19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
354663 2005 LY_{19}									
12 23	20 9.44	−30 24.0	2.705	1.905	14.5	20.7	29 E	5*	23*
1 2	20 31.92	−27 55.6	2.741	1.888	12.3	20.6	24 E	5*	17*
1 12	20 53.86	−25 18.8	2.767	1.868	10.1	20.5	19 E	4*	13*
1 22	21 15.30	−22 33.6	2.783	1.847	7.7	20.4	15 E	2*	8*
2 1	21 36.31	−19 40.2	2.787	1.825	5.4	20.3	10 E	—	4*
2 11	21 56.95	−16 38.8	2.780	1.801	3.1	20.1	6 E	—	—
2 21	22 17.31	−13 29.4	2.762	1.775	1.5	20.0	3 E	—	—
3 2	22 37.50	−10 12.1	2.734	1.748	2.7	20.0	5 W	—	—
3 12	22 57.62	− 6 46.9	2.696	1.720	4.9	20.0	9 W	—	3*
3 22	23 17.80	− 3 13.8	2.649	1.691	7.4	20.1	13 W	—	6*
4 1	23 38.20	+ 0 27.3	2.594	1.660	9.8	20.1	16 W	2*	10*
4 11	23 59.00	+ 4 16.0	2.532	1.628	12.3	20.1	20 W	5*	13*
4 21	0 20.41	+ 8 12.4	2.464	1.596	14.7	20.1	24 W	8*	16*
5 1	0 42.69	+12 15.7	2.392	1.563	17.1	20.1	27 W	11*	19*
5 11	1 6.14	+16 24.8	2.317	1.530	19.3	20.0	30 W	14*	21*
5 21	1 31.17	+20 37.8	2.241	1.496	21.6	20.0	33 W	17*	22*
5 26	1 44.41	+22 45.0	2.204	1.479	22.6	19.9	34 W	19*	22*
5 31	1 58.22	+24 51.8	2.166	1.463	23.7	19.9	35 W	20*	22*
6 5	2 12.66	+26 57.6	2.130	1.446	24.7	19.9	36 W	22*	21*
6 10	2 27.82	+29 1.8	2.094	1.430	25.6	19.9	38 W	24*	21*
6 15	2 43.76	+31 3.3	2.060	1.413	26.5	19.8	38 W	26*	20*
6 20	3 0.58	+33 1.0	2.027	1.397	27.4	19.8	39 W	27*	19*
6 25	3 18.32	+34 53.8	1.995	1.382	28.3	19.8	40 W	29*	18*
6 30	3 37.04	+36 40.2	1.964	1.366	29.1	19.7	41 W	31*	17*
7 5	3 56.80	+38 18.5	1.936	1.352	29.8	19.7	41 W	32*	15*
7 10	4 17.60	+39 47.1	1.910	1.337	30.5	19.6	42 W	33*	14*
7 15	4 39.41	+41 4.2	1.885	1.323	31.1	19.6	42 W	35*	13*
7 20	5 2.17	+42 8.2	1.863	1.310	31.7	19.6	43 W	35*	11*
7 25	5 25.74	+42 57.3	1.842	1.297	32.2	19.6	43 W	36*	10*
7 30	5 49.94	+43 30.2	1.824	1.285	32.7	19.5	43 W	37*	9*
8 4	6 14.52	+43 45.8	1.807	1.274	33.1	19.5	43 W	37*	8*
8 9	6 39.23	+43 43.5	1.793	1.264	33.4	19.5	43 W	37*	7*
8 14	7 3.80	+43 23.4	1.780	1.255	33.7	19.4	43 W	37*	6*
8 19	7 27.95	+42 45.7	1.769	1.246	33.9	19.4	43 W	37*	5*
8 24	7 51.44	+41 51.4	1.759	1.239	34.2	19.4	43 W	37*	5*
8 29	8 14.10	+40 41.6	1.750	1.232	34.3	19.4	43 W	37*	4*
9 3	8 35.79	+39 17.8	1.743	1.227	34.5	19.4	44 W	37*	4*
9 8	8 56.45	+37 41.6	1.736	1.223	34.6	19.4	44 W	37*	4*
9 13	9 16.05	+35 54.5	1.730	1.220	34.7	19.4	44 W	37*	4*
9 18	9 34.62	+33 58.2	1.725	1.218	34.8	19.3	44 W	38*	5*
9 23	9 52.17	+31 54.1	1.719	1.218	35.0	19.3	44 W	38*	5*
9 28	10 8.77	+29 43.5	1.713	1.218	35.1	19.3	44 W	38*	6*
10 3	10 24.50	+27 27.5	1.707	1.220	35.3	19.3	45 W	39*	7*
10 8	10 39.43	+25 7.2	1.700	1.223	35.4	19.3	45 W	39*	9*
10 13	10 53.65	+22 43.3	1.693	1.227	35.6	19.3	46 W	40*	10*
10 18	11 7.21	+20 16.7	1.685	1.232	35.9	19.4	46 W	40*	11*
10 28	11 32.65	+15 17.5	1.665	1.246	36.4	19.4	48 W	41*	15*
11 7	11 56.25	+10 12.9	1.641	1.264	37.1	19.4	50 W	42*	20*
11 17	12 18.41	+ 5 5.3	1.611	1.285	37.8	19.4	53 W	42*	25*
11 27	12 39.42	− 0 4.0	1.576	1.310	38.6	19.4	56 W	40*	31*
12 7	12 59.52	− 5 14.4	1.536	1.337	39.3	19.4	59 W	38*	38*
12 17	13 18.87	−10 25.8	1.492	1.366	40.0	19.4	63 W	34*	45*
12 27	13 37.53	−15 38.3	1.444	1.397	40.5	19.4	67 W	29*	53*
1 6	13 55.54	−20 52.3	1.393	1.429	40.8	19.4	72 W	24	61*
1 16	14 12.80	−26 8.4	1.340	1.462	40.8	19.4	76 W	19	69*
220159 2002 TV_{247}									
12 23	20 9.79	−13 7.9	2.398	1.646	18.4	21.2	32 E	20*	16*
1 2	20 38.44	−11 53.4	2.449	1.656	16.6	21.2	29 E	19*	13*
1 12	21 6.61	−10 24.4	2.500	1.669	14.8	21.2	26 E	17*	9*
1 22	21 34.22	− 8 43.2	2.551	1.684	12.9	21.2	23 E	15*	6*
2 1	22 1.21	− 6 52.2	2.601	1.702	11.0	21.2	19 E	13*	4*
2 11	22 27.55	− 4 54.0	2.650	1.723	9.1	21.2	16 E	10*	1*
2 21	22 53.26	− 2 51.2	2.698	1.746	7.1	21.2	13 E	7*	—
3 2	23 18.36	− 0 46.0	2.743	1.771	5.1	21.2	9 E	3*	—
3 12	23 42.88	+ 1 19.3	2.784	1.798	3.2	21.1	6 E	—	—
3 22	0 6.88	+ 3 22.6	2.821	1.827	1.5	21.1	3 E	—	—
4 1	0 30.40	+ 5 22.3	2.854	1.857	1.6	21.1	3 W	—	—
4 11	0 53.48	+ 7 16.6	2.880	1.888	3.4	21.3	6 W	—	—
4 21	1 16.15	+ 9 4.3	2.901	1.920	5.3	21.5	10 W	—	4*
272354 2005 SH_{164}									
12 23	20 10.38	−23 59.6	2.483	1.694	16.5	20.5	29 E	11*	21*
1 2	20 39.05	−22 21.2	2.508	1.679	14.8	20.4	26 E	10*	17*
1 12	21 7.47	−20 24.4	2.532	1.667	13.1	20.4	23 E	9*	14*
1 22	21 35.52	−18 11.1	2.554	1.659	11.4	20.3	19 E	8*	11*
2 1	22 3.11	−15 43.5	2.575	1.653	9.7	20.3	16 E	6*	8*
2 11	22 30.20	−13 4.3	2.595	1.651	8.0	20.2	13 E	4*	5*
2 21	22 56.78	−10 16.4	2.614	1.652	6.3	20.2	10 E	2*	3*
3 2	23 22.90	− 7 22.5	2.633	1.656	4.6	20.1	8 E	—	1*
3 12	23 48.57	− 4 25.6	2.651	1.664	3.0	20.0	5 E	—	—

