*
12 2	9 31.50	+55 53.3	0.965	1.660	32.1	17.1	117 W	79	8*
12 7	9 40.93	+56 54.2	0.945	1.662	31.3	17.0	119 W	78	7*
12 12	9 48.83	+57 54.5	0.927	1.664	30.5	17.0	121 W	77	6
12 17	9 54.97	+58 53.7	0.910	1.667	29.6	16.9	123 W	76	5
12 22	9 59.12	+59 50.7	0.896	1.671	28.7	16.8	125 W	75	4
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
	52750 1998 KK_{17}								
12 23	21 24.12	−18 51.7	2.056	1.561	27.4	20.2	47 E	23*	35*
1 2	21 46.04	−17 29.3	2.064	1.491	26.3	20.0	42 E	22*	30*
1 12	22 9.22	−15 51.1	2.058	1.417	25.2	19.9	38 E	21*	25*
1 22	22 33.71	−13 56.1	2.036	1.339	24.3	19.7	34 E	19*	22*
2 1	22 59.63	−11 43.4	2.000	1.257	23.5	19.5	31 E	18*	19*
2 11	23 27.17	− 9 11.8	1.950	1.172	23.2	19.3	28 E	16*	16*
2 21	23 56.60	− 6 20.1	1.886	1.084	23.3	19.1	26 E	15*	15*
3 2	0 28.32	− 3 7.1	1.811	0.995	24.2	18.8	24 E	14*	14*
3 12	1 2.80	+ 0 27.9	1.725	0.908	26.1	18.6	24 E	13*	13*
3 22	1 40.65	+ 4 24.8	1.629	0.825	29.4	18.3	24 E	13*	14*
4 1	2 22.54	+ 8 40.9	1.526	0.754	34.5	18.1	25 E	15*	14*
4 6	2 45.20	+10 54.2	1.472	0.725	37.7	18.1	26 E	15*	15*
4 11	3 9.09	+13 9.2	1.417	0.702	41.3	18.0	28 E	17*	16*
4 16	3 34.27	+15 23.9	1.362	0.686	45.2	18.0	29 E	18*	16*
4 21	4 0.78	+17 35.9	1.307	0.678	49.2	18.0	31 E	19*	17*
4 26	4 28.63	+19 42.1	1.255	0.679	53.1	18.0	33 E	21*	19*
5 1	4 57.83	+21 39.0	1.205	0.687	56.7	18.0	35 E	23*	20*
5 6	5 28.32	+23 22.5	1.160	0.704	59.8	18.1	37 E	25*	21*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
						(continuation)			
	52750 1998 KK_{17}								
	h m	° ′			°	m	°	°	°
5 11	6 0.00	+24 48.5	1.120	0.728	62.1	18.2	40 E	26*	22*
5 16	6 32.70	+25 52.9	1.087	0.757	63.6	18.2	42 E	28*	24*
5 21	7 6.10	+26 32.1	1.061	0.791	64.3	18.3	45 E	30*	26*
5 26	7 39.78	+26 43.8	1.044	0.829	64.3	18.4	48 E	32*	28*
5 31	8 13.22	+26 27.1	1.034	0.869	63.7	18.4	50 E	33*	30*
6 5	8 45.88	+25 42.9	1.034	0.912	62.5	18.5	53 E	34*	32*
6 10	9 17.29	+24 34.1	1.041	0.955	61.0	18.6	55 E	35*	34*
6 15	9 47.09	+23 4.7	1.057	0.999	59.1	18.6	58 E	35*	37*
6 20	10 15.08	+21 19.4	1.080	1.044	57.2	18.7	60 E	35*	39*
6 25	10 41.17	+19 22.8	1.110	1.088	55.1	18.8	61 E	35*	41*
6 30	11 5.39	+17 19.4	1.146	1.132	53.0	18.9	63 E	34*	43*
7 5	11 27.85	+15 12.9	1.188	1.176	51.0	19.0	64 E	33*	45*
7 10	11 48.68	+13 5.9	1.234	1.218	49.0	19.1	65 E	32*	47*
7 15	12 8.07	+11 0.7	1.285	1.261	47.1	19.2	65 E	31*	49*
7 20	12 26.18	+ 8 58.7	1.340	1.302	45.2	19.3	65 E	30*	50*
7 25	12 43.19	+ 7 0.7	1.398	1.342	43.5	19.4	65 E	29*	51*
7 30	12 59.24	+ 5 7.6	1.459	1.382	41.8	19.6	65 E	29*	52*
8 9	13 28.96	+ 1 36.8	1.586	1.458	38.6	19.8	64 E	27*	53*
8 19	13 56.23	− 1 33.1	1.721	1.530	35.7	20.0	62 E	25*	52*
8 29	14 21.73	− 4 23.1	1.858	1.598	32.9	20.1	59 E	23*	51*
9 8	14 45.94	− 6 54.2	1.997	1.661	30.2	20.3	56 E	22*	48*
9 18	15 9.22	− 9 7.7	2.134	1.721	27.6	20.5	53 E	20*	45*
9 28	15 31.84	−11 4.8	2.269	1.777	25.1	20.6	49 E	19*	41*
10 8	15 53.98	−12 46.4	2.399	1.828	22.6	20.7	45 E	18*	37*
10 18	16 15.77	−14 13.2	2.522	1.876	20.1	20.8	40 E	17*	32*
10 28	16 37.30	−15 26.0	2.637	1.921	17.6	20.8	36 E	15*	27*
11 7	16 58.61	−16 25.0	2.743	1.961	15.1	20.9	31 E	14*	22*
11 17	17 19.75	−17 11.0	2.837	1.998	12.6	20.9	26 E	12*	17*
11 27	17 40.69	−17 44.4	2.919	2.031	10.1	20.9	21 E	10*	11*
12 7	18 1.44	−18 5.5	2.988	2.061	7.7	20.9	16 E	8*	6*
12 17	18 21.97	−18 14.9	3.043	2.087	5.3	20.8	11 E	4*	—
12 27	18 42.24	−18 13.2	3.083	2.110	3.1	20.8	7 E	1*	—
1 6	19 2.23	−18 1.1	3.108	2.129	2.2	20.8	5 W	—	—
1 16	19 21.90	−17 39.1	3.116	2.145	3.5	20.9	8 W	1*	—
	155110 2005 *TB*								
12 23	21 25.59	+ 1 11.8	1.380	1.149	44.6	20.2	55 E	42*	27*
1 2	22 7.85	+ 2 6.4	1.460	1.205	41.9	20.4	55 E	42*	26*
1 12	22 46.84	+ 3 3.9	1.554	1.259	39.2	20.5	54 E	42*	25*
1 22	23 22.80	+ 4 3.2	1.657	1.312	36.4	20.7	52 E	41*	25*
2 1	23 56.10	+ 5 3.5	1.766	1.361	33.7	20.8	50 E	39*	24*
2 11	0 27.16	+ 6 3.4	1.877	1.408	31.0	20.9	47 E	37*	23*
2 21	0 56.39	+ 7 1.8	1.987	1.451	28.3	21.1	44 E	34*	22*
3 2	1 24.16	+ 7 57.6	2.093	1.492	25.7	21.1	41 E	31*	21*
3 12	1 50.78	+ 8 49.4	2.195	1.528	23.2	21.2	37 E	27*	20*
3 22	2 16.51	+ 9 36.3	2.289	1.562	20.8	21.3	34 E	23*	19*
4 1	2 41.57	+10 17.1	2.374	1.591	18.4	21.3	30 E	19*	18*
4 11	3 6.11	+10 50.8	2.450	1.617	16.1	21.4	27 E	14*	16*
4 21	3 30.28	+11 16.4	2.516	1.640	13.9	21.4	23 E	10*	15*
5 1	3 54.18	+11 32.9	2.571	1.659	11.9	21.4	20 E	5*	13*
5 11	4 17.88	+11 39.5	2.614	1.675	10.2	21.4	17 E	—	11*
5 21	4 41.45	+11 35.3	2.646	1.687	8.8	21.3	15 E	—	9*
5 31	5 4.93	+11 19.8	2.666	1.695	7.8	21.3	13 E	—	6*
6 10	5 28.35	+10 52.1	2.676	1.700	7.5	21.3	13 E	—	3*
6 20	5 51.73	+10 11.8	2.674	1.701	7.9	21.3	13 W	—	1*
6 30	6 15.11	+ 9 18.3	2.662	1.699	8.8	21.4	15 W	—	5*
7 10	6 38.47	+ 8 11.5	2.639	1.693	10.1	21.4	17 W	—	9*
7 20	7 1.88	+ 6 50.9	2.607	1.683	11.6	21.4	19 W	—	12*
7 30	7 25.34	+ 5 16.5	2.567	1.670	13.2	21.4	22 W	—	16*
8 9	7 48.90	+ 3 28.3	2.518	1.654	14.9	21.4	25 W	—	19*
8 19	8 12.63	+ 1 26.6	2.463	1.633	16.6	21.4	27 W	3*	21*
8 29	8 36.60	− 0 48.4	2.401	1.610	18.4	21.4	30 W	7*	24*
9 8	9 0.91	− 3 15.7	2.334	1.582	20.1	21.3	33 W	10*	26*
9 18	9 25.72	− 5 54.7	2.263	1.551	21.8	21.3	35 W	12*	28*
9 28	9 51.17	− 8 43.9	2.188	1.517	23.6	21.2	37 W	14*	30*
10 8	10 17.49	−11 41.3	2.111	1.479	25.3	21.1	39 W	16*	32*
10 18	10 44.96	−14 44.7	2.032	1.438	27.1	21.0	41 W	17*	33*
10 28	11 13.90	−17 50.5	1.952	1.394	28.8	20.9	43 W	17*	35*
11 7	11 44.72	−20 54.2	1.873	1.346	30.6	20.8	44 W	16*	36*
11 17	12 17.88	−23 50.1	1.795	1.296	32.5	20.7	45 W	16*	37*
11 27	12 53.85	−26 30.3	1.719	1.243	34.4	20.6	45 W	14*	38*
12 7	13 33.11	−28 44.8	1.646	1.187	36.3	20.4	46 W	13*	38*
12 12	13 54.07	−29 38.7	1.611	1.159	37.3	20.4	46 W	12*	38*
12 17	14 15.96	−30 21.5	1.577	1.131	38.4	20.3	45 W	12*	38*
12 22	14 38.74	−30 51.3	1.544	1.103	39.4	20.2	45 W	11*	38*
12 27	15 2.38	−31 6.2	1.514	1.074	40.4	20.1	45 W	11*	38*
1 1	15 26.79	−31 4.5	1.485	1.046	41.3	20.1	45 W	11*	38*
1 6	15 51.88	−30 44.7	1.458	1.018	42.3	20.0	44 W	11*	37*
1 11	16 17.51	−30 5.3	1.434	0.991	43.2	19.9	44 W	11*	37*
1 16	16 43.49	−29 5.4	1.413	0.965	44.0	19.9	43 W	11*	36*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		73575 4789 *P–L*							
	h m	° ′			°	m	°	°	°
12 23	21 26.10	−15 39.8	2.209	1.721	25.3	21.3	48 E	26*	34*
1 2	21 51.89	−13 27.1	2.303	1.748	23.3	21.3	45 E	26*	30*
1 12	22 16.86	−11 7.2	2.396	1.777	21.3	21.4	41 E	26*	25*
1 22	22 41.05	− 8 42.6	2.488	1.807	19.3	21.4	37 E	25*	21*
2 1	23 4.54	− 6 15.1	2.577	1.838	17.2	21.5	34 E	23*	17*
		137175 1999 JA_{11}							
12 23	21 26.40	−25 59.2	1.513	1.092	40.5	21.0	46 E	16*	38*
1 2	22 0.94	−23 40.0	1.480	1.037	41.5	20.9	44 E	17*	35*
1 12	22 36.41	−20 41.9	1.436	0.984	43.1	20.7	43 E	19*	33*
1 22	23 12.75	−17 2.6	1.383	0.935	45.3	20.6	42 E	21*	32*
2 1	23 49.95	−12 40.6	1.324	0.893	48.1	20.5	42 E	23*	30*
2 11	0 28.07	− 7 36.2	1.260	0.860	51.4	20.4	43 E	26*	29*
2 21	1 7.30	− 1 52.4	1.195	0.838	54.8	20.3	44 E	29*	28*
2 26	1 27.45	+ 1 12.3	1.164	0.833	56.6	20.3	45 E	30*	28*
3 2	1 48.04	+ 4 23.6	1.134	0.831	58.2	20.3	45 E	32*	28*
3 7	2 9.13	+ 7 39.9	1.106	0.832	59.6	20.3	46 E	34*	27*
3 12	2 30.83	+10 58.6	1.081	0.838	60.8	20.3	47 E	36*	27*
3 17	2 53.22	+14 17.1	1.059	0.846	61.8	20.3	49 E	37*	26*
3 22	3 16.42	+17 32.3	1.040	0.858	62.5	20.3	50 E	39*	26*
3 27	3 40.51	+20 40.7	1.025	0.873	62.8	20.3	51 E	41*	25*
4 1	4 5.55	+23 38.3	1.014	0.891	62.9	20.3	53 E	43*	25*
4 6	4 31.56	+26 21.4	1.007	0.911	62.7	20.3	54 E	44*	25*
4 11	4 58.48	+28 46.2	1.005	0.933	62.1	20.4	55 E	46*	24*
4 16	5 26.19	+30 49.5	1.007	0.957	61.4	20.4	57 E	47*	24*
4 21	5 54.51	+32 28.8	1.014	0.982	60.5	20.5	58 E	49*	24*
4 26	6 23.13	+33 42.4	1.024	1.008	59.4	20.5	60 E	50*	25*
5 1	6 51.73	+34 29.8	1.039	1.035	58.1	20.6	61 E	51*	25*
5 6	7 19.94	+34 51.6	1.057	1.062	56.9	20.6	62 E	51*	26*
5 11	7 47.43	+34 49.0	1.079	1.089	55.5	20.7	63 E	51*	27*
5 16	8 13.92	+34 24.5	1.105	1.117	54.1	20.7	64 E	51*	28*
5 21	8 39.23	+33 40.5	1.133	1.145	52.8	20.8	64 E	51*	29*
5 26	9 3.23	+32 40.1	1.164	1.173	51.4	20.9	65 E	50*	30*
5 31	9 25.89	+31 26.1	1.198	1.200	50.0	20.9	65 E	49*	31*
6 5	9 47.22	+30 1.2	1.234	1.227	48.7	21.0	65 E	47*	33*
6 10	10 7.27	+28 27.8	1.272	1.254	47.4	21.1	65 E	46*	34*
6 15	10 26.13	+26 47.9	1.312	1.280	46.1	21.2	65 E	44*	36*
6 20	10 43.93	+25 3.4	1.353	1.305	44.9	21.3	65 E	42*	37*
6 25	11 0.76	+23 15.7	1.397	1.330	43.7	21.3	65 E	41*	39*
6 30	11 16.72	+21 26.0	1.441	1.354	42.5	21.4	64 E	39*	40*
7 5	11 31.93	+19 35.4	1.487	1.377	41.4	21.5	64 E	37*	42*
		206342 2003 PQ_6							
12 23	21 26.64	− 7 41.7	2.135	1.703	26.8	21.3	51 E	33*	31*
1 2	21 48.83	− 5 16.4	2.200	1.695	25.2	21.3	47 E	33*	26*
1 12	22 11.25	− 2 43.9	2.260	1.687	23.6	21.3	43 E	33*	20*
1 22	22 33.92	− 0 5.2	2.315	1.680	22.0	21.3	40 E	31*	16*
2 1	22 56.87	+ 2 38.5	2.365	1.673	20.3	21.3	36 E	29*	12*
2 11	23 20.15	+ 5 25.9	2.409	1.666	18.7	21.3	33 E	26*	8*
2 21	23 43.80	+ 8 15.3	2.449	1.660	17.0	21.2	29 E	23*	5*
3 2	0 7.93	+11 4.9	2.484	1.654	15.4	21.2	26 E	20*	3*
3 12	0 32.58	+13 52.5	2.514	1.650	13.8	21.2	23 E	17*	1*
3 22	0 57.87	+16 36.1	2.541	1.645	12.3	21.1	21 E	14*	—
4 1	1 23.88	+19 13.2	2.564	1.642	10.8	21.1	18 E	12*	—
4 11	1 50.65	+21 41.3	2.583	1.639	9.4	21.1	15 E	9*	—
4 21	2 18.26	+23 57.7	2.598	1.636	8.1	21.0	13 E	7*	—
5 1	2 46.71	+25 59.9	2.611	1.635	7.0	21.0	11 E	4*	—
5 11	3 15.98	+27 45.1	2.620	1.634	6.1	20.9	10 E	2*	—
5 21	3 45.98	+29 11.2	2.626	1.634	5.6	20.9	9 W	2*	—
5 31	4 16.57	+30 15.9	2.628	1.635	5.6	20.9	9 W	3*	—
6 10	4 47.55	+30 57.7	2.628	1.636	6.1	20.9	10 W	4*	—
6 20	5 18.68	+31 15.6	2.623	1.639	6.9	21.0	11 W	5*	—
6 30	5 49.70	+31 9.2	2.615	1.642	8.1	21.0	13 W	7*	—
7 10	6 20.32	+30 38.8	2.604	1.645	9.4	21.1	15 W	9*	1*
7 20	6 50.33	+29 45.3	2.588	1.650	10.9	21.1	18 W	11*	3*
7 30	7 19.51	+28 30.2	2.567	1.654	12.4	21.2	20 W	13*	5*
8 9	7 47.71	+26 55.4	2.542	1.660	14.0	21.2	23 W	16*	7*
8 19	8 14.87	+25 2.8	2.511	1.666	15.6	21.3	26 W	19*	9*
8 29	8 40.93	+22 54.6	2.476	1.673	17.3	21.3	30 W	22*	11*
9 8	9 5.90	+20 33.0	2.435	1.680	19.0	21.3	33 W	25*	13*
9 18	9 29.82	+17 59.9	2.388	1.687	20.7	21.3	36 W	29*	15*
9 28	9 52.73	+15 17.3	2.336	1.695	22.3	21.4	40 W	32*	18*
10 8	10 14.70	+12 26.8	2.277	1.703	24.0	21.4	44 W	35*	20*
10 18	10 35.79	+ 9 30.0	2.213	1.711	25.5	21.4	48 W	38*	24*
10 28	10 56.03	+ 6 28.3	2.144	1.720	27.1	21.3	52 W	40*	28*
11 7	11 15.48	+ 3 22.9	2.069	1.729	28.5	21.3	56 W	41*	32*
11 17	11 34.14	+ 0 14.7	1.989	1.737	29.8	21.3	61 W	42*	37*
11 27	11 51.99	− 2 55.2	1.904	1.746	31.0	21.2	66 W	41*	43*
12 7	12 8.99	− 6 6.3	1.816	1.755	32.0	21.2	71 W	39*	49*
12 17	12 25.04	− 9 17.9	1.724	1.764	32.8	21.1	76 W	36	56*
12 27	12 39.98	−12 29.4	1.629	1.772	33.3	21.0	81 W	33	64*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		206342 2003 PQ_6 *(continuation)*							
	h m	° ′			°	m	°	°	°
1 6	12 53.60	−15 40.5	1.534	1.781	33.5	20.9	87 W	29	72*
1 16	13 5.58	−18 50.7	1.438	1.789	33.3	20.7	93 W	26	80*
		237566 2001 BW_1							
12 23	21 26.89	+ 3 11.1	3.842	3.399	14.0	21.5	56 E	44*	26*
1 2	21 37.24	+ 3 56.0	3.974	3.419	12.6	21.5	50 E	40*	19*
1 12	21 48.02	+ 4 48.5	4.093	3.438	11.2	21.5	43 E	36*	12*
1 22	21 59.12	+ 5 48.2	4.197	3.457	9.8	21.5	37 E	30*	5*
2 1	22 10.42	+ 6 54.5	4.286	3.474	8.3	21.5	31 E	24*	—
		18284 Tsereteli							
12 23	21 27.45	−14 5.1	2.171	1.700	26.0	18.7	49 E	27*	34*
1 2	21 52.89	−11 41.5	2.253	1.716	24.2	18.8	46 E	28*	29*
1 12	22 17.79	− 9 10.9	2.334	1.734	22.3	18.8	42 E	28*	25*
1 22	22 42.15	− 6 35.2	2.415	1.754	20.4	18.8	38 E	27*	21*
2 1	23 6.04	− 3 56.5	2.494	1.776	18.5	18.9	35 E	25*	17*
2 11	23 29.49	− 1 16.8	2.571	1.800	16.5	18.9	31 E	23*	13*
2 21	23 52.57	+ 1 22.0	2.645	1.825	14.4	18.9	27 E	20*	10*
3 2	0 15.35	+ 3 58.4	2.716	1.851	12.4	18.9	24 E	17*	8*
3 12	0 37.88	+ 6 30.7	2.782	1.878	10.3	19.0	20 E	13*	5*
3 22	1 0.23	+ 8 57.6	2.844	1.906	8.3	18.9	16 E	9*	3*
4 1	1 22.44	+11 18.0	2.900	1.934	6.2	18.9	12 E	6*	—
4 11	1 44.54	+13 30.6	2.950	1.963	4.2	18.9	8 E	2*	—
4 21	2 6.56	+15 34.7	2.993	1.993	2.3	18.8	5 E	—	—
5 1	2 28.54	+17 29.3	3.029	2.023	1.3	18.8	3 W	—	—
5 11	2 50.44	+19 13.8	3.056	2.053	2.6	19.0	5 W	—	—
5 21	3 12.26	+20 47.7	3.076	2.083	4.5	19.1	9 W	—	2*
5 31	3 33.98	+22 10.7	3.086	2.113	6.4	19.3	14 W	3*	6*
6 10	3 55.53	+23 22.4	3.086	2.143	8.4	19.4	18 W	6*	9*
6 20	4 16.86	+24 23.0	3.077	2.173	10.3	19.5	22 W	9*	13*
6 30	4 37.89	+25 12.6	3.058	2.202	12.1	19.6	27 W	13*	16*
7 10	4 58.53	+25 51.4	3.029	2.231	13.9	19.6	32 W	18*	19*
7 20	5 18.67	+26 20.1	2.989	2.260	15.6	19.7	37 W	23*	21*
7 30	5 38.21	+26 39.3	2.939	2.288	17.3	19.7	42 W	29*	23*
8 9	5 57.02	+26 49.9	2.879	2.315	18.8	19.8	47 W	35*	25*
8 19	6 14.98	+26 53.1	2.809	2.342	20.2	19.8	53 W	41*	27*
8 29	6 31.92	+26 50.1	2.729	2.369	21.4	19.8	59 W	47*	29*
9 8	6 47.71	+26 42.4	2.641	2.394	22.4	19.8	65 W	54*	30*
9 18	7 2.15	+26 31.5	2.545	2.419	23.2	19.7	71 W	60*	32*
9 28	7 15.04	+26 19.4	2.442	2.444	23.7	19.7	78 W	65*	34*
10 8	7 26.15	+26 7.8	2.334	2.467	23.8	19.6	86 W	69*	35*
10 18	7 35.20	+25 58.7	2.223	2.490	23.5	19.5	93 W	71	37*
10 28	7 41.86	+25 54.0	2.111	2.512	22.8	19.4	102 W	71	38*
11 7	7 45.80	+25 55.2	2.003	2.533	21.4	19.3	111 W	71	38
11 17	7 46.69	+26 3.4	1.901	2.553	19.4	19.1	121 W	71	38
11 27	7 44.25	+26 18.4	1.811	2.573	16.7	18.9	131 W	71	38
12 7	7 38.42	+26 38.4	1.737	2.591	13.3	18.7	143 W	72	37
12 17	7 29.46	+27 0.3	1.684	2.609	9.2	18.5	155 W	72	37
12 22	7 24.02	+27 10.4	1.668	2.617	7.0	18.4	161 W	72	37
12 27	7 18.11	+27 19.3	1.658	2.625	4.8	18.3	167 W	72	37
1 1	7 11.90	+27 26.4	1.655	2.633	2.8	18.2	173 W	72	37
1 6	7 5.57	+27 31.4	1.660	2.641	1.9	18.1	175 E	73	36
1 11	6 59.31	+27 33.9	1.673	2.649	3.3	18.3	171 E	73	36
1 16	6 53.29	+27 34.0	1.693	2.656	5.4	18.4	165 E	73	36
		27346 2000 DN_8							
12 23	21 27.54	−32 29.1	1.716	1.247	34.4	19.0	46 E	10*	39*
1 2	22 3.07	−32 2.7	1.704	1.209	34.4	18.9	44 E	10*	38*
1 12	22 40.23	−30 56.1	1.684	1.177	34.8	18.8	43 E	10*	37*
1 22	23 18.61	−29 6.1	1.660	1.152	35.5	18.8	43 E	10*	36*
2 1	23 57.78	−26 30.5	1.634	1.136	36.4	18.7	43 E	12*	37*
2 11	0 37.28	−23 9.8	1.610	1.128	37.3	18.7	44 E	13*	37*
2 16	0 57.02	−21 13.5	1.600	1.128	37.7	18.7	44 E	14*	37*
2 21	1 16.70	−19 7.5	1.593	1.129	38.0	18.7	45 E	15*	38*
2 26	1 36.28	−16 52.9	1.588	1.134	38.3	18.7	45 E	17*	38*
3 2	1 55.73	−14 31.3	1.587	1.140	38.4	18.7	46 E	18*	38*
3 7	2 15.01	−12 4.0	1.590	1.149	38.4	18.7	46 E	19*	38*
3 12	2 34.11	− 9 33.0	1.596	1.160	38.3	18.8	46 E	20*	38*
3 17	2 53.02	− 7 0.2	1.607	1.172	38.1	18.8	47 E	21*	38*
3 22	3 11.72	− 4 27.3	1.622	1.187	37.7	18.8	47 E	22*	38*
3 27	3 30.20	− 1 56.3	1.642	1.203	37.2	18.9	47 E	23*	37*
4 1	3 48.47	+ 0 30.9	1.666	1.221	36.6	18.9	47 E	23*	37*
4 6	4 6.50	+ 2 52.8	1.695	1.240	35.8	19.0	47 E	24*	36*
4 11	4 24.30	+ 5 8.2	1.727	1.261	35.0	19.0	46 E	24*	35*
4 16	4 41.86	+ 7 15.8	1.764	1.283	34.1	19.1	46 E	24*	35*
4 21	4 59.18	+ 9 15.0	1.804	1.306	33.0	19.1	45 E	24*	34*
5 1	5 33.08	+12 45.9	1.893	1.354	30.9	19.3	44 E	23*	32*
5 11	6 5.96	+15 39.0	1.990	1.405	28.5	19.4	42 E	21*	30*
5 21	6 37.78	+17 55.3	2.094	1.458	26.0	19.5	39 E	19*	28*
5 31	7 8.52	+19 37.3	2.201	1.511	23.5	19.6	36 E	17*	26*

27346 2000 DN_8 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 5	7 23.48	+20 16.6	2.255	1.539	22.2	19.7	35 E	16*	24*
6 10	7 38.15	+20 48.8	2.308	1.566	21.0	19.7	34 E	15*	23*
6 15	7 52.55	+21 14.2	2.361	1.593	19.7	19.8	32 E	14*	22*
6 20	8 6.67	+21 33.4	2.413	1.621	18.5	19.8	30 E	13*	21*
6 30	8 34.12	+21 55.0	2.514	1.675	16.1	19.9	27 E	11*	18*
7 10	9 0.50	+21 57.3	2.609	1.729	13.7	20.0	24 E	9*	15*
7 20	9 25.90	+21 43.6	2.698	1.781	11.5	20.0	20 E	8*	11*
7 30	9 50.38	+21 17.0	2.777	1.833	9.5	20.1	17 E	7*	8*
8 9	10 13.99	+20 40.3	2.848	1.884	7.8	20.1	15 E	7*	4*
8 19	10 36.84	+19 55.9	2.908	1.933	6.5	20.1	13 E	6*	—
8 29	10 58.99	+19 6.1	2.958	1.981	6.0	20.2	12 E	6*	—
9 8	11 20.51	+18 13.2	2.996	2.027	6.4	20.3	13 E	5*	—
9 18	11 41.48	+17 18.9	3.023	2.071	7.4	20.4	15 W	5*	—
9 28	12 1.94	+16 25.3	3.037	2.114	8.8	20.5	19 W	10*	—
10 8	12 21.95	+15 34.1	3.040	2.155	10.4	20.6	23 W	15*	—
10 18	12 41.55	+14 47.1	3.031	2.195	12.1	20.7	27 W	20*	—
10 28	13 0.75	+14 6.2	3.011	2.233	13.7	20.8	32 W	25*	—
11 7	13 19.56	+13 32.8	2.979	2.269	15.3	20.9	37 W	31*	—
11 17	13 37.96	+13 8.9	2.936	2.303	16.8	20.9	42 W	36*	4*
11 27	13 55.91	+12 56.2	2.883	2.336	18.2	21.0	48 W	42*	8*
12 7	14 13.35	+12 56.2	2.821	2.367	19.5	21.0	53 W	46*	13*
12 17	14 30.21	+13 10.7	2.751	2.396	20.6	21.0	59 W	51*	18*
12 27	14 46.36	+13 41.2	2.674	2.423	21.5	21.0	65 W	54*	23*
1 6	15 1.66	+14 29.0	2.591	2.448	22.3	21.0	71 W	57*	28*
1 16	15 15.94	+15 35.3	2.505	2.472	22.8	20.9	77 W	60*	33*

220021 2002 QB_{16}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 28.39	− 0 59.8	1.943	1.591	30.3	20.1	55 E	40*	29*
1 2	21 57.30	+ 0 3.0	2.012	1.600	28.8	20.1	52 E	39*	25*
1 12	22 25.99	+ 1 16.7	2.084	1.612	27.2	20.2	49 E	38*	22*
1 22	22 54.37	+ 2 38.7	2.159	1.628	25.5	20.2	45 E	36*	19*
2 1	23 22.35	+ 4 6.4	2.237	1.647	23.7	20.2	42 E	34*	17*
2 11	23 49.89	+ 5 37.2	2.316	1.668	21.8	20.3	39 E	31*	15*
2 21	0 16.98	+ 7 8.5	2.397	1.692	19.8	20.3	35 E	28*	13*
3 2	0 43.62	+ 8 38.2	2.476	1.718	17.8	20.4	32 E	25*	12*
3 12	1 9.83	+10 4.1	2.555	1.746	15.7	20.4	28 E	21*	10*
3 22	1 35.63	+11 24.4	2.631	1.776	13.6	20.4	25 E	17*	9*
4 1	2 1.05	+12 37.6	2.704	1.808	11.5	20.5	21 E	14*	8*
4 11	2 26.08	+13 42.3	2.773	1.841	9.4	20.5	17 E	9*	6*
4 21	2 50.75	+14 37.4	2.836	1.875	7.3	20.5	14 E	5*	5*
5 1	3 15.03	+15 22.1	2.894	1.909	5.3	20.4	10 E	1*	3*
5 11	3 38.91	+15 55.6	2.945	1.945	3.5	20.4	7 E	—	1*
5 21	4 2.36	+16 17.5	2.988	1.981	2.4	20.4	5 E	—	—
5 31	4 25.35	+16 27.6	3.024	2.017	2.9	20.5	6 W	—	—
6 10	4 47.82	+16 25.7	3.051	2.054	4.4	20.7	9 W	—	2*
6 20	5 9.73	+16 11.8	3.069	2.090	6.2	20.8	13 W	—	7*
6 30	5 31.02	+15 46.3	3.077	2.127	8.1	20.9	17 W	—	11*
7 10	5 51.64	+15 9.3	3.076	2.163	9.9	21.1	22 W	2*	15*
7 20	6 11.54	+14 21.4	3.065	2.199	11.7	21.2	26 W	6*	19*
7 30	6 30.64	+13 23.0	3.044	2.235	13.5	21.2	31 W	11*	23*
8 9	6 48.90	+12 14.8	3.013	2.270	15.2	21.3	36 W	16*	26*
8 19	7 6.25	+10 57.5	2.971	2.305	16.7	21.4	41 W	22*	30*
8 29	7 22.61	+ 9 31.6	2.920	2.339	18.2	21.4	46 W	27*	34*
9 8	7 37.92	+ 7 58.2	2.859	2.373	19.5	21.4	52 W	32*	37*
9 18	7 52.07	+ 6 17.8	2.789	2.406	20.7	21.5	58 W	36*	41*
9 28	8 4.96	+ 4 31.5	2.711	2.438	21.6	21.5	64 W	40*	45*
10 8	8 16.44	+ 2 40.3	2.625	2.469	22.4	21.4	70 W	43*	49*
10 18	8 26.36	+ 0 45.4	2.533	2.500	22.8	21.4	77 W	44*	54*
10 28	8 34.52	− 1 11.8	2.437	2.530	23.0	21.3	84 W	44*	59*
11 7	8 40.71	− 3 9.3	2.339	2.559	22.8	21.3	91 W	42	64*
11 17	8 44.67	− 5 4.9	2.241	2.587	22.2	21.2	99 W	40	68*
11 27	8 46.17	− 6 55.1	2.147	2.614	21.1	21.1	107 W	38	71
12 7	8 45.01	− 8 36.0	2.060	2.640	19.7	21.0	116 W	36	73
12 17	8 41.12	−10 2.5	1.983	2.666	17.7	20.8	124 W	35	74
12 27	8 34.60	−11 8.7	1.922	2.690	15.5	20.7	133 W	34	75
1 6	8 25.90	−11 49.3	1.880	2.713	13.3	20.6	141 W	33	76
1 16	8 15.75	−12 0.4	1.862	2.736	11.5	20.5	146 W	33	76

162195 1999 RK_{45}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 28.44	−19 20.8	1.213	0.915	52.8	21.4	48 E	22*	36*
12 28	21 36.61	−18 35.4	1.166	0.838	55.9	21.2	45 E	22*	33*
1 2	21 44.75	−17 47.1	1.110	0.757	60.1	21.0	42 E	21*	30*
1 7	21 52.38	−16 57.1	1.043	0.675	65.8	20.8	39 E	21*	27*
1 12	21 58.66	−16 8.0	0.965	0.592	74.0	20.6	35 E	19*	23*
1 17	22 1.86	−15 25.5	0.875	0.511	86.2	20.5	31 E	17*	19*
1 22	21 58.63	−15 0.5	0.778	0.438	104.5	20.7	26 E	14*	14*

349507 2008 QY

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 29.36	−13 23.1	1.289	0.997	48.9	21.0	50 E	28*	34*
12 28	21 52.28	−10 38.0	1.338	1.049	46.8	21.1	51 E	31*	33*
1 2	22 13.28	− 7 58.7	1.392	1.098	44.6	21.2	52 E	33*	32*
1 7	22 32.66	− 5 26.6	1.450	1.146	42.5	21.4	52 E	35*	31*
1 12	22 50.65	− 3 2.4	1.512	1.193	40.5	21.5	52 E	37*	29*

444193 2005 SE_{71}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 23	21 29.79	−28 28.2	1.591	1.160	38.0	21.0	47 E	14*	39*
12 28	21 45.77	−26 8.7	1.596	1.146	37.7	20.9	45 E	16*	37*
1 2	22 1.33	−23 43.0	1.600	1.132	37.5	20.9	44 E	17*	35*
1 7	22 16.51	−21 11.8	1.604	1.117	37.2	20.9	43 E	19*	33*
1 12	22 31.37	−18 35.4	1.606	1.101	37.0	20.8	42 E	20*	31*
1 17	22 45.96	−15 54.4	1.607	1.086	36.8	20.8	41 E	22*	29*
1 22	23 0.34	−13 9.2	1.607	1.070	36.7	20.8	40 E	23*	27*
1 27	23 14.57	−10 20.3	1.605	1.053	36.5	20.7	40 E	24*	25*
2 1	23 28.70	− 7 28.0	1.603	1.037	36.5	20.7	39 E	25*	23*
2 6	23 42.80	− 4 32.8	1.598	1.020	36.4	20.6	38 E	26*	22*
2 11	23 56.93	− 1 35.3	1.593	1.004	36.5	20.6	37 E	27*	20*
2 16	0 11.16	+ 1 24.3	1.585	0.988	36.6	20.6	37 E	27*	18*
2 21	0 25.58	+ 4 25.4	1.577	0.972	36.8	20.5	36 E	27*	16*
2 26	0 40.27	+ 7 27.4	1.566	0.956	37.2	20.5	36 E	28*	15*
3 2	0 55.32	+10 29.8	1.554	0.942	37.6	20.4	35 E	28*	13*
3 7	1 10.82	+13 31.7	1.540	0.928	38.1	20.4	35 E	28*	12*
3 12	1 26.90	+16 32.3	1.524	0.914	38.8	20.4	35 E	29*	11*
3 17	1 43.69	+19 30.4	1.507	0.902	39.6	20.3	35 E	29*	10*
3 22	2 1.32	+22 24.9	1.488	0.892	40.6	20.3	36 E	29*	9*
3 27	2 19.94	+25 14.2	1.468	0.882	41.6	20.3	36 E	30*	8*
4 1	2 39.71	+27 56.4	1.446	0.875	42.8	20.3	36 E	30*	7*
4 6	3 0.77	+30 29.2	1.423	0.869	44.0	20.3	37 E	31*	7*
4 11	3 23.27	+32 50.1	1.400	0.864	45.3	20.2	38 E	32*	7*
4 16	3 47.32	+34 55.8	1.376	0.862	46.7	20.2	39 E	33*	7*
4 21	4 12.96	+36 43.2	1.351	0.862	48.0	20.2	40 E	33*	8*
4 26	4 40.15	+38 8.7	1.328	0.863	49.3	20.2	41 E	34*	8*
5 1	5 8.72	+39 8.8	1.304	0.867	50.5	20.2	42 E	35*	10*
5 6	5 38.34	+39 40.2	1.283	0.872	51.7	20.3	43 E	36*	11*
5 11	6 8.58	+39 40.8	1.262	0.879	52.7	20.3	44 E	37*	13*
5 16	6 38.94	+39 9.2	1.244	0.888	53.5	20.3	45 E	37*	15*
5 21	7 8.87	+38 5.7	1.229	0.898	54.2	20.3	46 E	37*	17*
5 26	7 37.90	+36 31.7	1.216	0.909	54.6	20.3	47 E	37*	19*
5 31	8 5.67	+34 30.2	1.207	0.922	54.9	20.3	48 E	36*	22*
6 5	8 31.92	+32 4.6	1.201	0.936	55.0	20.4	49 E	35*	25*
6 10	8 56.57	+29 19.0	1.199	0.950	54.9	20.4	50 E	34*	28*
6 15	9 19.62	+26 17.8	1.200	0.965	54.7	20.4	51 E	32*	31*
6 20	9 41.18	+23 5.1	1.205	0.981	54.3	20.4	52 E	30*	34*
6 25	10 1.37	+19 44.5	1.213	0.997	53.7	20.5	52 E	28*	36*
6 30	10 20.35	+16 19.5	1.224	1.014	53.0	20.5	53 E	25*	39*
7 5	10 38.27	+12 52.9	1.239	1.030	52.3	20.6	53 E	23*	41*
7 10	10 55.30	+ 9 27.2	1.256	1.047	51.4	20.6	54 E	21*	43*
7 15	11 11.59	+ 6 4.0	1.276	1.063	50.5	20.6	54 E	18*	45*
7 20	11 27.28	+ 2 44.9	1.298	1.079	49.6	20.7	54 E	16*	46*
7 25	11 42.50	− 0 29.1	1.322	1.095	48.6	20.7	54 E	14*	47*
7 30	11 57.36	− 3 37.2	1.347	1.110	47.6	20.8	54 E	12*	47*
8 4	12 11.97	− 6 38.9	1.373	1.125	46.6	20.8	54 E	10*	48*
8 9	12 26.41	− 9 33.9	1.400	1.140	45.6	20.9	54 E	8*	48*
8 14	12 40.78	−12 21.8	1.428	1.154	44.7	20.9	53 E	6*	47*
8 19	12 55.16	−15 2.7	1.456	1.167	43.7	20.9	53 E	5*	47*
8 24	13 9.63	−17 36.4	1.484	1.180	42.7	21.0	52 E	3*	46*
8 29	13 24.25	−20 2.9	1.512	1.192	41.8	21.0	52 E	2*	45*
9 3	13 39.07	−22 22.1	1.540	1.204	40.9	21.0	51 E	1*	44*
9 8	13 54.16	−24 34.0	1.568	1.214	40.0	21.1	51 E	—	43*
9 13	14 9.57	−26 38.3	1.595	1.224	39.1	21.1	50 E	—	42*
9 18	14 25.36	−28 35.0	1.621	1.233	38.3	21.1	49 E	—	41*
9 23	14 41.56	−30 23.9	1.646	1.241	37.5	21.2	49 E	—	41*
9 28	14 58.21	−32 4.7	1.671	1.249	36.7	21.2	48 E	—	40*
10 3	15 15.32	−33 37.0	1.695	1.255	35.9	21.2	47 E	—	39*
10 8	15 32.93	−35 0.5	1.718	1.261	35.1	21.2	47 E	—	38*
10 13	15 51.03	−36 14.8	1.740	1.266	34.4	21.2	46 E	—	38*
10 18	16 9.61	−37 19.5	1.761	1.270	33.7	21.3	45 E	—	37*
10 23	16 28.66	−38 14.1	1.780	1.273	33.0	21.3	44 E	—	36*
10 28	16 48.12	−38 58.3	1.799	1.276	32.4	21.3	43 E	—	36*
11 2	17 7.94	−39 31.5	1.817	1.277	31.7	21.3	43 E	—	35*
11 7	17 28.04	−39 53.4	1.833	1.277	31.1	21.3	42 E	—	35*
11 12	17 48.35	−40 3.9	1.849	1.277	30.5	21.3	41 E	—	34*
11 17	18 8.78	−40 2.6	1.863	1.276	29.9	21.3	40 E	—	33*
11 22	18 29.23	−39 49.7	1.877	1.274	29.3	21.3	39 E	—	33*
11 27	18 49.59	−39 25.1	1.889	1.271	28.7	21.3	38 E	—	32*
12 2	19 9.77	−38 49.0	1.901	1.267	28.2	21.3	37 E	—	31*
12 7	19 29.69	−38 1.6	1.911	1.262	27.6	21.2	36 E	1*	30*
12 12	19 49.28	−37 3.5	1.921	1.257	27.1	21.2	35 E	2*	29*
12 17	20 8.49	−35 54.9	1.929	1.250	26.5	21.2	35 E	2*	29*
12 22	20 27.28	−34 36.5	1.937	1.243	26.0	21.2	34 E	3*	28*
12 27	20 45.61	−33 8.8	1.944	1.235	25.4	21.2	33 E	4*	26*
1 1	21 3.47	−31 32.4	1.949	1.226	24.9	21.1	32 E	5*	25*
1 6	21 20.87	−29 47.9	1.954	1.216	24.3	21.1	31 E	6*	24*
1 11	21 37.82	−27 55.8	1.958	1.206	23.8	21.1	30 E	7*	23*
1 16	21 54.36	−25 56.8	1.961	1.195	23.2	21.0	29 E	8*	22*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
				267221 2001 AD_2					
	h m	° ′			°	m	°	°	°
12 23	21 30.66	−22 33.5	0.156	0.886	124.9	20.6	48 E	19*	38*
12 24	21 52.63	−21 18.7	0.150	0.899	120.6	20.2	52 E	22*	41*
12 25	22 15.64	−19 47.3	0.145	0.911	115.9	19.9	56 E	24*	45*
12 26	22 39.31	−17 59.6	0.142	0.924	110.9	19.5	61 E	27*	49*
12 27	23 3.17	−15 57.6	0.140	0.936	105.7	19.2	66 E	29*	52*
12 28	23 26.75	−13 44.8	0.140	0.948	100.4	19.0	72 E	31	56*
12 29	23 49.59	−11 25.4	0.142	0.960	95.2	18.8	77 E	34	59*
12 30	0 11.34	− 9 4.3	0.145	0.972	90.1	18.6	81 E	36	61*
12 31	0 31.73	− 6 45.8	0.149	0.984	85.4	18.5	86 E	38	62*
1 1	0 50.62	− 4 33.4	0.155	0.996	80.9	18.5	90 E	40	63*
1 2	1 7.98	− 2 29.4	0.162	1.007	76.9	18.4	94 E	43	63*
1 3	1 23.82	− 0 35.1	0.169	1.019	73.2	18.4	97 E	44	62*
1 4	1 38.23	+ 1 9.0	0.178	1.030	69.9	18.5	100 E	46	62*
1 5	1 51.31	+ 2 43.2	0.187	1.041	67.0	18.5	103 E	48	61*
1 6	2 3.19	+ 4 8.0	0.197	1.052	64.4	18.6	105 E	49	60*
1 7	2 13.99	+ 5 24.2	0.208	1.063	62.1	18.6	107 E	50	58*
1 8	2 23.81	+ 6 32.6	0.219	1.074	60.1	18.7	109 E	52	57*
1 9	2 32.78	+ 7 34.1	0.230	1.085	58.3	18.8	110 E	53	56*
1 10	2 40.99	+ 8 29.5	0.242	1.095	56.7	18.9	111 E	53	56
1 11	2 48.53	+ 9 19.4	0.254	1.106	55.3	19.0	112 E	54	55
1 12	2 55.47	+10 4.6	0.267	1.116	54.0	19.0	113 E	55	54
1 14	3 7.84	+11 23.0	0.292	1.136	51.9	19.2	115 E	56	53
1 16	3 18.56	+12 28.5	0.318	1.156	50.2	19.4	115 E	57	52
1 18	3 27.97	+13 23.9	0.345	1.176	48.8	19.6	116 E	58	51
1 20	3 36.34	+14 11.3	0.373	1.195	47.7	19.7	116 E	59	50
1 22	3 43.88	+14 52.4	0.400	1.214	46.8	19.9	116 E	60	49
1 24	3 50.75	+15 28.5	0.429	1.232	46.1	20.1	116 E	60	49
1 26	3 57.07	+16 0.4	0.457	1.250	45.5	20.2	115 E	61	48
1 28	4 2.94	+16 28.9	0.486	1.267	44.9	20.4	115 E	61	48
1 30	4 8.44	+16 54.5	0.516	1.284	44.5	20.5	114 E	62	47
2 1	4 13.63	+17 17.7	0.545	1.301	44.1	20.6	113 E	62	47
2 6	4 25.58	+18 7.3	0.620	1.341	43.3	21.0	111 E	63	46
2 11	4 36.48	+18 47.8	0.696	1.379	42.7	21.3	109 E	64	45
2 16	4 46.68	+19 21.5	0.773	1.414	42.1	21.5	106 E	64	45*
2 21	4 56.44	+19 49.9	0.851	1.447	41.6	21.8	104 E	65	44*
				416801 2005 GC_{120}					
12 23	21 31.26	−23 23.8	0.852	0.751	75.4	21.3	48 E	19*	38*
12 28	22 4.77	−19 25.7	0.827	0.793	74.7	21.3	51 E	23*	40*
1 2	22 36.58	−14 59.8	0.814	0.838	73.1	21.3	55 E	28*	40*
1 7	23 6.58	−10 18.0	0.812	0.882	70.8	21.4	58 E	33*	41*
1 12	23 34.76	− 5 32.7	0.821	0.928	68.1	21.4	61 E	38*	40*
1 17	0 1.21	− 0 54.4	0.840	0.972	65.3	21.5	64 E	42*	39*
				4953 1990 MU					
12 23	21 31.31	−34 44.7	3.254	2.673	15.5	19.6	46 E	8*	40*
1 2	21 45.93	−33 13.0	3.351	2.681	13.8	19.7	40 E	7*	34*
1 12	22 0.78	−31 40.8	3.434	2.685	12.1	19.7	35 E	6*	29*
1 22	22 15.78	−30 8.1	3.500	2.687	10.4	19.6	29 E	3*	23*
2 1	22 30.86	−28 35.2	3.550	2.686	8.8	19.6	25 E	—	19*
2 11	22 45.98	−27 2.5	3.582	2.683	7.5	19.6	21 E	—	14*
2 21	23 1.09	−25 30.5	3.597	2.676	6.7	19.5	18 E	—	10*
3 2	23 16.17	−23 59.7	3.594	2.667	6.5	19.5	18 E	—	7*
3 12	23 31.21	−22 30.7	3.574	2.656	7.1	19.5	19 E	—	3*
3 22	23 46.19	−21 4.0	3.537	2.641	8.2	19.5	22 W	—	8*
4 1	0 1.10	−19 40.2	3.483	2.624	9.7	19.5	26 W	—	13*
4 11	0 15.93	−18 20.2	3.414	2.604	11.4	19.5	31 W	—	19*
4 21	0 30.69	−17 4.6	3.329	2.581	13.1	19.5	36 W	—	25*
5 1	0 45.36	−15 54.2	3.231	2.556	15.0	19.5	41 W	—	31*
5 11	0 59.93	−14 49.9	3.119	2.527	16.8	19.5	46 W	—	38*
5 21	1 14.39	−13 52.6	2.996	2.496	18.5	19.4	52 W	—	44*
5 31	1 28.71	−13 3.2	2.862	2.461	20.2	19.3	57 W	—	50*
6 10	1 42.85	−12 23.0	2.718	2.423	21.8	19.3	63 W	3*	56*
6 20	1 56.78	−11 53.0	2.567	2.383	23.3	19.1	68 W	7*	62*
6 30	2 10.42	−11 34.9	2.410	2.339	24.7	19.0	74 W	12*	67*
7 10	2 23.67	−11 30.0	2.247	2.292	25.9	18.8	80 W	17*	71*
7 20	2 36.43	−11 40.3	2.081	2.241	26.9	18.7	85 W	22*	75*
7 30	2 48.50	−12 7.8	1.914	2.187	27.7	18.4	91 W	26*	76*
8 9	2 59.66	−12 54.7	1.747	2.129	28.2	18.2	97 W	29*	77
8 19	3 9.61	−14 3.6	1.581	2.068	28.4	17.9	104 W	30*	78
8 29	3 17.90	−15 37.5	1.420	2.003	28.3	17.6	110 W	29*	80
9 8	3 23.97	−17 38.7	1.265	1.934	27.9	17.3	116 W	27	82
9 18	3 26.99	−20 9.6	1.118	1.860	27.2	16.9	122 W	25	84
9 23	3 27.01	−21 36.2	1.048	1.822	26.7	16.7	125 W	23	86
9 28	3 25.81	−23 9.8	0.982	1.783	26.3	16.5	128 W	22	87
10 3	3 23.21	−24 49.8	0.919	1.742	26.0	16.3	130 W	20	89
10 8	3 18.98	−26 34.7	0.859	1.701	25.7	16.1	132 W	18	89
10 13	3 12.86	−28 22.8	0.803	1.658	25.8	15.9	134 W	17	88
10 18	3 4.59	−30 10.9	0.751	1.614	26.2	15.7	134 W	15	86
10 23	2 53.96	−31 54.6	0.704	1.568	27.1	15.5	134 W	13	84

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
				4953 1990 MU *(continuation)*					
	h m	° ′			°	m	°	°	°
10 28	2 40.82	−33 28.8	0.661	1.522	28.6	15.4	133 W	12	83
11 2	2 25.17	−34 47.2	0.622	1.474	30.8	15.2	130 E	10	81
11 7	2 7.13	−35 43.0	0.588	1.425	33.7	15.1	127 E	9	80
11 12	1 47.12	−36 9.4	0.559	1.375	37.3	15.0	123 E	9	80
11 17	1 25.77	−36 1.0	0.533	1.323	41.4	15.0	118 E	9	80
11 22	1 3.88	−35 14.3	0.511	1.270	46.1	14.9	112 E	10	81
11 27	0 42.20	−33 49.3	0.491	1.216	51.3	14.9	106 E	11	82
12 2	0 21.25	−31 47.9	0.475	1.161	57.0	14.9	99 E	13	84
12 7	0 1.29	−29 13.4	0.459	1.104	63.0	14.9	92 E	16	86*
12 12	23 42.25	−26 10.0	0.445	1.047	69.6	14.9	85 E	19	78*
12 17	23 23.81	−22 41.6	0.432	0.988	76.8	14.9	78 E	22	68*
12 22	23 5.32	−18 52.2	0.420	0.930	84.6	15.0	70 E	26	58*
12 27	22 45.93	−14 46.2	0.409	0.871	93.4	15.2	62 E	30*	47*
1 1	22 24.68	−10 29.6	0.400	0.812	103.0	15.4	54 E	32*	36*
1 6	22 0.68	− 6 13.1	0.396	0.756	113.6	15.9	45 E	31*	24*
1 8	21 50.20	− 4 34.4	0.395	0.733	118.0	16.1	41 E	30*	19*
1 10	21 39.22	− 3 0.1	0.397	0.712	122.4	16.4	38 E	29*	15*
1 12	21 27.79	− 1 32.0	0.399	0.691	126.7	16.7	34 E	27*	10*
1 14	21 16.00	− 0 12.0	0.404	0.671	130.8	17.1	31 E	25*	5*
1 16	21 3.98	+ 0 58.0	0.410	0.652	134.4	17.4	28 E	22*	—
				428658 2008 GJ_{82}					
12 23	21 31.76	−15 50.9	2.167	1.703	26.1	21.2	50 E	26*	36*
1 2	21 58.59	−13 58.4	2.262	1.733	24.2	21.3	46 E	26*	31*
1 12	22 24.54	−11 56.3	2.357	1.764	22.2	21.4	43 E	26*	27*
1 22	22 49.64	− 9 47.6	2.452	1.797	20.2	21.4	39 E	25*	24*
2 1	23 13.96	− 7 34.6	2.546	1.831	18.1	21.5	35 E	23*	20*
				383218 2005 YX_{220}					
12 23	21 31.96	− 0 1.8	2.967	2.549	18.6	20.9	56 E	41*	29*
1 2	21 46.31	+ 1 29.5	3.110	2.591	16.9	21.0	50 E	39*	22*
1 12	22 0.77	+ 3 5.0	3.245	2.633	15.1	21.1	44 E	36*	15*
1 22	22 15.27	+ 4 44.6	3.369	2.674	13.3	21.1	39 E	32*	9*
2 1	22 29.78	+ 6 28.0	3.481	2.714	11.5	21.2	33 E	27*	4*
2 11	22 44.24	+ 8 14.7	3.582	2.753	9.8	21.2	28 E	22*	—
2 21	22 58.61	+10 4.3	3.669	2.792	8.2	21.2	24 E	17*	—
3 2	23 12.87	+11 56.4	3.742	2.830	6.8	21.2	20 E	11*	—
3 12	23 26.98	+13 50.5	3.801	2.867	5.9	21.3	17 W	7*	—
3 22	23 40.93	+15 46.1	3.846	2.903	5.5	21.3	16 W	9*	—
4 1	23 54.68	+17 42.9	3.876	2.938	5.9	21.3	18 W	12*	—
4 11	0 8.21	+19 40.3	3.891	2.973	6.8	21.4	21 W	14*	4*
				495615 2015 PQ_{291}					
12 23	21 32.21	−25 14.9	0.472	0.750	104.9	19.3	47 E	17*	39*
12 25	21 41.74	−27 48.5	0.468	0.750	105.4	19.3	47 E	15*	39*
12 27	21 51.22	−30 22.5	0.466	0.749	105.7	19.3	47 E	12*	40*
12 29	22 0.62	−32 55.8	0.465	0.749	105.8	19.3	47 E	10*	41*
12 31	22 9.91	−35 27.1	0.465	0.750	105.7	19.3	47 E	7*	41*
1 2	22 19.05	−37 55.3	0.466	0.751	105.4	19.3	47 E	5*	41*
1 4	22 28.03	−40 19.4	0.469	0.752	104.9	19.3	48 E	2*	42*
1 6	22 36.80	−42 38.5	0.472	0.755	104.2	19.3	48 E	—	42*
1 8	22 45.35	−44 52.1	0.476	0.757	103.4	19.3	49 E	—	42*
1 10	22 53.64	−46 59.7	0.481	0.760	102.5	19.3	49 E	—	42*
1 12	23 1.66	−49 1.0	0.486	0.764	101.5	19.2	50 E	—	41*
1 17	23 20.35	−53 35.9	0.501	0.774	98.7	19.2	51 E	—	41*
1 22	23 36.94	−57 31.3	0.517	0.787	95.8	19.2	53 E	—	39*
1 27	23 51.31	−60 51.0	0.532	0.802	92.9	19.2	54 E	—	38*
2 1	0 3.40	−63 40.0	0.545	0.819	90.2	19.1	56 E	—	37*
2 6	0 13.26	−66 3.3	0.555	0.837	87.7	19.1	58 E	—	35*
2 11	0 21.03	−68 5.1	0.562	0.857	85.5	19.1	60 E	—	34*
2 13	0 23.60	−68 48.7	0.564	0.865	84.6	19.1	61 E	—	34*
2 15	0 25.90	−69 29.7	0.565	0.873	83.8	19.1	61 E	—	33*
2 17	0 27.96	−70 8.4	0.565	0.881	83.1	19.1	62 E	—	33*
2 19	0 29.78	−70 45.0	0.565	0.889	82.4	19.1	63 E	—	32*
2 21	0 31.40	−71 19.8	0.564	0.898	81.7	19.1	64 E	—	32*
2 23	0 32.84	−71 52.9	0.563	0.906	81.0	19.1	65 E	—	31*
2 25	0 34.11	−72 24.6	0.560	0.915	80.4	19.1	66 E	—	31*
2 27	0 35.25	−72 55.1	0.557	0.923	79.8	19.0	67 E	—	30*
2 29	0 36.26	−73 24.6	0.553	0.932	79.2	19.0	67 E	—	30*
3 2	0 37.18	−73 53.4	0.549	0.940	78.7	19.0	68 E	—	29*
3 4	0 38.01	−74 21.6	0.544	0.949	78.1	19.0	69 E	—	29*
3 6	0 38.79	−74 49.5	0.538	0.957	77.6	19.0	70 E	—	29*
3 8	0 39.53	−75 17.2	0.532	0.965	77.1	18.9	71 E	—	28*
3 10	0 40.27	−75 45.0	0.525	0.974	76.6	18.9	72 E	—	28*
3 12	0 41.03	−76 13.1	0.517	0.982	76.1	18.9	74 E	—	27*
3 14	0 41.84	−76 41.7	0.509	0.990	75.6	18.9	75 E	—	27*
3 16	0 42.74	−77 11.2	0.500	0.998	75.1	18.8	76 E	—	27*
3 18	0 43.77	−77 41.8	0.491	1.006	74.6	18.8	77 E	—	27*
3 20	0 44.97	−78 13.9	0.481	1.014	74.0	18.7	78 E	—	26*
3 22	0 46.38	−78 47.8	0.471	1.022	73.5	18.7	80 E	—	26*