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
272354 2005 SH_{164} *(continuation)*									
3 22	0 13.88	− 1 28.3	2.669	1.674	1.7	20.0	3 E	—	—
4 1	0 38.89	+ 1 26.8	2.685	1.688	1.9	20.0	3 W	—	—
4 11	1 3.63	+ 4 17.2	2.699	1.704	3.2	20.1	5 W	—	—
4 21	1 28.18	+ 7 0.9	2.712	1.723	4.9	20.3	8 W	—	2*
5 1	1 52.58	+ 9 36.0	2.721	1.745	6.6	20.4	11 W	—	5*
5 11	2 16.83	+12 1.0	2.728	1.769	8.3	20.5	15 W	—	9*
5 21	2 40.96	+14 14.5	2.731	1.795	10.0	20.6	18 W	1*	12*
5 31	3 4.94	+16 15.5	2.729	1.822	11.7	20.7	21 W	3*	15*
6 10	3 28.74	+18 3.4	2.722	1.852	13.4	20.8	25 W	6*	18*
6 20	3 52.30	+19 37.7	2.709	1.882	15.0	20.9	29 W	10*	20*
6 30	4 15.55	+20 58.3	2.690	1.914	16.7	20.9	33 W	14*	22*
7 10	4 38.37	+22 5.5	2.664	1.947	18.2	21.0	37 W	19*	24*
7 20	5 0.68	+22 59.8	2.631	1.981	19.7	21.1	41 W	24*	26*
7 30	5 22.32	+23 42.0	2.590	2.015	21.1	21.1	46 W	30*	28*
8 9	5 43.17	+24 13.3	2.541	2.050	22.4	21.2	50 W	36*	29*
8 19	6 3.08	+24 35.0	2.484	2.085	23.6	21.2	56 W	42*	30*
8 29	6 21.88	+24 48.9	2.420	2.121	24.6	21.2	61 W	48*	32*
9 8	6 39.40	+24 56.8	2.348	2.156	25.4	21.2	67 W	54*	33*
9 18	6 55.46	+25 0.9	2.269	2.192	26.0	21.2	73 W	59*	34*
9 28	7 9.82	+25 3.5	2.184	2.227	26.2	21.1	79 W	65*	35*
10 8	7 22.24	+25 7.0	2.095	2.262	26.2	21.1	86 W	69*	36*
10 18	7 32.44	+25 14.1	2.002	2.297	25.6	21.0	94 W	70	38*
10 28	7 40.06	+25 27.2	1.909	2.331	24.6	20.9	102 W	70	38*
11 7	7 44.77	+25 48.3	1.819	2.366	23.0	20.8	111 W	71	38
11 17	7 46.21	+26 18.8	1.736	2.399	20.7	20.6	121 W	71	38
11 27	7 44.10	+26 58.2	1.663	2.432	17.7	20.5	132 W	72	37
12 7	7 38.40	+27 44.4	1.607	2.465	14.0	20.3	143 W	73	36
12 12	7 34.29	+28 8.6	1.586	2.481	11.9	20.2	149 W	73	36
12 17	7 29.42	+28 32.7	1.571	2.497	9.7	20.1	155 W	74	35
12 22	7 23.94	+28 55.7	1.563	2.512	7.4	20.0	161 W	74	35
12 27	7 18.00	+29 16.8	1.561	2.528	5.2	19.9	166 W	74	35
1 1	7 11.77	+29 35.5	1.567	2.543	3.4	19.8	171 W	75	34
1 6	7 5.46	+29 51.1	1.580	2.558	2.8	19.8	173 E	75	34
1 11	6 59.26	+30 3.3	1.600	2.573	4.0	19.9	169 E	75	34
1 16	6 53.36	+30 11.9	1.628	2.588	6.0	20.1	164 E	75	34
365071 2009 AV									
12 23	20 12.17	−18 32.1	1.815	1.090	27.3	20.8	31 E	16*	19*
1 2	20 47.86	−20 8.1	1.844	1.083	25.5	20.8	28 E	13*	18*
1 12	21 23.69	−21 13.6	1.863	1.073	23.9	20.7	26 E	11*	17*
1 22	21 59.80	−21 49.1	1.872	1.063	22.9	20.7	25 E	8*	17*
2 1	22 36.33	−21 54.7	1.869	1.052	22.6	20.6	24 E	6*	17*
2 11	23 13.38	−21 30.0	1.855	1.040	23.1	20.6	24 E	4*	18*
2 21	23 51.08	−20 34.0	1.832	1.027	24.2	20.6	25 E	3*	19*
3 2	0 29.51	−19 5.5	1.800	1.014	25.8	20.6	26 E	2*	20*
3 12	1 8.71	−17 3.3	1.764	1.002	27.8	20.6	28 E	1*	22*
3 22	1 48.65	−14 26.8	1.726	0.991	29.8	20.6	30 E	1*	23*
4 1	2 29.26	−11 17.1	1.691	0.980	31.7	20.5	31 E	1*	25*
4 11	3 10.37	− 7 37.7	1.661	0.971	33.2	20.5	32 E	2*	26*
4 21	3 51.80	− 3 35.2	1.641	0.963	34.3	20.5	33 E	3*	27*
5 1	4 33.34	+ 0 40.8	1.632	0.958	34.8	20.5	33 E	4*	27*
5 11	5 14.77	+ 4 58.9	1.635	0.955	34.8	20.5	33 E	5*	26*
5 21	5 55.95	+ 9 7.5	1.649	0.954	34.1	20.5	32 E	6*	25*
5 26	6 16.41	+11 4.9	1.658	0.954	33.7	20.5	31 E	6*	25*
5 31	6 36.78	+12 56.3	1.670	0.955	33.1	20.5	31 E	7*	24*
6 5	6 57.05	+14 40.8	1.683	0.957	32.5	20.5	30 E	8*	23*
6 10	7 17.23	+16 17.6	1.696	0.959	31.8	20.5	30 E	8*	22*
6 15	7 37.31	+17 46.3	1.709	0.962	31.1	20.5	29 E	9*	21*
6 20	7 57.30	+19 6.4	1.723	0.965	30.4	20.5	29 E	9*	20*
6 25	8 17.23	+20 17.5	1.736	0.969	29.8	20.5	28 E	10*	19*
6 30	8 37.08	+21 19.5	1.747	0.973	29.3	20.5	28 E	11*	19*
7 5	8 56.87	+22 12.2	1.758	0.978	28.8	20.5	28 E	12*	18*
7 10	9 16.60	+22 55.5	1.766	0.982	28.5	20.6	27 E	13*	17*
7 15	9 36.30	+23 29.5	1.773	0.988	28.2	20.6	27 E	14*	16*
7 20	9 55.97	+23 53.9	1.779	0.993	28.1	20.6	27 E	15*	16*
7 25	10 15.62	+24 8.9	1.782	0.999	28.1	20.6	28 E	16*	15*
7 30	10 35.25	+24 14.4	1.783	1.005	28.2	20.6	28 E	17*	15*
8 4	10 54.85	+24 10.5	1.782	1.011	28.4	20.6	28 E	18*	14*
8 9	11 14.45	+23 57.2	1.780	1.018	28.8	20.7	29 E	19*	14*
8 14	11 34.03	+23 34.5	1.775	1.024	29.2	20.7	30 E	20*	14*
8 19	11 53.61	+23 2.5	1.770	1.030	29.6	20.7	30 E	21*	14*
8 24	12 13.18	+22 21.3	1.763	1.036	30.1	20.7	31 E	22*	14*
8 29	12 32.72	+21 31.1	1.755	1.043	30.7	20.7	32 E	23*	14*
9 3	12 52.24	+20 32.1	1.747	1.049	31.2	20.7	33 E	24*	14*
9 8	13 11.74	+19 24.5	1.739	1.054	31.7	20.8	33 E	25*	14*
9 13	13 31.21	+18 8.9	1.731	1.060	32.2	20.8	34 E	26*	14*
9 18	13 50.64	+16 45.5	1.723	1.066	32.6	20.8	35 E	27*	15*
9 23	14 10.03	+15 15.2	1.716	1.071	32.9	20.8	35 E	28*	15*
9 28	14 29.36	+13 38.6	1.711	1.076	33.2	20.8	36 E	28*	15*
10 3	14 48.63	+11 56.5	1.707	1.080	33.4	20.8	36 E	28*	16*
10 8	15 7.83	+10 9.9	1.705	1.085	33.5	20.8	37 E	29*	16*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
365071 2009 *AV* *(continuation)*									
	h m	° ′			°	m	°	°	°
10 13	15 26.96	+ 8 19.8	1.705	1.089	33.5	20.8	37 E	29*	16*
10 18	15 46.01	+ 6 27.2	1.707	1.092	33.4	20.8	37 E	29*	17*
10 23	16 4.98	+ 4 33.5	1.712	1.095	33.1	20.9	37 E	28*	17*
10 28	16 23.86	+ 2 39.6	1.719	1.098	32.8	20.9	37 E	28*	17*
11 2	16 42.64	+ 0 46.8	1.728	1.101	32.4	20.9	36 E	27*	17*
11 7	17 1.31	− 1 4.0	1.739	1.102	31.8	20.9	36 E	27*	16*
11 12	17 19.89	− 2 51.8	1.753	1.104	31.2	20.9	35 E	26*	16*
11 17	17 38.37	− 4 35.6	1.768	1.105	30.4	20.9	34 E	25*	16*
11 22	17 56.75	− 6 14.7	1.784	1.106	29.6	20.9	34 E	24*	15*
11 27	18 15.02	− 7 48.5	1.802	1.106	28.7	20.9	33 E	23*	15*
12 2	18 33.19	− 9 16.6	1.820	1.106	27.7	20.9	31 E	22*	14*
12 7	18 51.27	−10 38.5	1.839	1.105	26.7	20.8	30 E	21*	13*
12 12	19 9.27	−11 54.0	1.858	1.104	25.6	20.8	29 E	19*	13*
12 17	19 27.19	−13 3.0	1.876	1.102	24.4	20.8	28 E	18*	12*
12 22	19 45.05	−14 5.2	1.893	1.100	23.3	20.8	26 E	17*	12*
12 27	20 2.84	−15 0.8	1.909	1.098	22.1	20.8	25 E	15*	11*
1 1	20 20.59	−15 49.7	1.924	1.095	21.0	20.7	23 E	14*	11*
1 6	20 38.31	−16 32.0	1.937	1.092	19.9	20.7	22 E	12*	10*
1 11	20 56.03	−17 7.7	1.948	1.088	18.8	20.7	21 E	11*	10*
1 16	21 13.75	−17 37.0	1.957	1.084	17.9	20.7	20 E	9*	10*
5392 Parker									
12 23	20 12.54	−36 41.1	3.806	3.005	9.7	18.6	31 E	—	25*
1 2	20 29.90	−35 44.9	3.877	3.022	8.1	18.6	26 E	—	20*
1 12	20 47.13	−34 45.8	3.934	3.038	6.7	18.6	21 E	—	15*
1 22	21 4.16	−33 44.1	3.975	3.053	5.7	18.6	18 E	—	10*
2 1	21 20.93	−32 40.7	3.999	3.067	5.2	18.6	16 E	—	6*
2 11	21 37.37	−31 36.2	4.008	3.080	5.5	18.6	17 E	—	3*
2 21	21 53.44	−30 31.4	4.001	3.092	6.3	18.6	20 W	—	7*
3 2	22 9.12	−29 27.3	3.978	3.102	7.6	18.7	24 W	—	13*
3 12	22 24.35	−28 24.9	3.939	3.112	9.0	18.7	29 W	—	18*
3 22	22 39.12	−27 25.1	3.886	3.121	10.5	18.8	35 W	—	24*
4 1	22 53.37	−26 29.1	3.818	3.129	12.0	18.8	41 W	—	30*
4 11	23 7.07	−25 37.9	3.738	3.136	13.4	18.8	47 W	—	37*
4 21	23 20.17	−24 52.6	3.646	3.142	14.8	18.8	53 W	—	43*
5 1	23 32.61	−24 14.6	3.542	3.146	16.0	18.8	59 W	—	50*
5 11	23 44.29	−23 45.1	3.430	3.150	17.0	18.8	66 W	—	57*
5 21	23 55.14	−23 25.3	3.310	3.153	17.8	18.7	72 W	1*	65*
5 31	0 5.02	−23 16.7	3.184	3.154	18.4	18.7	79 W	4*	72*
6 10	0 13.79	−23 20.4	3.054	3.155	18.7	18.6	86 W	7*	80*
6 20	0 21.26	−23 37.4	2.923	3.155	18.8	18.5	94 W	11*	87*
6 30	0 27.20	−24 8.8	2.793	3.153	18.4	18.4	101 W	14*	88
7 10	0 31.39	−24 54.7	2.668	3.151	17.7	18.2	109 W	17*	89
7 20	0 33.53	−25 54.5	2.550	3.148	16.7	18.1	117 W	18*	90
7 30	0 33.38	−27 6.4	2.443	3.143	15.2	18.0	125 W	18	89
8 9	0 30.72	−28 26.6	2.352	3.138	13.5	17.8	134 W	17	88
8 14	0 28.41	−29 8.2	2.313	3.135	12.6	17.8	137 W	16	87
8 19	0 25.47	−29 49.6	2.279	3.131	11.7	17.7	141 W	15	86
8 24	0 21.90	−30 29.8	2.251	3.128	10.9	17.6	144 W	15	86
8 29	0 17.76	−31 7.7	2.229	3.124	10.2	17.6	147 W	14	85
9 3	0 13.13	−31 42.2	2.212	3.120	9.6	17.5	149 W	13	84
9 8	0 8.07	−32 12.4	2.203	3.115	9.3	17.5	150 W	13	84
9 13	0 2.70	−32 37.3	2.199	3.111	9.4	17.5	150 W	12	83
9 18	23 57.14	−32 56.1	2.203	3.106	9.7	17.5	149 W	12	83
9 23	23 51.53	−33 8.1	2.212	3.101	10.2	17.5	147 E	12	83
9 28	23 46.00	−33 13.1	2.228	3.095	11.0	17.6	144 E	12	83
10 3	23 40.68	−33 10.9	2.250	3.090	11.9	17.6	141 E	12	83
10 8	23 35.70	−33 1.7	2.278	3.084	12.8	17.7	137 E	12	83
10 13	23 31.16	−32 45.7	2.312	3.077	13.8	17.8	133 E	12	83
10 18	23 27.13	−32 23.4	2.350	3.071	14.7	17.8	129 E	13	84
10 23	23 23.70	−31 55.3	2.392	3.064	15.6	17.9	124 E	13	84
10 28	23 20.89	−31 22.0	2.439	3.057	16.4	17.9	120 E	14	85
11 7	23 17.24	−30 2.4	2.542	3.043	17.7	18.1	111 E	15	86
11 17	23 16.15	−28 29.0	2.655	3.027	18.6	18.2	103 E	17	88
11 27	23 17.47	−26 45.7	2.773	3.010	19.1	18.3	94 E	18	88*
12 7	23 20.93	−24 55.6	2.893	2.993	19.2	18.4	86 E	20	78*
12 17	23 26.24	−23 0.5	3.013	2.974	18.9	18.4	78 E	22	69*
12 27	23 33.14	−21 2.1	3.128	2.954	18.3	18.5	71 E	24	60*
1 6	23 41.35	−19 1.4	3.237	2.933	17.5	18.5	64 E	26*	52*
1 16	23 50.68	−16 59.1	3.337	2.912	16.4	18.5	56 E	26*	44*
413563 2005 TG_{45}									
12 23	20 13.18	− 5 14.2	0.653	0.600	103.5	19.4	36 E	28*	14*
12 25	20 15.21	− 6 20.4	0.633	0.583	108.0	19.5	34 E	26*	13*
12 27	20 16.55	− 7 38.9	0.613	0.566	113.0	19.7	32 E	24*	12*
12 29	20 17.09	− 9 11.0	0.594	0.550	118.5	19.9	29 E	21*	11*
12 31	20 16.69	−10 58.0	0.577	0.533	124.7	20.3	26 E	18*	9*
1 2	20 15.22	−13 0.2	0.561	0.518	131.5	20.8	23 E	15*	8*
1 4	20 12.57	−15 17.1	0.548	0.502	138.8	21.5	20 E	11*	7*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
101873 1999 NC_5									
	h m	° ′			°	m	°	°	°
12 23	20 14.04	−24 27.9	2.719	1.931	14.8	20.8	30 E	11*	22*
1 2	20 35.75	−24 55.3	2.726	1.881	12.7	20.7	25 E	8*	17*
1 12	20 58.60	−25 10.0	2.719	1.830	10.8	20.6	20 E	4*	14*
1 22	21 22.59	−25 11.8	2.698	1.779	9.2	20.4	17 E	1*	11*
2 1	21 47.74	−25 0.8	2.664	1.727	8.2	20.3	14 E	—	8*
2 11	22 14.04	−24 36.5	2.618	1.676	8.0	20.2	14 E	—	7*
2 21	22 41.56	−23 58.6	2.562	1.624	8.8	20.1	15 E	—	6*
3 2	23 10.34	−23 6.2	2.499	1.574	10.3	20.0	16 E	—	5*
3 12	23 40.41	−21 58.8	2.430	1.524	12.2	20.0	19 E	—	5*
3 22	0 11.82	−20 35.3	2.360	1.476	14.2	19.9	21 E	—	5*
4 1	0 44.56	−18 55.1	2.291	1.430	16.1	19.8	23 E	—	5*
4 11	1 18.55	−16 57.9	2.226	1.387	18.0	19.8	25 W	—	5*
4 21	1 53.66	−14 44.0	2.170	1.348	19.5	19.7	27 W	—	6*
5 1	2 29.67	−12 15.4	2.124	1.313	20.6	19.6	27 W	—	7*
5 11	3 6.25	− 9 35.2	2.092	1.284	21.3	19.6	27 W	—	7*
5 21	3 43.09	− 6 47.8	2.074	1.260	21.4	19.5	27 W	—	8*
5 26	4 1.48	− 5 23.1	2.071	1.251	21.3	19.5	27 W	—	8*
5 31	4 19.80	− 3 58.8	2.072	1.243	21.0	19.5	26 W	—	8*
6 5	4 38.00	− 2 35.6	2.075	1.238	20.6	19.5	25 W	—	8*
6 10	4 56.04	− 1 14.0	2.082	1.234	20.0	19.4	25 W	—	9*
6 20	5 31.54	+ 1 21.6	2.104	1.232	18.6	19.4	23 W	—	9*
6 30	6 6.11	+ 3 43.9	2.134	1.238	16.9	19.4	21 W	—	9*
7 10	6 39.63	+ 5 50.3	2.169	1.251	15.2	19.4	19 W	—	10*
7 20	7 12.07	+ 7 39.7	2.206	1.271	13.6	19.4	17 W	—	10*
7 30	7 43.42	+ 9 12.1	2.242	1.297	12.5	19.5	16 W	—	10*
8 9	8 13.74	+10 28.4	2.273	1.329	12.2	19.5	16 W	—	10*
8 19	8 43.10	+11 30.1	2.299	1.367	12.7	19.6	17 W	5*	10*
8 29	9 11.57	+12 19.2	2.318	1.408	13.9	19.8	20 W	10*	10*
9 8	9 39.22	+12 58.2	2.328	1.452	15.6	19.9	23 W	14*	10*
9 18	10 6.14	+13 29.5	2.329	1.499	17.4	20.0	27 W	19*	10*
9 28	10 32.38	+13 55.9	2.322	1.548	19.3	20.2	31 W	24*	10*
10 8	10 58.01	+14 20.2	2.305	1.598	21.2	20.3	35 W	29*	11*
10 18	11 23.07	+14 45.4	2.280	1.649	22.9	20.4	40 W	34*	11*
10 28	11 47.59	+15 14.4	2.248	1.701	24.5	20.5	45 W	39*	12*
11 7	12 11.57	+15 50.4	2.209	1.752	25.8	20.5	50 W	44*	14*
11 17	12 35.00	+16 36.3	2.164	1.804	27.0	20.6	56 W	49*	15*
11 27	12 57.81	+17 35.4	2.114	1.855	27.8	20.6	61 W	54*	17*
12 7	13 19.94	+18 50.3	2.062	1.905	28.4	20.6	67 W	58*	20*
12 17	13 41.25	+20 23.6	2.008	1.954	28.7	20.6	73 W	63*	23*
12 27	14 1.56	+22 17.6	1.955	2.003	28.7	20.6	78 W	66*	25*
1 6	14 20.66	+24 33.3	1.905	2.051	28.5	20.6	84 W	69*	28*
1 16	14 38.26	+27 11.2	1.858	2.097	28.0	20.6	90 W	72	29*
217145 2002 ML_2									
12 23	20 14.24	−17 24.9	2.422	1.663	17.9	21.0	31 E	17*	19*
1 2	20 42.08	−15 33.1	2.463	1.662	16.2	20.9	28 E	17*	15*
1 12	21 9.52	−13 26.8	2.502	1.663	14.5	20.9	25 E	15*	11*
1 22	21 36.50	−11 8.2	2.541	1.668	12.7	20.9	22 E	14*	8*
2 1	22 2.98	− 8 39.7	2.578	1.675	10.9	20.9	19 E	12*	5*
2 11	22 28.96	− 6 3.8	2.615	1.685	9.1	20.8	16 E	9*	2*
2 21	22 54.47	− 3 22.9	2.650	1.698	7.2	20.8	13 E	6*	—
3 2	23 19.54	− 0 39.7	2.684	1.714	5.5	20.8	9 E	3*	—
3 12	23 44.23	+ 2 3.7	2.715	1.732	3.8	20.7	7 E	—	—
3 22	0 8.59	+ 4 44.9	2.744	1.752	2.4	20.7	4 E	—	—
4 1	0 32.68	+ 7 21.9	2.770	1.774	2.1	20.7	4 W	—	—
4 11	0 56.55	+ 9 53.0	2.792	1.797	3.2	20.8	6 W	—	—
4 21	1 20.23	+12 16.6	2.810	1.823	4.8	21.0	9 W	—	2*
5 1	1 43.76	+14 31.1	2.823	1.850	6.5	21.1	12 W	2*	5*
5 11	2 7.13	+16 35.5	2.831	1.878	8.3	21.2	16 W	3*	8*
5 21	2 30.35	+18 28.8	2.833	1.907	10.1	21.3	19 W	5*	12*
5 31	2 53.39	+20 10.3	2.828	1.937	11.9	21.4	23 W	8*	15*
22601 1998 HD_{124}									
12 23	20 14.66	−23 43.4	2.439	1.665	17.3	17.3	30 E	12*	21*
1 2	20 44.34	−22 24.6	2.485	1.670	15.5	17.2	27 E	11*	18*
1 12	21 13.43	−20 47.3	2.529	1.679	13.8	17.2	24 E	10*	15*
1 22	21 41.81	−18 54.0	2.573	1.690	12.0	17.2	21 E	8*	12*
2 1	22 9.42	−16 47.7	2.615	1.703	10.2	17.2	18 E	6*	10*
2 11	22 36.21	−14 31.4	2.656	1.720	8.4	17.2	15 E	4*	7*
2 21	23 2.21	−12 8.1	2.695	1.739	6.7	17.2	12 E	1*	5*
3 2	23 27.47	− 9 40.5	2.731	1.759	5.1	17.1	9 E	—	3*
3 12	23 52.03	− 7 11.3	2.765	1.782	3.8	17.1	7 E	—	1*
3 22	0 15.98	− 4 42.9	2.795	1.807	3.3	17.1	6 E	—	—
4 1	0 39.37	− 2 17.2	2.822	1.833	3.7	17.2	7 W	—	—
4 11	1 2.25	+ 0 3.8	2.843	1.861	4.9	17.3	9 W	—	1*
4 21	1 24.69	+ 2 18.6	2.860	1.890	6.5	17.5	12 W	—	5*
5 1	1 46.72	+ 4 25.9	2.871	1.920	8.2	17.6	16 W	—	9*
5 11	2 8.35	+ 6 24.6	2.875	1.951	9.9	17.7	19 W	—	13*
5 21	2 29.62	+ 8 13.8	2.872	1.982	11.6	17.8	23 W	—	17*
5 31	2 50.49	+ 9 53.0	2.862	2.015	13.3	17.9	27 W	1*	21*
6 10	3 10.94	+11 21.6	2.844	2.047	15.0	18.0	31 W	4*	25*