495615 2015 PQ_{291} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 24	0 48.07	−79 23.9	0.460	1.030	72.9	18.6	81 E	—	26*
3 26	0 50.11	−80 2.6	0.448	1.038	72.3	18.6	82 E	—	26*
3 28	0 52.63	−80 44.4	0.436	1.045	71.7	18.5	84 E	—	26*
3 30	0 55.78	−81 29.8	0.424	1.053	71.0	18.4	85 E	—	26*
4 1	0 59.86	−82 19.2	0.412	1.060	70.3	18.4	87 E	—	26*
4 2	1 2.37	−82 45.6	0.405	1.063	69.9	18.3	88 E	—	26*
4 3	1 5.33	−83 13.2	0.399	1.067	69.5	18.3	89 E	—	26*
4 4	1 8.84	−83 42.1	0.392	1.070	69.1	18.2	89 E	—	26*
4 5	1 13.11	−84 12.4	0.386	1.074	68.7	18.2	90 E	—	26*
4 6	1 18.40	−84 44.1	0.379	1.077	68.2	18.2	91 E	—	26*
4 7	1 25.17	−85 17.2	0.372	1.081	67.7	18.1	92 E	—	26*
4 8	1 34.14	−85 51.7	0.366	1.084	67.2	18.1	93 E	—	26*
4 9	1 46.60	−86 27.7	0.359	1.088	66.7	18.0	94 E	—	26*
4 10	2 5.06	−87 4.6	0.352	1.091	66.2	18.0	95 E	—	26*
4 11	2 34.82	−87 41.8	0.345	1.094	65.6	17.9	96 E	—	27*
4 12	3 28.27	−88 16.8	0.338	1.097	65.0	17.8	97 E	—	27*
4 13	5 10.87	−88 42.3	0.331	1.101	64.4	17.8	98 E	—	27*
4 14	7 41.18	−88 42.6	0.324	1.104	63.7	17.7	99 E	—	27
4 15	9 33.73	−88 13.5	0.318	1.107	63.0	17.7	101 E	—	28
4 16	10 32.96	−87 28.1	0.311	1.110	62.2	17.6	102 E	—	29
4 17	11 5.44	−86 34.3	0.304	1.113	61.5	17.5	103 E	—	29
4 18	11 25.35	−85 34.7	0.297	1.116	60.6	17.5	104 E	—	30
4 19	11 38.71	−84 30.3	0.290	1.119	59.7	17.4	106 E	—	31
4 20	11 48.32	−83 21.2	0.284	1.122	58.8	17.3	107 E	—	33
4 21	11 55.61	−82 7.5	0.277	1.125	57.9	17.3	109 E	—	34
4 22	12 1.37	−80 48.9	0.271	1.128	56.8	17.2	110 E	—	35
4 23	12 6.07	−79 25.4	0.265	1.130	55.8	17.1	112 E	—	37
4 24	12 10.01	−77 56.8	0.258	1.133	54.6	17.0	113 E	—	38
4 25	12 13.39	−76 22.7	0.252	1.136	53.4	16.9	115 E	—	40
4 26	12 16.36	−74 43.0	0.247	1.138	52.2	16.9	117 E	—	41
4 27	12 19.00	−72 57.5	0.241	1.141	50.9	16.8	118 E	—	43
4 28	12 21.38	−71 6.0	0.236	1.144	49.6	16.7	120 E	—	45
4 29	12 23.56	−69 8.4	0.231	1.146	48.2	16.6	122 E	—	47
4 30	12 25.58	−67 4.6	0.226	1.149	46.7	16.5	124 E	—	49
5 1	12 27.46	−64 54.6	0.221	1.151	45.3	16.5	126 E	—	51
5 2	12 29.23	−62 38.4	0.217	1.154	43.8	16.4	128 E	—	53
5 3	12 30.91	−60 16.2	0.214	1.156	42.3	16.3	130 E	—	56
5 4	12 32.52	−57 48.3	0.210	1.158	40.8	16.2	131 E	—	58
5 5	12 34.06	−55 15.0	0.207	1.161	39.3	16.2	133 E	—	61
5 6	12 35.54	−52 36.8	0.205	1.163	37.9	16.1	135 E	—	63
5 7	12 36.98	−49 54.4	0.203	1.165	36.5	16.1	137 E	—	66
5 8	12 38.37	−47 8.4	0.202	1.167	35.3	16.0	138 E	—	69
5 9	12 39.73	−44 19.8	0.201	1.169	34.2	16.0	139 E	1	72
5 10	12 41.06	−41 29.3	0.200	1.171	33.2	15.9	141 E	4	75
5 11	12 42.37	−38 38.1	0.200	1.173	32.5	15.9	141 E	6	77
5 12	12 43.65	−35 47.1	0.201	1.175	31.9	15.9	142 E	9	80
5 13	12 44.91	−32 57.3	0.202	1.177	31.6	15.9	142 E	12	83
5 14	12 46.16	−30 9.7	0.204	1.179	31.5	15.9	142 E	15	86
5 15	12 47.40	−27 25.2	0.206	1.181	31.6	16.0	142 E	18	89
5 16	12 48.63	−24 44.5	0.209	1.183	31.9	16.0	142 E	20	89
5 17	12 49.85	−22 8.5	0.212	1.184	32.3	16.1	141 E	23	86
5 18	12 51.06	−19 37.5	0.216	1.186	33.0	16.1	140 E	25	84
5 19	12 52.27	−17 12.2	0.220	1.188	33.7	16.2	139 E	28	81
5 20	12 53.48	−14 52.8	0.225	1.189	34.5	16.3	138 E	30	79
5 21	12 54.69	−12 39.5	0.230	1.191	35.4	16.3	137 E	32	77
5 26	13 0.72	− 3 6.2	0.261	1.198	40.3	16.8	130 E	42	67
5 31	13 6.83	+ 4 5.5	0.298	1.204	44.7	17.2	123 E	49	60
6 5	13 13.04	+ 9 25.0	0.339	1.209	48.2	17.6	117 E	54*	55
6 10	13 19.36	+13 21.3	0.382	1.212	50.9	17.9	112 E	58*	51
6 12	13 21.91	+14 37.8	0.400	1.213	51.7	18.0	110 E	59*	49
6 14	13 24.49	+15 45.7	0.418	1.214	52.5	18.2	108 E	60*	48
6 16	13 27.09	+16 46.0	0.435	1.215	53.2	18.3	107 E	61*	47
6 18	13 29.72	+17 39.7	0.453	1.215	53.8	18.4	105 E	61*	46
6 20	13 32.37	+18 27.3	0.471	1.216	54.4	18.5	103 E	62*	46
6 25	13 39.12	+20 4.5	0.516	1.216	55.5	18.7	100 E	62*	44
6 30	13 46.05	+21 16.5	0.559	1.214	56.3	18.9	96 E	62*	43
7 5	13 53.14	+22 9.5	0.602	1.212	56.9	19.1	93 E	61*	42
7 10	14 0.38	+22 47.8	0.642	1.209	57.3	19.2	91 E	60*	41
7 15	14 7.80	+23 14.3	0.680	1.204	57.6	19.3	88 E	60*	41
7 20	14 15.39	+23 31.4	0.717	1.198	57.8	19.5	86 E	59*	40
7 25	14 23.18	+23 41.1	0.750	1.191	57.9	19.5	83 E	58*	40
7 30	14 31.18	+23 44.7	0.781	1.183	58.0	19.6	81 E	57*	40
8 4	14 39.36	+23 43.5	0.808	1.173	58.2	19.7	79 E	56*	40*
8 9	14 47.75	+23 38.3	0.833	1.163	58.3	19.7	77 E	56*	40*
8 14	14 56.35	+23 29.7	0.853	1.151	58.5	19.8	76 E	55*	40*
8 19	15 5.19	+23 18.1	0.871	1.138	58.7	19.8	74 E	55*	39*
8 29	15 23.63	+22 47.6	0.893	1.110	59.4	19.8	71 E	54*	38*
9 8	15 43.16	+22 8.9	0.900	1.077	60.5	19.8	69 E	53*	36*

495615 2015 PQ_{291} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 18	16 3.93	+21 21.1	0.889	1.041	62.2	19.7	66 E	53*	34*
9 28	16 26.16	+20 22.0	0.861	1.002	64.6	19.7	65 E	52*	32*
10 3	16 37.88	+19 46.5	0.840	0.982	66.1	19.6	64 E	52*	31*
10 8	16 50.03	+19 5.6	0.815	0.961	67.9	19.6	63 E	52*	30*
10 13	17 2.66	+18 17.4	0.786	0.940	70.0	19.5	62 E	51*	29*
10 18	17 15.81	+17 19.9	0.753	0.919	72.4	19.4	62 E	51*	28*
10 23	17 29.53	+16 10.2	0.717	0.898	75.2	19.4	61 E	50*	27*
10 28	17 43.83	+14 44.4	0.677	0.877	78.3	19.3	60 E	50*	27*
11 2	17 58.74	+12 57.0	0.635	0.857	82.0	19.2	59 E	48*	26*
11 7	18 14.30	+10 41.1	0.591	0.837	86.1	19.2	57 E	47*	26*
11 9	18 20.71	+ 9 36.8	0.573	0.830	87.9	19.2	57 E	46*	26*
11 11	18 27.23	+ 8 25.8	0.555	0.823	89.8	19.2	56 E	45*	26*
11 13	18 33.86	+ 7 7.4	0.537	0.815	91.7	19.2	55 E	44*	26*
11 15	18 40.61	+ 5 40.8	0.519	0.809	93.8	19.2	55 E	43*	26*
11 17	18 47.46	+ 4 5.2	0.501	0.802	95.9	19.2	54 E	41*	27*
11 19	18 54.42	+ 2 19.8	0.484	0.796	98.1	19.2	53 E	40*	27*
11 21	19 1.47	+ 0 23.7	0.467	0.790	100.4	19.2	52 E	38*	28*
11 23	19 8.62	− 1 44.0	0.451	0.784	102.8	19.2	51 E	37*	28*
11 25	19 15.86	− 4 3.9	0.436	0.779	105.2	19.2	50 E	34*	29*
11 27	19 23.18	− 6 36.7	0.421	0.774	107.6	19.3	48 E	32*	29*
12 2	19 41.73	−13 55.6	0.391	0.764	113.3	19.4	45 E	26*	31*
12 7	20 0.48	−22 28.0	0.370	0.756	118.0	19.6	43 E	18*	33*
12 12	20 19.09	−31 45.7	0.360	0.751	120.6	19.8	41 E	9*	34*
12 17	20 37.11	−41 3.0	0.363	0.749	120.4	19.7	41 E	—	35*
12 19	20 44.02	−44 35.2	0.367	0.749	119.6	19.7	41 E	—	35*
12 21	20 50.67	−47 57.5	0.373	0.750	118.4	19.7	42 E	—	35*
12 23	20 57.03	−51 8.2	0.381	0.751	116.9	19.6	43 E	—	34*
12 25	21 3.04	−54 6.2	0.389	0.753	115.1	19.5	44 E	—	34*
12 27	21 8.63	−56 50.9	0.399	0.755	113.3	19.5	45 E	—	33*
12 29	21 13.76	−59 22.1	0.409	0.758	111.3	19.4	46 E	—	33*
12 31	21 18.37	−61 40.0	0.421	0.761	109.3	19.4	47 E	—	32*
1 2	21 22.40	−63 45.1	0.432	0.764	107.2	19.3	48 E	—	31*
1 4	21 25.82	−65 38.1	0.444	0.768	105.2	19.3	49 E	—	31*
1 6	21 28.56	−67 19.5	0.457	0.773	103.3	19.2	50 E	—	30*
1 8	21 30.60	−68 50.3	0.469	0.777	101.3	19.2	51 E	—	29*
1 10	21 31.91	−70 11.2	0.481	0.782	99.5	19.2	52 E	—	29*
1 12	21 32.48	−71 22.9	0.493	0.788	97.7	19.2	53 E	—	28*
1 14	21 32.29	−72 26.2	0.504	0.794	95.9	19.1	53 E	—	27*

8034 Akka

12 23	21 32.34	−13 15.3	1.616	1.249	37.5	20.8	51 E	29*	35*
12 28	21 51.15	−11 44.0	1.653	1.274	36.4	20.9	50 E	30*	34*
1 2	22 9.33	−10 10.2	1.692	1.299	35.4	21.0	50 E	31*	32*
1 7	22 26.90	− 8 34.8	1.734	1.325	34.3	21.0	49 E	32*	31*
1 12	22 43.88	− 6 58.8	1.778	1.352	33.2	21.1	49 E	32*	30*
1 17	23 0.32	− 5 22.8	1.825	1.380	32.1	21.2	48 E	33*	28*
1 22	23 16.24	− 3 47.5	1.874	1.407	30.9	21.2	47 E	33*	27*
1 27	23 31.69	− 2 13.4	1.925	1.435	29.8	21.3	46 E	33*	26*
2 1	23 46.70	− 0 41.0	1.977	1.464	28.6	21.4	45 E	33*	24*
2 6	0 1.32	+ 0 49.4	2.030	1.492	27.5	21.4	44 E	33*	23*
2 11	0 15.56	+ 2 17.5	2.084	1.521	26.3	21.5	43 E	32*	22*

67729 2000 UQ_{23}

12 23	21 33.42	−15 50.1	2.096	1.646	27.2	20.7	50 E	26*	36*
1 2	22 0.18	−13 45.2	2.164	1.651	25.6	20.7	47 E	27*	32*
1 12	22 26.58	−11 29.0	2.232	1.658	24.0	20.8	43 E	27*	28*
1 22	22 52.59	− 9 4.0	2.299	1.668	22.2	20.8	40 E	26*	24*
2 1	23 18.22	− 6 32.7	2.366	1.681	20.4	20.8	37 E	25*	21*
2 11	23 43.48	− 3 57.9	2.432	1.695	18.6	20.8	33 E	23*	18*
2 21	0 8.42	− 1 22.1	2.497	1.712	16.7	20.8	30 E	20*	15*
3 2	0 33.09	+ 1 12.4	2.560	1.731	14.8	20.9	27 E	18*	13*
3 12	0 57.53	+ 3 43.4	2.621	1.752	12.9	20.9	23 E	15*	11*
3 22	1 21.79	+ 6 8.9	2.680	1.775	10.9	20.9	20 E	11*	9*
4 1	1 45.93	+ 8 27.1	2.736	1.799	9.0	20.9	16 E	8*	6*
4 11	2 9.97	+10 36.4	2.787	1.824	7.0	20.9	13 E	4*	4*
4 21	2 33.93	+12 35.6	2.835	1.850	5.1	20.8	9 E	1*	2*
5 1	2 57.82	+14 23.6	2.877	1.878	3.2	20.8	6 E	—	—
5 11	3 21.61	+15 59.4	2.914	1.906	1.6	20.7	3 E	—	—
5 21	3 45.29	+17 22.4	2.944	1.934	1.7	20.8	3 W	—	—
5 31	4 8.81	+18 32.3	2.968	1.964	3.3	21.0	6 W	—	—
6 10	4 32.10	+19 28.7	2.984	1.993	5.2	21.1	10 W	—	4*
6 20	4 55.11	+20 11.8	2.992	2.023	7.1	21.2	14 W	—	8*
6 30	5 17.75	+20 41.8	2.992	2.053	9.0	21.3	18 W	4*	11*
7 10	5 39.92	+20 59.2	2.983	2.083	10.9	21.4	23 W	8*	14*

253387 2003 KA_{14}

12 23	21 34.53	−19 19.4	2.075	1.616	27.5	20.7	49 E	23*	38*
1 2	22 1.97	−16 45.5	2.146	1.626	25.8	20.7	46 E	24*	33*
1 12	22 28.71	−14 1.2	2.217	1.640	24.1	20.7	43 E	24*	29*
1 22	22 54.77	−11 9.6	2.288	1.656	22.3	20.8	40 E	24*	25*

253387 2003 KA_{14} *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 1	23 20.21	− 8 13.5	2.360	1.674	20.5	20.8	36 E	23*	22*
2 11	23 45.09	− 5 15.9	2.431	1.694	18.6	20.8	33 E	22*	19*
2 21	0 9.49	− 2 19.0	2.502	1.717	16.7	20.9	30 E	20*	16*
3 2	0 33.51	+ 0 34.8	2.571	1.741	14.7	20.9	26 E	17*	13*
3 12	0 57.21	+ 3 23.6	2.638	1.767	12.7	20.9	23 E	14*	11*
3 22	1 20.68	+ 6 5.7	2.702	1.794	10.7	20.9	19 E	11*	8*
4 1	1 43.98	+ 8 39.5	2.762	1.822	8.6	20.9	16 E	8*	6*
4 11	2 7.15	+11 3.8	2.818	1.851	6.6	20.9	12 E	4*	3*
4 21	2 30.23	+13 17.6	2.869	1.881	4.5	20.9	9 E	1*	1*
5 1	2 53.25	+15 20.0	2.914	1.912	2.5	20.8	5 E	—	—
5 11	3 16.19	+17 10.4	2.953	1.943	0.6	20.7	1 E	—	—
5 21	3 39.06	+18 48.2	2.984	1.975	1.7	20.9	3 W	—	—
5 31	4 1.82	+20 13.3	3.008	2.006	3.7	21.1	7 W	—	1*
6 10	4 24.40	+21 25.5	3.023	2.038	5.7	21.2	11 W	—	5*
6 20	4 46.77	+22 25.1	3.029	2.070	7.7	21.3	16 W	3*	8*
6 30	5 8.83	+23 12.2	3.026	2.101	9.6	21.4	20 W	7*	11*

440022 2002 OZ_{16}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 34.65	− 7 13.1	1.960	1.583	29.9	21.2	53 E	34*	33*
1 2	22 1.73	− 5 3.7	2.006	1.572	28.8	21.2	50 E	35*	28*
1 12	22 29.18	− 2 43.1	2.054	1.565	27.5	21.2	47 E	35*	24*
1 22	22 56.88	− 0 13.9	2.104	1.563	26.2	21.2	45 E	34*	21*
2 1	23 24.79	+ 2 20.7	2.156	1.566	24.8	21.2	42 E	33*	18*
2 11	23 52.81	+ 4 57.5	2.211	1.574	23.3	21.2	39 E	31*	16*
2 21	0 20.94	+ 7 33.2	2.268	1.587	21.8	21.2	37 E	29*	14*
3 2	0 49.13	+10 4.4	2.329	1.605	20.1	21.3	34 E	27*	12*
3 12	1 17.36	+12 28.1	2.393	1.626	18.4	21.3	31 E	24*	11*
3 22	1 45.59	+14 41.5	2.459	1.652	16.7	21.3	28 E	21*	10*
4 1	2 13.78	+16 42.4	2.526	1.681	14.9	21.4	26 E	19*	8*
4 11	2 41.87	+18 28.9	2.595	1.713	13.0	21.4	23 E	15*	7*
4 21	3 9.79	+19 59.7	2.663	1.749	11.1	21.4	20 E	12*	6*
5 1	3 37.46	+21 13.9	2.731	1.787	9.1	21.5	16 E	9*	5*
5 11	4 4.75	+22 10.9	2.796	1.827	7.2	21.5	13 E	5*	3*
5 21	4 31.58	+22 51.0	2.859	1.868	5.2	21.5	10 E	2*	1*
5 31	4 57.84	+23 14.4	2.917	1.912	3.2	21.5	6 E	—	—
6 10	5 23.40	+23 21.9	2.970	1.956	1.2	21.4	2 E	—	—
6 20	5 48.21	+23 14.5	3.017	2.002	0.8	21.4	2 W	—	—

301962 2000 ET_{26}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 34.78	−26 41.6	2.991	2.442	17.4	20.7	48 E	16*	40*
1 2	21 49.51	−24 17.8	3.036	2.393	15.9	20.7	42 E	16*	33*
1 12	22 4.82	−21 49.4	3.070	2.343	14.2	20.6	36 E	15*	27*
1 22	22 20.61	−19 15.8	3.092	2.292	12.4	20.5	30 E	13*	21*
2 1	22 36.84	−16 36.8	3.101	2.241	10.4	20.4	24 E	10*	16*
2 11	22 53.45	−13 52.0	3.099	2.189	8.4	20.2	19 E	7*	11*
2 21	23 10.43	−11 1.5	3.085	2.137	6.3	20.1	14 E	4*	6*
3 2	23 27.79	− 8 4.9	3.059	2.086	4.2	19.9	9 E	—	2*
3 12	23 45.56	− 5 2.3	3.023	2.034	2.2	19.7	4 E	—	—
3 22	0 3.79	− 1 53.7	2.977	1.982	1.3	19.5	3 W	—	—
4 1	0 22.57	+ 1 20.8	2.923	1.931	3.0	19.6	6 W	—	—
4 11	0 41.98	+ 4 40.9	2.861	1.881	5.2	19.6	10 W	—	4*
4 21	1 2.19	+ 8 6.3	2.793	1.832	7.5	19.6	14 W	—	7*
5 1	1 23.34	+11 36.2	2.720	1.784	9.7	19.6	17 W	3*	11*
5 11	1 45.63	+15 9.5	2.643	1.738	12.0	19.5	21 W	6*	13*
5 21	2 9.31	+18 44.7	2.565	1.694	14.2	19.5	24 W	9*	16*
5 31	2 34.66	+22 19.4	2.487	1.652	16.3	19.4	27 W	12*	17*
6 5	2 48.06	+24 5.6	2.449	1.632	17.3	19.4	29 W	14*	17*
6 10	3 1.98	+25 50.3	2.411	1.613	18.3	19.4	30 W	16*	18*
6 15	3 16.49	+27 32.9	2.374	1.595	19.3	19.4	31 W	18*	18*
6 20	3 31.61	+29 12.7	2.337	1.578	20.3	19.3	33 W	20*	17*
6 25	3 47.37	+30 49.1	2.302	1.562	21.2	19.3	34 W	22*	17*
6 30	4 3.81	+32 21.0	2.269	1.547	22.0	19.3	35 W	24*	16*
7 5	4 20.93	+33 47.7	2.236	1.533	22.9	19.3	36 W	25*	16*
7 10	4 38.75	+35 8.0	2.206	1.520	23.7	19.2	37 W	27*	15*
7 15	4 57.26	+36 21.0	2.177	1.509	24.4	19.2	38 W	29*	14*
7 20	5 16.42	+37 25.7	2.150	1.499	25.1	19.2	39 W	31*	13*
7 25	5 36.17	+38 21.2	2.125	1.490	25.8	19.2	40 W	32*	12*
7 30	5 56.43	+39 6.4	2.101	1.482	26.4	19.2	40 W	33*	11*
8 4	6 17.08	+39 40.8	2.080	1.476	26.9	19.1	41 W	35*	10*
8 9	6 38.01	+40 3.7	2.060	1.472	27.4	19.1	42 W	36*	10*
8 14	6 59.07	+40 14.8	2.042	1.469	27.9	19.1	43 W	37*	9*
8 19	7 20.10	+40 14.2	2.026	1.467	28.3	19.1	43 W	37*	8*
8 24	7 40.93	+40 2.0	2.012	1.467	28.7	19.1	44 W	38*	7*
8 29	8 1.43	+39 38.7	1.999	1.468	29.0	19.1	45 W	39*	7*
9 3	8 21.47	+39 5.0	1.987	1.471	29.4	19.1	46 W	40*	6*
9 8	8 40.93	+38 21.8	1.977	1.475	29.6	19.1	46 W	40*	6*
9 13	8 59.74	+37 29.9	1.967	1.481	29.9	19.1	47 W	41*	6*
9 18	9 17.84	+36 30.7	1.958	1.488	30.2	19.1	48 W	42*	6*
9 23	9 35.18	+35 25.1	1.949	1.497	30.4	19.1	49 W	43*	6*
9 28	9 51.75	+34 14.2	1.941	1.507	30.6	19.1	50 W	44*	7*

301962 2000 ET_{26} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 8	10 22.58	+31 40.9	1.924	1.531	31.0	19.2	52 W	46*	8*
10 18	10 50.46	+28 58.4	1.905	1.559	31.5	19.2	55 W	49*	10*
10 28	11 15.57	+26 13.1	1.882	1.592	31.9	19.2	58 W	52*	12*
11 7	11 38.13	+23 29.8	1.853	1.629	32.3	19.3	61 W	55*	16*
11 17	11 58.30	+20 52.4	1.819	1.669	32.6	19.3	65 W	58*	20*
11 27	12 16.16	+18 23.8	1.777	1.711	32.8	19.3	70 W	59*	25*
12 7	12 31.73	+16 5.6	1.729	1.757	32.8	19.3	75 W	60*	30*
12 17	12 44.94	+13 59.5	1.673	1.803	32.6	19.3	81 W	59*	37*
12 27	12 55.57	+12 6.4	1.611	1.852	32.0	19.2	88 W	57	43*
1 6	13 3.39	+10 26.4	1.545	1.902	31.0	19.2	95 W	55	50*
1 16	13 8.02	+ 8 59.7	1.477	1.952	29.4	19.1	103 W	54	54*

6847 Kunz–Hallstein

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 34.93	−35 8.4	3.205	2.637	15.9	19.8	47 E	8*	41*
1 2	21 51.28	−33 6.7	3.264	2.611	14.5	19.8	42 E	8*	35*
1 12	22 7.92	−31 1.6	3.312	2.585	13.0	19.7	36 E	7*	30*
1 22	22 24.76	−28 53.2	3.349	2.558	11.5	19.7	31 E	5*	25*
2 1	22 41.74	−26 41.8	3.374	2.529	10.0	19.6	26 E	3*	20*
2 11	22 58.79	−24 27.6	3.387	2.501	8.5	19.5	22 E	—	16*
2 21	23 15.90	−22 11.2	3.388	2.471	7.3	19.4	19 E	—	12*
3 2	23 33.04	−19 52.8	3.377	2.441	6.5	19.4	16 E	—	9*
3 12	23 50.20	−17 33.1	3.355	2.410	6.2	19.3	15 E	—	5*
3 22	0 7.39	−15 12.4	3.321	2.378	6.6	19.3	16 E	—	1*
4 1	0 24.62	−12 51.3	3.277	2.346	7.5	19.3	18 W	—	6*
4 11	0 41.89	−10 30.2	3.222	2.314	8.9	19.3	21 W	—	10*
4 21	0 59.25	− 8 9.6	3.157	2.281	10.5	19.3	24 W	—	15*
5 1	1 16.69	− 5 50.0	3.084	2.247	12.3	19.2	28 W	—	20*
5 11	1 34.24	− 3 31.6	3.001	2.214	14.1	19.2	32 W	—	25*
5 21	1 51.93	− 1 14.9	2.911	2.180	16.0	19.2	36 W	—	30*
5 31	2 9.78	+ 1 0.0	2.813	2.146	17.9	19.1	40 W	2*	34*
6 10	2 27.80	+ 3 12.7	2.709	2.112	19.8	19.1	45 W	6*	38*
6 20	2 46.03	+ 5 23.4	2.599	2.077	21.6	19.0	49 W	11*	42*
6 30	3 4.45	+ 7 31.8	2.484	2.044	23.5	18.9	53 W	17*	44*
7 10	3 23.09	+ 9 38.4	2.365	2.010	25.2	18.8	57 W	24*	46*
7 20	3 41.95	+11 43.5	2.242	1.977	26.9	18.7	62 W	30*	46*
7 30	4 1.01	+13 47.7	2.117	1.944	28.5	18.6	66 W	37*	46*
8 9	4 20.27	+15 52.2	1.990	1.912	30.0	18.5	71 W	44*	46*
8 19	4 39.70	+17 58.2	1.862	1.881	31.4	18.4	75 W	51*	45*
8 29	4 59.25	+20 7.6	1.735	1.851	32.5	18.2	80 W	57*	43*
9 8	5 18.88	+22 23.0	1.609	1.823	33.4	18.0	85 W	63*	41*
9 18	5 38.51	+24 47.5	1.486	1.795	34.0	17.8	90 W	68*	39*
9 28	5 58.00	+27 24.9	1.367	1.770	34.3	17.6	95 W	72*	37*
10 8	6 17.23	+30 19.8	1.254	1.746	34.2	17.4	101 W	75	34*
10 18	6 35.98	+33 37.2	1.148	1.725	33.6	17.2	107 W	79	30
10 28	6 53.89	+37 21.7	1.053	1.706	32.4	16.9	113 W	82	27
11 2	7 2.42	+39 25.0	1.009	1.697	31.7	16.8	116 W	84	25
11 7	7 10.56	+41 36.1	0.969	1.689	30.9	16.7	119 W	87	22
11 12	7 18.22	+43 54.5	0.933	1.682	29.9	16.6	122 W	89	20
11 17	7 25.28	+46 19.8	0.900	1.675	28.9	16.5	125 W	89	18
11 22	7 31.59	+48 50.6	0.871	1.669	27.9	16.4	128 W	86	15
11 27	7 37.01	+51 25.4	0.847	1.664	26.9	16.3	130 W	84	13
12 2	7 41.36	+54 1.8	0.827	1.660	26.0	16.2	132 W	81	10
12 7	7 44.43	+56 37.2	0.812	1.656	25.3	16.1	134 W	78	7
12 12	7 45.95	+59 8.3	0.801	1.653	24.7	16.1	135 W	76	5
12 17	7 45.69	+61 31.6	0.794	1.651	24.4	16.0	136 W	73	2
12 22	7 43.50	+63 43.2	0.792	1.650	24.3	16.0	136 W	71	—
12 27	7 39.32	+65 39.8	0.794	1.649	24.5	16.0	136 W	69	—
1 1	7 33.25	+67 18.4	0.800	1.649	24.9	16.1	135 W	68	—
1 6	7 25.63	+68 36.7	0.809	1.650	25.5	16.1	134 W	66	—
1 8	7 22.27	+69 2.0	0.814	1.651	25.7	16.1	133 W	66	—
1 10	7 18.81	+69 23.8	0.819	1.652	26.0	16.1	133 E	66	—
1 12	7 15.31	+69 42.1	0.825	1.653	26.3	16.2	132 E	65	—
1 14	7 11.81	+69 56.9	0.831	1.654	26.6	16.2	131 E	65	—
1 16	7 8.40	+70 8.2	0.838	1.655	26.9	16.2	130 E	65	—

302831 2003 *FH*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 35.46	−16 39.2	1.107	0.894	57.7	21.1	50 E	25*	37*
12 28	22 0.71	−12 20.0	1.130	0.940	55.8	21.2	52 E	30*	36*
1 2	22 23.82	− 8 6.1	1.162	0.987	53.7	21.3	54 E	34*	35*
1 7	22 45.11	− 4 3.0	1.202	1.034	51.5	21.4	55 E	37*	33*
1 12	23 4.87	− 0 13.8	1.248	1.081	49.3	21.5	56 E	41*	31*

147988 1995 YS_1

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 35.78	−12 49.8	1.687	1.322	35.6	21.0	51 E	29*	36*
12 28	21 52.10	−11 30.4	1.703	1.320	35.2	21.0	51 E	30*	34*
1 2	22 8.39	−10 6.7	1.721	1.320	34.7	21.0	50 E	31*	32*
1 7	22 24.62	− 8 39.3	1.739	1.320	34.1	21.0	49 E	31*	31*
1 12	22 40.78	− 7 8.8	1.759	1.323	33.6	21.0	48 E	32*	29*
1 17	22 56.87	− 5 35.7	1.780	1.326	33.0	21.1	47 E	32*	28*
1 22	23 12.89	− 4 0.7	1.802	1.331	32.4	21.1	46 E	33*	26*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
						(continuation)			
	h m	° ′			°	m	°	°	°
147988 1995 YS_1									
1 27	23 28.83	− 2 24.3	1.825	1.338	31.8	21.1	46 E	33*	25*
2 1	23 44.70	− 0 47.3	1.850	1.345	31.1	21.1	45 E	33*	24*
2 6	0 0.48	+ 0 49.7	1.876	1.354	30.4	21.1	44 E	33*	23*
2 11	0 16.18	+ 2 26.2	1.903	1.364	29.7	21.2	43 E	33*	22*
2 16	0 31.82	+ 4 1.5	1.932	1.375	29.0	21.2	42 E	32*	21*
2 21	0 47.39	+ 5 35.2	1.962	1.387	28.2	21.2	42 E	32*	20*
2 26	1 2.90	+ 7 6.6	1.994	1.400	27.4	21.3	41 E	31*	20*
3 2	1 18.35	+ 8 35.4	2.027	1.414	26.6	21.3	40 E	31*	19*
3 7	1 33.74	+10 1.0	2.060	1.429	25.8	21.3	39 E	30*	19*
3 12	1 49.08	+11 23.1	2.095	1.445	24.9	21.4	38 E	29*	18*
3 17	2 4.36	+12 41.3	2.131	1.461	24.1	21.4	37 E	28*	17*
3 22	2 19.60	+13 55.3	2.168	1.478	23.2	21.4	36 E	27*	17*
3 27	2 34.78	+15 4.9	2.206	1.496	22.3	21.5	35 E	26*	16*
4 1	2 49.90	+16 9.8	2.244	1.514	21.3	21.5	33 E	25*	16*
141742 2002 LT_{36}									
12 23	21 35.90	− 8 41.9	1.969	1.586	29.7	19.8	53 E	33*	34*
1 2	22 3.59	− 6 30.0	2.042	1.600	28.1	19.8	50 E	34*	30*
1 12	22 30.87	− 4 9.9	2.118	1.618	26.4	19.9	47 E	34*	25*
1 22	22 57.70	− 1 44.4	2.196	1.638	24.7	19.9	44 E	33*	22*
2 1	23 24.11	+ 0 43.9	2.276	1.662	22.9	20.0	41 E	31*	19*
2 11	23 50.09	+ 3 12.5	2.356	1.688	21.0	20.0	38 E	29*	16*
2 21	0 15.70	+ 5 38.7	2.438	1.716	19.0	20.1	34 E	27*	14*
3 2	0 40.99	+ 8 0.8	2.518	1.747	17.1	20.1	31 E	24*	11*
3 12	1 5.98	+10 16.5	2.598	1.779	15.0	20.2	28 E	21*	9*
3 22	1 30.73	+12 24.4	2.675	1.812	13.0	20.2	24 E	17*	8*
4 1	1 55.26	+14 23.0	2.749	1.847	10.9	20.2	21 E	14*	6*
4 11	2 19.58	+16 11.2	2.819	1.883	8.9	20.2	17 E	10*	4*
4 21	2 43.70	+17 48.1	2.885	1.919	6.8	20.2	13 E	6*	2*
5 1	3 7.62	+19 12.9	2.944	1.956	4.7	20.2	9 E	2*	—
5 11	3 31.30	+20 25.3	2.997	1.993	2.6	20.2	5 E	—	—
5 21	3 54.70	+21 24.9	3.043	2.031	0.7	20.1	1 E	—	—
5 31	4 17.77	+22 11.6	3.080	2.069	1.7	20.2	3 W	—	—
6 10	4 40.45	+22 45.7	3.109	2.107	3.7	20.4	8 W	—	1*
6 20	5 2.66	+23 7.3	3.128	2.144	5.7	20.6	12 W	1*	5*
6 30	5 24.35	+23 17.0	3.136	2.181	7.6	20.7	17 W	5*	8*
7 10	5 45.41	+23 15.3	3.135	2.218	9.6	20.8	21 W	9*	12*
7 20	6 5.79	+23 3.1	3.122	2.255	11.5	20.9	26 W	13*	15*
7 30	6 25.40	+22 41.3	3.098	2.291	13.3	21.0	31 W	18*	18*
8 9	6 44.16	+22 10.7	3.063	2.326	15.0	21.1	36 W	24*	21*
8 19	7 2.01	+21 32.5	3.017	2.361	16.6	21.2	42 W	29*	24*
8 29	7 18.83	+20 47.9	2.959	2.395	18.1	21.2	47 W	35*	27*
9 8	7 34.55	+19 58.1	2.891	2.429	19.5	21.2	53 W	41*	29*
9 18	7 49.07	+19 4.4	2.812	2.461	20.6	21.2	60 W	47*	32*
9 28	8 2.25	+18 8.2	2.724	2.493	21.6	21.2	66 W	52*	35*
10 8	8 13.94	+17 11.0	2.627	2.524	22.3	21.2	73 W	56*	38*
10 18	8 23.98	+16 14.4	2.524	2.554	22.6	21.1	80 W	60*	41*
10 28	8 32.14	+15 20.2	2.416	2.583	22.6	21.1	88 W	60*	45*
11 7	8 38.20	+14 30.2	2.305	2.612	22.1	21.0	97 W	60	48*
11 17	8 41.90	+13 46.3	2.196	2.639	21.2	20.9	106 W	59	50*
11 27	8 42.96	+13 10.4	2.091	2.665	19.6	20.7	115 W	58	51
12 7	8 41.21	+12 44.3	1.996	2.691	17.3	20.6	126 W	58	51
12 17	8 36.57	+12 29.2	1.915	2.715	14.4	20.4	137 W	57	52
12 27	8 29.21	+12 25.7	1.853	2.739	10.9	20.2	148 W	57	52
1 6	8 19.67	+12 32.9	1.816	2.762	6.9	20.0	160 W	58	51
1 16	8 8.77	+12 48.9	1.808	2.783	3.2	19.8	171 W	58	51
162142 1998 VR									
12 23	21 36.43	−26 21.3	1.416	1.058	43.9	21.3	48 E	16*	40*
12 28	21 55.87	−23 54.2	1.445	1.075	42.9	21.3	48 E	18*	39*
1 2	22 14.06	−21 23.9	1.474	1.091	41.8	21.4	48 E	20*	37*
1 7	22 31.18	−18 51.9	1.504	1.105	40.8	21.4	47 E	22*	36*
1 12	22 47.39	−16 19.6	1.534	1.117	39.8	21.4	47 E	24*	34*
1 17	23 2.83	−13 47.8	1.564	1.128	38.8	21.5	46 E	25*	32*
382438 1999 TK_{271}									
12 23	21 36.43	−13 59.8	1.970	1.557	29.5	20.8	51 E	28*	36*
1 2	22 4.10	−11 12.4	2.037	1.567	28.0	20.9	48 E	29*	32*
1 12	22 31.26	− 8 16.7	2.105	1.580	26.3	20.9	45 E	30*	27*
1 22	22 57.91	− 5 15.8	2.176	1.597	24.6	20.9	43 E	30*	24*
2 1	23 24.10	− 2 12.5	2.248	1.616	22.9	21.0	40 E	29*	20*
2 11	23 49.88	+ 0 50.2	2.322	1.639	21.0	21.0	37 E	27*	17*
2 21	0 15.33	+ 3 49.9	2.397	1.665	19.2	21.1	34 E	25*	14*
3 2	0 40.51	+ 6 44.2	2.471	1.693	17.2	21.1	30 E	23*	12*
3 12	1 5.49	+ 9 31.1	2.545	1.723	15.3	21.2	27 E	20*	10*
3 22	1 30.33	+12 8.8	2.618	1.754	13.3	21.2	24 E	17*	8*
4 1	1 55.07	+14 35.9	2.688	1.788	11.3	21.2	21 E	14*	6*
4 11	2 19.74	+16 51.0	2.756	1.822	9.3	21.2	17 E	11*	3*
4 21	2 44.35	+18 53.2	2.819	1.858	7.3	21.2	14 E	7*	1*
5 1	3 8.89	+20 41.9	2.878	1.894	5.4	21.2	10 E	4*	—
5 11	3 33.33	+22 16.3	2.931	1.932	3.5	21.2	7 E	1*	—
5 21	3 57.63	+23 36.3	2.978	1.969	1.9	21.2	4 E	—	—

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
						(continuation)			
	h m	° ′			°	m	°	°	°
382438 1999 TK_{271}									
5 31	4 21.72	+24 41.9	3.018	2.007	1.9	21.2	4 W	—	—
6 10	4 45.53	+25 33.3	3.049	2.045	3.4	21.4	7 W	—	—
154652 2004 EP_{20}									
12 23	21 36.53	−37 48.8	0.538	0.737	99.9	20.3	48 E	5*	42*
12 25	21 52.76	−38 8.2	0.521	0.753	99.5	20.3	49 E	5*	43*
12 27	22 9.51	−38 19.8	0.505	0.769	98.9	20.2	51 E	5*	45*
12 29	22 26.75	−38 22.7	0.490	0.786	98.1	20.2	52 E	6*	46*
12 31	22 44.42	−38 16.0	0.477	0.803	97.2	20.1	54 E	6*	48*
1 2	23 2.43	−37 58.8	0.465	0.819	96.0	20.0	56 E	6*	50*
1 4	23 20.67	−37 30.4	0.454	0.836	94.6	20.0	58 E	7*	52*
1 6	23 39.04	−36 50.5	0.445	0.853	93.1	19.9	60 E	8*	54*
1 8	23 57.38	−35 58.7	0.437	0.870	91.4	19.8	62 E	9*	56*
1 10	0 15.58	−34 55.3	0.430	0.887	89.7	19.8	64 E	10*	58*
1 12	0 33.51	−33 40.5	0.425	0.903	87.8	19.7	67 E	11*	61*
1 14	0 51.03	−32 15.1	0.422	0.920	85.8	19.7	69 E	13	63*
1 16	1 8.07	−30 40.1	0.419	0.937	83.7	19.6	71 E	14	65*
1 18	1 24.53	−28 56.6	0.419	0.953	81.7	19.6	73 E	16	67*
1 20	1 40.36	−27 6.2	0.419	0.969	79.6	19.5	76 E	18	69*
1 22	1 55.54	−25 10.3	0.422	0.985	77.5	19.5	78 E	20	70*
1 24	2 10.03	−23 10.4	0.425	1.001	75.4	19.5	80 E	22	71*
1 26	2 23.85	−21 8.1	0.430	1.017	73.4	19.5	82 E	24	72*
1 28	2 37.00	−19 4.8	0.437	1.032	71.4	19.5	84 E	26	73*
1 30	2 49.51	−17 1.7	0.444	1.048	69.6	19.5	85 E	28	73*
2 1	3 1.40	−14 59.9	0.453	1.063	67.8	19.5	87 E	30	73*
2 3	3 12.72	−13 0.5	0.463	1.078	66.1	19.5	88 E	32	72*
2 5	3 23.50	−11 4.1	0.474	1.092	64.5	19.6	90 E	34	71*
2 7	3 33.76	− 9 11.4	0.487	1.107	63.0	19.6	91 E	36	70*
2 9	3 43.56	− 7 22.8	0.500	1.121	61.6	19.6	92 E	38	69*
2 11	3 52.93	− 5 38.5	0.514	1.135	60.2	19.7	93 E	39	68*
2 16	4 14.69	− 1 37.9	0.553	1.169	57.4	19.8	94 E	43	64*
2 21	4 34.46	+ 1 53.9	0.597	1.201	55.0	20.0	95 E	47	61*
2 26	4 52.66	+ 4 58.4	0.644	1.232	53.1	20.1	96 E	50	58*
3 2	5 9.62	+ 7 37.9	0.695	1.262	51.5	20.3	95 E	53	56*
3 7	5 25.59	+ 9 55.1	0.748	1.290	50.1	20.5	95 E	55	54*
3 12	5 40.74	+11 52.5	0.804	1.316	48.9	20.7	94 E	57*	52*
3 17	5 55.25	+13 32.7	0.861	1.341	47.9	20.8	92 E	58*	50*
3 22	6 9.24	+14 57.8	0.919	1.364	46.9	21.0	91 E	59*	49*
3 27	6 22.81	+16 9.5	0.978	1.385	46.1	21.1	89 E	60*	47*
4 1	6 36.04	+17 9.4	1.038	1.406	45.2	21.2	87 E	60*	46*
4 6	6 48.97	+17 58.7	1.099	1.424	44.4	21.4	85 E	59*	46*
4 11	7 1.64	+18 38.6	1.159	1.442	43.7	21.5	83 E	58*	45*
147057 2002 RY_{106}									
12 23	21 36.59	−10 52.2	2.065	1.658	28.0	19.3	52 E	31*	35*
1 2	22 2.70	− 8 49.5	2.133	1.661	26.5	19.3	49 E	31*	30*
1 12	22 28.68	− 6 36.9	2.201	1.667	24.9	19.4	46 E	31*	26*
1 22	22 54.46	− 4 16.7	2.270	1.676	23.2	19.4	42 E	30*	22*
2 1	23 20.04	− 1 51.3	2.338	1.688	21.5	19.4	39 E	29*	19*
2 11	23 45.42	+ 0 36.7	2.406	1.702	19.7	19.5	36 E	27*	16*
2 21	0 10.60	+ 3 4.8	2.474	1.719	17.8	19.5	32 E	24*	14*
3 2	0 35.62	+ 5 30.8	2.540	1.739	15.9	19.5	29 E	21*	11*
3 12	1 0.52	+ 7 52.4	2.605	1.760	14.0	19.5	25 E	18*	9*
3 22	1 25.31	+10 7.6	2.668	1.783	12.1	19.5	22 E	15*	7*
4 1	1 50.03	+12 14.8	2.729	1.809	10.1	19.5	18 E	11*	6*
4 11	2 14.69	+14 12.3	2.785	1.835	8.1	19.5	15 E	8*	4*
4 21	2 39.27	+15 58.9	2.839	1.864	6.1	19.5	11 E	4*	2*
5 1	3 3.78	+17 33.5	2.887	1.893	4.1	19.5	8 E	1*	—
5 11	3 28.16	+18 55.2	2.930	1.923	2.1	19.4	4 E	—	—
5 21	3 52.38	+20 3.5	2.967	1.955	0.1	19.3	0 E	—	—
5 31	4 16.37	+20 58.2	2.997	1.986	2.0	19.5	4 W	—	—
6 10	4 40.06	+21 39.1	3.020	2.019	3.9	19.7	8 W	—	1*
6 20	5 3.36	+22 6.4	3.035	2.052	5.9	19.8	12 W	—	5*
6 30	5 26.20	+22 20.5	3.041	2.085	7.8	20.0	16 W	4*	9*
7 10	5 48.46	+22 22.0	3.039	2.118	9.7	20.1	21 W	7*	12*
7 20	6 10.08	+22 11.7	3.027	2.151	11.6	20.2	25 W	12*	15*
7 30	6 30.96	+21 50.5	3.005	2.184	13.4	20.3	30 W	17*	18*
8 9	6 51.03	+21 19.6	2.973	2.217	15.1	20.3	35 W	22*	20*
8 19	7 10.20	+20 40.0	2.931	2.250	16.7	20.4	40 W	27*	23*
8 29	7 28.39	+19 53.2	2.879	2.282	18.3	20.4	45 W	33*	26*
9 8	7 45.51	+19 0.4	2.817	2.314	19.7	20.5	51 W	38*	28*
9 18	8 1.49	+18 3.2	2.745	2.345	20.9	20.5	57 W	44*	31*
9 28	8 16.20	+17 3.0	2.663	2.376	22.0	20.5	63 W	49*	34*
10 8	8 29.52	+16 1.5	2.574	2.407	22.8	20.4	69 W	54*	37*
10 18	8 41.30	+15 0.5	2.477	2.437	23.4	20.4	76 W	57*	40*
10 28	8 51.36	+14 1.8	2.374	2.466	23.6	20.3	83 W	59*	44*
11 7	8 59.47	+13 7.5	2.268	2.494	23.4	20.3	91 W	58	47*
11 17	9 5.40	+12 19.6	2.160	2.522	22.7	20.2	100 W	57	50*
11 27	9 8.85	+11 40.6	2.055	2.549	21.5	20.0	109 W	57	52*
12 7	9 9.60	+11 12.5	1.956	2.576	19.6	19.9	118 W	56	53
12 17	9 7.45	+10 57.2	1.867	2.601	17.1	19.7	129 W	56	53

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
147057 2002 RY_{106} *(continuation)*									
	h m	° ′			°	m	°	°	°
12 27	9 2.38	+10 55.9	1.794	2.626	13.9	19.6	140 W	56	53
1 6	8 54.68	+11 8.5	1.741	2.650	10.0	19.4	152 W	56	53
1 16	8 44.95	+11 33.4	1.713	2.673	5.8	19.2	164 W	57	52
112661 2002 PR_{87}									
12 23	21 36.66	−19 34.3	2.623	2.123	20.7	21.2	50 E	23*	38*
1 2	21 57.17	−17 58.1	2.749	2.163	18.6	21.2	45 E	22*	33*
1 12	22 17.13	−16 16.7	2.868	2.202	16.5	21.3	40 E	21*	27*
1 22	22 36.58	−14 31.5	2.981	2.241	14.4	21.3	35 E	19*	23*
2 1	22 55.55	−12 43.6	3.085	2.279	12.3	21.4	29 E	16*	18*
2 11	23 14.06	−10 54.5	3.180	2.317	10.1	21.4	24 E	13*	14*
2 21	23 32.14	− 9 5.1	3.264	2.354	8.0	21.4	19 E	9*	10*
3 2	23 49.84	− 7 16.5	3.338	2.390	5.9	21.4	14 E	4*	7*
3 12	0 7.16	− 5 29.6	3.399	2.425	4.0	21.3	10 E	—	3*
3 22	0 24.13	− 3 45.4	3.448	2.460	2.6	21.3	6 E	—	—
4 1	0 40.78	− 2 4.6	3.484	2.494	2.6	21.4	7 W	—	—
441103 2007 SP_{6}									
12 23	21 38.06	−24 59.4	1.725	1.308	34.5	21.3	49 E	18*	40*
1 2	22 9.85	−21 29.9	1.711	1.260	34.6	21.2	47 E	20*	37*
1 12	22 42.20	−17 28.9	1.696	1.221	34.8	21.1	45 E	22*	33*
1 22	23 14.96	−12 59.1	1.684	1.191	35.0	21.1	44 E	25*	31*
2 1	23 48.11	− 8 5.7	1.678	1.172	35.1	21.0	43 E	27*	28*
2 11	0 21.66	− 2 56.3	1.679	1.164	35.0	21.0	43 E	29*	26*
2 21	0 55.67	+ 2 19.5	1.691	1.167	34.7	21.0	42 E	31*	24*
3 2	1 30.28	+ 7 31.1	1.714	1.183	34.2	21.1	42 E	32*	22*
3 12	2 5.55	+12 27.5	1.750	1.210	33.3	21.1	42 E	33*	21*
3 22	2 41.51	+16 58.5	1.800	1.246	32.1	21.2	42 E	33*	20*
4 1	3 18.08	+20 55.9	1.861	1.291	30.7	21.3	41 E	33*	19*
4 11	3 55.04	+24 13.9	1.935	1.343	29.0	21.4	41 E	32*	18*
353982 2000 EZ_{13}									
12 23	21 38.24	+ 3 31.4	2.059	1.767	28.5	20.8	59 E	45*	28*
1 2	21 52.55	+ 6 52.3	2.167	1.782	26.6	20.8	54 E	45*	21*
1 12	22 7.48	+10 11.3	2.264	1.798	24.8	20.9	50 E	43*	13*
1 22	22 23.03	+13 30.4	2.352	1.815	23.0	20.9	46 E	40*	7*
2 1	22 39.22	+16 51.3	2.428	1.831	21.4	21.0	43 E	36*	1*
2 11	22 56.10	+20 14.9	2.494	1.848	20.0	21.0	40 E	32*	—
2 21	23 13.75	+23 41.5	2.549	1.865	18.9	21.0	38 E	28*	—
3 2	23 32.29	+27 11.3	2.595	1.882	17.9	21.1	36 E	25*	—
3 12	23 51.85	+30 43.7	2.633	1.899	17.2	21.1	34 E	22*	—
3 22	0 12.65	+34 17.4	2.664	1.916	16.8	21.1	34 E	19*	—
4 1	0 34.92	+37 51.1	2.688	1.933	16.5	21.2	33 W	19*	—
4 11	0 58.95	+41 22.3	2.707	1.949	16.4	21.2	33 W	21*	—
4 21	1 25.12	+44 48.0	2.722	1.965	16.4	21.2	34 W	22*	—
5 1	1 53.81	+48 4.4	2.735	1.981	16.5	21.3	34 W	24*	—
5 11	2 25.42	+51 6.7	2.745	1.997	16.7	21.3	35 W	25*	—
5 21	3 0.28	+53 49.2	2.754	2.011	16.8	21.3	35 W	26*	—
5 31	3 38.54	+56 6.1	2.762	2.026	16.9	21.3	36 W	27*	—
6 10	4 19.91	+57 51.0	2.769	2.040	17.1	21.4	36 W	27*	—
6 20	5 3.65	+58 59.0	2.776	2.053	17.2	21.4	37 W	27*	—
6 30	5 48.44	+59 27.4	2.781	2.066	17.3	21.4	37 W	28*	—
7 10	6 32.68	+59 16.4	2.784	2.078	17.5	21.4	38 W	28*	—
7 20	7 14.92	+58 29.7	2.784	2.089	17.7	21.4	39 W	28*	—
7 30	7 54.12	+57 13.2	2.780	2.099	17.9	21.5	40 W	28*	—
8 9	8 29.79	+55 33.6	2.772	2.109	18.3	21.5	41 W	29*	—
8 19	9 1.92	+53 37.8	2.758	2.119	18.7	21.5	42 W	30*	—
8 29	9 30.74	+51 31.8	2.736	2.127	19.2	21.5	44 W	32*	—
472263 2014 RP_{12}									
12 23	21 38.41	−26 15.8	1.718	1.300	34.7	21.4	49 E	16*	40*
1 2	22 1.97	−22 36.1	1.727	1.241	33.9	21.3	45 E	18*	35*
1 12	22 25.69	−18 40.2	1.722	1.174	33.4	21.1	41 E	20*	30*
1 22	22 49.76	−14 25.8	1.701	1.101	33.1	21.0	38 E	21*	25*
2 1	23 14.43	− 9 50.4	1.664	1.021	33.3	20.7	35 E	21*	21*
2 11	23 40.00	− 4 51.2	1.609	0.934	34.2	20.5	32 E	21*	17*
2 21	0 6.90	+ 0 34.9	1.533	0.843	36.3	20.2	30 E	22*	14*
3 2	0 35.70	+ 6 30.2	1.436	0.749	40.3	19.9	29 E	22*	11*
3 7	0 51.00	+ 9 38.5	1.378	0.703	43.4	19.8	29 E	22*	10*
3 12	1 7.03	+12 53.0	1.313	0.658	47.4	19.7	29 E	23*	8*
3 17	1 23.84	+16 11.7	1.240	0.618	52.7	19.6	30 E	23*	7*
3 22	1 41.49	+19 31.4	1.160	0.582	59.2	19.5	30 E	24*	6*
3 27	1 59.94	+22 46.7	1.073	0.555	67.1	19.4	31 E	25*	5*
4 1	2 19.07	+25 50.1	0.980	0.538	76.3	19.5	32 E	26*	5*
4 3	2 26.87	+26 58.1	0.941	0.534	80.2	19.5	32 E	26*	5*
4 5	2 34.73	+28 1.9	0.902	0.532	84.3	19.6	32 E	26*	4*
4 7	2 42.63	+29 1.0	0.862	0.533	88.4	19.6	32 E	26*	4*
4 9	2 50.57	+29 54.7	0.823	0.535	92.6	19.7	32 E	26*	4*
4 11	2 58.53	+30 42.2	0.783	0.539	96.8	19.8	32 E	26*	4*
4 13	3 6.50	+31 23.1	0.744	0.546	100.9	19.9	32 E	26*	4*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
472263 2014 RP_{12} *(continuation)*									
	h m	° ′			°	m	°	°	°
4 15	3 14.49	+31 56.6	0.705	0.554	105.0	20.0	32 E	26*	4*
4 17	3 22.51	+32 22.1	0.667	0.564	109.0	20.2	32 E	26*	4*
4 19	3 30.55	+32 39.1	0.630	0.575	112.9	20.3	32 E	26*	4*
4 21	3 38.65	+32 46.9	0.594	0.587	116.6	20.5	32 E	25*	5*
4 23	3 46.81	+32 44.8	0.559	0.601	120.1	20.7	31 E	25*	5*
4 25	3 55.08	+32 32.0	0.525	0.616	123.5	20.9	31 E	25*	5*
4 27	4 3.47	+32 7.7	0.492	0.632	126.8	21.1	30 E	24*	6*
4 29	4 12.04	+31 30.8	0.461	0.648	129.8	21.3	30 E	23*	7*
5 1	4 20.82	+30 40.1	0.431	0.665	132.6	21.5	29 E	22*	8*
187040 2005 JS_{108}									
12 23	21 39.44	−19 4.7	1.171	0.934	54.3	21.4	50 E	23*	39*
12 28	22 3.37	−17 9.3	1.162	0.944	54.5	21.4	51 E	25*	38*
1 2	22 26.94	−15 2.6	1.156	0.956	54.5	21.4	52 E	27*	38*
1 7	22 50.08	−12 46.6	1.154	0.971	54.3	21.4	53 E	29*	38*
1 12	23 12.76	−10 23.3	1.156	0.988	53.9	21.5	54 E	32*	38*
1 17	23 34.97	− 7 55.1	1.161	1.006	53.4	21.5	55 E	34*	37*
220006 2002 PS_{87}									
12 23	21 39.45	− 7 56.5	3.015	2.566	18.1	21.4	54 E	34*	34*
1 2	21 53.06	− 6 13.6	3.146	2.590	16.3	21.4	48 E	33*	27*
1 12	22 6.90	− 4 27.6	3.266	2.614	14.5	21.5	42 E	31*	20*
1 22	22 20.89	− 2 38.6	3.374	2.637	12.5	21.5	36 E	27*	14*
2 1	22 34.97	− 0 46.7	3.470	2.659	10.6	21.5	30 E	23*	8*
2 11	22 49.09	+ 1 7.7	3.552	2.680	8.6	21.5	24 E	18*	3*
2 21	23 3.20	+ 3 4.5	3.619	2.700	6.7	21.5	19 E	13*	—
3 2	23 17.28	+ 5 3.3	3.672	2.719	5.0	21.4	14 E	7*	—
3 12	23 31.29	+ 7 3.6	3.709	2.738	3.8	21.4	10 E	2*	—
3 22	23 45.22	+ 9 5.2	3.731	2.755	3.6	21.4	10 W	4*	—
4 1	23 59.04	+11 7.8	3.739	2.772	4.5	21.5	13 W	6*	1*
169352 2001 UY_{16}									
12 23	21 40.73	+33 57.1	0.507	1.003	73.1	20.4	77 E	71*	10*
12 28	21 37.51	+38 21.4	0.525	1.001	72.9	20.5	76 E	69*	4*
1 2	21 34.30	+42 29.6	0.543	1.002	72.2	20.5	76 E	66*	—
1 7	21 31.01	+46 24.6	0.559	1.007	71.4	20.6	76 E	63*	—
1 12	21 27.58	+50 9.2	0.574	1.016	70.2	20.6	76 E	59*	—
1 17	21 23.98	+53 46.3	0.586	1.028	68.9	20.6	77 E	55*	—
1 22	21 20.14	+57 19.4	0.597	1.044	67.4	20.6	78 E	51*	—
1 27	21 15.92	+60 51.8	0.606	1.063	65.8	20.7	80 E	48*	—
2 1	21 10.99	+64 26.5	0.614	1.085	64.0	20.7	82 E	45*	—
2 6	21 4.79	+68 6.3	0.620	1.109	62.2	20.7	84 W	45*	—
2 11	20 56.20	+71 53.1	0.625	1.135	60.2	20.7	86 W	47*	—
2 16	20 42.73	+75 47.8	0.630	1.164	58.1	20.7	89 W	49*	—
2 21	20 17.65	+79 48.7	0.636	1.194	55.9	20.7	92 W	50*	—
2 26	19 16.70	+83 43.0	0.642	1.225	53.6	20.7	95 W	50*	—
3 2	16 6.18	+86 8.9	0.650	1.258	51.3	20.8	98 W	49	—
3 7	12 30.64	+84 0.8	0.660	1.292	49.0	20.8	101 W	51	—
3 12	11 20.32	+79 38.4	0.674	1.326	46.7	20.8	104 E	55	—
3 17	10 54.25	+74 45.8	0.692	1.361	44.6	20.9	106 E	60	—
3 22	10 42.44	+69 44.2	0.715	1.397	42.6	21.0	108 E	65	—
3 27	10 36.90	+64 42.3	0.743	1.433	40.9	21.0	110 E	70	—
4 1	10 34.70	+59 45.8	0.776	1.469	39.4	21.2	111 E	75	4
4 6	10 34.53	+54 59.2	0.816	1.505	38.2	21.3	112 E	80	9
4 11	10 35.69	+50 25.6	0.860	1.541	37.2	21.4	111 E	85	14
26050 3167 *T–2*									
12 23	21 40.78	−15 37.3	2.320	1.877	24.3	20.3	52 E	27*	38*
1 2	22 4.06	−13 36.7	2.428	1.907	22.4	20.4	48 E	27*	33*
1 12	22 26.69	−11 30.4	2.534	1.939	20.3	20.5	43 E	27*	28*
1 22	22 48.72	− 9 20.0	2.638	1.971	18.3	20.5	39 E	25*	23*
2 1	23 10.19	− 7 7.2	2.737	2.004	16.2	20.6	35 E	23*	19*
2 11	23 31.16	− 4 53.5	2.831	2.038	14.0	20.6	30 E	20*	15*
2 21	23 51.67	− 2 40.4	2.920	2.072	11.9	20.6	26 E	17*	12*
3 2	0 11.79	− 0 28.9	3.001	2.106	9.7	20.6	21 E	13*	9*
3 12	0 31.55	+ 1 39.6	3.075	2.140	7.5	20.6	16 E	9*	6*
3 22	0 51.01	+ 3 44.2	3.140	2.174	5.4	20.6	12 E	4*	3*
4 1	1 10.20	+ 5 44.1	3.196	2.208	3.2	20.6	7 E	—	—
4 11	1 29.14	+ 7 38.4	3.243	2.242	1.2	20.5	3 E	—	—
4 21	1 47.85	+ 9 26.5	3.279	2.276	1.4	20.6	3 W	—	—
5 1	2 6.34	+11 7.9	3.304	2.309	3.4	20.7	8 W	—	2*
5 11	2 24.60	+12 42.0	3.317	2.342	5.4	20.9	13 W	—	7*
5 21	2 42.62	+14 8.4	3.319	2.374	7.4	21.0	18 W	—	11*
5 31	3 0.37	+15 26.9	3.309	2.406	9.4	21.1	23 W	3*	16*
6 10	3 17.79	+16 37.2	3.288	2.437	11.2	21.2	28 W	7*	21*
6 20	3 34.85	+17 39.3	3.254	2.468	13.0	21.3	33 W	11*	25*
6 30	3 51.45	+18 33.2	3.209	2.498	14.7	21.3	39 W	17*	28*
7 10	4 7.51	+19 19.1	3.152	2.527	16.3	21.4	44 W	23*	31*
7 20	4 22.93	+19 57.1	3.084	2.556	17.8	21.4	50 W	29*	34*
7 30	4 37.57	+20 27.8	3.005	2.584	19.1	21.4	56 W	36*	36*
8 9	4 51.27	+20 51.6	2.917	2.611	20.2	21.4	63 W	43*	38*
8 19	5 3.87	+21 9.1	2.819	2.637	21.0	21.4	69 W	50*	40*

26050 3167 *T–2* (*continuation*)

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
8 29	5 15.16	+21 21.3	2.715	2.663	21.6	21.3	76 W	56*	41*
9 8	5 24.89	+21 28.9	2.604	2.687	21.9	21.3	84 W	62*	42*
9 18	5 32.82	+21 32.9	2.490	2.711	21.7	21.2	92 W	66*	42*
9 28	5 38.63	+21 34.3	2.376	2.734	21.2	21.1	100 W	67	42
10 8	5 42.04	+21 34.0	2.263	2.756	20.0	21.0	109 W	67	42
10 18	5 42.76	+21 32.6	2.157	2.777	18.3	20.8	119 W	67	42
10 28	5 40.56	+21 30.5	2.061	2.798	16.0	20.7	129 W	67	42
11 7	5 35.44	+21 27.7	1.982	2.817	12.9	20.5	140 W	66	43
11 17	5 27.60	+21 23.4	1.923	2.836	9.3	20.3	152 W	66	43
11 27	5 17.64	+21 17.3	1.890	2.854	5.2	20.1	165 W	66	43
12 2	5 12.16	+21 13.5	1.884	2.862	3.1	20.0	171 W	66	43
12 7	5 6.51	+21 9.2	1.886	2.870	1.0	19.8	177 W	66	43
12 12	5 0.86	+21 4.6	1.896	2.878	1.5	19.9	176 E	66	43
12 17	4 55.35	+20 59.8	1.913	2.886	3.5	20.0	170 E	66	43
12 22	4 50.14	+20 55.1	1.938	2.894	5.6	20.2	163 E	66	43
12 27	4 45.33	+20 50.8	1.970	2.901	7.6	20.3	157 E	66	43
1 1	4 41.05	+20 47.1	2.009	2.908	9.4	20.5	151 E	66	43
1 6	4 37.36	+20 44.2	2.054	2.915	11.1	20.6	145 E	66	43
1 11	4 34.31	+20 42.5	2.105	2.922	12.7	20.7	139 E	66	43
1 16	4 31.96	+20 41.9	2.161	2.928	14.1	20.8	134 E	66	43