22601 1998 HD_{124} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
6 20	3 30.94	+12 39.4	2.818	2.080	16.6	18.0	36 W	9*	29*
6 30	3 50.42	+13 46.5	2.782	2.113	18.2	18.1	40 W	14*	32*
7 10	4 9.28	+14 42.8	2.739	2.146	19.6	18.1	45 W	19*	35*
7 20	4 27.45	+15 28.8	2.686	2.179	21.0	18.2	50 W	25*	37*
7 30	4 44.80	+16 5.1	2.624	2.212	22.2	18.2	55 W	32*	39*
8 9	5 1.17	+16 32.3	2.554	2.244	23.3	18.2	61 W	38*	41*
8 19	5 16.43	+16 51.4	2.476	2.277	24.1	18.2	67 W	44*	42*
8 29	5 30.36	+17 3.6	2.391	2.308	24.7	18.2	73 W	51*	44*
9 8	5 42.74	+17 10.2	2.299	2.340	25.1	18.1	80 W	56*	45*
9 18	5 53.33	+17 12.8	2.203	2.371	25.0	18.0	87 W	60*	46*
9 28	6 1.82	+17 13.0	2.104	2.401	24.6	18.0	95 W	62*	47*
10 8	6 7.91	+17 12.7	2.004	2.431	23.6	17.9	103 W	62	47
10 18	6 11.25	+17 13.7	1.908	2.460	22.1	17.7	112 W	62	47
10 28	6 11.53	+17 17.9	1.818	2.489	19.8	17.6	122 W	62	47
11 7	6 8.59	+17 26.4	1.740	2.517	16.9	17.4	132 W	62	47
11 17	6 2.41	+17 39.9	1.678	2.544	13.3	17.2	144 W	63	46
11 27	5 53.39	+17 58.2	1.638	2.571	9.0	17.0	156 W	63	46
12 7	5 42.34	+18 20.0	1.624	2.596	4.5	16.8	168 W	63	46
12 12	5 36.41	+18 31.9	1.628	2.609	2.4	16.7	174 W	64	45
12 17	5 30.43	+18 44.1	1.639	2.621	1.9	16.7	175 E	64	45
12 22	5 24.59	+18 56.7	1.658	2.633	3.6	16.8	170 E	64	45
12 27	5 19.05	+19 9.5	1.685	2.645	5.7	17.0	164 E	64	45
1 1	5 13.95	+19 22.5	1.718	2.657	7.9	17.2	158 E	64	45
1 6	5 9.41	+19 35.7	1.758	2.668	9.9	17.3	152 E	65	44
1 11	5 5.52	+19 49.2	1.805	2.680	11.7	17.4	146 E	65	44
1 16	5 2.35	+20 3.0	1.857	2.691	13.4	17.6	141 E	65	44

312958 1997 QP_2

12 23	20 14.87	−24 4.6	2.417	1.643	17.5	21.1	30 E	11*	22*
1 2	20 39.87	−21 1.6	2.456	1.633	15.4	21.1	26 E	12*	17*
1 12	21 4.14	−17 48.5	2.490	1.624	13.3	21.0	22 E	11*	12*
1 22	21 27.78	−14 26.3	2.518	1.615	11.2	20.9	19 E	10*	7*
2 1	21 50.92	−10 55.9	2.539	1.607	9.1	20.9	15 E	8*	3*
2 11	22 13.68	− 7 18.4	2.553	1.600	7.2	20.8	12 E	6*	—
2 21	22 36.21	− 3 34.8	2.561	1.593	5.7	20.7	9 E	3*	—
3 2	22 58.66	+ 0 13.9	2.564	1.587	4.8	20.7	8 E	—	—
3 12	23 21.18	+ 4 6.5	2.561	1.582	4.8	20.6	8 W	1*	—
3 22	23 43.96	+ 8 1.6	2.553	1.578	5.8	20.7	9 W	3*	—
4 1	0 7.16	+11 57.6	2.541	1.574	7.2	20.7	11 W	5*	—
4 11	0 30.99	+15 52.5	2.526	1.572	8.8	20.8	14 W	8*	1*
4 21	0 55.66	+19 44.2	2.508	1.570	10.4	20.8	16 W	10*	3*
5 1	1 21.38	+23 29.8	2.488	1.570	12.0	20.9	19 W	12*	5*
5 11	1 48.36	+27 6.3	2.467	1.571	13.6	20.9	21 W	14*	6*
5 21	2 16.82	+30 30.0	2.445	1.572	15.0	21.0	24 W	16*	7*
5 31	2 46.90	+33 37.0	2.422	1.575	16.4	21.0	26 W	18*	8*
6 10	3 18.67	+36 22.9	2.399	1.578	17.7	21.0	28 W	20*	8*
6 20	3 52.12	+38 43.5	2.376	1.583	18.9	21.0	30 W	23*	8*
6 30	4 27.03	+40 34.9	2.352	1.588	20.0	21.1	32 W	25*	7*
7 10	5 3.00	+41 53.9	2.328	1.594	21.1	21.1	34 W	28*	7*
7 20	5 39.50	+42 38.6	2.302	1.601	22.1	21.1	36 W	30*	6*
7 30	6 15.84	+42 49.0	2.274	1.609	23.1	21.1	39 W	32*	6*
8 9	6 51.36	+42 26.5	2.243	1.617	24.2	21.1	41 W	35*	6*
8 19	7 25.50	+41 33.9	2.209	1.626	25.2	21.1	43 W	37*	6*
8 29	7 57.80	+40 15.1	2.170	1.635	26.3	21.1	46 W	40*	7*
9 8	8 28.03	+38 34.6	2.127	1.645	27.4	21.1	49 W	43*	8*
9 18	8 56.09	+36 36.7	2.078	1.656	28.5	21.1	52 W	46*	9*
9 28	9 21.97	+34 25.4	2.022	1.666	29.6	21.1	55 W	49*	11*
10 8	9 45.74	+32 4.4	1.960	1.677	30.6	21.1	59 W	53*	13*
10 18	10 7.49	+29 36.5	1.890	1.688	31.7	21.1	63 W	57*	16*
10 28	10 27.27	+27 4.4	1.814	1.699	32.7	21.0	67 W	60*	20*
11 7	10 45.10	+24 29.7	1.730	1.710	33.5	21.0	72 W	63*	24*
11 17	11 0.97	+21 54.0	1.641	1.721	34.1	20.9	77 W	65*	29*
11 27	11 14.73	+19 18.3	1.545	1.731	34.5	20.8	83 W	64*	34*
12 7	11 26.19	+16 42.8	1.446	1.742	34.4	20.6	89 W	62	40*
12 17	11 35.02	+14 7.6	1.343	1.752	33.9	20.5	96 W	59	46*
12 27	11 40.72	+11 32.3	1.240	1.763	32.7	20.3	104 W	57	51*
1 6	11 42.71	+ 8 55.8	1.140	1.772	30.7	20.0	113 W	54	55
1 16	11 40.23	+ 6 17.4	1.046	1.782	27.7	19.8	123 W	51	58

96562 1998 SZ_{138}

12 23	20 14.90	−16 22.2	2.308	1.561	19.4	19.6	32 E	18*	19*
1 2	20 44.85	−14 38.5	2.372	1.587	17.5	19.6	29 E	18*	15*
1 12	21 13.77	−12 41.1	2.437	1.615	15.6	19.6	26 E	17*	12*
1 22	21 41.62	−10 33.1	2.503	1.644	13.6	19.7	23 E	15*	9*
2 1	22 8.46	− 8 17.3	2.567	1.676	11.6	19.7	20 E	13*	6*
2 11	22 34.33	− 5 56.6	2.631	1.710	9.6	19.7	17 E	10*	3*
2 21	22 59.31	− 3 33.4	2.691	1.744	7.5	19.7	13 E	7*	1*
3 2	23 23.49	− 1 10.0	2.748	1.780	5.5	19.7	10 E	4*	—
3 12	23 46.96	+ 1 11.8	2.801	1.816	3.5	19.7	6 E	—	—
3 22	0 9.81	+ 3 30.3	2.848	1.853	1.6	19.6	3 E	—	—
4 1	0 32.11	+ 5 44.1	2.888	1.891	1.5	19.7	3 W	—	—

96562 1998 SZ_{138} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	0 53.91	+ 7 52.0	2.921	1.928	3.2	19.9	6 W	—	—
4 21	1 15.29	+ 9 53.1	2.947	1.966	5.2	20.0	10 W	—	4*
5 1	1 36.27	+11 46.4	2.964	2.003	7.1	20.2	14 W	1*	8*
5 11	1 56.86	+13 31.3	2.971	2.040	9.1	20.3	19 W	3*	12*
5 21	2 17.09	+15 7.3	2.969	2.076	11.0	20.4	23 W	5*	16*
5 31	2 36.93	+16 33.8	2.957	2.112	12.9	20.5	28 W	8*	20*
6 10	2 56.34	+17 50.7	2.934	2.148	14.7	20.6	32 W	11*	24*
6 20	3 15.29	+18 57.8	2.901	2.183	16.4	20.7	37 W	16*	27*
6 30	3 33.69	+19 54.9	2.858	2.217	18.0	20.7	42 W	21*	30*
7 10	3 51.45	+20 42.3	2.804	2.250	19.5	20.8	48 W	26*	33*
7 20	4 8.46	+21 20.2	2.740	2.283	20.9	20.8	53 W	32*	35*
7 30	4 24.58	+21 48.8	2.666	2.314	22.1	20.8	59 W	39*	37*
8 9	4 39.64	+22 8.8	2.583	2.345	23.1	20.8	65 W	46*	38*
8 19	4 53.46	+22 20.7	2.492	2.375	23.8	20.8	72 W	52*	39*
8 29	5 5.79	+22 25.2	2.394	2.403	24.3	20.7	78 W	58*	40*
9 8	5 16.38	+22 23.2	2.291	2.431	24.4	20.7	86 W	64*	41*
9 18	5 24.94	+22 15.5	2.184	2.458	24.1	20.6	93 W	67*	42*
9 28	5 31.11	+22 3.0	2.077	2.483	23.3	20.5	102 W	67	42
10 8	5 34.56	+21 46.3	1.973	2.508	21.9	20.3	111 W	67	42
10 18	5 34.98	+21 26.1	1.874	2.531	19.8	20.2	121 W	66	43
10 28	5 32.13	+21 2.6	1.787	2.553	17.0	20.0	131 W	66	43
11 7	5 26.02	+20 35.9	1.716	2.574	13.5	19.8	143 W	66	43
11 17	5 16.98	+20 5.9	1.666	2.595	9.4	19.6	155 W	65	44
11 22	5 11.59	+19 49.8	1.650	2.604	7.1	19.5	161 W	65	44
11 27	5 5.80	+19 33.2	1.642	2.613	4.8	19.4	167 W	65	44
12 2	4 59.77	+19 16.4	1.641	2.622	2.5	19.2	173 W	64	45
12 7	4 53.66	+18 59.5	1.647	2.631	1.4	19.2	176 E	64	45
12 12	4 47.65	+18 43.1	1.661	2.640	3.0	19.3	172 E	64	45
12 17	4 41.90	+18 27.5	1.683	2.648	5.2	19.5	166 E	63	46
12 22	4 36.58	+18 13.1	1.712	2.656	7.4	19.6	160 E	63	46
12 27	4 31.80	+18 0.4	1.747	2.663	9.5	19.8	153 E	63	46
1 1	4 27.66	+17 49.6	1.790	2.671	11.5	19.9	147 E	63	46
1 6	4 24.22	+17 40.9	1.838	2.678	13.2	20.0	141 E	63	46
1 11	4 21.53	+17 34.6	1.891	2.684	14.8	20.2	136 E	63	46
1 16	4 19.60	+17 30.6	1.949	2.691	16.2	20.3	130 E	63	46