9202 1993 *PB*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	21 41.24	+26 54.6	1.709	1.704	33.5	19.6	73 E	66*	15*
1 2	21 57.00	+26 51.0	1.726	1.632	33.9	19.6	68 E	62*	10*
1 12	22 15.00	+27 9.7	1.730	1.556	34.3	19.5	63 E	57*	6*
1 22	22 35.31	+27 48.1	1.720	1.474	34.8	19.4	59 E	52*	2*
2 1	22 58.17	+28 43.2	1.695	1.387	35.5	19.2	55 E	48*	—
2 11	23 23.90	+29 50.4	1.655	1.294	36.6	19.0	51 E	43*	—
2 16	23 38.01	+30 26.4	1.630	1.246	37.2	18.9	50 E	42*	—
2 21	23 53.06	+31 2.6	1.601	1.196	38.1	18.8	48 E	40*	—
2 26	0 9.13	+31 37.7	1.568	1.145	39.0	18.7	47 E	38*	—
3 2	0 26.31	+32 9.7	1.532	1.093	40.2	18.6	45 E	37*	—
3 7	0 44.69	+32 36.4	1.493	1.040	41.5	18.5	44 E	36*	—
3 12	1 4.34	+32 54.8	1.450	0.986	43.1	18.3	43 E	35*	—
3 17	1 25.31	+33 1.4	1.405	0.931	45.0	18.2	41 E	34*	—
3 22	1 47.58	+32 51.7	1.356	0.876	47.2	18.1	40 E	33*	1*
3 27	2 11.06	+32 20.7	1.305	0.821	49.9	17.9	39 E	33*	2*
4 1	2 35.51	+31 22.2	1.252	0.767	53.0	17.8	38 E	32*	5*
4 6	3 0.54	+29 49.7	1.196	0.716	56.7	17.6	37 E	31*	7*
4 11	3 25.58	+27 36.6	1.139	0.668	61.0	17.5	36 E	29*	11*
4 16	3 49.90	+24 37.5	1.080	0.626	66.0	17.4	35 E	27*	14*
4 21	4 12.63	+20 49.1	1.021	0.592	71.5	17.3	34 E	24*	18*
4 26	4 32.89	+16 12.8	0.963	0.569	77.5	17.3	33 E	19*	21*
5 1	4 49.93	+10 55.2	0.907	0.559	83.2	17.3	33 E	14*	25*
5 3	4 55.74	+ 8 39.3	0.885	0.559	85.4	17.4	34 E	12*	26*
5 5	5 0.96	+ 6 19.6	0.864	0.562	87.3	17.4	34 E	9*	27*
5 7	5 5.59	+ 3 57.3	0.844	0.566	89.1	17.4	34 E	6*	28*
5 9	5 9.64	+ 1 33.2	0.825	0.573	90.7	17.5	35 E	4*	29*
5 11	5 13.14	− 0 51.5	0.806	0.582	91.9	17.5	35 E	1*	29*
5 13	5 16.13	− 3 16.2	0.788	0.593	93.0	17.6	36 E	—	29*
5 15	5 18.63	− 5 39.9	0.771	0.605	93.8	17.6	37 E	—	30*
5 17	5 20.70	− 8 2.2	0.755	0.619	94.3	17.6	38 E	—	29*
5 19	5 22.38	−10 22.6	0.739	0.634	94.6	17.6	39 E	—	29*
5 21	5 23.70	−12 40.9	0.724	0.651	94.7	17.6	40 E	—	29*
5 26	5 25.75	−18 16.6	0.688	0.697	94.1	17.7	43 E	—	27*
5 31	5 26.45	−23 39.8	0.654	0.747	92.5	17.6	47 E	—	25*
6 5	5 26.26	−28 55.6	0.621	0.801	90.2	17.6	52 E	—	23*
6 10	5 25.53	−34 11.8	0.589	0.855	87.3	17.5	57 E	—	20*
6 12	5 25.14	−36 20.5	0.577	0.877	86.0	17.4	59 E	—	19*
6 14	5 24.71	−38 31.5	0.565	0.899	84.6	17.4	62 W	—	20*
6 16	5 24.24	−40 45.6	0.553	0.921	83.1	17.3	64 W	—	23*
6 18	5 23.73	−43 3.4	0.541	0.943	81.6	17.3	67 W	—	25*
6 20	5 23.17	−45 25.7	0.529	0.965	79.9	17.2	69 W	—	27*
6 22	5 22.55	−47 53.1	0.517	0.987	78.2	17.2	72 W	—	29*
6 24	5 21.85	−50 26.5	0.506	1.009	76.4	17.1	75 W	—	31*
6 26	5 21.03	−53 6.4	0.496	1.030	74.4	17.0	78 W	—	32*
6 28	5 20.05	−55 53.3	0.486	1.052	72.4	17.0	80 W	—	33*
6 30	5 18.83	−58 47.7	0.477	1.073	70.3	16.9	84 W	—	34*
7 2	5 17.27	−61 49.8	0.468	1.094	68.0	16.8	87 W	—	35*
7 4	5 15.19	−64 59.7	0.461	1.115	65.7	16.8	90 W	—	36*
7 6	5 12.32	−68 17.2	0.454	1.136	63.3	16.7	93 W	—	36*
7 8	5 8.13	−71 41.7	0.449	1.157	60.9	16.7	96 W	—	35*
7 10	5 1.60	−75 12.4	0.445	1.177	58.3	16.6	100 W	—	34*
7 11	4 56.83	−76 59.5	0.444	1.187	57.1	16.6	101 W	—	34*
7 12	4 50.37	−78 47.5	0.443	1.197	55.8	16.5	103 W	—	33*
7 13	4 41.23	−80 35.7	0.442	1.207	54.5	16.5	105 W	—	33*
7 14	4 27.52	−82 23.5	0.442	1.217	53.2	16.5	106 W	—	32*
7 15	4 5.09	−84 9.3	0.442	1.227	52.0	16.5	108 W	—	31*

9202 1993 *PB* (*continuation*)

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 16	3 23.63	−85 49.1	0.443	1.237	50.7	16.5	110 W	—	30*
7 17	1 55.28	−87 11.0	0.444	1.247	49.5	16.5	111 W	—	29
7 18	23 8.11	−87 38.0	0.446	1.257	48.3	16.5	113 W	—	28
7 19	20 46.59	−86 45.8	0.448	1.266	47.1	16.4	114 W	—	29
7 20	19 39.91	−85 15.3	0.450	1.276	46.0	16.4	115 E	—	31
7 21	19 7.21	−83 33.0	0.454	1.286	44.9	16.4	117 E	—	32
7 22	18 48.72	−81 46.8	0.457	1.295	43.8	16.5	118 E	—	34
7 23	18 37.11	−79 59.5	0.461	1.305	42.8	16.5	119 E	—	36
7 24	18 29.27	−78 12.3	0.466	1.314	41.8	16.5	120 E	—	38
7 25	18 23.73	−76 25.8	0.471	1.323	40.9	16.5	121 E	—	40
7 26	18 19.67	−74 40.5	0.476	1.333	40.1	16.5	122 E	—	41
7 27	18 16.62	−72 56.7	0.482	1.342	39.2	16.5	123 E	—	43
7 28	18 14.30	−71 14.7	0.489	1.351	38.5	16.5	124 E	—	45
7 29	18 12.52	−69 34.6	0.495	1.360	37.8	16.6	125 E	—	46
7 30	18 11.16	−67 56.6	0.503	1.370	37.1	16.6	125 E	—	48
7 31	18 10.11	−66 20.8	0.511	1.379	36.6	16.6	126 E	—	50
8 1	18 9.32	−64 47.3	0.519	1.388	36.0	16.7	126 E	—	51
8 2	18 8.74	−63 16.2	0.528	1.397	35.5	16.7	127 E	—	53
8 3	18 8.34	−61 47.5	0.537	1.405	35.1	16.7	127 E	—	54
8 4	18 8.07	−60 21.2	0.546	1.414	34.7	16.8	127 E	—	56
8 5	18 7.93	−58 57.5	0.556	1.423	34.4	16.8	128 E	—	57
8 6	18 7.90	−57 36.2	0.566	1.432	34.1	16.9	128 E	—	58
8 7	18 7.95	−56 17.3	0.577	1.441	33.9	16.9	128 E	—	60
8 8	18 8.09	−55 0.9	0.588	1.449	33.7	17.0	128 E	—	61
8 9	18 8.30	−53 46.9	0.599	1.458	33.5	17.0	127 E	—	62
8 11	18 8.89	−51 26.0	0.622	1.475	33.3	17.1	127 E	—	65
8 13	18 9.70	−49 14.2	0.647	1.491	33.1	17.2	126 E	—	67
8 15	18 10.67	−47 11.1	0.673	1.508	33.0	17.3	126 E	—	69
8 17	18 11.80	−45 16.1	0.700	1.524	33.0	17.4	125 E	—	71
8 19	18 13.05	−43 28.7	0.728	1.541	33.1	17.5	124 E	2	73
8 24	18 16.65	−39 30.6	0.801	1.580	33.3	17.8	121 E	5	76
8 29	18 20.78	−36 9.5	0.879	1.618	33.5	18.1	118 E	9	80
9 3	18 25.33	−33 18.7	0.961	1.655	33.7	18.3	114 E	12	83
9 8	18 30.21	−30 52.5	1.046	1.691	33.8	18.5	111 E	14	85
9 13	18 35.39	−28 46.1	1.134	1.725	33.8	18.8	107 E	16	87
9 18	18 40.82	−26 55.8	1.223	1.759	33.7	19.0	104 E	18	89
9 23	18 46.49	−25 18.6	1.314	1.791	33.5	19.2	100 E	20	89
9 28	18 52.36	−23 51.9	1.406	1.822	33.1	19.3	97 E	21	88
10 3	18 58.40	−22 33.8	1.498	1.851	32.6	19.5	94 E	22	85*
10 8	19 4.59	−21 22.6	1.591	1.880	32.1	19.6	90 E	24*	82*
10 13	19 10.92	−20 17.0	1.683	1.908	31.5	19.8	87 E	25*	78*
10 18	19 17.38	−19 15.9	1.775	1.934	30.8	19.9	83 E	26*	74*
10 28	19 30.64	−17 23.6	1.957	1.984	29.2	20.1	77 E	27*	67*
11 7	19 44.25	−15 40.0	2.133	2.030	27.4	20.3	70 E	29*	59*
11 17	19 58.14	−14 1.2	2.302	2.072	25.4	20.5	64 E	30*	51*
11 27	20 12.24	−12 24.2	2.462	2.110	23.3	20.6	58 E	31*	43*
12 7	20 26.49	−10 47.1	2.610	2.144	21.1	20.7	52 E	31*	35*
12 17	20 40.85	− 9 8.3	2.745	2.174	18.9	20.7	46 E	30*	27*
12 27	20 55.26	− 7 26.6	2.866	2.201	16.6	20.8	40 E	28*	20*
1 6	21 9.68	− 5 41.4	2.972	2.224	14.3	20.8	34 E	25*	13*

440179 2004 BF_{41}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	21 42.14	− 6 25.1	2.644	2.236	21.2	21.5	55 E	36*	34*
1 2	21 56.16	− 4 23.1	2.698	2.188	19.9	21.5	49 E	35*	27*
1 12	22 11.18	− 2 12.5	2.741	2.140	18.5	21.4	44 E	33*	20*
1 22	22 27.12	+ 0 6.9	2.772	2.092	17.0	21.3	38 E	30*	14*
2 1	22 43.95	+ 2 35.2	2.792	2.044	15.4	21.2	33 E	27*	9*
2 11	23 1.63	+ 5 12.3	2.801	1.997	13.9	21.1	29 E	23*	4*
2 21	23 20.20	+ 7 57.7	2.800	1.950	12.4	21.0	25 E	19*	—
3 2	23 39.73	+10 50.9	2.790	1.904	11.1	20.9	22 E	15*	—
3 12	0 0.31	+13 50.8	2.771	1.859	9.9	20.8	19 E	12*	—
3 22	0 22.08	+16 55.9	2.746	1.815	9.1	20.7	17 E	8*	—
4 1	0 45.21	+20 4.5	2.716	1.773	8.7	20.6	16 E	6*	—
4 11	1 9.89	+23 13.7	2.682	1.734	8.6	20.5	15 W	6*	—
4 21	1 36.38	+26 20.1	2.646	1.696	8.9	20.5	15 W	8*	—
4 26	1 50.36	+27 51.0	2.627	1.679	9.2	20.4	15 W	8*	—
5 1	2 4.88	+29 19.5	2.609	1.662	9.5	20.4	16 W	9*	—
5 6	2 19.95	+30 44.9	2.591	1.646	9.8	20.4	16 W	10*	—
5 11	2 35.60	+32 6.3	2.574	1.631	10.1	20.4	16 W	10*	—
5 16	2 51.83	+33 23.1	2.557	1.616	10.5	20.3	17 W	11*	—
5 21	3 8.65	+34 34.5	2.541	1.603	10.8	20.3	17 W	11*	—
5 26	3 26.05	+35 39.4	2.526	1.591	11.1	20.3	18 W	12*	—
5 31	3 43.99	+36 37.2	2.512	1.579	11.5	20.3	18 W	12*	—
6 5	4 2.43	+37 26.9	2.498	1.569	11.8	20.3	18 W	12*	—
6 10	4 21.31	+38 7.8	2.486	1.560	12.1	20.3	19 W	13*	—
6 15	4 40.56	+38 39.3	2.476	1.552	12.4	20.3	19 W	13*	—
6 20	5 0.09	+39 0.7	2.466	1.545	12.7	20.3	19 W	13*	—
6 25	5 19.77	+39 11.8	2.458	1.540	12.9	20.2	20 W	14*	—
6 30	5 39.49	+39 12.3	2.450	1.536	13.1	20.2	20 W	14*	—

440179 2004 BF_{41} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 5	5 59.13	+39 2.1	2.444	1.533	13.4	20.2	20 W	14*	—
7 10	6 18.59	+38 41.5	2.439	1.531	13.6	20.2	21 W	15*	—
7 15	6 37.74	+38 10.8	2.435	1.531	13.8	20.2	21 W	15*	—
7 20	6 56.50	+37 30.4	2.431	1.532	14.1	20.3	21 W	15*	—
7 25	7 14.79	+36 41.0	2.429	1.534	14.3	20.3	22 W	16*	—
7 30	7 32.54	+35 43.3	2.426	1.538	14.6	20.3	22 W	16*	—
8 4	7 49.70	+34 38.0	2.425	1.542	14.9	20.3	23 W	17*	—
8 9	8 6.26	+33 25.9	2.423	1.548	15.2	20.3	24 W	18*	—
8 19	8 37.54	+30 44.5	2.420	1.564	15.9	20.4	25 W	19*	1*
8 29	9 6.37	+27 45.0	2.416	1.585	16.8	20.4	27 W	21*	3*
9 8	9 32.93	+24 32.7	2.410	1.609	17.9	20.5	29 W	23*	5*
9 18	9 57.42	+21 12.1	2.400	1.638	19.0	20.5	32 W	26*	8*
9 28	10 20.04	+17 46.5	2.385	1.670	20.3	20.6	35 W	29*	11*
10 8	10 40.98	+14 18.8	2.364	1.705	21.6	20.7	39 W	32*	14*
10 18	11 0.43	+10 50.8	2.336	1.743	22.9	20.7	43 W	35*	18*
10 28	11 18.45	+ 7 24.1	2.302	1.783	24.1	20.8	47 W	37*	22*
11 7	11 35.14	+ 3 59.8	2.259	1.826	25.3	20.8	52 W	40*	27*
11 17	11 50.50	+ 0 38.3	2.209	1.869	26.4	20.9	57 W	41*	33*
11 27	12 4.48	− 2 39.7	2.152	1.915	27.3	20.9	63 W	40*	40*
12 7	12 16.97	− 5 54.1	2.088	1.961	27.9	20.9	69 W	39*	47*
12 17	12 27.81	− 9 4.7	2.018	2.008	28.3	20.9	75 W	36	55*
12 27	12 36.74	−12 11.2	1.943	2.056	28.3	20.9	82 W	33	64*
1 6	12 43.46	−15 13.2	1.866	2.104	27.9	20.8	90 W	30	74*
1 16	12 47.58	−18 9.5	1.789	2.152	27.0	20.7	98 W	27	82*

301894 1998 RX_{28}

12 23	21 42.32	−15 36.6	2.080	1.667	27.7	21.4	52 E	27*	38*
1 2	22 9.68	−13 49.6	2.153	1.676	26.2	21.5	49 E	27*	34*
1 12	22 36.64	−11 49.9	2.227	1.689	24.5	21.5	45 E	27*	30*
1 22	23 3.14	− 9 40.4	2.303	1.706	22.8	21.6	42 E	27*	27*
2 1	23 29.15	− 7 24.2	2.379	1.726	21.0	21.6	39 E	25*	24*

134509 1999 FC_8

12 23	21 43.22	−12 2.0	2.381	1.962	23.8	21.2	53 E	30*	37*
1 2	22 4.99	−10 27.1	2.495	1.991	21.8	21.2	49 E	30*	31*
1 12	22 26.34	− 8 45.6	2.606	2.020	19.8	21.3	44 E	29*	26*
1 22	22 47.28	− 6 58.8	2.712	2.050	17.8	21.4	39 E	27*	22*
2 1	23 7.84	− 5 8.4	2.812	2.079	15.7	21.4	35 E	24*	18*
2 11	23 28.03	− 3 15.7	2.906	2.109	13.5	21.4	30 E	21*	14*
2 21	23 47.90	− 1 22.2	2.992	2.139	11.3	21.4	25 E	17*	11*
3 2	0 7.47	+ 0 31.0	3.070	2.168	9.1	21.4	20 E	13*	7*
3 12	0 26.76	+ 2 22.7	3.139	2.197	6.9	21.4	15 E	8*	4*
3 22	0 45.83	+ 4 11.8	3.198	2.226	4.7	21.4	11 E	4*	1*
4 1	1 4.68	+ 5 57.4	3.246	2.254	2.6	21.3	6 E	—	—
4 11	1 23.34	+ 7 38.5	3.284	2.282	0.6	21.2	1 E	—	—
4 21	1 41.81	+ 9 14.5	3.310	2.309	1.9	21.3	4 W	—	—

440243 2004 RF_{10}

12 23	21 45.85	−21 31.5	2.054	1.631	28.1	21.1	51 E	21*	41*
1 2	22 12.50	−18 59.8	2.098	1.614	26.9	21.1	48 E	23*	36*
1 12	22 39.15	−16 13.4	2.141	1.600	25.6	21.0	45 E	23*	32*
1 22	23 5.72	−13 14.7	2.185	1.591	24.3	21.0	42 E	24*	29*
2 1	23 32.20	−10 6.7	2.229	1.586	22.9	21.0	39 E	23*	25*
2 11	23 58.56	− 6 52.6	2.274	1.584	21.4	21.0	36 E	23*	22*
2 21	0 24.83	− 3 35.7	2.320	1.587	19.9	21.0	33 E	21*	20*
3 2	0 51.07	− 0 19.2	2.368	1.594	18.4	21.0	30 E	19*	18*
3 12	1 17.29	+ 2 53.5	2.417	1.605	16.7	21.0	28 E	17*	15*
3 22	1 43.55	+ 5 59.4	2.468	1.620	15.1	21.0	25 E	15*	13*
4 1	2 9.90	+ 8 55.8	2.520	1.639	13.3	21.1	22 E	13*	11*
4 11	2 36.35	+11 40.2	2.572	1.661	11.6	21.1	19 E	10*	10*
4 21	3 2.89	+14 10.5	2.625	1.686	9.8	21.1	17 E	7*	7*
5 1	3 29.52	+16 25.1	2.677	1.714	7.9	21.1	14 E	4*	5*
5 11	3 56.18	+18 22.7	2.728	1.744	6.0	21.1	10 E	1*	3*
5 21	4 22.81	+20 2.6	2.776	1.777	4.1	21.0	7 E	—	1*
5 31	4 49.31	+21 24.4	2.821	1.811	2.2	21.0	4 E	—	—
6 10	5 15.57	+22 28.2	2.862	1.847	0.4	20.9	1 E	—	—
6 20	5 41.49	+23 14.5	2.899	1.885	1.7	21.1	3 W	—	—
6 30	6 6.94	+23 44.1	2.929	1.924	3.6	21.3	7 W	—	—
7 10	6 31.81	+23 58.3	2.953	1.963	5.5	21.5	11 W	2*	3*

68569 2001 YE_3

12 23	21 45.89	+ 6 13.6	3.117	2.794	18.1	20.5	62 E	48*	29*
1 2	21 58.53	+ 6 54.5	3.230	2.795	16.9	20.6	56 E	45*	22*
1 12	22 11.78	+ 7 45.4	3.334	2.794	15.5	20.6	49 E	42*	16*
1 22	22 25.51	+ 8 45.4	3.426	2.793	14.0	20.6	43 E	37*	10*
2 1	22 39.64	+ 9 53.6	3.505	2.790	12.4	20.6	38 E	32*	5*
2 11	22 54.09	+11 9.3	3.572	2.786	10.9	20.6	32 E	26*	—
2 21	23 8.81	+12 31.3	3.624	2.781	9.3	20.5	27 E	20*	—
3 2	23 23.75	+13 58.9	3.663	2.775	7.9	20.5	23 E	14*	—
3 12	23 38.87	+15 31.1	3.688	2.767	6.7	20.4	19 E	9*	—
3 22	23 54.17	+17 7.2	3.698	2.759	6.0	20.4	17 W	8*	—

68569 2001 YE_3 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 1	0 9.62	+18 46.2	3.694	2.750	5.9	20.4	16 W	10*	—
4 11	0 25.20	+20 27.4	3.676	2.739	6.4	20.4	18 W	12*	—
4 21	0 40.92	+22 10.0	3.645	2.727	7.5	20.4	21 W	14*	5*
5 1	0 56.76	+23 53.3	3.600	2.715	8.8	20.4	24 W	16*	10*
5 11	1 12.71	+25 36.5	3.542	2.701	10.4	20.5	29 W	19*	14*
5 21	1 28.77	+27 19.1	3.472	2.686	12.0	20.5	33 W	22*	17*
5 31	1 44.90	+29 0.3	3.391	2.670	13.6	20.5	38 W	25*	21*
6 10	2 1.09	+30 39.7	3.299	2.653	15.2	20.5	43 W	29*	23*
6 20	2 17.28	+32 16.7	3.197	2.634	16.8	20.4	48 W	34*	25*
6 30	2 33.41	+33 51.0	3.085	2.615	18.3	20.4	54 W	40*	26*
7 10	2 49.39	+35 22.0	2.965	2.595	19.7	20.3	59 W	46*	26*
7 20	3 5.11	+36 49.7	2.838	2.573	20.9	20.2	65 W	53*	26*
7 30	3 20.40	+38 13.7	2.704	2.551	22.0	20.2	70 W	60*	25*
8 9	3 35.05	+39 34.0	2.566	2.528	22.9	20.1	76 W	67*	24*
8 19	3 48.83	+40 50.7	2.423	2.503	23.6	19.9	83 W	74*	23
8 24	3 55.27	+41 27.6	2.351	2.491	23.9	19.9	86 W	78*	23
8 29	4 1.35	+42 3.5	2.279	2.478	24.1	19.8	89 W	81*	22
9 3	4 7.03	+42 38.5	2.206	2.465	24.1	19.7	92 W	85*	21
9 8	4 12.24	+43 12.5	2.134	2.451	24.1	19.6	96 W	88*	21
9 13	4 16.90	+43 45.5	2.061	2.438	24.0	19.5	99 W	89	20
9 18	4 20.95	+44 17.3	1.990	2.424	23.8	19.4	103 W	89	20
9 23	4 24.30	+44 47.7	1.919	2.410	23.5	19.3	107 W	90	19
9 28	4 26.87	+45 16.4	1.850	2.396	23.0	19.2	111 W	90	19
10 3	4 28.58	+45 43.1	1.782	2.381	22.4	19.1	115 W	89	18
10 8	4 29.34	+46 7.4	1.717	2.366	21.7	19.0	119 W	89	18
10 13	4 29.07	+46 28.5	1.653	2.351	20.8	18.9	123 W	89	18
10 18	4 27.68	+46 45.5	1.593	2.336	19.8	18.7	127 W	88	17
10 23	4 25.15	+46 57.6	1.536	2.321	18.6	18.6	132 W	88	17
10 28	4 21.46	+47 3.3	1.482	2.305	17.3	18.5	136 W	88	17
11 2	4 16.66	+47 1.6	1.434	2.290	15.9	18.3	141 W	88	17
11 7	4 10.83	+46 51.0	1.389	2.274	14.5	18.2	145 W	88	17
11 12	4 4.12	+46 30.3	1.351	2.258	13.0	18.1	149 W	88	17
11 17	3 56.77	+45 58.4	1.318	2.241	11.8	18.0	152 W	89	18
11 22	3 49.05	+45 14.8	1.291	2.225	10.9	17.9	155 E	90	19
11 27	3 41.29	+44 19.6	1.270	2.208	10.5	17.8	156 E	89	20
12 2	3 33.81	+43 13.7	1.256	2.191	10.8	17.8	155 E	88	21
12 7	3 26.89	+41 58.5	1.249	2.174	11.8	17.8	153 E	87	22
12 12	3 20.78	+40 35.9	1.248	2.157	13.2	17.8	150 E	86	23
12 17	3 15.66	+39 8.2	1.253	2.140	15.0	17.9	146 E	84	25
12 22	3 11.68	+37 38.0	1.265	2.123	16.9	17.9	141 E	83	26
12 27	3 8.89	+36 7.7	1.281	2.105	18.8	18.0	136 E	81	28
1 1	3 7.29	+34 39.2	1.303	2.088	20.7	18.1	131 E	80	29
1 6	3 6.86	+33 14.1	1.329	2.070	22.5	18.2	126 E	78	31
1 11	3 7.53	+31 53.6	1.358	2.052	24.1	18.3	122 E	77	32
1 16	3 9.27	+30 38.5	1.391	2.034	25.6	18.3	117 E	76	33

405371 2003 YK_{121}

12 23	21 45.96	− 2 19.0	2.643	2.279	21.5	20.3	58 E	40*	33*
1 2	22 0.36	− 0 34.7	2.693	2.227	20.4	20.3	52 E	39*	26*
1 12	22 15.88	+ 1 20.0	2.732	2.175	19.1	20.2	46 E	37*	20*
1 22	22 32.45	+ 3 24.7	2.762	2.125	17.8	20.2	41 E	34*	14*
2 1	22 50.04	+ 5 39.2	2.781	2.075	16.4	20.1	37 E	30*	9*
2 11	23 8.61	+ 8 2.9	2.791	2.026	15.1	20.0	32 E	26*	5*
2 21	23 28.20	+10 34.9	2.793	1.978	13.7	19.9	28 E	22*	1*
3 2	23 48.86	+13 14.1	2.787	1.933	12.4	19.8	25 E	18*	—
3 12	0 10.66	+15 58.7	2.774	1.889	11.3	19.7	22 E	15*	—
3 22	0 33.72	+18 46.7	2.757	1.848	10.3	19.6	19 E	12*	—
4 1	0 58.18	+21 35.4	2.737	1.809	9.6	19.5	18 E	9*	—
4 11	1 24.16	+24 21.6	2.714	1.773	9.0	19.4	16 E	7*	—
4 21	1 51.81	+27 1.3	2.691	1.741	8.7	19.3	15 W	6*	—
5 1	2 21.22	+29 30.1	2.668	1.713	8.6	19.3	15 W	7*	—
5 6	2 36.60	+30 38.8	2.657	1.700	8.6	19.3	15 W	7*	—
5 11	2 52.41	+31 42.8	2.647	1.689	8.6	19.2	15 W	8*	—
5 16	3 8.65	+32 41.5	2.638	1.678	8.7	19.2	15 W	8*	—
5 21	3 25.30	+33 34.3	2.629	1.669	8.8	19.2	15 W	8*	—
5 26	3 42.31	+34 20.6	2.621	1.661	8.9	19.2	15 W	8*	—
5 31	3 59.64	+34 59.8	2.613	1.654	9.1	19.2	15 W	9*	—
6 5	4 17.24	+35 31.3	2.607	1.649	9.2	19.2	15 W	9*	—
6 10	4 35.03	+35 54.9	2.601	1.645	9.4	19.2	15 W	9*	—
6 15	4 52.95	+36 10.2	2.597	1.642	9.6	19.2	16 W	10*	—
6 20	5 10.92	+36 17.0	2.593	1.640	9.8	19.2	16 W	10*	—
6 25	5 28.85	+36 15.4	2.590	1.640	10.1	19.2	16 W	10*	—
6 30	5 46.66	+36 5.2	2.587	1.641	10.3	19.2	17 W	11*	—
7 5	6 4.27	+35 46.8	2.585	1.643	10.6	19.2	17 W	11*	—
7 10	6 21.62	+35 20.4	2.584	1.647	11.0	19.2	18 W	12*	—
7 15	6 38.63	+34 46.4	2.583	1.651	11.3	19.2	19 W	13*	—
7 20	6 55.27	+34 5.2	2.582	1.658	11.7	19.3	19 W	13*	—
7 30	7 27.21	+32 23.5	2.581	1.674	12.6	19.3	21 W	15*	1*
8 9	7 57.22	+30 19.6	2.579	1.694	13.6	19.4	23 W	17*	3*
8 19	8 25.23	+27 58.0	2.575	1.720	14.7	19.5	26 W	19*	5*

405371 2003 YK_{121} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 29	8 51.25	+25 23.1	2.569	1.749	16.0	19.5	28 W	22*	7*
9 8	9 15.37	+22 38.6	2.558	1.782	17.3	19.6	32 W	25*	10*
9 18	9 37.71	+19 47.7	2.542	1.818	18.7	19.7	35 W	28*	12*
9 28	9 58.38	+16 53.1	2.520	1.858	20.0	19.8	39 W	32*	16*
10 8	10 17.47	+13 56.9	2.491	1.900	21.3	19.8	44 W	35*	19*
10 18	10 35.07	+11 0.8	2.454	1.944	22.6	19.9	49 W	39*	23*
10 28	10 51.19	+ 8 6.2	2.410	1.990	23.7	19.9	54 W	42*	28*
11 7	11 5.83	+ 5 14.3	2.358	2.038	24.7	20.0	59 W	44*	33*
11 17	11 18.93	+ 2 25.8	2.299	2.087	25.5	20.0	65 W	45*	39*
11 27	11 30.38	− 0 18.2	2.232	2.137	26.0	20.0	72 W	44*	45*
12 7	11 40.02	− 2 57.2	2.160	2.188	26.2	20.0	78 W	42	53*
12 17	11 47.62	− 5 30.1	2.084	2.240	26.0	19.9	86 W	39	61*
12 27	11 52.92	− 7 55.7	2.006	2.292	25.3	19.9	94 W	37	69*
1 6	11 55.63	−10 12.3	1.930	2.345	24.2	19.8	102 W	35	74*
1 16	11 55.46	−12 17.6	1.857	2.398	22.5	19.7	111 W	33	76

168710 2000 HE_{41}

12 23	21 46.00	−20 42.7	2.127	1.700	26.9	20.2	52 E	22*	41*
12 28	21 59.30	−19 36.5	2.171	1.710	26.1	20.2	50 E	23*	38*
1 2	22 12.39	−18 27.6	2.215	1.721	25.2	20.3	48 E	23*	36*
1 7	22 25.28	−17 16.3	2.258	1.732	24.2	20.3	46 E	23*	34*
1 12	22 37.97	−16 3.0	2.302	1.743	23.3	20.3	45 E	23*	32*
1 22	23 2.77	−13 31.9	2.389	1.767	21.4	20.4	41 E	23*	28*
2 1	23 26.88	−10 56.7	2.474	1.793	19.5	20.4	37 E	22*	24*
2 11	23 50.36	− 8 19.9	2.557	1.819	17.5	20.5	34 E	20*	21*
2 21	0 13.29	− 5 43.7	2.637	1.847	15.5	20.5	30 E	18*	18*
3 2	0 35.76	− 3 9.8	2.713	1.875	13.5	20.5	26 E	15*	15*
3 12	0 57.84	− 0 40.1	2.785	1.904	11.4	20.5	22 E	11*	13*
3 22	1 19.60	+ 1 44.2	2.852	1.933	9.4	20.5	19 E	8*	10*
4 1	1 41.10	+ 4 1.9	2.913	1.963	7.4	20.5	15 E	4*	7*
4 11	2 2.38	+ 6 11.7	2.968	1.993	5.5	20.5	11 E	—	5*
4 21	2 23.48	+ 8 13.0	3.015	2.023	3.8	20.5	8 E	—	2*
5 1	2 44.41	+10 5.0	3.054	2.053	2.8	20.5	6 E	—	—
5 11	3 5.18	+11 47.1	3.084	2.083	3.1	20.5	6 W	—	—
5 21	3 25.80	+13 18.9	3.106	2.113	4.4	20.7	9 W	—	3*
5 31	3 46.22	+14 40.2	3.118	2.143	6.2	20.8	13 W	—	7*
6 10	4 6.42	+15 50.8	3.120	2.172	8.0	20.9	17 W	—	11*
6 20	4 26.36	+16 50.8	3.111	2.200	9.9	21.0	22 W	2*	15*
6 30	4 45.98	+17 40.4	3.092	2.229	11.7	21.1	26 W	7*	19*
7 10	5 5.19	+18 19.8	3.063	2.256	13.5	21.2	31 W	12*	22*
7 20	5 23.94	+18 49.7	3.022	2.283	15.3	21.2	36 W	17*	25*
7 30	5 42.11	+19 10.5	2.971	2.309	16.9	21.3	41 W	24*	28*
8 9	5 59.61	+19 23.3	2.909	2.335	18.5	21.3	47 W	30*	30*
8 19	6 16.34	+19 28.9	2.836	2.360	19.9	21.3	52 W	36*	33*
8 29	6 32.15	+19 28.7	2.754	2.384	21.1	21.3	58 W	42*	35*
9 8	6 46.90	+19 23.8	2.663	2.407	22.2	21.3	65 W	49*	37*
9 18	7 0.43	+19 16.1	2.563	2.430	23.0	21.3	71 W	54*	39*
9 28	7 12.53	+19 7.1	2.457	2.452	23.6	21.2	78 W	59*	40*
10 8	7 22.99	+18 59.0	2.345	2.472	23.8	21.1	85 W	63*	42*
10 18	7 31.54	+18 53.9	2.230	2.492	23.5	21.0	93 W	64	44*
10 28	7 37.86	+18 54.2	2.115	2.511	22.8	20.9	102 W	64	45*
11 7	7 41.63	+19 2.1	2.002	2.529	21.5	20.8	111 W	64	45
11 17	7 42.53	+19 19.6	1.896	2.546	19.5	20.6	121 W	64	45
11 27	7 40.29	+19 48.1	1.801	2.563	16.8	20.4	131 W	65	44
12 7	7 34.82	+20 27.2	1.723	2.578	13.3	20.2	143 W	65	44
12 17	7 26.34	+21 15.1	1.666	2.592	9.2	20.0	155 W	66	43
12 22	7 21.15	+21 41.2	1.647	2.599	6.9	19.9	162 W	67	42
12 27	7 15.49	+22 7.9	1.636	2.605	4.5	19.7	168 W	67	42
1 1	7 9.52	+22 34.4	1.631	2.612	2.1	19.6	174 W	68	41
1 6	7 3.40	+23 0.3	1.635	2.618	0.4	19.4	179 E	68	41
1 11	6 57.31	+23 25.0	1.645	2.624	2.8	19.7	172 E	68	41
1 16	6 51.43	+23 48.1	1.664	2.629	5.2	19.8	166 E	69	40

394783 2008 HD_3

12 23	21 47.31	−46 1.5	0.585	0.757	93.4	21.4	50 E	—	43*
12 28	22 1.56	−51 19.4	0.624	0.752	90.8	21.4	50 E	—	41*
1 2	22 12.80	−55 46.7	0.663	0.752	87.8	21.4	50 E	—	39*
1 7	22 20.73	−59 30.3	0.700	0.756	84.9	21.4	50 E	—	37*
1 12	22 25.18	−62 36.5	0.734	0.764	82.0	21.4	50 E	—	34*
1 17	22 26.15	−65 10.5	0.763	0.776	79.4	21.4	51 E	—	32*
1 22	22 23.78	−67 16.3	0.787	0.792	77.1	21.5	52 E	—	30*
1 27	22 18.35	−68 57.5	0.804	0.811	75.2	21.5	53 E	—	27*

401954 2002 RW_{25}

12 23	21 47.59	−14 27.7	1.191	0.999	52.5	21.1	54 E	28*	39*
1 2	22 19.21	−11 30.9	1.188	0.964	53.2	21.0	52 E	30*	35*
1 12	22 50.38	− 8 20.0	1.171	0.923	54.5	21.0	50 E	32*	32*
1 22	23 21.39	− 4 57.4	1.139	0.876	56.7	20.8	48 E	33*	29*
2 1	23 52.48	− 1 25.8	1.091	0.824	60.0	20.7	46 E	33*	26*
2 11	0 23.66	+ 2 10.6	1.024	0.768	65.0	20.6	45 E	34*	24*
2 21	0 54.61	+ 5 44.9	0.937	0.712	72.2	20.4	43 E	33*	22*

401954 2002 RW_{25} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 26	1 9.69	+ 7 28.4	0.887	0.684	76.9	20.4	42 E	33*	21*
3 2	1 24.17	+ 9 6.9	0.831	0.659	82.5	20.4	41 E	32*	20*
3 7	1 37.61	+10 38.0	0.772	0.636	89.1	20.4	40 E	31*	19*
3 12	1 49.40	+11 58.6	0.709	0.617	96.8	20.5	38 E	29*	18*
3 17	1 58.68	+13 4.8	0.645	0.602	105.9	20.7	36 E	27*	16*
3 22	2 4.36	+13 51.7	0.581	0.592	116.3	21.1	32 E	24*	14*

219844 2002 CQ_{148}

12 23	21 48.39	−11 1.0	5.360	4.863	9.5	21.1	55 E	32*	38*
1 2	21 56.07	−10 23.8	5.477	4.858	8.5	21.1	47 E	29*	29*
1 12	22 4.28	− 9 42.3	5.580	4.852	7.3	21.1	39 E	26*	22*
1 22	22 12.89	− 8 57.0	5.665	4.847	6.0	21.1	31 E	21*	15*
2 1	22 21.81	− 8 8.3	5.732	4.841	4.6	21.0	23 E	15*	9*
2 11	22 30.95	− 7 16.8	5.780	4.836	3.1	20.9	15 E	9*	3*
2 21	22 40.20	− 6 23.0	5.808	4.830	1.6	20.8	8 E	2*	—
3 2	22 49.51	− 5 27.5	5.815	4.825	0.4	20.7	2 W	—	—
3 12	22 58.77	− 4 30.9	5.802	4.820	1.6	20.8	8 W	—	1*
3 22	23 7.93	− 3 33.7	5.770	4.814	3.1	20.9	15 W	1*	9*
4 1	23 16.92	− 2 36.6	5.717	4.809	4.6	21.0	22 W	4*	16*
4 11	23 25.65	− 1 40.2	5.647	4.804	6.0	21.0	30 W	7*	24*
4 21	23 34.06	− 0 45.0	5.558	4.799	7.3	21.1	37 W	10*	31*
5 1	23 42.08	+ 0 8.1	5.454	4.794	8.5	21.1	45 W	13*	38*
5 11	23 49.61	+ 0 58.7	5.336	4.789	9.6	21.1	53 W	16*	45*
5 21	23 56.59	+ 1 46.1	5.205	4.784	10.6	21.1	60 W	20*	51*
5 31	0 2.90	+ 2 29.5	5.063	4.779	11.4	21.0	68 W	25*	56*
6 10	0 8.46	+ 3 8.3	4.914	4.774	11.9	21.0	76 W	30*	60*
6 20	0 13.15	+ 3 41.7	4.760	4.769	12.2	20.9	84 W	35*	60
6 30	0 16.87	+ 4 9.0	4.604	4.764	12.3	20.8	93 W	41*	60
7 10	0 19.52	+ 4 29.4	4.449	4.760	12.1	20.8	102 W	46*	60
7 20	0 21.00	+ 4 42.3	4.299	4.755	11.5	20.7	111 W	49*	59
7 30	0 21.25	+ 4 47.1	4.158	4.751	10.6	20.6	120 W	50	59
8 9	0 20.25	+ 4 43.6	4.030	4.746	9.4	20.4	130 W	50	59
8 19	0 18.03	+ 4 31.6	3.920	4.742	7.9	20.3	140 W	50	59
8 29	0 14.72	+ 4 11.7	3.831	4.737	6.0	20.2	151 W	49	60
9 8	0 10.52	+ 3 45.0	3.767	4.733	3.9	20.0	161 W	49	60
9 18	0 5.72	+ 3 13.2	3.731	4.729	1.6	19.8	172 W	48	61
9 28	0 0.70	+ 2 38.6	3.725	4.725	1.0	19.8	176 E	48	61
10 8	23 55.85	+ 2 3.8	3.749	4.721	3.2	20.0	165 E	47	62
10 18	23 51.54	+ 1 31.4	3.802	4.717	5.4	20.1	154 E	47	62
10 28	23 48.11	+ 1 3.9	3.882	4.713	7.3	20.2	143 E	46	63
11 7	23 45.80	+ 0 43.0	3.986	4.709	9.0	20.4	132 E	46	63
11 17	23 44.77	+ 0 30.1	4.108	4.706	10.3	20.5	122 E	46	63
11 27	23 45.06	+ 0 25.7	4.245	4.702	11.2	20.6	112 E	45	64
12 7	23 46.68	+ 0 30.0	4.392	4.699	11.8	20.7	102 E	46	63*
12 17	23 49.56	+ 0 42.7	4.545	4.695	12.1	20.8	93 E	46	59*
12 27	23 53.61	+ 1 3.3	4.699	4.692	12.0	20.8	84 E	46	52*
1 6	23 58.70	+ 1 31.1	4.851	4.689	11.7	20.9	75 E	46*	45*
1 16	0 4.72	+ 2 5.3	4.996	4.685	11.1	20.9	66 E	45*	38*

279816 2000 JE_5

12 23	21 48.91	−27 56.4	0.977	0.840	65.0	21.0	51 E	15*	43*
12 25	21 58.74	−25 20.0	0.979	0.852	64.6	21.0	51 E	18*	43*
12 27	22 7.95	−22 42.8	0.984	0.863	64.0	21.0	52 E	20*	42*
12 29	22 16.62	−20 5.9	0.990	0.875	63.3	21.0	53 E	23*	41*
12 31	22 24.78	−17 30.1	0.998	0.887	62.5	21.1	53 E	25*	40*
1 2	22 32.49	−14 56.3	1.008	0.899	61.7	21.1	54 E	28*	39*
1 7	22 50.08	− 8 44.4	1.040	0.931	59.6	21.2	55 E	33*	36*
1 12	23 5.75	− 2 55.7	1.079	0.964	57.2	21.3	55 E	38*	33*
1 17	23 20.00	+ 2 26.8	1.125	0.997	54.8	21.3	56 E	42*	29*
1 22	23 33.22	+ 7 22.8	1.175	1.031	52.5	21.4	56 E	45*	25*

7778 Markrobinson

12 23	21 49.45	− 0 28.8	1.952	1.683	30.3	17.1	60 E	42*	33*
1 2	22 16.71	+ 0 34.2	2.047	1.708	28.6	17.2	56 E	41*	29*
1 12	22 43.44	+ 1 46.7	2.145	1.735	26.8	17.3	53 E	40*	25*
1 22	23 9.60	+ 3 6.2	2.246	1.764	24.9	17.3	49 E	39*	22*
2 1	23 35.19	+ 4 30.6	2.348	1.795	22.9	17.4	45 E	36*	19*
2 11	0 0.20	+ 5 57.4	2.450	1.828	20.9	17.5	41 E	33*	17*
2 21	0 24.68	+ 7 24.7	2.551	1.863	18.8	17.5	37 E	30*	15*
3 2	0 48.66	+ 8 50.5	2.649	1.898	16.6	17.6	33 E	26*	13*
3 12	1 12.19	+10 13.2	2.743	1.935	14.4	17.6	29 E	22*	11*
3 22	1 35.30	+11 31.4	2.832	1.972	12.2	17.7	25 E	17*	9*
4 1	1 58.03	+12 43.7	2.916	2.010	10.0	17.7	20 E	13*	7*
4 11	2 20.40	+13 49.0	2.993	2.049	7.8	17.7	16 E	9*	5*
4 21	2 42.43	+14 46.5	3.061	2.087	5.6	17.7	12 E	4*	3*
5 1	3 4.12	+15 35.5	3.121	2.126	3.5	17.6	7 E	—	—
5 11	3 25.44	+16 15.2	3.172	2.165	1.7	17.6	4 E	—	—
5 21	3 46.39	+16 45.2	3.213	2.204	1.7	17.7	4 W	—	—
5 31	4 6.93	+17 5.3	3.243	2.242	3.5	17.8	8 W	—	2*
6 10	4 27.01	+17 15.1	3.262	2.280	5.5	18.0	12 W	—	6*
6 20	4 46.60	+17 14.8	3.269	2.318	7.4	18.1	17 W	—	11*

7778 Markrobinson *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
6 30	5 5.62	+17 4.2	3.265	2.355	9.4	18.3	22 W	3*	16*
7 10	5 24.02	+16 43.5	3.249	2.392	11.2	18.3	27 W	7*	20*
7 20	5 41.72	+16 13.1	3.222	2.428	13.0	18.4	33 W	13*	24*
7 30	5 58.64	+15 33.2	3.182	2.464	14.7	18.5	38 W	18*	28*
8 9	6 14.70	+14 44.3	3.132	2.499	16.3	18.5	44 W	24*	31*
8 19	6 29.81	+13 46.8	3.070	2.533	17.7	18.6	50 W	30*	35*
8 29	6 43.85	+12 41.2	2.998	2.566	19.0	18.6	56 W	36*	38*
9 8	6 56.69	+11 28.4	2.916	2.599	20.0	18.6	62 W	41*	42*
9 18	7 8.21	+10 9.0	2.826	2.631	20.8	18.6	69 W	46*	45*
9 28	7 18.22	+ 8 43.8	2.729	2.662	21.4	18.5	76 W	49*	49*
10 8	7 26.54	+ 7 14.0	2.626	2.692	21.6	18.5	83 W	51*	53*
10 18	7 32.97	+ 5 40.9	2.521	2.722	21.5	18.4	91 W	51	56*
10 28	7 37.26	+ 4 6.2	2.416	2.750	20.9	18.3	99 W	49	59*
11 7	7 39.20	+ 2 32.1	2.314	2.778	19.9	18.2	107 W	48	61
11 17	7 38.59	+ 1 1.5	2.220	2.805	18.4	18.1	117 W	46	63
11 27	7 35.33	− 0 21.9	2.137	2.830	16.4	18.0	126 W	45	64
12 7	7 29.53	− 1 33.7	2.070	2.855	14.0	17.9	135 W	43	66
12 17	7 21.48	− 2 29.5	2.024	2.879	11.6	17.7	144 W	43	66
12 27	7 11.82	− 3 5.2	2.002	2.902	9.4	17.6	151 W	42	67
1 6	7 1.44	− 3 18.6	2.008	2.924	8.4	17.6	154 E	42	67
1 16	6 51.33	− 3 9.7	2.042	2.946	9.1	17.7	152 E	42	67

199003 2005 WJ_{56}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	21 49.46	+10 3.2	1.062	1.098	54.1	20.4	65 E	52*	27*
1 2	22 25.82	+12 12.7	1.089	1.103	53.3	20.5	64 E	53*	24*
1 12	23 2.43	+14 12.3	1.115	1.105	52.6	20.5	63 E	54*	23*
1 22	23 39.36	+15 59.1	1.140	1.103	52.0	20.5	62 E	53*	21*
2 1	0 16.62	+17 30.8	1.165	1.097	51.5	20.5	61 E	53*	21*
2 11	0 54.15	+18 44.3	1.189	1.087	51.2	20.5	59 E	51*	21*
2 21	1 31.86	+19 36.8	1.210	1.074	50.9	20.6	57 E	50*	21*
3 2	2 9.67	+20 5.9	1.228	1.058	50.7	20.5	56 E	48*	22*
3 12	2 47.39	+20 9.6	1.242	1.039	50.7	20.5	54 E	45*	24*
3 22	3 24.90	+19 46.4	1.251	1.017	50.9	20.5	52 E	42*	26*
4 1	4 2.08	+18 55.5	1.253	0.993	51.3	20.5	51 E	39*	28*
4 11	4 38.80	+17 36.8	1.247	0.967	52.0	20.4	49 E	35*	30*
4 21	5 15.01	+15 51.1	1.232	0.940	53.1	20.4	48 E	31*	32*
5 1	5 50.78	+13 39.8	1.207	0.913	54.7	20.3	48 E	27*	34*
5 11	6 26.17	+11 5.3	1.171	0.887	56.8	20.2	47 E	22*	37*
5 21	7 1.42	+ 8 11.3	1.125	0.863	59.5	20.2	47 E	17*	39*
5 31	7 36.90	+ 5 2.7	1.068	0.843	62.8	20.1	48 E	12*	40*
6 5	7 54.86	+ 3 24.9	1.036	0.834	64.7	20.1	48 E	10*	41*
6 10	8 13.07	+ 1 46.1	1.002	0.827	66.7	20.0	48 E	8*	42*
6 15	8 31.63	+ 0 7.6	0.966	0.821	68.7	20.0	49 E	6*	43*
6 20	8 50.64	− 1 29.4	0.929	0.817	70.9	20.0	49 E	4*	43*
6 25	9 10.22	− 3 3.4	0.890	0.814	73.1	20.0	50 E	3*	44*
6 30	9 30.46	− 4 32.8	0.852	0.813	75.2	19.9	51 E	2*	45*
7 5	9 51.50	− 5 55.6	0.813	0.814	77.4	19.9	51 E	1*	45*
7 10	10 13.45	− 7 9.5	0.775	0.816	79.4	19.9	52 E	1*	46*
7 15	10 36.42	− 8 12.5	0.738	0.820	81.3	19.8	53 E	2*	47*
7 20	11 0.48	− 9 2.2	0.702	0.826	82.9	19.8	54 E	3*	48*
7 25	11 25.67	− 9 36.2	0.670	0.833	84.3	19.8	55 E	4*	49*
7 30	11 51.92	− 9 52.5	0.640	0.841	85.4	19.7	56 E	6*	50*
8 4	12 19.11	− 9 49.1	0.614	0.851	86.1	19.7	57 E	9*	51*
8 9	12 47.03	− 9 25.2	0.592	0.861	86.4	19.7	58 E	11*	52*
8 14	13 15.39	− 8 41.0	0.574	0.873	86.3	19.6	59 E	15*	53*
8 19	13 43.87	− 7 38.1	0.561	0.885	85.8	19.6	61 E	18*	54*
8 24	14 12.11	− 6 19.3	0.552	0.898	84.9	19.6	62 E	22*	54*
8 29	14 39.77	− 4 48.1	0.547	0.911	83.7	19.5	64 E	25*	54*
9 3	15 6.60	− 3 8.4	0.546	0.924	82.3	19.5	65 E	29*	54*
9 8	15 32.40	− 1 24.5	0.549	0.938	80.7	19.5	67 E	33*	54*
9 13	15 57.11	+ 0 20.0	0.555	0.951	79.1	19.5	68 E	36*	53*
9 18	16 20.71	+ 2 2.1	0.563	0.964	77.4	19.5	69 E	39*	52*
9 23	16 43.26	+ 3 39.9	0.573	0.978	75.7	19.5	71 E	42*	51*
9 28	17 4.83	+ 5 12.2	0.584	0.990	74.0	19.5	72 E	45*	50*
10 8	17 45.50	+ 7 57.6	0.610	1.015	71.0	19.5	74 E	49*	47*
10 18	18 23.76	+10 17.2	0.636	1.037	68.3	19.6	75 E	53*	44*
10 28	19 0.58	+12 14.2	0.662	1.056	66.1	19.7	76 E	55*	41*
11 2	19 18.69	+13 5.5	0.675	1.065	65.1	19.7	77 E	57*	40*
11 7	19 36.70	+13 52.5	0.687	1.073	64.2	19.7	77 E	58*	39*
11 12	19 54.70	+14 35.6	0.699	1.080	63.4	19.7	77 E	59*	37*
11 17	20 12.74	+15 15.3	0.711	1.086	62.7	19.8	78 E	59*	36*
11 27	20 49.13	+16 25.9	0.733	1.096	61.6	19.8	78 E	61*	33*
12 7	21 26.04	+17 25.6	0.754	1.102	60.7	19.9	77 E	62*	31*
12 17	22 3.58	+18 14.7	0.776	1.105	60.1	19.9	77 E	62*	29*
12 27	22 41.71	+18 53.3	0.797	1.104	59.8	20.0	76 E	63*	27*
1 6	23 20.24	+19 19.8	0.819	1.099	59.6	20.0	75 E	62*	26*
1 16	23 59.00	+19 32.8	0.841	1.090	59.6	20.0	73 E	62*	26*

38074 1999 GX_{19}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	21 49.53	−12 29.6	2.185	1.806	26.4	19.3	55 E	30*	39*
1 2	22 13.52	−10 39.0	2.291	1.833	24.5	19.4	51 E	31*	33*
1 12	22 36.94	− 8 41.4	2.395	1.862	22.6	19.4	47 E	30*	29*
1 22	22 59.81	− 6 38.8	2.497	1.892	20.6	19.5	42 E	29*	25*
2 1	23 22.19	− 4 33.1	2.597	1.922	18.5	19.5	38 E	27*	21*
2 11	23 44.10	− 2 26.1	2.692	1.953	16.4	19.6	34 E	24*	17*
2 21	0 5.61	− 0 19.4	2.782	1.984	14.3	19.6	30 E	21*	14*
3 2	0 26.78	+ 1 45.6	2.867	2.016	12.1	19.6	25 E	17*	11*
3 12	0 47.63	+ 3 47.6	2.945	2.047	10.0	19.6	21 E	13*	8*
3 22	1 8.23	+ 5 45.4	3.016	2.079	7.8	19.6	16 E	9*	6*
4 1	1 28.61	+ 7 37.9	3.078	2.111	5.6	19.6	12 E	4*	3*
4 11	1 48.78	+ 9 24.3	3.132	2.143	3.5	19.6	8 E	—	—
4 21	2 8.78	+11 3.7	3.177	2.174	1.5	19.5	3 E	—	—
5 1	2 28.61	+12 35.5	3.211	2.205	1.3	19.5	3 W	—	—
5 11	2 48.26	+13 59.0	3.235	2.236	3.1	19.7	7 W	—	1*
5 21	3 7.72	+15 13.8	3.248	2.266	5.2	19.9	12 W	—	6*
5 31	3 26.96	+16 19.6	3.250	2.296	7.2	20.0	16 W	—	10*
6 10	3 45.93	+17 16.0	3.241	2.325	9.1	20.1	21 W	3*	15*
6 20	4 4.58	+18 3.0	3.220	2.353	11.0	20.2	26 W	7*	19*
6 30	4 22.84	+18 40.6	3.188	2.381	12.9	20.3	31 W	11*	23*
7 10	4 40.63	+19 8.9	3.145	2.408	14.6	20.3	37 W	17*	26*
7 20	4 57.87	+19 28.2	3.090	2.435	16.3	20.4	42 W	22*	29*
7 30	5 14.43	+19 38.9	3.024	2.460	17.8	20.4	48 W	29*	32*
8 9	5 30.19	+19 41.5	2.947	2.485	19.2	20.4	54 W	35*	34*
8 19	5 45.02	+19 36.7	2.861	2.509	20.4	20.4	60 W	42*	37*
8 29	5 58.75	+19 25.4	2.765	2.532	21.4	20.4	66 W	48*	39*
9 8	6 11.20	+19 8.5	2.662	2.555	22.1	20.3	73 W	54*	41*
9 18	6 22.17	+18 47.1	2.553	2.576	22.6	20.3	80 W	59*	43*
9 28	6 31.39	+18 22.6	2.438	2.597	22.7	20.2	88 W	62*	44*
10 8	6 38.62	+17 56.2	2.322	2.617	22.3	20.1	96 W	63	46*
10 18	6 43.56	+17 29.7	2.206	2.635	21.5	20.0	104 W	62	47
10 28	6 45.89	+17 4.4	2.094	2.653	20.1	19.8	114 W	62	47
11 7	6 45.37	+16 41.9	1.991	2.670	18.0	19.7	124 W	62	47
11 17	6 41.86	+16 23.5	1.900	2.686	15.3	19.5	134 W	61	48
11 27	6 35.40	+16 10.2	1.828	2.701	11.9	19.3	146 W	61	48
12 7	6 26.41	+16 2.4	1.779	2.715	8.0	19.1	158 W	61	48
12 17	6 15.64	+16 0.1	1.757	2.728	4.1	18.9	169 W	61	48
12 27	6 4.21	+16 3.1	1.764	2.740	3.1	18.8	171 E	61	48
1 6	5 53.37	+16 11.0	1.802	2.752	6.5	19.1	161 E	61	48
1 16	5 44.20	+16 23.4	1.868	2.762	10.4	19.3	150 E	61	48

301968 2000 FX_2

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	21 52.26	−28 48.6	3.393	2.884	15.5	20.4	51 E	15*	44*
1 2	22 4.55	−26 47.4	3.458	2.845	14.1	20.4	45 E	15*	37*
1 12	22 17.48	−24 43.8	3.510	2.805	12.5	20.3	38 E	14*	30*
1 22	22 30.93	−22 37.8	3.549	2.765	10.9	20.2	32 E	11*	24*
2 1	22 44.80	−20 29.2	3.573	2.723	9.2	20.2	26 E	8*	19*
2 11	22 59.01	−18 18.2	3.583	2.681	7.4	20.0	20 E	5*	14*
2 21	23 13.51	−16 4.6	3.579	2.638	5.7	19.9	15 E	—	9*
3 2	23 28.26	−13 48.7	3.560	2.594	4.2	19.8	11 E	—	5*
3 12	23 43.22	−11 30.5	3.527	2.550	3.5	19.7	9 E	—	1*
3 22	23 58.39	− 9 10.2	3.480	2.505	3.9	19.7	10 W	—	—
4 1	0 13.78	− 6 47.8	3.421	2.459	5.4	19.7	13 W	—	5*
4 11	0 29.37	− 4 23.5	3.348	2.413	7.2	19.7	18 W	—	11*
4 21	0 45.20	− 1 57.2	3.265	2.366	9.3	19.7	22 W	—	16*
5 1	1 1.29	+ 0 30.9	3.171	2.319	11.4	19.6	27 W	—	21*
5 11	1 17.68	+ 3 0.8	3.067	2.271	13.5	19.6	32 W	2*	26*
5 21	1 34.41	+ 5 32.6	2.955	2.223	15.7	19.5	36 W	6*	30*
5 31	1 51.53	+ 8 6.5	2.836	2.176	17.8	19.5	41 W	10*	34*
6 10	2 9.10	+10 42.5	2.711	2.128	19.9	19.4	46 W	15*	37*
6 20	2 27.21	+13 21.0	2.581	2.080	22.0	19.3	50 W	20*	39*
6 30	2 45.94	+16 2.2	2.447	2.032	24.0	19.2	54 W	26*	40*
7 10	3 5.38	+18 46.4	2.312	1.985	26.0	19.1	59 W	33*	40*
7 20	3 25.68	+21 34.1	2.176	1.939	27.8	19.0	63 W	40*	39*
7 30	3 46.97	+24 25.5	2.040	1.893	29.6	18.8	67 W	47*	38*
8 9	4 9.43	+27 21.0	1.907	1.849	31.3	18.7	71 W	54*	35*
8 19	4 33.28	+30 20.5	1.778	1.806	32.8	18.5	75 W	61*	33*
8 24	4 45.80	+31 51.7	1.715	1.786	33.5	18.4	77 W	64*	31*
8 29	4 58.75	+33 23.8	1.654	1.765	34.2	18.3	79 W	67*	30*
9 3	5 12.17	+34 56.5	1.594	1.746	34.8	18.3	81 W	70*	28*
9 8	5 26.12	+36 29.7	1.536	1.727	35.4	18.2	83 W	73*	27*
9 13	5 40.61	+38 3.1	1.480	1.708	35.9	18.1	85 W	76*	25*
9 18	5 55.69	+39 36.4	1.426	1.691	36.4	18.0	86 W	79*	24*
9 23	6 11.38	+41 9.0	1.375	1.674	36.8	17.9	88 W	81*	22*
9 28	6 27.71	+42 40.5	1.326	1.657	37.2	17.8	90 W	83*	21*
10 3	6 44.70	+44 10.3	1.280	1.642	37.5	17.7	91 W	85*	19*
10 8	7 2.38	+45 37.6	1.236	1.628	37.8	17.6	93 W	87*	18*
10 13	7 20.71	+47 1.8	1.195	1.614	38.1	17.6	94 W	87*	16*
10 18	7 39.65	+48 22.0	1.156	1.601	38.2	17.5	96 W	87*	15*
10 23	7 59.13	+49 37.5	1.120	1.590	38.4	17.4	97 W	85	13*
10 28	8 19.07	+50 47.6	1.087	1.579	38.5	17.3	99 W	84	12*

301968 2000 FX_2 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 2	8 39.32	+51 51.8	1.056	1.570	38.5	17.2	100 W	83	11*
11 7	8 59.73	+52 49.6	1.028	1.562	38.5	17.2	101 W	82	10*
11 12	9 20.08	+53 41.0	1.002	1.555	38.4	17.1	103 W	81	9*
11 17	9 40.14	+54 26.3	0.979	1.549	38.3	17.0	104 W	81	8*
11 22	9 59.64	+55 5.8	0.957	1.544	38.1	17.0	105 W	80	7*
11 27	10 18.36	+55 40.2	0.937	1.541	37.9	16.9	106 W	79	7*
12 2	10 36.07	+56 10.2	0.919	1.539	37.6	16.9	108 W	79	6*
12 7	10 52.52	+56 36.9	0.903	1.538	37.3	16.8	109 W	78	6*
12 12	11 7.49	+57 1.6	0.887	1.539	36.8	16.8	110 W	78	6*
12 17	11 20.76	+57 25.1	0.873	1.541	36.3	16.7	112 W	78	6*
12 22	11 32.14	+57 48.0	0.860	1.544	35.8	16.7	113 W	77	6*
12 27	11 41.47	+58 10.9	0.849	1.548	35.1	16.6	115 W	77	5*
1 1	11 48.57	+58 33.8	0.838	1.554	34.4	16.6	117 W	76	5*
1 6	11 53.30	+58 56.5	0.828	1.560	33.6	16.6	119 W	76	5*
1 11	11 55.47	+59 18.1	0.820	1.568	32.7	16.5	121 W	76	5
1 16	11 54.99	+59 36.9	0.813	1.577	31.7	16.5	123 W	75	4