377021 2002 RW_{98}

12 23	20 15.71	−25 48.6	2.586	1.806	15.9	20.7	30 E	10*	22*
1 2	20 42.16	−23 45.1	2.600	1.774	14.3	20.6	26 E	10*	18*
1 12	21 8.55	−21 24.8	2.610	1.745	12.6	20.5	23 E	9*	14*
1 22	21 34.79	−18 48.9	2.617	1.719	10.9	20.4	19 E	7*	11*
2 1	22 0.83	−15 58.8	2.622	1.696	9.1	20.4	16 E	6*	7*
2 11	22 26.62	−12 56.6	2.626	1.676	7.4	20.3	13 E	4*	4*
2 21	22 52.18	− 9 44.4	2.628	1.661	5.6	20.2	9 E	1*	2*
3 2	23 17.55	− 6 24.7	2.630	1.649	3.8	20.0	6 E	—	—
3 12	23 42.77	− 3 0.3	2.632	1.641	2.1	19.9	3 E	—	—
3 22	0 7.92	+ 0 26.2	2.634	1.638	0.4	19.8	1 E	—	—
4 1	0 33.08	+ 3 51.9	2.636	1.639	1.4	19.9	2 W	—	—
4 11	0 58.30	+ 7 14.1	2.639	1.644	3.1	20.0	5 W	—	—
4 21	1 23.66	+10 30.1	2.642	1.653	4.8	20.1	8 W	—	2*
5 1	1 49.23	+13 37.3	2.645	1.666	6.5	20.2	11 W	—	4*
5 11	2 15.01	+16 33.4	2.648	1.684	8.2	20.3	14 W	2*	7*
5 21	2 41.03	+19 16.3	2.649	1.704	9.8	20.4	17 W	4*	9*
5 31	3 7.27	+21 44.4	2.649	1.729	11.4	20.5	20 W	7*	11*
6 10	3 33.65	+23 56.2	2.647	1.756	13.0	20.6	23 W	10*	13*
6 20	4 0.10	+25 50.9	2.641	1.786	14.5	20.7	26 W	13*	15*
6 30	4 26.49	+27 28.1	2.632	1.819	16.0	20.8	30 W	17*	16*
7 10	4 52.64	+28 47.7	2.619	1.854	17.5	20.8	33 W	21*	17*
7 20	5 18.41	+29 50.5	2.600	1.891	18.9	20.9	37 W	26*	18*
7 30	5 43.58	+30 37.5	2.576	1.930	20.2	21.0	41 W	31*	19*
8 9	6 7.96	+31 10.2	2.545	1.970	21.5	21.0	45 W	36*	20*
8 19	6 31.37	+31 30.6	2.507	2.011	22.7	21.1	50 W	41*	21*
8 29	6 53.61	+31 40.9	2.462	2.053	23.7	21.1	55 W	46*	22*
9 8	7 14.51	+31 43.8	2.410	2.096	24.6	21.2	60 W	52*	23*
9 18	7 33.90	+31 41.8	2.351	2.140	25.3	21.2	66 W	58*	24*
9 28	7 51.59	+31 37.9	2.285	2.184	25.8	21.2	71 W	63*	25*
10 8	8 7.40	+31 35.0	2.213	2.228	26.0	21.1	78 W	69*	27*
10 18	8 21.10	+31 36.0	2.136	2.272	25.9	21.1	85 W	74*	28*
10 28	8 32.42	+31 43.9	2.055	2.317	25.4	21.1	92 W	77*	29*
11 7	8 41.08	+32 0.8	1.974	2.361	24.4	21.0	100 W	77	31*
11 17	8 46.71	+32 28.6	1.895	2.405	22.9	20.9	109 W	77	31*
11 27	8 48.96	+33 7.7	1.822	2.449	20.8	20.8	118 W	78	31
12 7	8 47.56	+33 56.3	1.759	2.492	18.1	20.6	128 W	79	30
12 17	8 42.38	+34 50.4	1.711	2.535	14.8	20.5	139 W	80	29
12 27	8 33.68	+35 42.9	1.683	2.577	11.2	20.4	149 W	81	28
1 1	8 28.23	+36 6.0	1.678	2.599	9.5	20.3	154 W	81	28
1 6	8 22.23	+36 25.5	1.679	2.619	7.8	20.3	159 W	81	28
1 11	8 15.85	+36 40.7	1.687	2.640	6.6	20.2	162 W	82	27
1 16	8 9.29	+36 50.7	1.703	2.661	6.0	20.3	164 W	82	27

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
137208 1999 MC_2									
12 23	20 15.73	−21 52.3	2.379	1.613	18.1	20.1	31 E	13*	21*
1 2	20 45.88	−20 32.1	2.421	1.617	16.4	20.0	28 E	13*	18*
1 12	21 15.49	−18 53.0	2.463	1.623	14.7	20.0	25 E	12*	15*
1 22	21 44.43	−16 57.6	2.506	1.633	12.9	20.0	22 E	10*	12*
2 1	22 12.63	−14 49.1	2.547	1.646	11.1	20.0	19 E	8*	9*
2 11	22 40.06	−12 30.5	2.588	1.661	9.3	20.0	16 E	6*	7*
2 21	23 6.74	−10 5.0	2.628	1.679	7.6	20.0	13 E	4*	5*
3 2	23 32.70	− 7 35.4	2.667	1.700	5.9	19.9	10 E	1*	3*
3 12	23 58.00	− 5 4.6	2.703	1.723	4.3	19.9	7 E	—	1*
3 22	0 22.72	− 2 35.1	2.738	1.748	3.0	19.9	5 E	—	—
4 1	0 46.91	− 0 8.9	2.768	1.775	2.7	19.9	5 E	—	—
4 11	1 10.63	+ 2 11.8	2.795	1.803	3.6	20.1	6 W	—	—
4 21	1 33.94	+ 4 25.6	2.818	1.833	5.0	20.2	9 W	—	2*
5 1	1 56.87	+ 6 31.0	2.835	1.864	6.7	20.3	12 W	—	6*
5 11	2 19.43	+ 8 26.8	2.846	1.895	8.4	20.4	16 W	—	10*
5 21	2 41.65	+10 12.4	2.851	1.928	10.2	20.6	20 W	—	14*
5 31	3 3.51	+11 46.9	2.849	1.961	11.9	20.7	23 W	—	17*
6 10	3 24.96	+13 10.0	2.839	1.995	13.6	20.8	28 W	3*	21*
6 20	3 45.99	+14 21.4	2.821	2.029	15.3	20.8	32 W	7*	25*
6 30	4 6.51	+15 21.2	2.795	2.063	16.9	20.9	36 W	12*	28*
7 10	4 26.44	+16 9.6	2.760	2.098	18.4	21.0	41 W	17*	31*
7 20	4 45.71	+16 47.0	2.716	2.132	19.9	21.0	46 W	23*	33*
7 30	5 4.19	+17 14.0	2.663	2.166	21.2	21.0	51 W	29*	35*
8 9	5 21.74	+17 31.4	2.600	2.199	22.4	21.1	56 W	35*	37*
8 19	5 38.25	+17 40.3	2.530	2.233	23.5	21.1	62 W	41*	39*
8 29	5 53.52	+17 41.8	2.451	2.266	24.3	21.1	68 W	48*	41*
9 8	6 7.38	+17 37.4	2.365	2.298	24.9	21.0	74 W	53*	43*
9 18	6 19.60	+17 28.6	2.273	2.330	25.2	21.0	81 W	58*	44*
9 28	6 29.93	+17 17.2	2.176	2.361	25.1	20.9	88 W	61*	46*
10 8	6 38.08	+17 5.3	2.076	2.392	24.6	20.8	96 W	62	47*
10 18	6 43.74	+16 54.8	1.977	2.422	23.5	20.7	104 W	62	47
10 28	6 46.57	+16 47.9	1.881	2.451	21.8	20.6	113 W	62	47
11 7	6 46.32	+16 46.4	1.793	2.480	19.5	20.4	123 W	62	47
11 17	6 42.79	+16 51.8	1.716	2.508	16.4	20.3	134 W	62	47
11 27	6 36.07	+17 4.7	1.657	2.535	12.7	20.1	146 W	62	47
12 7	6 26.63	+17 24.6	1.621	2.561	8.3	19.9	158 W	62	47
12 12	6 21.14	+17 36.6	1.613	2.574	6.0	19.8	164 W	63	46
12 17	6 15.33	+17 49.7	1.611	2.586	3.8	19.7	170 W	63	46
12 22	6 9.37	+18 3.7	1.618	2.598	2.2	19.6	174 W	63	46
12 27	6 3.43	+18 18.3	1.631	2.610	2.6	19.6	173 E	63	46
1 1	5 57.69	+18 33.2	1.653	2.622	4.5	19.8	168 E	64	45
1 6	5 52.30	+18 48.3	1.681	2.634	6.6	19.9	162 E	64	45
1 11	5 47.40	+19 3.5	1.717	2.645	8.7	20.1	156 E	64	45
1 16	5 43.10	+19 18.7	1.759	2.657	10.7	20.2	150 E	64	45
252793 2002 FW_5									
12 23	20 15.90	+43 20.7	0.741	1.050	63.9	20.9	73 E	61*	—
12 28	20 12.99	+44 14.4	0.766	1.043	63.7	21.0	72 E	57*	—
1 2	20 10.38	+45 9.6	0.786	1.037	63.5	21.0	71 E	53*	—
1 7	20 7.94	+46 6.5	0.800	1.033	63.4	21.0	70 E	49*	—
1 12	20 5.58	+47 5.6	0.809	1.030	63.3	21.1	69 E	45*	—
1 17	20 3.23	+48 7.3	0.813	1.029	63.3	21.1	69 E	41*	—
1 22	20 0.81	+49 12.5	0.811	1.029	63.4	21.1	69 W	41*	—
1 27	19 58.24	+50 22.2	0.803	1.031	63.5	21.0	70 W	44*	—
2 1	19 55.39	+51 37.5	0.791	1.034	63.7	21.0	70 W	47*	—
2 6	19 52.11	+52 59.6	0.773	1.038	64.0	21.0	71 W	50*	—
2 11	19 48.20	+54 30.2	0.750	1.045	64.3	20.9	73 W	53*	—
2 16	19 43.40	+56 11.1	0.722	1.052	64.6	20.9	74 W	56*	—
2 21	19 37.25	+58 5.1	0.691	1.061	64.8	20.8	76 W	58*	—
2 26	19 29.03	+60 14.9	0.655	1.071	64.9	20.7	78 W	60*	—
3 2	19 17.47	+62 43.3	0.617	1.082	64.8	20.6	81 W	62*	—
3 7	19 0.38	+65 31.9	0.577	1.094	64.4	20.5	84 W	64*	—
3 12	18 33.60	+68 39.1	0.536	1.107	63.8	20.3	87 W	64*	—
3 13	18 26.47	+69 18.0	0.528	1.109	63.6	20.3	88 W	64*	—
3 14	18 18.55	+69 57.1	0.519	1.112	63.4	20.3	89 W	64*	—
3 15	18 9.74	+70 36.0	0.511	1.115	63.1	20.2	90 W	64*	—
3 16	17 59.92	+71 14.5	0.503	1.118	62.9	20.2	90 W	63*	—
3 17	17 48.96	+71 52.1	0.495	1.120	62.6	20.1	91 W	63*	—
3 18	17 36.74	+72 28.4	0.487	1.123	62.3	20.1	92 W	62*	—
3 19	17 23.10	+73 2.6	0.479	1.126	62.0	20.1	93 W	62*	—
3 20	17 7.94	+73 34.0	0.471	1.129	61.7	20.0	94 W	61	—
3 21	16 51.17	+74 1.8	0.463	1.132	61.3	20.0	95 W	61	—
3 22	16 32.74	+74 24.8	0.456	1.135	60.9	19.9	95 W	61	—
3 23	16 12.71	+74 42.0	0.448	1.138	60.5	19.9	96 W	60	—
3 24	15 51.24	+74 52.0	0.441	1.141	60.1	19.9	97 W	60	—
3 25	15 28.61	+74 53.8	0.434	1.144	59.6	19.8	98 W	60	—
3 26	15 5.25	+74 46.1	0.428	1.147	59.2	19.8	99 W	60	—
3 27	14 41.66	+74 28.3	0.421	1.150	58.7	19.7	100 W	61	—
3 28	14 18.37	+73 59.8	0.415	1.153	58.1	19.7	101 W	61	—
3 29	13 55.88	+73 20.4	0.409	1.156	57.6	19.7	102 W	62	—
3 30	13 34.61	+72 30.3	0.403	1.159	57.0	19.6	103 W	62	—

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
252793 2002 FW_5 *(continuation)*									
3 31	13 14.81	+71 29.9	0.398	1.162	56.5	19.6	104 W	64	—
4 1	12 56.65	+70 19.9	0.393	1.165	55.9	19.5	105 W	65	—
4 2	12 40.17	+69 0.9	0.389	1.168	55.3	19.5	106 E	66	—
4 3	12 25.31	+67 33.7	0.385	1.172	54.7	19.5	107 E	67	—
4 4	12 12.00	+65 59.3	0.381	1.175	54.1	19.4	108 E	69	—
4 5	12 0.09	+64 18.2	0.378	1.178	53.5	19.4	109 E	71	—
4 6	11 49.47	+62 31.4	0.375	1.181	52.9	19.4	110 E	72	1
4 7	11 39.99	+60 39.5	0.373	1.184	52.3	19.4	111 E	74	3
4 8	11 31.53	+58 43.3	0.371	1.188	51.8	19.3	111 E	76	5
4 9	11 23.97	+56 43.4	0.370	1.191	51.2	19.3	112 E	78	7
4 10	11 17.21	+54 40.5	0.369	1.194	50.7	19.3	113 E	80	9
4 11	11 11.14	+52 35.2	0.369	1.197	50.2	19.3	113 E	82	11
4 12	11 5.71	+50 28.3	0.370	1.201	49.8	19.3	114 E	85	14
4 13	11 0.82	+48 20.2	0.371	1.204	49.4	19.3	114 E	87	16
4 14	10 56.43	+46 11.6	0.373	1.207	49.0	19.3	115 E	89	18
4 15	10 52.47	+44 3.1	0.375	1.211	48.7	19.3	115 E	89	20
4 16	10 48.90	+41 55.0	0.378	1.214	48.4	19.3	115 E	87	22
4 17	10 45.68	+39 48.0	0.381	1.217	48.2	19.3	115 E	85	24
4 18	10 42.78	+37 42.3	0.385	1.220	48.0	19.4	115 E	83	26
4 19	10 40.16	+35 38.5	0.390	1.224	47.8	19.4	116 E	81	28
4 20	10 37.80	+33 36.9	0.395	1.227	47.7	19.4	115 E	79	30
4 21	10 35.67	+31 37.6	0.400	1.230	47.6	19.5	115 E	77	32
4 23	10 32.02	+27 47.4	0.413	1.237	47.5	19.5	115 E	73	36
4 25	10 29.08	+24 9.3	0.427	1.244	47.5	19.6	114 E	69	40
4 27	10 26.74	+20 44.0	0.443	1.251	47.6	19.7	113 E	66	43
4 29	10 24.90	+17 31.7	0.460	1.257	47.7	19.8	113 E	63	46
5 1	10 23.50	+14 32.3	0.479	1.264	47.9	19.9	111 E	60	49
5 6	10 21.53	+ 7 56.3	0.530	1.281	48.3	20.2	109 E	53*	56
5 11	10 21.24	+ 2 26.2	0.586	1.297	48.6	20.4	106 E	46*	62
5 16	10 22.23	− 2 10.6	0.647	1.314	48.7	20.7	103 E	40*	66
5 21	10 24.24	− 6 5.6	0.709	1.330	48.6	20.9	100 E	35*	70
5 26	10 27.07	− 9 28.0	0.773	1.346	48.4	21.1	97 E	29*	73
5 31	10 30.60	−12 25.2	0.837	1.362	48.0	21.3	94 E	25*	76
6 5	10 34.72	−15 2.8	0.902	1.377	47.4	21.5	92 E	20*	79*
101554 1999 AL_4									
12 23	20 16.32	−17 30.9	2.716	1.951	15.4	20.5	32 E	17*	20*
1 2	20 37.38	−15 19.6	2.734	1.912	13.6	20.4	27 E	16*	14*
1 12	20 58.76	−12 56.8	2.742	1.875	11.7	20.3	23 E	14*	9*
1 22	21 20.42	−10 22.3	2.742	1.838	9.9	20.2	19 E	12*	4*
2 1	21 42.38	− 7 36.2	2.735	1.802	8.2	20.0	15 E	9*	—
2 11	22 4.63	− 4 39.1	2.721	1.768	6.7	19.9	12 E	6*	—
2 21	22 27.24	− 1 31.7	2.701	1.736	5.6	19.8	10 E	3*	—
3 2	22 50.28	+ 1 44.9	2.677	1.705	5.2	19.7	9 W	1*	—
3 12	23 13.83	+ 5 9.0	2.650	1.677	5.5	19.7	9 W	3*	—
3 22	23 38.01	+ 8 38.8	2.621	1.651	6.4	19.7	11 W	5*	—
4 1	0 2.97	+12 11.7	2.591	1.629	7.5	19.7	12 W	6*	—
4 11	0 28.85	+15 44.7	2.561	1.609	8.8	19.7	14 W	8*	2*
4 21	0 55.80	+19 14.2	2.533	1.593	10.1	19.7	16 W	9*	4*
5 1	1 23.96	+22 36.4	2.507	1.580	11.4	19.7	18 W	11*	5*
5 6	1 38.53	+24 13.2	2.494	1.575	12.0	19.7	19 W	11*	6*
5 11	1 53.44	+25 46.4	2.483	1.571	12.6	19.7	20 W	12*	6*
5 16	2 8.70	+27 15.4	2.472	1.568	13.2	19.7	21 W	13*	7*
5 21	2 24.31	+28 39.7	2.462	1.566	13.8	19.7	22 W	14*	7*
5 26	2 40.25	+29 58.7	2.453	1.565	14.3	19.7	22 W	14*	7*
5 31	2 56.52	+31 11.6	2.445	1.565	14.8	19.7	23 W	15*	8*
6 5	3 13.07	+32 18.2	2.437	1.566	15.3	19.8	24 W	16*	8*
6 10	3 29.89	+33 17.7	2.429	1.569	15.8	19.8	25 W	17*	8*
6 15	3 46.94	+34 10.0	2.423	1.572	16.3	19.8	26 W	18*	8*
6 20	4 4.16	+34 54.5	2.416	1.576	16.8	19.8	27 W	18*	8*
6 25	4 21.49	+35 31.2	2.410	1.581	17.3	19.8	28 W	19*	9*
6 30	4 38.87	+35 59.8	2.404	1.587	17.8	19.8	28 W	20*	9*
7 5	4 56.23	+36 20.2	2.399	1.593	18.3	19.9	29 W	22*	9*
7 10	5 13.50	+36 32.5	2.393	1.601	18.7	19.9	30 W	23*	9*
7 15	5 30.62	+36 36.9	2.387	1.610	19.2	19.9	31 W	24*	9*
7 20	5 47.52	+36 33.7	2.381	1.619	19.7	19.9	33 W	25*	9*
7 30	6 20.40	+36 5.3	2.367	1.641	20.7	20.0	35 W	28*	10*
8 9	6 51.72	+35 10.8	2.350	1.665	21.8	20.0	38 W	31*	11*
8 19	7 21.23	+33 53.9	2.328	1.692	22.9	20.1	41 W	34*	12*
8 29	7 48.72	+32 18.8	2.302	1.722	24.0	20.1	44 W	37*	14*
9 8	8 14.14	+30 29.5	2.269	1.753	25.0	20.2	47 W	41*	16*
9 18	8 37.50	+28 29.6	2.230	1.787	26.1	20.2	51 W	45*	18*
9 28	8 58.80	+26 22.4	2.184	1.822	27.1	20.2	56 W	49*	20*
10 8	9 18.07	+24 10.7	2.129	1.858	28.0	20.2	61 W	53*	23*
10 18	9 35.33	+21 56.9	2.068	1.895	28.7	20.2	66 W	56*	27*
10 28	9 50.51	+19 43.3	1.999	1.933	29.2	20.2	72 W	60*	31*
11 7	10 3.54	+17 31.6	1.923	1.972	29.4	20.2	78 W	61*	35*
11 17	10 14.26	+15 23.4	1.842	2.011	29.3	20.1	85 W	60*	40*
11 27	10 22.44	+13 20.5	1.758	2.051	28.7	20.0	92 W	58	46*