41434 2000 GB_{82}

12 23	21 52.79	−20 31.4	1.914	1.540	30.7	20.0	53 E	23*	42*
1 2	22 18.26	−17 8.2	1.977	1.537	29.2	20.0	50 E	25*	37*
1 12	22 43.21	−13 38.1	2.039	1.536	27.6	20.0	46 E	26*	32*
1 22	23 7.74	−10 3.4	2.099	1.535	26.0	20.0	43 E	27*	28*
2 1	23 32.00	− 6 26.1	2.156	1.535	24.3	20.0	40 E	26*	24*
2 11	23 56.09	− 2 48.3	2.211	1.536	22.5	20.0	37 E	25*	20*
2 21	0 20.16	+ 0 48.0	2.263	1.538	20.7	20.0	33 E	24*	17*
3 2	0 44.35	+ 4 21.1	2.312	1.540	18.9	20.0	30 E	22*	14*
3 12	1 8.79	+ 7 48.8	2.358	1.543	17.1	20.0	27 E	19*	11*
3 22	1 33.62	+11 9.4	2.400	1.547	15.3	20.0	24 E	17*	9*
4 1	1 58.97	+14 20.8	2.439	1.551	13.5	20.0	21 E	14*	6*
4 11	2 24.94	+17 21.0	2.474	1.556	11.8	19.9	18 E	12*	4*
4 21	2 51.62	+20 8.1	2.505	1.562	10.1	19.9	16 E	9*	2*
5 1	3 19.10	+22 39.9	2.532	1.568	8.4	19.9	13 E	7*	—
5 11	3 47.38	+24 54.3	2.555	1.575	6.9	19.8	11 E	5*	—
5 21	4 16.47	+26 49.6	2.575	1.582	5.6	19.8	9 E	3*	—
5 31	4 46.28	+28 23.8	2.590	1.589	4.6	19.8	7 E	1*	—
6 10	5 16.69	+29 35.5	2.601	1.597	4.2	19.8	7 E	—	—
6 20	5 47.52	+30 23.6	2.608	1.605	4.5	19.8	7 W	1*	—
6 30	6 18.55	+30 47.7	2.611	1.613	5.4	19.9	9 W	3*	—
7 10	6 49.53	+30 47.8	2.609	1.621	6.6	19.9	11 W	5*	—
7 20	7 20.23	+30 24.5	2.603	1.629	8.0	20.0	13 W	7*	—
7 30	7 50.41	+29 39.3	2.593	1.637	9.5	20.1	15 W	9*	—
8 9	8 19.91	+28 33.7	2.578	1.646	11.1	20.1	18 W	12*	—
8 19	8 48.59	+27 10.0	2.559	1.654	12.6	20.2	21 W	15*	1*
8 29	9 16.37	+25 30.3	2.534	1.662	14.2	20.2	24 W	18*	2*
9 8	9 43.21	+23 37.2	2.504	1.669	15.9	20.3	27 W	21*	4*
9 18	10 9.15	+21 33.1	2.469	1.677	17.5	20.3	30 W	24*	5*
9 28	10 34.20	+19 20.3	2.428	1.684	19.1	20.3	33 W	27*	7*
10 8	10 58.42	+17 1.0	2.382	1.691	20.7	20.3	37 W	31*	9*
10 18	11 21.89	+14 37.4	2.330	1.697	22.3	20.4	40 W	34*	12*
10 28	11 44.65	+12 11.5	2.272	1.703	23.9	20.4	44 W	37*	14*
11 7	12 6.78	+ 9 45.0	2.208	1.709	25.5	20.4	48 W	40*	18*
11 17	12 28.32	+ 7 19.4	2.138	1.714	27.0	20.3	52 W	42*	22*
11 27	12 49.29	+ 4 56.2	2.062	1.719	28.4	20.3	56 W	44*	26*
12 7	13 9.71	+ 2 36.7	1.981	1.723	29.8	20.3	60 W	44*	31*
12 17	13 29.56	+ 0 21.8	1.894	1.726	31.1	20.2	65 W	44*	37*
12 27	13 48.78	− 1 47.7	1.803	1.729	32.2	20.1	70 W	43*	44*
1 6	14 7.28	− 3 51.3	1.707	1.732	33.2	20.0	75 W	41*	51*
1 16	14 24.94	− 5 48.9	1.608	1.734	34.0	19.9	80 W	39	58*

319495 2006 QW_{59}

12 23	21 53.20	− 9 47.0	2.047	1.715	28.6	21.5	57 E	33*	38*
1 2	22 18.33	− 7 45.3	2.144	1.738	26.8	21.6	53 E	34*	33*
1 12	22 42.95	− 5 37.0	2.240	1.763	25.0	21.6	49 E	34*	29*
1 22	23 7.07	− 3 24.2	2.337	1.789	23.1	21.7	45 E	33*	25*
2 1	23 30.74	− 1 9.0	2.433	1.817	21.1	21.8	42 E	31*	21*

31662 1999 HP_{11}

12 23	21 53.53	− 6 1.7	0.925	0.928	64.1	21.3	58 E	37*	37*
12 28	22 18.44	− 1 34.4	0.939	0.970	62.0	21.4	61 E	41*	35*
1 2	22 42.22	+ 2 43.3	0.962	1.014	59.6	21.5	63 E	45*	33*
1 7	23 4.99	+ 6 46.4	0.992	1.058	57.2	21.6	65 E	49*	31*
1 12	23 26.86	+10 32.0	1.030	1.102	54.8	21.7	66 E	53*	29*

1310 Villigera

12 23	21 53.78	−16 38.6	2.664	2.239	20.9	16.4	54 E	27*	41*
1 2	22 8.47	−14 18.1	2.725	2.197	19.5	16.3	48 E	27*	34*
1 12	22 23.95	−11 51.7	2.775	2.155	18.0	16.3	43 E	26*	27*
1 22	22 40.10	− 9 19.2	2.815	2.113	16.3	16.2	37 E	24*	21*
2 1	22 56.89	− 6 40.4	2.844	2.070	14.4	16.1	32 E	21*	16*
2 11	23 14.28	− 3 55.6	2.862	2.028	12.6	16.0	27 E	18*	11*
2 21	23 32.26	− 1 4.8	2.870	1.986	10.6	15.9	22 E	15*	7*
3 2	23 50.88	+ 1 51.5	2.868	1.944	8.7	15.8	17 E	11*	3*

1310 Villigera *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 12	0 10.17	+ 4 52.8	2.857	1.902	6.8	15.6	13 E	7*	—
3 22	0 30.22	+ 7 58.3	2.837	1.862	5.1	15.5	10 E	4*	—
4 1	0 51.16	+11 7.0	2.810	1.822	3.8	15.4	7 E	—	—
4 11	1 13.09	+14 17.5	2.777	1.784	3.4	15.3	6 W	—	—
4 21	1 36.19	+17 28.0	2.740	1.748	4.2	15.2	7 W	1*	—
5 1	2 0.63	+20 36.4	2.698	1.713	5.6	15.2	10 W	3*	—
5 11	2 26.60	+23 39.7	2.654	1.680	7.3	15.2	12 W	5*	1*
5 21	2 54.30	+26 34.4	2.610	1.650	8.9	15.2	15 W	7*	3*
5 26	3 8.84	+27 57.2	2.587	1.636	9.8	15.2	16 W	8*	3*
5 31	3 23.87	+29 16.3	2.565	1.623	10.6	15.2	17 W	9*	4*
6 5	3 39.39	+30 31.0	2.543	1.611	11.4	15.2	18 W	11*	4*
6 10	3 55.41	+31 40.6	2.522	1.599	12.1	15.2	19 W	12*	5*
6 15	4 11.92	+32 44.5	2.501	1.589	12.9	15.2	20 W	13*	5*
6 20	4 28.90	+33 42.0	2.480	1.579	13.6	15.2	21 W	14*	5*
6 25	4 46.32	+34 32.5	2.461	1.570	14.3	15.2	22 W	15*	5*
6 30	5 4.13	+35 15.4	2.442	1.562	15.0	15.2	23 W	16*	5*
7 5	5 22.28	+35 50.1	2.424	1.556	15.6	15.2	24 W	17*	5*
7 10	5 40.71	+36 16.1	2.407	1.550	16.3	15.2	25 W	18*	5*
7 15	5 59.33	+36 33.1	2.391	1.545	16.9	15.2	26 W	19*	5*
7 20	6 18.07	+36 40.9	2.376	1.542	17.4	15.2	27 W	20*	5*
7 25	6 36.81	+36 39.4	2.362	1.539	18.0	15.2	28 W	21*	5*
7 30	6 55.48	+36 28.6	2.348	1.538	18.5	15.2	29 W	22*	4*
8 4	7 13.97	+36 8.7	2.335	1.537	19.0	15.2	30 W	23*	4*
8 9	7 32.22	+35 40.1	2.323	1.538	19.5	15.2	30 W	24*	4*
8 14	7 50.13	+35 3.1	2.312	1.540	20.0	15.2	31 W	25*	4*
8 19	8 7.66	+34 18.3	2.301	1.543	20.5	15.2	32 W	26*	5*
8 29	8 41.33	+32 27.9	2.281	1.553	21.4	15.2	34 W	28*	5*
9 8	9 12.97	+30 14.3	2.260	1.566	22.4	15.3	36 W	30*	6*
9 18	9 42.51	+27 42.9	2.240	1.584	23.3	15.3	39 W	33*	7*
9 28	10 9.94	+24 59.1	2.217	1.605	24.3	15.3	41 W	35*	9*
10 8	10 35.40	+22 7.6	2.191	1.630	25.3	15.4	44 W	38*	11*
10 18	10 59.00	+19 12.2	2.161	1.658	26.3	15.4	47 W	41*	14*
10 28	11 20.87	+16 16.4	2.126	1.689	27.2	15.4	51 W	44*	17*
11 7	11 41.11	+13 22.6	2.085	1.722	28.2	15.5	55 W	47*	21*
11 17	11 59.79	+10 32.9	2.037	1.757	29.0	15.5	60 W	49*	26*
11 27	12 16.89	+ 7 48.8	1.982	1.794	29.8	15.5	64 W	50*	31*
12 7	12 32.37	+ 5 11.5	1.921	1.833	30.3	15.5	70 W	49*	38*
12 17	12 46.13	+ 2 41.8	1.853	1.872	30.6	15.5	76 W	48*	45*
12 27	12 57.96	+ 0 20.2	1.779	1.913	30.6	15.4	82 W	45	52*
1 6	13 7.61	− 1 52.9	1.702	1.955	30.2	15.4	89 W	43	60*
1 16	13 14.75	− 3 57.2	1.621	1.997	29.3	15.3	97 W	41	66*

25974 2001 FF_{43}

12 23	21 54.82	−11 49.9	2.615	2.223	21.6	20.5	56 E	31*	39*
1 2	22 12.99	−10 15.7	2.746	2.256	19.7	20.6	51 E	31*	33*
1 12	22 30.99	− 8 36.9	2.872	2.289	17.8	20.6	45 E	30*	27*
1 22	22 48.81	− 6 54.5	2.990	2.322	15.8	20.7	40 E	27*	22*
2 1	23 6.43	− 5 9.5	3.100	2.354	13.7	20.7	34 E	24*	17*
2 11	23 23.84	− 3 22.8	3.201	2.385	11.5	20.7	29 E	20*	13*
2 21	23 41.05	− 1 35.4	3.291	2.416	9.4	20.7	23 E	16*	9*
3 2	23 58.08	+ 0 11.9	3.370	2.447	7.2	20.7	18 E	11*	5*
3 12	0 14.90	+ 1 58.2	3.437	2.477	5.0	20.7	13 E	6*	2*
3 22	0 31.54	+ 3 42.6	3.491	2.506	2.8	20.6	7 E	1*	—
4 1	0 48.00	+ 5 24.6	3.533	2.534	0.7	20.5	2 E	—	—
4 11	1 4.26	+ 7 3.3	3.561	2.562	1.5	20.6	4 W	—	—
4 21	1 20.34	+ 8 38.2	3.576	2.589	3.6	20.8	9 W	—	3*
5 1	1 36.20	+10 8.7	3.576	2.615	5.7	20.9	15 W	—	9*
5 11	1 51.83	+11 34.3	3.563	2.641	7.7	21.0	20 W	2*	14*
5 21	2 7.21	+12 54.5	3.537	2.665	9.6	21.1	26 W	5*	19*
5 31	2 22.27	+14 8.9	3.497	2.689	11.5	21.2	32 W	9*	24*
6 10	2 36.96	+15 17.3	3.444	2.712	13.2	21.2	38 W	13*	29*
6 20	2 51.22	+16 19.3	3.378	2.734	14.9	21.3	44 W	18*	33*
6 30	3 4.94	+17 14.7	3.301	2.755	16.4	21.3	50 W	24*	37*
7 10	3 18.02	+18 3.4	3.212	2.776	17.7	21.3	56 W	30*	39*
7 20	3 30.31	+18 45.4	3.113	2.795	18.8	21.3	63 W	37*	41*
7 30	3 41.64	+19 20.6	3.005	2.814	19.7	21.2	69 W	45*	43*
8 9	3 51.84	+19 49.2	2.890	2.831	20.4	21.2	77 W	52*	44*
8 19	4 0.66	+20 11.1	2.769	2.848	20.7	21.1	84 W	58*	44*
8 29	4 7.85	+20 26.6	2.645	2.864	20.6	21.0	92 W	63*	44
9 8	4 13.14	+20 35.7	2.521	2.879	20.1	20.9	100 W	66*	43
9 18	4 16.23	+20 38.3	2.399	2.893	19.1	20.8	109 W	66	43
9 28	4 16.84	+20 34.3	2.284	2.906	17.5	20.6	119 W	66	43
10 8	4 14.79	+20 23.4	2.180	2.918	15.3	20.5	129 W	65	44
10 18	4 10.04	+20 5.3	2.091	2.929	12.5	20.3	140 W	65	44
10 28	4 2.78	+19 39.9	2.024	2.940	9.1	20.1	152 W	65	44
11 7	3 53.57	+19 7.9	1.982	2.949	5.2	19.9	164 W	64	45
11 12	3 48.47	+18 50.0	1.972	2.953	3.1	19.7	171 W	64	45
11 17	3 43.20	+18 31.2	1.970	2.957	1.1	19.6	177 W	64	45
11 22	3 37.92	+18 12.0	1.975	2.961	1.2	19.6	176 E	63	46
11 27	3 32.75	+17 52.8	1.988	2.965	3.2	19.8	170 E	63	46

25974 2001 FF_{43} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 2	3 27.83	+17 34.3	2.008	2.968	5.3	19.9	164 E	63	46
12 7	3 23.27	+17 16.8	2.036	2.971	7.2	20.0	158 E	62	47
12 17	3 15.58	+16 47.1	2.112	2.977	10.7	20.3	146 E	62	47
12 27	3 10.24	+16 26.4	2.211	2.982	13.7	20.5	134 E	61	48
1 6	3 7.49	+16 16.4	2.329	2.986	16.0	20.7	123 E	61	48
1 16	3 7.30	+16 17.2	2.461	2.988	17.6	20.9	113 E	61	48

131777 2002 AE_{21}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	21 55.05	−14 29.3	1.967	1.624	29.9	20.4	55 E	29*	41*
1 2	22 21.03	−11 54.0	2.043	1.633	28.3	20.5	52 E	30*	36*
1 12	22 46.63	− 9 10.8	2.118	1.644	26.7	20.5	49 E	31*	31*
1 22	23 11.86	− 6 22.4	2.194	1.657	25.0	20.6	45 E	30*	27*
2 1	23 36.77	− 3 31.3	2.270	1.673	23.2	20.6	42 E	30*	24*
2 11	0 1.38	− 0 39.8	2.346	1.691	21.4	20.6	39 E	28*	20*
2 21	0 25.76	+ 2 9.7	2.421	1.711	19.5	20.7	35 E	26*	17*
3 2	0 49.99	+ 4 55.1	2.494	1.733	17.6	20.7	32 E	23*	15*
3 12	1 14.09	+ 7 34.5	2.566	1.756	15.6	20.7	28 E	20*	12*
3 22	1 38.14	+10 6.2	2.635	1.780	13.6	20.7	25 E	17*	10*
4 1	2 2.19	+12 28.7	2.700	1.806	11.6	20.8	21 E	14*	8*
4 11	2 26.24	+14 40.6	2.762	1.833	9.6	20.8	18 E	10*	6*
4 21	2 50.32	+16 40.8	2.820	1.861	7.5	20.7	14 E	7*	4*
5 1	3 14.42	+18 28.5	2.872	1.890	5.5	20.7	10 E	3*	1*
5 11	3 38.52	+20 2.8	2.919	1.919	3.5	20.7	7 E	—	—
5 21	4 2.57	+21 23.5	2.959	1.948	1.5	20.6	3 E	—	—
5 31	4 26.53	+22 30.1	2.991	1.978	0.8	20.6	1 W	—	—
6 10	4 50.31	+23 22.6	3.017	2.008	2.7	20.8	5 W	—	—
6 20	5 13.85	+24 1.3	3.034	2.038	4.7	21.0	9 W	—	2*
6 30	5 37.04	+24 26.6	3.042	2.068	6.7	21.1	14 W	3*	5*
7 10	5 59.80	+24 39.1	3.040	2.097	8.6	21.2	18 W	7*	8*
7 20	6 22.04	+24 39.6	3.030	2.127	10.5	21.3	22 W	12*	11*
7 30	6 43.66	+24 29.2	3.009	2.156	12.4	21.4	27 W	16*	14*
8 9	7 4.59	+24 9.0	2.978	2.184	14.2	21.5	32 W	22*	16*

204914 2008 SQ_{35}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	21 55.13	−16 31.6	2.058	1.693	28.3	20.0	55 E	27*	41*
1 2	22 19.51	−13 15.6	2.147	1.712	26.6	20.0	51 E	29*	36*
1 12	22 43.25	− 9 57.6	2.237	1.733	24.8	20.1	48 E	30*	31*
1 22	23 6.40	− 6 39.6	2.327	1.757	22.9	20.1	44 E	30*	26*
2 1	23 29.09	− 3 23.3	2.418	1.784	20.9	20.2	40 E	29*	22*
2 11	23 51.37	− 0 10.4	2.507	1.812	18.9	20.3	37 E	27*	18*
2 21	0 13.34	+ 2 57.7	2.595	1.842	16.9	20.3	33 E	24*	14*
3 2	0 35.10	+ 5 59.8	2.679	1.874	14.8	20.3	29 E	21*	11*
3 12	0 56.69	+ 8 54.9	2.761	1.907	12.7	20.4	25 E	18*	8*
3 22	1 18.19	+11 41.9	2.837	1.941	10.7	20.4	21 E	15*	5*
4 1	1 39.65	+14 20.1	2.909	1.976	8.6	20.4	17 E	11*	2*
4 11	2 1.10	+16 48.8	2.974	2.012	6.6	20.4	13 E	7*	—
4 21	2 22.58	+19 7.5	3.033	2.049	4.8	20.4	10 E	4*	—
5 1	2 44.10	+21 15.6	3.084	2.086	3.2	20.4	7 E	—	—
5 11	3 5.65	+23 12.8	3.126	2.123	2.6	20.4	6 W	—	—
5 21	3 27.21	+24 58.9	3.160	2.161	3.5	20.5	7 W	1*	—
5 31	3 48.74	+26 33.9	3.185	2.198	5.0	20.6	11 W	4*	1*
6 10	4 10.19	+27 57.6	3.200	2.236	6.8	20.8	15 W	7*	4*
6 20	4 31.50	+29 10.4	3.205	2.273	8.6	20.9	20 W	10*	7*
6 30	4 52.58	+30 12.8	3.200	2.310	10.4	21.0	24 W	14*	10*
7 10	5 13.33	+31 5.2	3.183	2.347	12.1	21.1	29 W	19*	13*
7 20	5 33.65	+31 48.4	3.156	2.383	13.8	21.2	34 W	24*	15*
7 30	5 53.42	+32 23.5	3.118	2.419	15.4	21.2	39 W	30*	17*
8 9	6 12.51	+32 51.7	3.069	2.455	16.9	21.3	45 W	36*	18*
8 19	6 30.81	+33 14.3	3.009	2.489	18.3	21.3	50 W	42*	20*
8 29	6 48.15	+33 33.0	2.940	2.524	19.4	21.3	56 W	48*	21*
9 8	7 4.38	+33 49.5	2.861	2.557	20.5	21.3	63 W	55*	22*
9 18	7 19.34	+34 5.9	2.773	2.590	21.2	21.3	69 W	61*	24*
9 28	7 32.81	+34 24.0	2.679	2.622	21.8	21.3	76 W	68*	25*
10 8	7 44.57	+34 46.2	2.579	2.654	22.0	21.2	83 W	75*	26*
10 18	7 54.35	+35 14.5	2.476	2.685	21.8	21.2	91 W	80*	27*
10 28	8 1.81	+35 50.6	2.372	2.715	21.2	21.1	99 W	81	27*
11 7	8 6.61	+36 35.7	2.270	2.744	20.1	21.0	108 W	82	27*
11 17	8 8.37	+37 29.8	2.175	2.772	18.5	20.9	117 W	82	27
11 27	8 6.75	+38 31.2	2.091	2.800	16.3	20.7	127 W	84	25
12 7	8 1.56	+39 35.7	2.023	2.826	13.7	20.6	137 W	85	24
12 17	7 52.91	+40 37.0	1.975	2.852	10.8	20.4	147 W	86	23
12 22	7 47.44	+41 3.8	1.960	2.865	9.4	20.4	152 W	86	23
12 27	7 41.38	+41 26.8	1.952	2.877	8.1	20.3	156 W	86	23
1 1	7 34.87	+41 45.0	1.951	2.889	7.1	20.3	159 W	87	22
1 6	7 28.09	+41 57.9	1.957	2.901	6.6	20.3	160 W	87	22
1 11	7 21.25	+42 4.8	1.970	2.913	6.7	20.3	160 E	87	22
1 16	7 14.54	+42 5.8	1.991	2.924	7.4	20.4	158 E	87	22

252399 2001 TX_{44}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	21 55.65	− 2 44.1	0.337	0.866	100.3	20.2	60 E	40*	35*
12 28	21 38.59	− 1 47.5	0.351	0.813	108.6	20.6	52 E	38*	27*
1 2	21 20.37	− 1 15.7	0.366	0.759	117.6	21.1	43 E	34*	18*
1 7	21 0.61	− 1 16.5	0.384	0.701	127.5	21.8	34 E	28*	8*
1 12	20 39.60	− 1 58.3	0.408	0.642	137.9	22.9	26 E	20*	—

184830 2005 UQ_6

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	21 55.83	−16 40.8	1.960	1.609	30.0	20.1	55 E	27*	42*
12 28	22 9.50	−15 17.2	2.000	1.618	29.2	20.1	53 E	28*	39*
1 2	22 22.98	−13 51.4	2.042	1.629	28.3	20.2	52 E	28*	37*
1 7	22 36.26	−12 23.9	2.083	1.639	27.5	20.2	50 E	29*	35*
1 12	22 49.34	−10 55.2	2.126	1.651	26.6	20.2	49 E	29*	33*
1 22	23 14.96	− 7 55.4	2.213	1.677	24.7	20.3	45 E	29*	28*
2 1	23 39.93	− 4 54.7	2.301	1.705	22.8	20.4	42 E	29*	25*
2 11	0 4.32	− 1 55.8	2.390	1.735	20.9	20.4	39 E	27*	22*
2 21	0 28.22	+ 0 59.0	2.478	1.768	18.9	20.5	35 E	25*	19*
3 2	0 51.73	+ 3 48.1	2.566	1.802	16.9	20.5	32 E	23*	16*
3 12	1 14.90	+ 6 29.6	2.652	1.837	14.8	20.6	28 E	20*	13*
3 22	1 37.82	+ 9 2.4	2.736	1.874	12.7	20.6	24 E	16*	11*
4 1	2 0.54	+11 25.5	2.815	1.912	10.6	20.6	21 E	13*	8*
4 11	2 23.08	+13 37.8	2.889	1.951	8.5	20.6	17 E	9*	6*
4 21	2 45.48	+15 38.9	2.958	1.990	6.4	20.6	13 E	5*	3*
5 1	3 7.75	+17 28.1	3.020	2.029	4.2	20.6	9 E	1*	—
5 11	3 29.86	+19 5.3	3.075	2.069	2.1	20.6	4 E	—	—
5 21	3 51.80	+20 30.2	3.121	2.109	0.2	20.4	0 W	—	—
5 31	4 13.53	+21 43.0	3.158	2.149	2.1	20.7	4 W	—	—
6 10	4 34.99	+22 43.8	3.186	2.188	4.1	20.9	9 W	—	2*
6 20	4 56.12	+23 32.9	3.203	2.228	6.1	21.0	13 W	2*	6*
6 30	5 16.86	+24 11.0	3.210	2.267	8.1	21.2	18 W	6*	9*
7 10	5 37.12	+24 38.6	3.205	2.305	10.0	21.3	23 W	11*	13*
7 20	5 56.82	+24 56.6	3.189	2.343	11.8	21.4	28 W	16*	16*
7 30	6 15.88	+25 5.9	3.161	2.381	13.6	21.5	33 W	22*	18*

118174 1991 RO_{24}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	21 55.88	−16 7.3	1.992	1.641	29.4	20.1	55 E	27*	41*
1 2	22 23.22	−14 11.3	2.075	1.658	27.8	20.1	52 E	28*	37*
1 12	22 49.95	−12 4.0	2.160	1.678	26.0	20.2	48 E	28*	33*
1 22	23 16.04	− 9 48.5	2.245	1.700	24.2	20.2	45 E	28*	30*
2 1	23 41.54	− 7 27.7	2.331	1.725	22.3	20.3	42 E	27*	26*
2 11	0 6.46	− 5 4.7	2.416	1.753	20.4	20.3	38 E	25*	23*
2 21	0 30.87	− 2 41.8	2.501	1.782	18.5	20.4	35 E	23*	21*
3 2	0 54.85	− 0 21.4	2.584	1.813	16.5	20.4	31 E	20*	18*
3 12	1 18.43	+ 1 54.5	2.664	1.845	14.6	20.5	28 E	17*	16*
3 22	1 41.68	+ 4 4.2	2.742	1.878	12.6	20.5	24 E	13*	14*
4 1	2 4.65	+ 6 6.3	2.815	1.912	10.6	20.5	21 E	10*	12*
4 11	2 27.35	+ 7 59.4	2.884	1.947	8.6	20.5	17 E	6*	9*
4 21	2 49.82	+ 9 42.6	2.947	1.983	6.8	20.5	13 E	2*	7*
5 1	3 12.05	+11 15.2	3.004	2.019	5.0	20.5	10 E	—	4*
5 11	3 34.04	+12 36.5	3.053	2.056	3.6	20.5	7 E	—	1*
5 21	3 55.77	+13 46.3	3.095	2.092	3.1	20.6	6 E	—	—
5 31	4 17.20	+14 44.3	3.128	2.129	3.8	20.7	8 W	—	—
6 10	4 38.28	+15 30.6	3.153	2.166	5.2	20.8	11 W	—	5*
6 20	4 58.97	+16 5.2	3.167	2.202	6.9	20.9	15 W	—	9*
6 30	5 19.21	+16 28.6	3.171	2.238	8.7	21.0	19 W	—	13*
7 10	5 38.91	+16 41.2	3.165	2.274	10.4	21.2	24 W	5*	17*
7 20	5 58.03	+16 43.7	3.148	2.309	12.2	21.2	29 W	10*	20*
7 30	6 16.47	+16 36.7	3.120	2.343	13.9	21.3	34 W	16*	24*
8 9	6 34.16	+16 21.3	3.080	2.378	15.5	21.4	39 W	22*	27*
8 19	6 51.02	+15 58.3	3.030	2.411	17.0	21.4	44 W	28*	29*
8 29	7 6.94	+15 28.9	2.968	2.444	18.4	21.5	50 W	34*	32*
9 8	7 21.82	+14 54.4	2.896	2.476	19.7	21.5	56 W	40*	35*
9 18	7 35.55	+14 16.1	2.813	2.508	20.8	21.5	62 W	45*	38*
9 28	7 47.98	+13 35.5	2.722	2.538	21.6	21.4	69 W	50*	41*
10 8	7 58.94	+12 54.3	2.623	2.568	22.2	21.4	76 W	54*	44*
10 18	8 8.25	+12 14.3	2.518	2.597	22.4	21.4	83 W	57*	47*
10 28	8 15.68	+11 37.6	2.409	2.625	22.2	21.3	91 W	57	50*
11 7	8 21.00	+11 6.4	2.299	2.653	21.6	21.2	100 W	56	52*
11 17	8 23.94	+10 43.1	2.190	2.679	20.4	21.1	109 W	56	53*
11 27	8 24.25	+10 30.2	2.088	2.705	18.7	20.9	119 W	56	53
12 7	8 21.81	+10 29.7	1.997	2.729	16.2	20.8	129 W	55	54
12 17	8 16.61	+10 43.1	1.922	2.753	13.2	20.6	140 W	56	53
12 27	8 8.91	+11 10.8	1.868	2.776	9.5	20.4	152 W	56	53
1 6	7 59.33	+11 51.2	1.840	2.798	5.7	20.2	164 W	57	52
1 16	7 48.78	+12 41.1	1.842	2.819	2.9	20.1	172 E	58	51

131596 2001 XK

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	21 55.90	− 0 42.2	3.203	2.857	17.5	20.4	61 E	42*	34*
1 2	22 8.47	− 0 26.5	3.297	2.831	16.3	20.4	54 E	40*	28*
1 12	22 21.78	− 0 0.1	3.379	2.803	14.9	20.4	47 E	36*	22*
1 22	22 35.73	+ 0 35.9	3.450	2.775	13.3	20.4	40 E	32*	16*
2 1	22 50.21	+ 1 20.5	3.507	2.746	11.6	20.3	34 E	27*	11*