101554 1999 AL_4 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 7	10 27.80	+11 24.2	1.672	2.091	27.6	19.9	101 W	56	51*
12 17	10 30.01	+ 9 36.1	1.588	2.130	25.8	19.8	110 W	55	54*
12 27	10 28.72	+ 7 58.1	1.510	2.170	23.2	19.7	119 W	53	56
1 6	10 23.77	+ 6 31.8	1.443	2.209	19.9	19.5	130 W	52	57
1 16	10 15.21	+ 5 19.3	1.391	2.248	15.7	19.3	142 W	50	59

39565 1992 SL

12 23	20 16.62	−22 37.4	1.830	1.106	27.1	21.1	31 E	13*	21*
12 28	20 36.71	−21 4.9	1.826	1.100	27.1	21.1	31 E	14*	21*
1 2	20 56.57	−19 22.9	1.825	1.096	27.0	21.1	30 E	15*	20*
1 7	21 16.17	−17 32.3	1.824	1.094	27.0	21.1	30 E	16*	19*
1 12	21 35.48	−15 34.3	1.826	1.094	26.9	21.1	30 E	17*	18*
1 17	21 54.48	−13 29.8	1.829	1.095	26.8	21.1	30 E	18*	17*
1 22	22 13.19	−11 20.0	1.835	1.099	26.6	21.1	30 E	19*	16*
1 27	22 31.61	− 9 6.1	1.843	1.105	26.4	21.1	30 E	20*	15*
2 1	22 49.75	− 6 49.3	1.853	1.113	26.2	21.2	30 E	20*	14*
2 6	23 7.64	− 4 30.9	1.865	1.123	25.9	21.2	30 E	21*	14*
2 11	23 25.28	− 2 11.9	1.880	1.134	25.6	21.2	30 E	21*	13*
2 16	23 42.72	+ 0 6.5	1.897	1.148	25.2	21.2	30 E	22*	12*
2 21	23 59.98	+ 2 23.4	1.916	1.162	24.8	21.3	29 E	22*	12*
2 26	0 17.08	+ 4 37.8	1.938	1.178	24.3	21.3	29 E	22*	11*
3 2	0 34.06	+ 6 48.8	1.961	1.196	23.7	21.4	29 E	22*	10*
3 7	0 50.92	+ 8 55.8	1.986	1.214	23.1	21.4	29 E	22*	10*
3 12	1 7.70	+10 57.9	2.014	1.234	22.5	21.5	28 E	21*	9*
3 17	1 24.40	+12 54.7	2.043	1.254	21.8	21.5	28 E	21*	9*

165765 2001 QW_{236}

12 23	20 16.77	−17 5.3	2.338	1.592	19.1	21.4	32 E	18*	20*
1 2	20 46.42	−15 46.6	2.390	1.603	17.3	21.4	29 E	17*	16*
1 12	21 15.43	−14 11.7	2.442	1.617	15.5	21.4	26 E	16*	13*
1 22	21 43.73	−12 23.2	2.494	1.633	13.6	21.4	23 E	14*	10*
2 1	22 11.29	−10 23.9	2.545	1.652	11.6	21.4	20 E	12*	7*
2 11	22 38.09	− 8 16.7	2.595	1.673	9.7	21.4	17 E	9*	5*
2 21	23 4.18	− 6 4.3	2.643	1.696	7.7	21.4	13 E	6*	3*
3 2	23 29.60	− 3 49.2	2.688	1.720	5.7	21.4	10 E	3*	1*
3 12	23 54.40	− 1 34.0	2.730	1.746	3.7	21.3	7 E	—	—
3 22	0 18.67	+ 0 39.4	2.767	1.773	1.8	21.3	3 E	—	—
4 1	0 42.46	+ 2 49.0	2.800	1.802	1.0	21.3	2 E	—	—
4 11	1 5.82	+ 4 53.2	2.828	1.831	2.6	21.4	5 W	—	—

107888 2001 FY_{92}

12 23	20 17.70	−24 36.0	2.957	2.172	13.4	20.9	31 E	11*	22*
1 2	20 39.85	−23 18.1	3.050	2.208	11.2	20.9	26 E	10*	17*
1 12	21 1.27	−21 52.5	3.134	2.244	9.0	20.9	21 E	7*	13*
1 22	21 21.97	−20 20.5	3.209	2.280	6.9	20.9	16 E	4*	8*
2 1	21 41.97	−18 43.6	3.274	2.315	4.8	20.9	11 E	1*	4*
2 11	22 1.28	−17 3.2	3.327	2.350	2.9	20.9	7 E	—	1*
2 21	22 19.92	−15 20.3	3.369	2.384	1.9	20.9	5 E	—	—
3 2	22 37.93	−13 36.2	3.398	2.418	3.0	21.0	7 W	—	—
3 12	22 55.30	−11 52.0	3.415	2.451	4.8	21.1	12 W	—	5*
3 22	23 12.09	−10 8.7	3.418	2.484	6.8	21.3	17 W	—	11*
4 1	23 28.28	− 8 27.2	3.409	2.515	8.8	21.4	23 W	—	16*
4 11	23 43.88	− 6 48.5	3.387	2.546	10.7	21.5	28 W	—	22*

162991 2001 SY_{69}

12 23	20 18.17	−23 42.1	2.427	1.663	17.7	20.6	31 E	12*	22*
1 2	20 47.10	−22 7.8	2.464	1.658	16.0	20.5	28 E	12*	19*
1 12	21 15.61	−20 15.5	2.498	1.655	14.3	20.5	25 E	11*	15*
1 22	21 43.60	−18 7.5	2.531	1.654	12.5	20.5	21 E	9*	12*
2 1	22 11.01	−15 46.4	2.563	1.656	10.7	20.4	18 E	7*	10*
2 11	22 37.81	−13 14.8	2.592	1.661	9.0	20.4	15 E	5*	7*
2 21	23 4.04	−10 35.5	2.620	1.667	7.2	20.3	12 E	3*	5*
3 2	23 29.73	− 7 51.3	2.646	1.676	5.5	20.3	9 E	—	3*
3 12	23 54.93	− 5 4.8	2.670	1.687	3.9	20.2	7 E	—	1*
3 22	0 19.72	− 2 18.4	2.692	1.700	2.7	20.2	5 E	—	—
4 1	0 44.18	+ 0 25.6	2.710	1.715	2.4	20.2	4 E	—	—
4 11	1 8.35	+ 3 5.0	2.726	1.732	3.4	20.3	6 W	—	—
4 21	1 32.30	+ 5 38.2	2.738	1.751	4.9	20.4	8 W	—	2*
5 1	1 56.08	+ 8 3.3	2.746	1.771	6.5	20.5	12 W	—	5*
5 11	2 19.72	+10 19.0	2.750	1.792	8.3	20.6	15 W	—	9*
5 21	2 43.22	+12 24.2	2.749	1.815	10.0	20.7	18 W	—	12*
5 31	3 6.59	+14 18.0	2.742	1.838	11.8	20.8	22 W	1*	15*
6 10	3 29.79	+15 59.5	2.729	1.863	13.5	20.9	25 W	4*	19*
6 20	3 52.80	+17 28.6	2.709	1.888	15.2	21.0	29 W	8*	21*
6 30	4 15.53	+18 44.8	2.683	1.914	16.9	21.1	33 W	13*	24*
7 10	4 37.90	+19 48.4	2.649	1.940	18.5	21.1	37 W	18*	26*
7 20	4 59.84	+20 39.7	2.608	1.967	20.0	21.2	42 W	23*	28*
7 30	5 21.21	+21 19.3	2.559	1.994	21.5	21.2	46 W	29*	30*
8 9	5 41.89	+21 48.2	2.502	2.021	22.9	21.2	51 W	35*	31*
8 19	6 1.75	+22 7.6	2.438	2.048	24.1	21.2	56 W	40*	32*
8 29	6 20.63	+22 18.9	2.365	2.075	25.2	21.2	61 W	46*	34*
9 8	6 38.38	+22 23.7	2.286	2.101	26.1	21.2	67 W	52*	35*

162991 2001 SY_{69} *(continuation)*

9 18	6 54.80	+22 24.2	2.200	2.128	26.8	21.2	73 W	58*	36*
9 28	7 9.66	+22 22.6	2.108	2.154	27.2	21.1	79 W	62*	38*
10 8	7 22.74	+22 21.3	2.012	2.180	27.2	21.0	86 W	66*	39*
10 18	7 33.75	+22 23.1	1.912	2.205	26.8	20.9	93 W	67	40*
10 28	7 42.31	+22 30.7	1.812	2.230	25.9	20.8	101 W	68	41*
11 7	7 48.09	+22 46.9	1.714	2.254	24.4	20.7	110 W	68	41*
11 17	7 50.66	+23 13.7	1.622	2.278	22.2	20.5	120 W	68	41
11 27	7 49.66	+23 52.4	1.540	2.301	19.2	20.3	130 W	69	40
12 7	7 44.93	+24 41.8	1.472	2.323	15.4	20.1	141 W	70	39
12 17	7 36.61	+25 38.5	1.424	2.345	10.9	19.9	153 W	71	38
12 22	7 31.30	+26 7.7	1.409	2.356	8.4	19.8	159 W	71	38
12 27	7 25.40	+26 36.3	1.401	2.366	5.9	19.7	166 W	72	37
1 1	7 19.10	+27 3.4	1.399	2.376	3.5	19.5	171 W	72	37
1 6	7 12.59	+27 28.1	1.405	2.386	2.1	19.5	175 W	72	37
1 11	7 6.09	+27 50.0	1.418	2.396	3.3	19.6	172 E	73	36
1 16	6 59.82	+28 8.4	1.438	2.406	5.5	19.7	166 E	73	36

321950 2010 TJ_{170}

12 23	20 18.20	−17 5.3	2.380	1.636	18.8	21.4	32 E	18*	20*
1 2	20 46.43	−15 15.7	2.427	1.641	17.0	21.4	29 E	17*	16*
1 12	21 14.13	−13 12.0	2.474	1.649	15.2	21.4	26 E	16*	12*
1 22	21 41.24	−10 56.6	2.520	1.659	13.4	21.4	23 E	15*	9*
2 1	22 7.77	− 8 31.8	2.565	1.671	11.5	21.4	20 E	12*	6*
2 11	22 33.70	− 6 0.3	2.608	1.686	9.6	21.3	17 E	10*	3*
2 21	22 59.08	− 3 24.6	2.649	1.703	7.7	21.3	13 E	7*	1*
3 2	23 23.97	− 0 47.0	2.689	1.722	5.9	21.3	10 E	4*	—
3 12	23 48.41	+ 1 50.2	2.725	1.743	4.0	21.3	7 E	1*	—
3 22	0 12.48	+ 4 25.0	2.758	1.765	2.3	21.2	4 E	—	—
4 1	0 36.24	+ 6 55.5	2.787	1.789	1.6	21.2	3 W	—	—
4 11	0 59.73	+ 9 20.0	2.811	1.815	2.6	21.3	5 W	—	—
4 21	1 23.01	+11 37.2	2.831	1.841	4.4	21.5	8 W	—	1*

141526 2002 FA_6

12 23	20 18.43	−18 44.0	1.283	0.687	49.3	21.5	32 E	17*	20*
12 28	20 47.62	−19 46.8	1.253	0.692	51.4	21.5	33 E	16*	22*
1 2	21 17.01	−20 38.9	1.225	0.701	53.3	21.5	35 E	16*	25*
1 7	21 46.43	−21 18.5	1.201	0.714	55.0	21.6	36 E	16*	27*
1 12	22 15.72	−21 43.7	1.179	0.731	56.3	21.6	38 E	16*	29*

164121 2003 YT_1

12 23	20 18.47	−48 34.8	2.092	1.430	24.3	19.7	37 E	—	28*
12 28	20 39.23	−47 10.4	2.102	1.427	23.8	19.7	36 E	—	28*
1 2	20 59.08	−45 35.7	2.111	1.422	23.4	19.7	35 E	—	27*
1 7	21 18.03	−43 52.0	2.120	1.417	22.9	19.7	34 E	—	27*
1 12	21 36.08	−42 0.1	2.128	1.411	22.4	19.7	33 E	—	26*
1 17	21 53.28	−40 1.1	2.136	1.403	21.9	19.6	32 E	—	25*
1 22	22 9.69	−37 55.8	2.143	1.395	21.3	19.6	31 E	—	24*
1 27	22 25.38	−35 45.0	2.150	1.385	20.7	19.6	30 E	—	23*
2 1	22 40.40	−33 29.6	2.156	1.374	20.1	19.6	29 E	—	22*
2 6	22 54.83	−31 10.1	2.162	1.363	19.4	19.5	27 E	—	21*
2 11	23 8.71	−28 47.0	2.166	1.350	18.7	19.5	26 E	—	20*
2 16	23 22.13	−26 20.9	2.170	1.337	17.9	19.4	25 E	—	18*
2 21	23 35.15	−23 52.2	2.172	1.322	17.1	19.4	23 E	—	17*
3 2	0 0.20	−18 47.9	2.174	1.290	15.4	19.3	20 E	—	14*
3 12	0 24.31	−13 36.1	2.169	1.254	13.4	19.2	17 E	—	11*
3 22	0 47.91	− 8 17.7	2.159	1.214	11.3	19.0	14 E	—	7*
4 1	1 11.47	− 2 53.1	2.140	1.172	8.9	18.8	10 E	—	4*
4 11	1 35.44	+ 2 37.9	2.114	1.126	6.3	18.6	7 E	—	—
4 21	2 0.42	+ 8 15.4	2.079	1.078	3.5	18.3	4 E	—	—
5 1	2 27.16	+13 59.0	2.035	1.029	1.8	18.0	2 W	—	—
5 11	2 56.62	+19 46.6	1.983	0.979	4.3	18.0	4 W	—	—
5 16	3 12.78	+22 40.3	1.955	0.954	6.1	18.0	6 W	—	—
5 21	3 30.17	+25 32.5	1.925	0.930	8.0	18.0	7 W	1*	—
5 26	3 49.01	+28 21.4	1.894	0.907	10.0	18.0	9 W	3*	—
5 31	4 9.57	+31 4.6	1.862	0.885	12.0	18.0	10 W	4*	—
6 5	4 32.11	+33 38.6	1.830	0.864	14.1	18.0	12 W	6*	—
6 10	4 56.88	+35 59.4	1.798	0.845	16.3	18.0	13 W	7*	—
6 15	5 24.06	+38 1.5	1.768	0.828	18.4	18.0	15 W	7*	—
6 20	5 53.66	+39 38.7	1.738	0.813	20.4	18.0	16 W	7*	—
6 25	6 25.49	+40 44.5	1.711	0.802	22.4	18.0	17 E	9*	—
6 30	6 59.01	+41 12.6	1.687	0.793	24.2	18.0	19 E	11*	—
7 2	7 12.72	+41 12.2	1.678	0.790	24.9	18.0	19 E	12*	—
7 4	7 26.51	+41 4.8	1.670	0.788	25.5	18.0	20 E	13*	—
7 6	7 40.32	+40 50.3	1.662	0.787	26.1	18.0	20 E	13*	—
7 8	7 54.09	+40 28.6	1.656	0.786	26.7	18.0	20 E	14*	—
7 10	8 7.75	+39 59.9	1.650	0.786	27.2	18.0	21 E	15*	—
7 12	8 21.24	+39 24.1	1.645	0.786	27.7	18.0	21 E	15*	—
7 14	8 34.50	+38 41.6	1.640	0.787	28.1	18.0	21 E	15*	—
7 16	8 47.50	+37 52.6	1.637	0.788	28.5	18.0	22 E	16*	—

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		164121 2003 YT_1 *(continuation)*							
	h m	° ′			°	m	°	°	°
7 18	9 0.18	+36 57.5	1.634	0.790	28.9	18.0	22 E	16*	—
7 20	9 12.51	+35 56.6	1.632	0.792	29.2	18.0	22 E	16*	1*
7 25	9 41.70	+33 2.0	1.631	0.800	29.7	18.1	23 E	16*	4*
7 30	10 8.43	+29 41.3	1.635	0.812	29.9	18.1	23 E	16*	7*
8 4	10 32.75	+26 1.8	1.645	0.826	29.8	18.2	24 E	16*	9*
8 9	10 54.89	+22 10.1	1.659	0.843	29.5	18.2	24 E	15*	11*
8 14	11 15.10	+18 11.8	1.677	0.861	28.9	18.3	24 E	13*	13*
8 19	11 33.70	+14 11.7	1.699	0.882	28.2	18.3	24 E	12*	15*
8 24	11 50.95	+10 13.2	1.725	0.904	27.4	18.4	24 E	10*	16*
8 29	12 7.12	+ 6 18.9	1.752	0.927	26.4	18.4	24 E	9*	17*
9 3	12 22.42	+ 2 30.6	1.781	0.951	25.4	18.5	24 E	7*	17*
9 8	12 37.06	− 1 10.5	1.812	0.975	24.4	18.6	24 E	5*	17*
9 18	13 5.03	− 8 9.2	1.874	1.025	22.4	18.7	23 E	1*	17*
9 28	13 32.15	−14 35.0	1.935	1.075	20.5	18.8	22 E	—	16*
10 8	13 59.33	−20 28.5	1.992	1.123	19.0	18.9	21 E	—	14*
10 18	14 27.30	−25 50.7	2.044	1.169	17.7	19.0	21 E	—	13*
10 28	14 56.70	−30 42.4	2.090	1.212	16.8	19.1	21 E	—	12*
11 7	15 28.10	−35 2.7	2.128	1.251	16.3	19.2	21 E	—	10*
11 17	16 1.98	−38 50.0	2.160	1.288	16.0	19.3	21 E	—	10*
11 27	16 38.66	−42 0.6	2.186	1.320	16.0	19.4	22 E	—	9*
12 7	17 18.20	−44 30.2	2.206	1.348	16.2	19.4	22 E	—	9*
12 12	17 38.97	−45 28.0	2.214	1.361	16.3	19.5	23 E	—	9*
12 17	18 0.30	−46 13.7	2.221	1.373	16.5	19.5	23 E	—	9*
12 22	18 22.09	−46 47.0	2.227	1.384	16.6	19.5	24 E	—	9*
12 27	18 44.19	−47 7.3	2.231	1.393	16.8	19.6	24 E	—	10*
1 1	19 6.46	−47 14.5	2.235	1.402	17.0	19.6	25 E	—	10*
1 6	19 28.73	−47 8.7	2.238	1.410	17.1	19.6	25 E	—	10*
1 11	19 50.84	−46 49.9	2.241	1.416	17.3	19.6	25 E	—	10*
1 16	20 12.65	−46 18.8	2.243	1.422	17.5	19.6	26 E	—	10*
		264310 1999 RH_{95}							
12 23	20 19.29	−18 42.8	2.369	1.624	18.8	21.1	32 E	17*	21*
1 2	20 48.09	−17 7.0	2.400	1.613	17.2	21.0	29 E	16*	17*
1 12	21 16.72	−15 14.0	2.430	1.605	15.6	21.0	26 E	15*	14*
1 22	21 45.07	−13 5.8	2.459	1.600	13.9	21.0	23 E	13*	11*
2 1	22 13.07	−10 44.9	2.489	1.599	12.2	20.9	20 E	12*	8*
2 11	22 40.66	− 8 14.1	2.517	1.601	10.5	20.9	17 E	9*	6*
2 21	23 7.85	− 5 36.4	2.546	1.607	8.7	20.9	14 E	7*	3*
3 2	23 34.67	− 2 54.6	2.575	1.616	7.0	20.8	11 E	5*	2*
3 12	0 1.14	− 0 11.8	2.604	1.628	5.2	20.8	9 E	2*	—
3 22	0 27.32	+ 2 29.3	2.631	1.643	3.5	20.7	6 E	—	—
4 1	0 53.25	+ 5 6.3	2.658	1.661	1.7	20.6	3 E	—	—
4 11	1 18.98	+ 7 36.6	2.683	1.681	0.4	20.6	1 E	—	—
4 21	1 44.53	+ 9 58.3	2.707	1.704	2.0	20.8	3 W	—	—
5 1	2 9.93	+12 9.6	2.727	1.730	3.7	20.9	6 W	—	—
5 11	2 35.17	+14 9.0	2.744	1.757	5.5	21.1	10 W	—	4*
5 21	3 0.25	+15 55.4	2.757	1.786	7.3	21.2	13 W	—	7*
5 31	3 25.11	+17 27.9	2.766	1.816	9.1	21.3	16 W	1*	10*
6 10	3 49.69	+18 45.9	2.768	1.847	10.8	21.4	20 W	3*	13*
		470070 2006 SD_{281}							
12 23	20 19.99	−23 4.0	2.355	1.601	18.7	21.4	32 E	13*	22*
1 2	20 50.22	−21 24.5	2.392	1.599	17.1	21.4	29 E	13*	19*
1 12	21 19.93	−19 25.7	2.428	1.600	15.4	21.4	26 E	12*	16*
1 22	21 48.98	−17 10.7	2.465	1.604	13.8	21.4	23 E	11*	13*
2 1	22 17.32	−14 42.3	2.502	1.612	12.0	21.4	20 E	9*	10*
2 11	22 44.92	−12 3.9	2.540	1.623	10.3	21.3	17 E	7*	8*
2 21	23 11.80	− 9 18.8	2.577	1.636	8.6	21.3	14 E	5*	6*
3 2	23 38.03	− 6 30.0	2.613	1.653	6.8	21.3	11 E	3*	4*
3 12	0 3.65	− 3 40.5	2.649	1.673	5.1	21.3	9 E	—	2*
3 22	0 28.76	− 0 52.9	2.683	1.695	3.5	21.2	6 E	—	—
4 1	0 53.43	+ 1 50.5	2.715	1.719	2.3	21.2	4 E	—	—
4 11	1 17.70	+ 4 27.6	2.744	1.745	2.2	21.3	4 W	—	—
4 21	1 41.66	+ 6 56.7	2.769	1.773	3.4	21.4	6 W	—	—
		154035 2002 CV_{59}							
12 23	20 20.31	−22 55.3	1.073	0.567	65.4	18.5	32 E	13*	22*
12 25	20 29.26	−20 6.7	1.059	0.569	66.7	18.6	32 E	16*	21*
12 27	20 37.51	−17 13.9	1.045	0.574	67.8	18.6	33 E	18*	20*
12 29	20 45.12	−14 18.2	1.033	0.580	68.6	18.6	33 E	20*	19*
12 31	20 52.15	−11 20.7	1.022	0.588	69.3	18.6	34 E	23*	17*
1 2	20 58.64	− 8 22.8	1.013	0.598	69.9	18.7	35 E	25*	16*
1 4	21 4.66	− 5 25.4	1.005	0.609	70.2	18.7	36 E	27*	14*
1 6	21 10.26	− 2 29.4	0.998	0.621	70.4	18.7	37 E	29*	12*
1 8	21 15.50	+ 0 24.5	0.993	0.635	70.4	18.8	38 E	30*	10*
1 10	21 20.44	+ 3 15.7	0.988	0.650	70.4	18.8	39 E	32*	8*
1 12	21 25.12	+ 6 3.8	0.984	0.666	70.1	18.8	40 E	33*	6*
1 17	21 36.02	+12 48.9	0.979	0.708	69.2	18.9	42 E	36*	1*
1 22	21 46.27	+19 11.3	0.977	0.754	67.9	19.0	45 E	38*	—