131596 2001 *XK* *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 11	23 5.16	+ 2 12.4	3.550	2.716	9.7	20.3	28 E	21*	6*
2 21	23 20.51	+ 3 10.5	3.579	2.686	7.8	20.2	22 E	16*	2*
3 2	23 36.22	+ 4 13.7	3.594	2.654	5.9	20.1	16 E	10*	—
3 12	23 52.26	+ 5 20.8	3.593	2.622	3.9	19.9	10 E	4*	—
3 22	0 8.62	+ 6 30.6	3.578	2.589	2.3	19.8	6 E	—	—
4 1	0 25.28	+ 7 42.1	3.549	2.556	2.1	19.7	5 W	—	—
4 11	0 42.24	+ 8 54.1	3.506	2.522	3.6	19.8	9 W	1*	2*
4 21	0 59.52	+10 5.4	3.450	2.487	5.6	19.8	14 W	2*	7*
5 1	1 17.11	+11 14.9	3.382	2.451	7.7	19.8	19 W	4*	12*
5 11	1 35.03	+12 21.2	3.302	2.415	9.8	19.8	24 W	6*	17*
5 21	1 53.28	+13 23.2	3.212	2.379	12.0	19.8	29 W	8*	22*
5 31	2 11.88	+14 19.6	3.111	2.342	14.1	19.8	34 W	11*	26*
6 10	2 30.81	+15 8.9	3.002	2.305	16.1	19.8	39 W	14*	30*
6 20	2 50.08	+15 49.8	2.885	2.267	18.1	19.7	44 W	18*	34*
6 30	3 9.65	+16 20.7	2.762	2.230	20.1	19.7	49 W	22*	37*
7 10	3 29.48	+16 40.0	2.633	2.192	22.0	19.6	54 W	27*	39*
7 20	3 49.54	+16 46.1	2.500	2.154	23.8	19.5	59 W	33*	41*
7 30	4 9.72	+16 37.3	2.364	2.116	25.4	19.4	64 W	38*	43*
8 9	4 29.93	+16 11.9	2.226	2.079	27.0	19.2	68 W	43*	45*
8 19	4 50.05	+15 28.0	2.088	2.042	28.3	19.1	73 W	48*	46*
8 29	5 9.90	+14 24.1	1.950	2.005	29.5	18.9	78 W	51*	48*
9 8	5 29.32	+12 58.4	1.814	1.969	30.5	18.8	83 W	54*	50*
9 18	5 48.08	+11 9.6	1.682	1.934	31.3	18.6	88 W	55*	52*
9 28	6 5.90	+ 8 56.6	1.555	1.899	31.8	18.4	93 W	54*	55*
10 8	6 22.53	+ 6 18.8	1.434	1.866	32.0	18.2	99 W	51	58*
10 18	6 37.62	+ 3 16.5	1.320	1.835	31.8	18.0	104 W	48	61
10 28	6 50.77	− 0 8.5	1.215	1.805	31.3	17.7	109 W	45	64
11 7	7 1.61	− 3 52.5	1.121	1.777	30.5	17.5	114 W	41	68
11 12	7 6.02	− 5 49.8	1.078	1.764	30.0	17.4	117 W	39	70
11 17	7 9.68	− 7 49.1	1.038	1.751	29.4	17.3	120 W	37	72
11 22	7 12.53	− 9 49.1	1.001	1.739	28.8	17.2	122 W	35	74
11 27	7 14.55	−11 47.9	0.967	1.728	28.1	17.1	124 W	33	76
12 2	7 15.70	−13 43.8	0.937	1.717	27.5	17.0	127 W	31	78
12 7	7 15.98	−15 34.8	0.909	1.707	26.8	16.9	129 W	29	80
12 12	7 15.39	−17 18.6	0.886	1.698	26.2	16.8	130 W	28	81
12 17	7 13.96	−18 52.6	0.865	1.689	25.7	16.7	132 W	26	83
12 22	7 11.79	−20 14.5	0.848	1.681	25.3	16.6	133 W	25	84
12 27	7 9.02	−21 22.3	0.835	1.674	25.0	16.6	134 W	24	85
1 1	7 5.81	−22 14.2	0.824	1.668	24.9	16.5	134 W	23	86
1 6	7 2.34	−22 48.9	0.817	1.663	24.9	16.5	135 E	22	87
1 11	6 58.83	−23 5.5	0.813	1.658	25.1	16.5	134 E	22	87
1 16	6 55.51	−23 3.9	0.813	1.654	25.4	16.5	134 E	22	87

159609 2002 AQ_3

12 23	21 55.93	−42 13.1	1.450	1.136	42.6	19.8	51 E	2*	45*
12 28	22 20.16	−41 32.7	1.444	1.139	42.7	19.8	52 E	2*	46*
1 2	22 44.39	−40 33.0	1.439	1.145	42.9	19.8	52 E	3*	46*
1 7	23 8.41	−39 14.2	1.436	1.154	42.9	19.9	53 E	5*	47*
1 12	23 32.01	−37 36.8	1.433	1.165	43.0	19.9	54 E	6*	48*
1 17	23 55.03	−35 41.9	1.433	1.178	42.9	19.9	55 E	8*	49*
1 22	0 17.37	−33 31.0	1.436	1.194	42.7	19.9	55 E	10*	49*
1 27	0 38.94	−31 6.2	1.442	1.211	42.5	20.0	56 E	12*	50*
2 1	0 59.70	−28 29.8	1.452	1.230	42.1	20.0	57 E	14*	50*
2 6	1 19.65	−25 44.3	1.466	1.251	41.6	20.0	57 E	17*	51*
2 11	1 38.81	−22 52.4	1.485	1.274	41.0	20.1	58 E	19*	51*
2 16	1 57.20	−19 56.8	1.508	1.298	40.4	20.1	58 E	21*	50*
2 21	2 14.89	−16 59.9	1.536	1.323	39.6	20.2	59 E	23*	50*
2 26	2 31.92	−14 4.2	1.570	1.349	38.7	20.3	59 E	25*	49*
3 2	2 48.36	−11 11.7	1.608	1.377	37.8	20.3	58 E	27*	48*
3 7	3 4.26	− 8 24.3	1.650	1.405	36.8	20.4	58 E	28*	47*
3 12	3 19.65	− 5 43.4	1.697	1.433	35.8	20.5	57 E	29*	46*
3 17	3 34.60	− 3 9.9	1.748	1.463	34.7	20.6	57 E	30*	45*
3 22	3 49.16	− 0 44.7	1.803	1.492	33.6	20.7	56 E	30*	44*
3 27	4 3.36	+ 1 31.7	1.860	1.523	32.4	20.7	55 E	30*	42*
4 1	4 17.23	+ 3 39.1	1.921	1.553	31.2	20.8	54 E	30*	41*
4 6	4 30.81	+ 5 37.5	1.983	1.584	30.0	20.9	52 E	30*	39*
4 11	4 44.12	+ 7 26.9	2.048	1.614	28.8	21.0	51 E	29*	38*
4 16	4 57.17	+ 9 7.6	2.114	1.645	27.5	21.0	49 E	28*	36*
4 21	5 10.01	+10 39.8	2.181	1.676	26.3	21.1	48 E	27*	35*
4 26	5 22.63	+12 3.9	2.248	1.707	25.0	21.2	46 E	25*	33*
5 1	5 35.05	+13 20.3	2.316	1.738	23.7	21.2	44 E	24*	32*
5 6	5 47.29	+14 29.4	2.384	1.768	22.4	21.3	42 E	22*	30*
5 11	5 59.34	+15 31.5	2.451	1.799	21.2	21.4	40 E	20*	29*
5 16	6 11.21	+16 27.1	2.518	1.829	19.9	21.4	38 E	18*	27*
5 21	6 22.93	+17 16.6	2.583	1.859	18.6	21.5	36 E	16*	26*

250458 2004 BO_{41}

12 23	21 56.50	+16 38.0	1.412	1.415	40.7	21.0	70 E	59*	24*
12 28	22 7.75	+17 49.2	1.469	1.433	39.6	21.1	68 E	59*	22*
1 2	22 18.95	+18 59.3	1.523	1.449	38.5	21.2	67 E	58*	19*
1 7	22 30.13	+20 8.5	1.575	1.463	37.5	21.2	65 E	58*	17*

250458 2004 BO_{41} *(continuation)*

1 12	22 41.33	+21 17.0	1.626	1.476	36.6	21.3	63 E	57*	14*
1 17	22 52.58	+22 25.1	1.674	1.487	35.6	21.3	62 E	56*	12*
1 22	23 3.92	+23 32.9	1.720	1.497	34.8	21.4	60 E	54*	10*
1 27	23 15.36	+24 40.5	1.764	1.505	33.9	21.4	58 E	52*	8*
2 1	23 26.94	+25 48.0	1.805	1.511	33.1	21.5	57 E	51*	6*
2 6	23 38.67	+26 55.2	1.844	1.516	32.3	21.5	55 E	49*	5*

46433 2002 JQ_{67}

12 23	21 58.09	− 7 13.8	1.955	1.670	30.2	19.2	59 E	36*	38*
1 2	22 23.30	− 5 3.3	2.039	1.683	28.6	19.2	55 E	37*	33*
1 12	22 48.32	− 2 46.1	2.123	1.697	27.0	19.3	52 E	37*	29*
1 22	23 13.14	− 0 24.5	2.208	1.714	25.3	19.4	48 E	36*	25*
2 1	23 37.77	+ 1 59.5	2.292	1.734	23.5	19.4	45 E	34*	21*
2 11	0 2.21	+ 4 23.6	2.376	1.755	21.6	19.5	41 E	32*	18*
2 21	0 26.49	+ 6 45.6	2.459	1.778	19.7	19.5	37 E	29*	15*
3 2	0 50.65	+ 9 3.8	2.541	1.802	17.8	19.5	34 E	26*	13*
3 12	1 14.71	+11 16.4	2.619	1.828	15.8	19.6	30 E	23*	11*
3 22	1 38.70	+13 21.7	2.695	1.855	13.8	19.6	26 E	19*	9*
4 1	2 2.65	+15 18.5	2.767	1.884	11.7	19.6	23 E	16*	7*
4 11	2 26.56	+17 5.3	2.835	1.913	9.7	19.6	19 E	12*	5*
4 21	2 50.42	+18 41.4	2.897	1.943	7.6	19.6	15 E	8*	3*
5 1	3 14.22	+20 5.8	2.953	1.973	5.5	19.6	11 E	4*	—
5 11	3 37.91	+21 17.9	3.003	2.004	3.5	19.5	7 E	1*	—
5 21	4 1.45	+22 17.3	3.045	2.035	1.5	19.5	3 E	—	—
5 31	4 24.78	+23 3.8	3.079	2.066	1.0	19.5	2 W	—	—
6 10	4 47.82	+23 37.4	3.105	2.098	2.9	19.7	6 W	—	—
6 20	5 10.50	+23 58.3	3.122	2.129	4.8	19.8	10 W	1*	3*
6 30	5 32.72	+24 6.9	3.129	2.160	6.8	20.0	15 W	4*	6*
7 10	5 54.41	+24 3.8	3.126	2.191	8.8	20.1	19 W	8*	10*
7 20	6 15.49	+23 49.8	3.112	2.222	10.7	20.2	24 W	12*	13*
7 30	6 35.87	+23 25.6	3.088	2.252	12.5	20.3	29 W	17*	16*
8 9	6 55.47	+22 52.3	3.053	2.282	14.3	20.3	34 W	22*	19*
8 19	7 14.21	+22 11.0	3.007	2.311	16.0	20.4	39 W	28*	21*
8 29	7 32.02	+21 22.8	2.951	2.340	17.6	20.4	44 W	33*	24*
9 8	7 48.81	+20 29.1	2.884	2.368	19.1	20.4	50 W	39*	27*
9 18	8 4.50	+19 31.2	2.806	2.396	20.4	20.4	56 W	44*	29*
9 28	8 18.96	+18 30.5	2.720	2.423	21.5	20.4	62 W	50*	32*
10 8	8 32.08	+17 28.6	2.624	2.449	22.4	20.4	69 W	54*	35*
10 18	8 43.70	+16 27.1	2.521	2.474	23.0	20.4	76 W	58*	39*
10 28	8 53.63	+15 27.8	2.413	2.499	23.3	20.3	83 W	60*	42*
11 7	9 1.66	+14 32.6	2.301	2.523	23.1	20.2	91 W	60	46*
11 17	9 7.54	+13 43.4	2.187	2.546	22.5	20.1	100 W	59	49*
11 27	9 10.96	+13 2.4	2.076	2.568	21.3	20.0	109 W	58	51*
12 7	9 11.69	+12 31.5	1.971	2.590	19.5	19.8	118 W	58	51
12 17	9 9.51	+12 12.5	1.877	2.610	17.0	19.7	129 W	57	52
12 27	9 4.37	+12 6.3	1.798	2.630	13.8	19.5	140 W	57	52
1 6	8 56.53	+12 12.6	1.739	2.649	10.0	19.3	152 W	57	52
1 16	8 46.55	+12 30.0	1.706	2.666	5.7	19.0	164 W	57	52

31845 2000 DK_{17}

12 23	21 58.23	−13 28.5	2.057	1.721	28.4	20.2	56 E	30*	41*
1 2	22 23.17	−11 18.3	2.159	1.748	26.6	20.3	53 E	31*	36*
1 12	22 47.42	− 9 2.1	2.262	1.777	24.6	20.4	49 E	31*	31*
1 22	23 11.05	− 6 42.1	2.363	1.807	22.7	20.4	45 E	30*	27*
2 1	23 34.12	− 4 20.2	2.462	1.837	20.6	20.5	41 E	29*	23*
2 11	23 56.69	− 1 58.4	2.559	1.869	18.6	20.6	37 E	26*	20*
2 21	0 18.83	+ 0 21.7	2.652	1.900	16.4	20.6	33 E	23*	17*
3 2	0 40.63	+ 2 38.8	2.741	1.932	14.3	20.6	29 E	20*	14*
3 12	1 2.14	+ 4 51.3	2.824	1.964	12.2	20.7	25 E	16*	11*
3 22	1 23.40	+ 6 58.3	2.900	1.997	10.0	20.7	20 E	12*	9*
4 1	1 44.48	+ 8 58.8	2.970	2.029	7.9	20.7	16 E	8*	6*
4 11	2 5.39	+10 51.8	3.032	2.061	5.7	20.6	12 E	4*	3*
4 21	2 26.17	+12 36.6	3.085	2.093	3.6	20.6	7 E	—	—
5 1	2 46.83	+14 12.6	3.129	2.124	1.6	20.5	3 E	—	—
5 11	3 7.34	+15 39.3	3.163	2.155	1.2	20.5	3 W	—	—
5 21	3 27.71	+16 56.2	3.187	2.185	3.0	20.7	7 W	—	1*
5 31	3 47.91	+18 3.2	3.201	2.215	5.1	20.9	11 W	—	5*
6 10	4 7.89	+19 0.1	3.203	2.244	7.1	21.0	16 W	—	9*
6 20	4 27.60	+19 46.8	3.195	2.272	9.1	21.1	21 W	4*	13*
6 30	4 46.98	+20 23.6	3.175	2.300	11.0	21.2	26 W	8*	17*
7 10	5 5.95	+20 50.5	3.143	2.327	12.9	21.3	31 W	13*	21*
7 20	5 24.42	+21 8.2	3.100	2.353	14.6	21.3	36 W	19*	24*
7 30	5 42.31	+21 17.2	3.046	2.378	16.3	21.4	41 W	25*	26*
8 9	5 59.50	+21 18.1	2.980	2.402	17.9	21.4	47 W	31*	29*
8 19	6 15.88	+21 11.8	2.904	2.425	19.3	21.4	53 W	37*	31*
8 29	6 31.31	+20 59.3	2.818	2.448	20.6	21.4	59 W	44*	34*
9 8	6 45.65	+20 41.9	2.722	2.469	21.7	21.4	65 W	50*	36*
9 18	6 58.74	+20 20.8	2.619	2.490	22.5	21.3	72 W	55*	38*
9 28	7 10.35	+19 57.5	2.508	2.509	23.0	21.3	79 W	60*	40*
10 8	7 20.28	+19 33.9	2.392	2.528	23.2	21.2	86 W	63*	42*
10 18	7 28.25	+19 11.5	2.274	2.545	23.0	21.1	94 W	64	44*
10 28	7 33.96	+18 52.5	2.155	2.562	22.2	21.0	103 W	64	45*

31845 2000 DK_{17} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 7	7 37.09	+18 38.7	2.040	2.577	20.9	20.8	112 W	64	45
11 17	7 37.35	+18 31.8	1.931	2.591	18.9	20.7	122 W	64	45
11 27	7 34.49	+18 32.9	1.835	2.605	16.2	20.5	132 W	64	45
12 7	7 28.51	+18 42.3	1.755	2.617	12.8	20.3	144 W	64	45
12 17	7 19.66	+18 58.9	1.698	2.628	8.7	20.0	156 W	64	45
12 27	7 8.67	+19 20.6	1.667	2.639	4.2	19.8	169 W	64	45
1 1	7 2.71	+19 32.5	1.663	2.643	2.0	19.6	175 W	65	44
1 6	6 56.66	+19 44.5	1.666	2.648	1.4	19.6	176 E	65	44
1 11	6 50.68	+19 56.4	1.676	2.652	3.4	19.8	171 E	65	44
1 16	6 44.96	+20 8.0	1.695	2.656	5.7	19.9	165 E	65	44

85990 1999 JV_6

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 58.43	−22 37.2	0.376	0.820	104.4	21.5	54 E	21*	44*
12 28	22 31.79	−19 51.6	0.345	0.847	102.9	21.3	57 E	24*	46*
1 2	23 6.86	−16 21.2	0.321	0.875	100.2	21.1	61 E	28*	48*
1 7	23 43.30	−12 6.5	0.302	0.903	96.4	20.8	66 E	33*	49*
1 12	0 20.49	− 7 15.7	0.292	0.931	91.7	20.6	71 E	38*	51*
1 17	0 57.65	− 2 4.7	0.288	0.958	86.4	20.4	77 E	43*	51*
1 22	1 33.97	+ 3 5.7	0.293	0.986	81.1	20.3	82 E	48	51*
1 24	1 48.10	+ 5 5.1	0.297	0.997	79.0	20.3	84 E	50	50*
1 26	2 1.94	+ 7 0.2	0.301	1.007	77.0	20.3	86 E	52	50*
1 28	2 15.46	+ 8 50.1	0.307	1.018	75.1	20.3	87 E	54	49*
1 30	2 28.65	+10 34.3	0.314	1.029	73.2	20.3	89 E	56	48*
2 1	2 41.49	+12 12.3	0.322	1.039	71.5	20.3	90 E	57	47*
2 6	3 11.96	+15 49.3	0.345	1.064	67.6	20.4	94 E	61	45*
2 11	3 40.12	+18 47.1	0.372	1.089	64.4	20.5	96 E	64	43*
2 16	4 6.11	+21 9.5	0.403	1.112	61.8	20.7	97 E	66	42*
2 21	4 30.16	+23 1.5	0.436	1.134	59.7	20.8	98 E	68	40*
2 26	4 52.51	+24 28.0	0.472	1.155	58.0	21.0	98 E	69	39*
3 2	5 13.41	+25 33.5	0.510	1.175	56.6	21.1	98 E	71	38*
3 7	5 33.05	+26 21.5	0.549	1.194	55.5	21.3	97 E	71	38*
3 12	5 51.61	+26 55.0	0.590	1.211	54.6	21.5	97 E	72	37*

5999 Plescia

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 58.54	−33 16.5	3.438	2.939	15.3	20.4	52 E	11*	46*
1 2	22 12.12	−31 33.5	3.526	2.930	14.0	20.4	46 E	11*	39*
1 12	22 26.15	−29 49.0	3.603	2.920	12.5	20.4	40 E	10*	33*
1 22	22 40.51	−28 3.1	3.666	2.908	11.0	20.3	34 E	8*	28*
2 1	22 55.13	−26 16.2	3.716	2.896	9.5	20.3	29 E	5*	23*
2 11	23 9.91	−24 28.9	3.752	2.883	8.1	20.2	24 E	1*	18*
2 21	23 24.81	−22 41.6	3.773	2.868	7.0	20.2	21 E	—	14*
3 2	23 39.78	−20 54.8	3.780	2.853	6.1	20.1	18 E	—	10*
3 12	23 54.78	−19 9.1	3.772	2.837	5.9	20.1	17 E	—	7*
3 22	0 9.79	−17 25.0	3.750	2.819	6.3	20.1	18 E	—	3*
4 1	0 24.78	−15 43.2	3.713	2.801	7.2	20.1	21 W	—	7*
4 11	0 39.74	−14 4.3	3.664	2.782	8.5	20.1	24 W	—	12*
4 21	0 54.65	−12 28.8	3.601	2.761	10.1	20.1	29 W	—	18*
5 1	1 9.48	−10 57.5	3.525	2.740	11.7	20.1	33 W	—	24*
5 11	1 24.20	− 9 31.0	3.438	2.718	13.3	20.1	38 W	—	30*
5 21	1 38.79	− 8 9.8	3.341	2.695	14.9	20.1	43 W	—	36*
5 31	1 53.21	− 6 54.6	3.232	2.671	16.5	20.1	48 W	—	42*
6 10	2 7.39	− 5 46.0	3.115	2.645	18.0	20.0	54 W	3*	48*
6 20	2 21.28	− 4 44.5	2.990	2.619	19.5	20.0	59 W	8*	53*
6 30	2 34.79	− 3 50.7	2.857	2.592	20.8	19.9	65 W	14*	57*
7 10	2 47.80	− 3 5.0	2.718	2.565	21.9	19.8	71 W	20*	61*
7 20	3 0.19	− 2 28.0	2.574	2.536	22.9	19.7	76 W	26*	64*
7 30	3 11.76	− 1 59.8	2.427	2.506	23.7	19.5	83 W	32*	65*
8 9	3 22.32	− 1 40.7	2.277	2.476	24.2	19.4	89 W	37*	66*
8 19	3 31.59	− 1 30.5	2.126	2.445	24.3	19.2	96 W	41*	66
8 29	3 39.24	− 1 28.8	1.977	2.413	24.1	19.0	103 W	43*	65
9 8	3 44.90	− 1 34.6	1.832	2.380	23.4	18.8	110 W	43	66
9 18	3 48.11	− 1 46.3	1.693	2.347	22.1	18.6	119 W	43	66
9 28	3 48.41	− 2 1.1	1.563	2.313	20.1	18.3	127 W	43	66
10 8	3 45.37	− 2 14.7	1.446	2.278	17.5	18.0	137 W	43	66
10 13	3 42.50	− 2 19.3	1.393	2.260	16.0	17.9	141 W	43	66
10 18	3 38.72	− 2 21.5	1.345	2.243	14.3	17.7	146 W	43	66
10 23	3 34.06	− 2 20.0	1.303	2.225	12.6	17.6	151 W	43	66
10 28	3 28.58	− 2 14.1	1.266	2.207	10.9	17.4	155 W	43	66
11 2	3 22.39	− 2 2.8	1.235	2.189	9.5	17.3	159 W	43	66
11 7	3 15.63	− 1 45.3	1.211	2.171	8.6	17.2	161 W	43	66
11 17	3 1.18	− 0 49.8	1.182	2.135	9.6	17.1	159 E	44	65
11 27	2 47.01	+ 0 34.2	1.181	2.098	13.2	17.2	151 E	46	63
12 7	2 34.84	+ 2 23.8	1.204	2.062	17.7	17.4	140 E	47	62
12 12	2 29.92	+ 3 26.5	1.224	2.043	19.9	17.5	135 E	48	61
12 17	2 25.92	+ 4 33.4	1.249	2.025	21.9	17.6	130 E	50	59
12 22	2 22.93	+ 5 43.8	1.277	2.007	23.8	17.7	125 E	51	58
12 27	2 20.95	+ 6 57.0	1.309	1.989	25.5	17.7	120 E	52	57
1 1	2 19.98	+ 8 12.3	1.344	1.971	26.9	17.8	115 E	53	56

5999 Plescia *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 6	2 20.00	+ 9 29.3	1.381	1.953	28.2	17.9	110 E	54	54*
1 11	2 20.99	+10 47.5	1.419	1.935	29.3	18.0	106 E	56	53*
1 16	2 22.89	+12 6.7	1.459	1.917	30.2	18.0	102 E	57	51*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	21 59.05	+11 57.6	1.034	1.126	54.0	17.2	68 E	55*	28*
1 2	22 15.55	+18 34.3	1.041	1.100	54.6	17.2	66 E	58*	19*
1 12	22 34.84	+25 18.1	1.042	1.088	54.9	17.2	65 E	59*	11*
1 22	22 57.94	+32 8.5	1.036	1.090	55.1	17.2	65 E	59*	4*
1 27	23 11.46	+35 35.6	1.033	1.097	55.0	17.2	66 E	58*	1*
2 1	23 26.67	+39 2.9	1.028	1.107	54.8	17.2	67 E	58*	—
2 6	23 43.98	+42 28.6	1.025	1.120	54.5	17.2	68 E	58*	—
2 11	0 3.84	+45 50.2	1.022	1.136	54.1	17.2	69 E	58*	—
2 16	0 26.82	+49 4.0	1.021	1.156	53.5	17.2	70 E	58*	—
2 21	0 53.53	+52 4.8	1.022	1.178	52.8	17.2	72 E	58*	—
2 23	1 5.38	+53 12.0	1.023	1.187	52.5	17.3	72 E	59*	—
2 25	1 17.94	+54 15.6	1.025	1.197	52.2	17.3	73 E	59*	—
2 27	1 31.22	+55 15.0	1.027	1.208	51.8	17.3	74 E	59*	—
2 29	1 45.23	+56 9.6	1.030	1.218	51.5	17.3	74 E	60*	—
3 2	1 59.95	+56 58.8	1.034	1.229	51.1	17.3	75 E	60*	—
3 4	2 15.35	+57 42.1	1.038	1.240	50.6	17.3	75 E	61*	—
3 6	2 31.36	+58 19.0	1.043	1.252	50.2	17.3	76 E	62*	—
3 8	2 47.91	+58 48.9	1.049	1.264	49.8	17.4	76 E	62*	—
3 10	3 4.88	+59 11.5	1.056	1.276	49.3	17.4	77 E	63*	—
3 12	3 22.16	+59 26.4	1.063	1.288	48.9	17.4	77 E	64*	—
3 14	3 39.60	+59 33.5	1.072	1.301	48.4	17.4	78 E	64*	—
3 16	3 57.05	+59 32.7	1.081	1.313	47.9	17.5	78 E	65*	—
3 18	4 14.36	+59 24.3	1.091	1.326	47.4	17.5	79 E	66*	1*
3 20	4 31.39	+59 8.4	1.102	1.340	46.9	17.5	79 E	67*	2*
3 22	4 48.01	+58 45.4	1.114	1.353	46.4	17.6	80 E	68*	3*
3 24	5 4.13	+58 15.8	1.127	1.367	45.9	17.6	80 E	69*	4*
3 26	5 19.66	+57 40.3	1.141	1.380	45.4	17.6	80 E	70*	5*
3 28	5 34.53	+56 59.3	1.156	1.394	44.9	17.7	80 E	71*	6*
3 30	5 48.73	+56 13.5	1.172	1.408	44.4	17.7	80 E	71*	7*
4 1	6 2.23	+55 23.5	1.188	1.422	43.9	17.7	81 E	72*	8*
4 3	6 15.03	+54 30.0	1.206	1.437	43.4	17.8	81 E	73*	9*
4 5	6 27.16	+53 33.4	1.224	1.451	42.9	17.8	81 E	73*	10*
4 7	6 38.63	+52 34.4	1.244	1.466	42.4	17.9	81 E	74*	11*
4 9	6 49.47	+51 33.5	1.264	1.480	41.9	17.9	81 E	74*	12*
4 11	6 59.72	+50 30.9	1.285	1.495	41.4	17.9	81 E	74*	13*
4 13	7 9.42	+49 27.3	1.307	1.510	40.9	18.0	80 E	74*	14*
4 15	7 18.60	+48 22.8	1.330	1.524	40.4	18.0	80 E	74*	15*
4 17	7 27.31	+47 17.8	1.353	1.539	40.0	18.1	80 E	74*	17*
4 19	7 35.59	+46 12.6	1.378	1.554	39.5	18.1	80 E	74*	18*
4 21	7 43.45	+45 7.4	1.403	1.569	39.0	18.2	79 E	73*	19*
4 26	8 1.55	+42 25.6	1.468	1.607	37.9	18.3	79 E	71*	22*
5 1	8 17.75	+39 47.3	1.538	1.645	36.7	18.4	77 E	68*	24*
5 6	8 32.40	+37 13.8	1.610	1.683	35.6	18.5	76 E	65*	27*
5 11	8 45.79	+34 45.9	1.686	1.721	34.5	18.6	75 E	61*	29*
5 16	8 58.15	+32 24.0	1.765	1.759	33.3	18.8	73 E	58*	31*
5 21	9 9.66	+30 8.1	1.846	1.797	32.2	18.9	71 E	54*	33*
5 26	9 20.48	+27 58.1	1.928	1.835	31.1	19.0	69 E	50*	35*
5 31	9 30.71	+25 53.7	2.012	1.873	30.0	19.1	67 E	46*	37*
6 10	9 49.76	+22 0.5	2.182	1.948	27.7	19.3	63 E	39*	39*
6 20	10 7.36	+18 25.5	2.354	2.022	25.4	19.5	59 E	32*	41*
6 30	10 23.90	+15 6.0	2.524	2.095	23.1	19.6	54 E	25*	40*
7 10	10 39.62	+11 59.4	2.691	2.166	20.8	19.8	49 E	20*	39*
7 20	10 54.71	+ 9 3.8	2.853	2.237	18.4	19.9	44 E	15*	36*
7 30	11 9.30	+ 6 17.2	3.006	2.306	16.0	20.0	39 E	10*	32*
8 9	11 23.48	+ 3 38.3	3.151	2.373	13.7	20.1	34 E	7*	27*
8 19	11 37.32	+ 1 6.0	3.284	2.440	11.3	20.1	28 E	3*	22*
8 29	11 50.87	− 1 20.7	3.406	2.504	9.0	20.2	23 E	—	17*
9 8	12 4.16	− 3 42.4	3.513	2.568	6.6	20.2	17 E	—	11*
9 18	12 17.21	− 5 59.8	3.606	2.629	4.4	20.2	12 E	—	5*
9 28	12 30.03	− 8 13.3	3.682	2.690	2.5	20.2	7 E	—	—
10 8	12 42.60	−10 23.2	3.742	2.749	2.0	20.2	5 W	—	—
10 18	12 54.92	−12 29.9	3.784	2.806	3.4	20.4	10 W	—	3*
10 28	13 6.93	−14 33.5	3.808	2.862	5.3	20.5	15 W	3*	8*
11 7	13 18.59	−16 34.4	3.814	2.916	7.2	20.7	22 W	8*	14*
11 17	13 29.84	−18 32.7	3.802	2.969	9.1	20.8	28 W	12*	19*
11 27	13 40.58	−20 28.6	3.772	3.021	10.9	20.9	35 W	16*	26*
12 7	13 50.70	−22 22.4	3.726	3.071	12.5	20.9	42 W	18*	33*
12 17	14 0.08	−24 14.3	3.663	3.120	13.9	21.0	50 W	19*	41*
12 27	14 8.51	−26 4.4	3.587	3.167	15.2	21.0	57 W	18*	49*
1 6	14 15.83	−27 52.9	3.498	3.213	16.1	21.0	65 W	17*	58*
1 16	14 21.77	−29 39.8	3.400	3.258	16.8	21.0	73 W	15	67*