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		154035 2002 CV_{59} *(continuation)*							
	h m	° ′			°	m	°	°	°
1 27	21 56.43	+25 12.0	0.978	0.802	66.3	19.1	48 E	39*	—
2 1	22 6.96	+30 53.3	0.982	0.851	64.6	19.2	51 E	40*	—
2 6	22 18.32	+36 17.7	0.987	0.900	62.8	19.3	54 E	40*	—
2 11	22 30.98	+41 27.5	0.993	0.949	61.0	19.4	57 E	40*	—
2 16	22 45.48	+46 24.1	1.001	0.997	59.2	19.4	60 E	41*	—
2 21	23 2.52	+51 8.0	1.011	1.044	57.5	19.5	63 E	41*	—
2 23	23 10.24	+52 57.9	1.015	1.063	56.8	19.5	64 E	42*	—
2 25	23 18.58	+54 45.4	1.020	1.081	56.1	19.5	65 E	42*	—
2 27	23 27.62	+56 30.4	1.026	1.099	55.4	19.6	66 E	43*	—
2 29	23 37.44	+58 12.7	1.031	1.117	54.7	19.6	67 E	43*	—
3 2	23 48.15	+59 51.7	1.037	1.135	54.1	19.6	68 E	44*	—
3 4	23 59.85	+61 27.3	1.044	1.152	53.4	19.7	69 E	44*	—
3 6	0 12.67	+62 58.7	1.051	1.170	52.7	19.7	70 E	45*	—
3 8	0 26.73	+64 25.5	1.059	1.187	52.1	19.7	71 E	46*	—
3 10	0 42.16	+65 47.0	1.067	1.204	51.4	19.7	71 E	46*	—
3 12	0 59.06	+67 2.3	1.075	1.220	50.8	19.8	72 E	47*	—
3 14	1 17.52	+68 10.6	1.085	1.237	50.2	19.8	73 E	48*	—
3 16	1 37.59	+69 10.9	1.094	1.253	49.6	19.8	74 E	49*	—
3 18	1 59.22	+70 2.3	1.105	1.269	49.0	19.9	74 E	50*	—
3 20	2 22.28	+70 43.8	1.116	1.284	48.4	19.9	75 E	51*	—
3 22	2 46.51	+71 14.6	1.128	1.300	47.8	19.9	75 E	52*	—
3 23	2 58.95	+71 25.8	1.134	1.307	47.5	19.9	75 E	52*	—
3 24	3 11.55	+71 34.2	1.140	1.315	47.3	20.0	76 E	53*	—
3 25	3 24.23	+71 39.7	1.146	1.323	47.0	20.0	76 E	53*	—
3 26	3 36.93	+71 42.3	1.153	1.330	46.7	20.0	76 E	54*	—
3 27	3 49.60	+71 42.1	1.160	1.337	46.4	20.0	76 E	55*	—
3 28	4 2.18	+71 39.1	1.167	1.345	46.2	20.0	76 E	55*	—
3 29	4 14.59	+71 33.4	1.174	1.352	45.9	20.0	77 E	56*	—
3 30	4 26.80	+71 25.1	1.181	1.359	45.6	20.1	77 E	56*	—
3 31	4 38.74	+71 14.2	1.188	1.366	45.4	20.1	77 E	57*	—
4 1	4 50.39	+71 1.0	1.196	1.374	45.1	20.1	77 E	57*	—
4 2	5 1.71	+70 45.5	1.203	1.381	44.9	20.1	77 E	58*	—
4 3	5 12.67	+70 27.9	1.211	1.388	44.6	20.1	77 E	58*	—
4 4	5 23.26	+70 8.3	1.219	1.395	44.4	20.2	77 E	59*	—
4 5	5 33.46	+69 46.9	1.227	1.401	44.1	20.2	77 E	60*	—
4 6	5 43.27	+69 23.9	1.236	1.408	43.9	20.2	77 E	60*	—
4 7	5 52.68	+68 59.3	1.244	1.415	43.6	20.2	77 E	61*	—
4 8	6 1.71	+68 33.3	1.253	1.422	43.4	20.2	77 E	61*	—
4 9	6 10.35	+68 6.1	1.262	1.428	43.2	20.2	77 E	62*	—
4 10	6 18.63	+67 37.8	1.271	1.435	42.9	20.3	77 E	62*	—
4 11	6 26.55	+67 8.4	1.280	1.442	42.7	20.3	77 E	63*	—
4 13	6 41.37	+66 7.1	1.298	1.455	42.2	20.3	77 E	64*	—
4 15	6 54.95	+65 2.9	1.318	1.467	41.8	20.4	77 E	65*	—
4 17	7 7.40	+63 56.6	1.337	1.480	41.4	20.4	77 E	65*	—
4 19	7 18.84	+62 48.7	1.358	1.492	40.9	20.4	77 E	66*	1*
4 21	7 29.39	+61 39.8	1.379	1.504	40.5	20.5	76 E	67*	2*
4 23	7 39.16	+60 30.1	1.400	1.516	40.1	20.5	76 E	67*	3*
4 25	7 48.23	+59 20.1	1.422	1.527	39.7	20.6	76 E	68*	5*
4 27	7 56.68	+58 9.9	1.444	1.539	39.3	20.6	75 E	68*	6*
4 29	8 4.58	+56 59.9	1.467	1.550	38.9	20.6	75 E	68*	7*
5 1	8 12.00	+55 50.3	1.490	1.561	38.5	20.7	75 E	68*	8*
5 3	8 19.00	+54 41.0	1.513	1.571	38.1	20.7	74 E	68*	9*
5 5	8 25.60	+53 32.4	1.537	1.582	37.7	20.7	74 E	68*	10*
5 7	8 31.87	+52 24.5	1.561	1.592	37.3	20.8	73 E	67*	11*
5 9	8 37.83	+51 17.2	1.586	1.602	36.9	20.8	72 E	66*	13*
5 11	8 43.52	+50 10.8	1.610	1.612	36.5	20.9	72 E	66*	14*
5 16	8 56.71	+47 28.5	1.673	1.636	35.6	20.9	70 E	63*	16*
5 21	9 8.73	+44 51.9	1.738	1.658	34.6	21.0	68 E	60*	19*
5 26	9 19.82	+42 20.9	1.802	1.679	33.6	21.1	67 E	57*	21*
5 31	9 30.17	+39 55.7	1.868	1.699	32.6	21.2	65 E	54*	23*
6 5	9 39.94	+37 35.8	1.933	1.718	31.6	21.3	62 E	50*	25*
6 10	9 49.21	+35 21.1	1.998	1.735	30.5	21.3	60 E	46*	27*
6 15	9 58.09	+33 11.2	2.063	1.752	29.5	21.4	58 E	43*	28*
6 20	10 6.66	+31 5.7	2.126	1.766	28.4	21.4	56 E	39*	29*
6 25	10 14.96	+29 4.3	2.189	1.780	27.3	21.5	53 E	36*	30*
		264791 2002 NG_9							
12 23	20 20.48	−15 19.5	2.323	1.598	19.8	21.0	33 E	20*	20*
1 2	20 48.85	−13 1.9	2.378	1.612	18.1	21.1	31 E	20*	15*
1 12	21 16.47	−10 32.8	2.433	1.629	16.3	21.1	28 E	19*	12*
1 22	21 43.34	− 7 54.7	2.489	1.649	14.5	21.1	25 E	17*	8*
2 1	22 9.49	− 5 10.4	2.545	1.672	12.7	21.1	22 E	15*	5*
2 11	22 34.95	− 2 22.4	2.600	1.697	10.9	21.1	19 E	13*	2*
2 21	22 59.80	+ 0 27.1	2.653	1.725	9.1	21.1	16 E	10*	—
3 2	23 24.10	+ 3 15.8	2.705	1.754	7.4	21.1	13 E	7*	—
3 12	23 47.93	+ 6 1.8	2.754	1.786	5.8	21.1	10 E	4*	—
3 22	0 11.36	+ 8 43.4	2.799	1.819	4.5	21.1	8 E	1*	—
4 1	0 34.45	+11 19.2	2.840	1.853	3.8	21.2	7 W	—	—
4 11	0 57.24	+13 47.7	2.876	1.887	4.0	21.2	8 W	2*	—

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		264791 2002 NG_9					*(continuation)*		
	h m	° ′			°	m	°	°	°
4 21	1 19.80	+16 7.9	2.906	1.923	5.1	21.4	10 W	3*	—
5 1	1 42.13	+18 19.0	2.930	1.960	6.5	21.5	13 W	5*	4*
		438018 2003 YQ_{17}							
12 23	20 20.52	− 7 7.4	2.263	1.590	21.8	19.2	37 E	27*	16*
1 2	20 46.09	− 4 23.3	2.275	1.564	20.8	19.2	34 E	26*	11*
1 12	21 12.27	− 1 26.2	2.284	1.542	19.8	19.1	32 E	26*	7*
1 22	21 39.08	+ 1 42.5	2.294	1.525	18.9	19.1	30 E	24*	3*
2 1	22 6.53	+ 5 0.4	2.304	1.513	18.1	19.0	29 E	22*	—
2 11	22 34.64	+ 8 24.4	2.316	1.506	17.4	19.0	27 E	21*	—
2 21	23 3.45	+11 50.5	2.332	1.505	16.6	19.0	26 E	19*	—
3 2	23 33.00	+15 14.4	2.353	1.510	15.9	19.0	25 E	17*	—
3 12	0 3.27	+18 31.3	2.380	1.520	15.1	19.0	23 E	15*	—
3 22	0 34.26	+21 36.5	2.412	1.535	14.1	19.0	22 E	14*	—
4 1	1 5.90	+24 25.7	2.449	1.555	13.1	19.1	21 E	12*	—
4 11	1 38.05	+26 54.8	2.492	1.580	12.0	19.1	19 E	11*	—
4 21	2 10.54	+29 1.0	2.539	1.609	10.8	19.1	18 E	9*	—
5 1	2 43.13	+30 42.3	2.589	1.642	9.6	19.2	16 E	7*	—
5 11	3 15.53	+31 57.8	2.640	1.678	8.4	19.2	14 E	5*	—
5 21	3 47.44	+32 47.6	2.691	1.717	7.4	19.3	13 W	5*	—
5 31	4 18.58	+33 12.8	2.740	1.759	6.7	19.3	12 W	5*	—
6 10	4 48.67	+33 15.1	2.786	1.803	6.5	19.4	12 W	5*	—
6 20	5 17.53	+32 56.6	2.827	1.848	6.9	19.5	13 W	7*	—
6 30	5 44.98	+32 19.9	2.861	1.895	7.8	19.6	15 W	8*	—
7 10	6 10.94	+31 27.2	2.889	1.943	9.0	19.8	17 W	11*	3*
7 20	6 35.36	+30 21.0	2.907	1.992	10.5	19.9	21 W	14*	5*
7 30	6 58.23	+29 3.7	2.916	2.041	12.1	20.0	25 W	17*	8*
8 9	7 19.55	+27 37.0	2.914	2.091	13.8	20.1	29 W	21*	11*
8 19	7 39.36	+26 3.0	2.901	2.141	15.4	20.2	34 W	26*	14*
8 29	7 57.65	+24 23.2	2.876	2.191	17.0	20.3	39 W	31*	18*
9 8	8 14.45	+22 38.9	2.839	2.240	18.5	20.4	45 W	36*	21*
9 18	8 29.74	+20 51.6	2.791	2.290	19.8	20.4	51 W	41*	24*
9 28	8 43.48	+19 2.2	2.731	2.339	21.0	20.5	57 W	46*	28*
10 8	8 55.60	+17 12.0	2.661	2.388	22.0	20.5	63 W	51*	32*
10 18	9 6.01	+15 21.9	2.582	2.436	22.7	20.5	70 W	55*	36*
10 28	9 14.54	+13 33.0	2.495	2.483	23.0	20.5	78 W	57*	41*
11 7	9 21.03	+11 46.4	2.402	2.530	23.0	20.4	86 W	57*	46*
11 17	9 25.26	+10 3.3	2.306	2.577	22.5	20.3	94 W	55	51*
11 27	9 26.97	+ 8 25.3	2.211	2.622	21.5	20.3	103 W	53	55*
12 7	9 25.96	+ 6 54.0	2.120	2.667	19.9	20.2	113 W	52	57
12 17	9 22.09	+ 5 31.4	2.040	2.711	17.6	20.0	124 W	51	58
12 27	9 15.39	+ 4 20.1	1.974	2.754	14.8	19.9	134 W	49	60
1 6	9 6.16	+ 3 22.1	1.929	2.796	11.5	19.8	145 W	48	61
1 16	8 55.03	+ 2 39.4	1.910	2.837	8.1	19.6	156 W	48	61
		328734 2009 UA_1							
12 23	20 20.83	−16 48.3	2.500	1.759	17.8	21.3	33 E	18*	20*
1 2	20 47.63	−15 16.7	2.577	1.788	15.7	21.4	30 E	17*	16*
1 12	21 13.53	−13 33.6	2.653	1.819	13.6	21.4	26 E	16*	12*
1 22	21 38.53	−11 41.4	2.726	1.851	11.5	21.4	22 E	14*	8*
2 1	22 2.67	− 9 42.3	2.796	1.884	9.4	21.4	18 E	11*	5*
2 11	22 25.98	− 7 38.5	2.860	1.919	7.2	21.4	14 E	7*	2*
2 21	22 48.53	− 5 31.8	2.920	1.954	5.1	21.4	10 E	4*	—
3 2	23 10.36	− 3 23.9	2.973	1.990	3.0	21.4	6 E	—	—
3 12	23 31.54	− 1 16.5	3.018	2.026	1.1	21.3	2 E	—	—
3 22	23 52.13	+ 0 49.2	3.056	2.062	1.6	21.4	3 W	—	—
		137444 1999 TE_{245}							
12 23	20 21.13	− 7 25.4	2.548	1.857	18.5	18.7	37 E	27*	17*
1 2	20 43.71	− 5 39.7	2.572	1.828	17.1	18.7	33 E	25*	11*
1 12	21 6.80	− 3 41.9	2.590	1.800	15.6	18.6	30 E	23*	6*
1 22	21 30.38	− 1 32.5	2.602	1.774	14.2	18.5	26 E	20*	2*
2 1	21 54.42	+ 0 47.4	2.610	1.750	12.9	18.5	23 E	17*	—
2 11	22 18.90	+ 3 16.3	2.615	1.727	11.6	18.4	21 E	14*	—
2 21	22 43.85	+ 5 52.4	2.617	1.707	10.5	18.3	18 E	11*	—
3 2	23 9.30	+ 8 33.3	2.617	1.689	9.5	18.3	16 E	8*	—
3 12	23 35.28	+11 16.5	2.616	1.674	8.7	18.2	15 E	5*	—
3 22	0 1.84	+13 59.0	2.615	1.661	8.0	18.2	13 W	4*	—
4 1	0 29.03	+16 37.7	2.613	1.652	7.5	18.1	13 W	5*	—
4 11	0 56.86	+19 9.4	2.612	1.645	7.3	18.1	12 W	6*	—
4 21	1 25.36	+21 30.6	2.611	1.642	7.4	18.1	12 W	6*	—
5 1	1 54.50	+23 38.4	2.610	1.641	7.7	18.1	13 W	7*	—
5 11	2 24.18	+25 29.7	2.609	1.644	8.2	18.1	13 W	7*	—
5 21	2 54.31	+27 2.0	2.608	1.650	9.0	18.2	15 W	8*	2*
5 31	3 24.71	+28 13.2	2.605	1.659	10.0	18.2	17 W	9*	4*
6 10	3 55.14	+29 2.0	2.601	1.670	11.2	18.3	19 W	10*	6*
6 20	4 25.38	+29 27.6	2.595	1.685	12.4	18.3	21 W	11*	8*
6 30	4 55.14	+29 30.3	2.585	1.702	13.8	18.4	24 W	14*	10*
7 10	5 24.17	+29 10.6	2.572	1.722	15.2	18.5	26 W	16*	12*
7 20	5 52.25	+28 29.8	2.554	1.744	16.7	18.5	30 W	19*	14*
7 30	6 19.18	+27 29.6	2.531	1.768	18.2	18.6	33 W	23*	16*
8 9	6 44.82	+26 12.0	2.502	1.793	19.7	18.7	37 W	26*	18*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		137444 1999 TE_{245}					*(continued)*		
	h m	° ′			°	m	°	°	°
8 19	7 9.08	+24 38.8	2.466	1.821	21.2	18.7	41 W	30*	20*
8 29	7 31.87	+22 52.4	2.424	1.850	22.6	18.7	45 W	34*	23*
9 8	7 53.15	+20 54.5	2.376	1.880	24.0	18.8	49 W	38*	26*
9 18	8 12.89	+18 47.1	2.320	1.911	25.2	18.8	54 W	43*	29*
9 28	8 31.02	+16 32.0	2.257	1.943	26.3	18.8	59 W	46*	32*
10 8	8 47.49	+14 10.7	2.187	1.975	27.2	18.8	65 W	50*	36*
10 18	9 2.24	+11 44.7	2.112	2.009	27.8	18.8	70 W	52*	40*
10 28	9 15.10	+ 9 15.5	2.031	2.042	28.2	18.7	76 W	53*	44*
11 7	9 25.94	+ 6 44.6	1.946	2.076	28.3	18.7	83 W	52*	50*
11 17	9 34.52	+ 4 13.6	1.859	2.110	27.9	18.6	90 W	49	55*
11 27	9 40.56	+ 1 44.6	1.772	2.144	27.1	18.5	98 W	47	60*
12 7	9 43.77	− 0 39.9	1.687	2.177	25.8	18.4	106 W	44	65*
12 17	9 43.86	− 2 56.2	1.608	2.211	23.8	18.3	115 W	42	67
12 27	9 40.60	− 4 59.5	1.539	2.244	21.2	18.1	124 W	40	69
1 1	9 37.72	− 5 54.6	1.509	2.261	19.8	18.1	129 W	39	70
1 6	9 34.04	− 6 44.2	1.484	2.277	18.2	18.0	134 W	38	71
1 11	9 29.62	− 7 27.6	1.463	2.294	16.5	17.9	138 W	38	71
1 16	9 24.54	− 8 3.9	1.447	2.310	14.9	17.8	143 W	37	72
		87035 2000 KE_2							
12 23	20 21.67	−20 36.8	3.247	2.472	12.3	19.6	32 E	15*	22*
1 2	20 39.55	−20 14.3	3.278	2.435	10.3	19.5	26 E	12*	16*
1 12	20 57.98	−19 42.6	3.294	2.398	8.3	19.4	21 E	9*	11*
1 22	21 16.89	−19 2.0	3.297	2.360	6.2	19.2	15 E	5*	7*
2 1	21 36.22	−18 13.2	3.286	2.322	4.2	19.1	10 E	—	3*
2 11	21 55.90	−17 16.8	3.262	2.283	2.5	18.9	6 E	—	—
2 21	22 15.93	−16 13.4	3.226	2.243	2.3	18.9	5 E	—	—
3 2	22 36.28	−15 3.7	3.177	2.203	3.9	18.9	9 W	—	1*
3 12	22 56.95	−13 48.8	3.118	2.162	6.0	18.9	13 W	—	6*
3 22	23 17.97	−12 29.4	3.049	2.122	8.2	18.9	18 W	—	10*
4 1	23 39.36	−11 6.6	2.972	2.081	10.4	18.9	22 W	—	15*
4 11	0 1.14	− 9 41.6	2.888	2.040	12.6	18.9	26 W	—	19*
4 21	0 23.39	− 8 15.3	2.799	1.999	14.8	18.9	31 W	—	23*
5 1	0 46.14	− 6 49.1	2.705	1.959	16.9	18.8	34 W	—	28*
5 11	1 9.44	− 5 24.3	2.608	1.919	19.0	18.8	38 W	—	32*
5 21	1 33.34	− 4 2.3	2.510	1.879	21.0	18.7	42 W	—	35*
5 31	1 57.87	− 2 44.6	2.411	1.841	23.0	18.6	45 W	1*	39*
6 10	2 23.03	− 1 32.8	2.314	1.803	24.8	18.6	48 W	4*	42*
6 20	2 48.85	− 0 28.5	2.219	1.768	26.6	18.5	51 W	7*	45*
6 30	3 15.27	+ 0 26.8	2.126	1.733	28.3	18.4	54 W	10*	47*
7 10	3 42.21	+ 1 11.6	2.038	1.701	29.9	18.3	56 W	14*	49*
7 20	4 9.59	+ 1 44.9	1.953	1.671	31.3	18.2	59 W	19*	50*
7 30	4 37.23	+ 2 5.7	1.873	1.643	32.7	18.1	61 W	23*	51*
8 9	5 4.98	+ 2 14.0	1.798	1.619	34.0	18.0	63 W	27*	52*
8 19	5 32.64	+ 2 9.8	1.726	1.597	35.2	17.9	65 W	31*	53*
8 29	5 59.98	+ 1 54.2	1.658	1.579	36.3	17.9	68 W	34*	53*
9 8	6 26.79	+ 1 28.7	1.592	1.565	37.2	17.8	70 W	37*	54*
9 18	6 52.88	+ 0 55.4	1.528	1.555	38.0	17.7	72 W	39*	55*
9 28	7 18.01	+ 0 17.1	1.465	1.548	38.7	17.6	75 W	41*	56*
10 8	7 42.03	− 0 22.8	1.402	1.546	39.2	17.5	78 W	43*	57*
10 18	8 4.73	− 1 0.8	1.338	1.549	39.5	17.5	82 W	44*	59*
10 28	8 25.88	− 1 32.4	1.272	1.555	39.6	17.4	86 W	43	60*
11 2	8 35.82	− 1 44.2	1.239	1.560	39.5	17.3	88 W	43	61*
11 7	8 45.29	− 1 52.4	1.205	1.566	39.3	17.2	90 W	43	62*
11 12	8 54.26	− 1 56.4	1.171	1.572	39.0	17.2	93 W	43	63*
11 17	9 2.67	− 1 55.2	1.137	1.580	38.5	17.1	96 W	43	64*
11 22	9 10.48	− 1 47.8	1.102	1.589	37.9	17.0	99 W	43	65*
11 27	9 17.65	− 1 33.4	1.068	1.598	37.1	17.0	102 W	43	65*
12 2	9 24.14	− 1 10.9	1.034	1.609	36.2	16.9	106 W	44	65*
12 7	9 29.88	− 0 39.2	1.000	1.620	35.0	16.8	109 W	44	65
12 12	9 34.80	+ 0 2.7	0.968	1.632	33.6	16.7	113 W	45	64
12 17	9 38.85	+ 0 56.2	0.936	1.645	32.0	16.6	118 W	46	63
12 22	9 41.96	+ 2 2.1	0.907	1.658	30.0	16.5	123 W	47	62
12 27	9 44.09	+ 3 21.2	0.879	1.672	27.8	16.4	128 W	48	61
1 1	9 45.21	+ 4 53.9	0.855	1.687	25.2	16.3	133 W	50	59
1 6	9 45.30	+ 6 40.0	0.834	1.703	22.3	16.1	139 W	52	57
1 11	9 44.37	+ 8 38.6	0.818	1.719	19.2	16.0	145 W	54	55
1 16	9 42.45	+10 48.1	0.806	1.735	15.7	15.9	151 W	56	53
		283377 2000 PO_9							
12 23	20 21.80	−20 0.6	2.517	1.768	17.4	20.6	32 E	16*	22*
1 2	20 45.21	−17 43.7	2.531	1.728	15.6	20.5	28 E	15*	17*
1 12	21 8.88	−15 13.1	2.537	1.689	13.8	20.4	24 E	14*	12*
1 22	21 32.80	−12 29.0	2.536	1.650	12.0	20.2	20 E	12*	8*
2 1	21 56.99	− 9 31.6	2.529	1.612	10.3	20.1	17 E	10*	4*
2 11	22 21.49	− 6 22.0	2.516	1.576	8.6	20.0	14 E	8*	—
2 21	22 46.38	− 3 1.2	2.499	1.541	7.2	19.9	11 E	5*	—
3 2	23 11.78	+ 0 29.1	2.479	1.508	6.0	19.7	9 E	3*	—
3 12	23 37.82	+ 4 6.6	2.457	1.478	5.2	19.6	8 E	1*	—
3 22	0 4.66	+ 7 48.6	2.434	1.451	4.9	19.6	7 W	—	—
4 1	0 32.49	+11 31.8	2.412	1.427	5.2	19.5	7 W	1*	—

283377 2000 PO_9 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	1 1.49	+15 11.9	2.391	1.406	5.7	19.5	8 W	2*	—
4 21	1 31.85	+18 44.0	2.374	1.390	6.5	19.5	9 W	3*	—
4 26	1 47.58	+20 25.5	2.366	1.383	6.9	19.5	9 W	3*	—
5 1	2 3.70	+22 2.9	2.360	1.378	7.2	19.5	10 W	4*	—
5 6	2 20.20	+23 35.5	2.354	1.374	7.6	19.5	10 W	4*	—
5 11	2 37.10	+25 2.5	2.350	1.371	8.0	19.5	11 W	5*	—
5 16	2 54.37	+26 23.2	2.346	1.369	8.3	19.5	11 W	5*	—
5 21	3 12.00	+27 37.0	2.344	1.369	8.7	19.5	12 W	6*	—
5 26	3 29.97	+28 43.1	2.343	1.369	9.0	19.5	12 W	6*	—
5 31	3 48.21	+29 41.1	2.343	1.371	9.3	19.6	13 W	6*	—
6 5	4 6.69	+30 30.2	2.343	1.374	9.6	19.6	13 W	7*	—
6 10	4 25.34	+31 10.3	2.345	1.378	9.9	19.6	13 W	7*	—
6 15	4 44.09	+31 41.0	2.348	1.384	10.2	19.6	14 W	7*	—
6 20	5 2.87	+32 2.2	2.352	1.390	10.5	19.6	14 W	8*	—
6 25	5 21.60	+32 13.9	2.356	1.398	10.8	19.7	15 W	8*	—
6 30	5 40.19	+32 16.1	2.361	1.407	11.1	19.7	15 W	9*	1*
7 5	5 58.56	+32 9.2	2.366	1.417	11.4	19.7	16 W	9*	1*
7 10	6 16.66	+31 53.5	2.371	1.427	11.8	19.8	17 W	10*	1*
7 20	6 51.80	+30 57.5	2.383	1.452	12.6	19.8	18 W	11*	2*
7 30	7 25.21	+29 32.6	2.393	1.479	13.5	19.9	20 W	13*	3*
8 9	7 56.68	+27 43.5	2.402	1.509	14.5	20.0	22 W	15*	5*
8 19	8 26.15	+25 35.3	2.408	1.542	15.6	20.1	24 W	18*	6*
8 29	8 53.67	+23 12.4	2.409	1.577	16.9	20.2	27 W	20*	8*
9 8	9 19.32	+20 38.9	2.405	1.614	18.2	20.3	30 W	23*	10*
9 18	9 43.27	+17 58.1	2.395	1.651	19.6	20.4	33 W	26*	12*
9 28	10 5.62	+15 12.7	2.377	1.690	21.0	20.4	37 W	30*	15*
10 8	10 26.51	+12 25.2	2.352	1.729	22.3	20.5	41 W	33*	18*
10 18	10 46.05	+ 9 37.2	2.318	1.769	23.7	20.6	46 W	36*	22*
10 28	11 4.29	+ 6 50.3	2.275	1.809	25.0	20.6	50 W	39*	26*
11 7	11 21.25	+ 4 5.6	2.224	1.848	26.1	20.7	55 W	41*	30*
11 17	11 36.94	+ 1 24.2	2.164	1.888	27.2	20.7	61 W	43*	36*
11 27	11 51.27	− 1 13.2	2.095	1.927	28.0	20.7	66 W	43*	42*
12 7	12 4.12	− 3 45.9	2.020	1.965	28.6	20.7	73 W	41*	49*
12 17	12 15.31	− 6 13.2	1.937	2.003	28.9	20.6	79 W	39	56*
12 27	12 24.58	− 8 34.2	1.850	2.040	28.8	20.5	86 W	36	64*
1 6	12 31.61	−10 48.0	1.761	2.076	28.2	20.5	94 W	34	72*
1 16	12 36.01	−12 53.2	1.670	2.111	27.1	20.4	102 W	32	77

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12 23	20 22.06	− 5 8.3	1.718	1.125	32.8	21.0	38 E	29*	16*
1 2	20 55.41	− 5 39.4	1.845	1.190	28.7	21.2	36 E	27*	14*
1 12	21 25.38	− 5 53.3	1.962	1.243	24.8	21.3	32 E	24*	12*
1 22	21 52.89	− 5 53.4	2.068	1.284	21.0	21.4	28 E	20*	9*
2 1	22 18.62	− 5 42.2	2.156	1.313	17.4	21.4	24 E	16*	7*
2 11	22 43.10	− 5 22.3	2.226	1.332	13.9	21.4	19 E	12*	5*
2 21	23 6.78	− 4 55.7	2.276	1.340	10.5	21.3	14 E	7*	3*
3 2	23 30.04	− 4 24.0	2.303	1.338	7.3	21.2	10 E	3*	1*
3 12	23 53.21	− 3 48.8	2.309	1.325	4.5	21.0	6 E	—	—
3 22	0 16.67	− 3 11.2	2.291	1.301	3.6	20.9	5 E	—	—
4 1	0 40.77	− 2 32.2	2.252	1.266	5.6	20.9	7 W	—	—
4 11	1 5.95	− 1 52.5	2.190	1.220	8.7	20.9	11 W	—	1*
4 21	1 32.74	− 1 12.4	2.108	1.161	12.3	20.9	14 W	—	5*
5 1	2 1.85	− 0 31.3	2.008	1.090	16.1	20.8	17 W	—	8*
5 11	2 34.18	+ 0 12.1	1.892	1.004	20.1	20.6	20 W	—	10*
5 21	3 11.02	+ 1 1.9	1.765	0.904	24.3	20.3	22 W	—	12*
5 26	3 31.66	+ 1 31.5	1.698	0.847	26.5	20.2	22 W	—	12*
5 31	3 54.12	+ 2 6.3	1.630	0.786	28.7	20.0	22 W	—	11*
6 5	4 18.74	+ 2 49.0	1.563	0.720	30.9	19.8	21 W	—	10*
6 10	4 45.86	+ 3 43.3	1.496	0.650	33.0	19.5	20 W	—	9*
6 15	5 15.89	+ 4 55.3	1.432	0.575	34.9	19.2	19 W	—	6*
6 20	5 49.21	+ 6 34.1	1.371	0.496	36.6	18.8	17 W	—	3*
6 22	6 3.52	+ 7 24.0	1.347	0.464	37.2	18.7	16 E	—	1*
6 24	6 18.41	+ 8 21.8	1.323	0.433	37.8	18.5	15 E	—	2*
6 26	6 33.85	+ 9 28.9	1.299	0.402	38.6	18.3	14 E	—	3*
6 28	6 49.80	+10 47.1	1.275	0.372	39.6	18.2	14 E	—	4*
6 30	7 6.16	+12 18.4	1.250	0.345	41.3	18.0	13 E	—	5*
7 2	7 22.77	+14 4.5	1.224	0.322	43.9	17.9	13 E	—	6*
7 4	7 39.37	+16 6.9	1.196	0.305	47.8	17.8	13 E	—	7*
7 6	7 55.60	+18 25.4	1.166	0.294	53.1	17.8	13 E	—	7*
7 8	8 11.08	+20 57.8	1.133	0.293	59.6	17.9	14 E	2*	7*
7 10	8 25.50	+23 39.9	1.099	0.300	66.3	18.1	16 E	5*	7*
7 11	8 32.26	+25 3.0	1.082	0.306	69.6	18.2	16 E	7*	7*
7 12	8 38.71	+26 26.6	1.065	0.315	72.7	18.4	17 E	8*	6*
7 13	8 44.86	+27 50.1	1.048	0.325	75.5	18.5	18 E	10*	6*
7 14	8 50.74	+29 13.0	1.031	0.336	78.1	18.6	19 E	11*	5*
7 15	8 56.36	+30 35.1	1.014	0.348	80.5	18.8	20 E	12*	5*
7 16	9 1.76	+31 55.9	0.998	0.362	82.5	18.9	21 E	14*	4*
7 17	9 6.96	+33 15.2	0.982	0.376	84.3	19.0	22 E	15*	4*
7 18	9 11.99	+34 32.9	0.967	0.390	85.9	19.1	23 E	16*	3*

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7 19	9 16.88	+35 48.9	0.952	0.405	87.3	19.2	23 E	17*	2*
7 20	9 21.66	+37 3.2	0.937	0.421	88.4	19.3	24 E	18*	2*
7 22	9 31.01	+39 26.3	0.908	0.452	90.2	19.5	26 E	20*	—
7 24	9 40.21	+41 42.2	0.881	0.484	91.4	19.6	28 E	22*	—
7 26	9 49.47	+43 51.3	0.855	0.516	92.2	19.7	31 E	24*	—
7 28	9 58.93	+45 53.8	0.831	0.547	92.6	19.8	33 E	26*	—
7 30	10 8.76	+47 50.0	0.807	0.578	92.8	19.8	35 E	28*	—
8 1	10 19.13	+49 40.0	0.784	0.609	92.7	19.9	37 E	30*	—
8 3	10 30.18	+51 24.1	0.761	0.639	92.5	19.9	39 E	32*	—
8 5	10 42.08	+53 2.0	0.740	0.668	92.1	19.9	41 E	33*	—
8 7	10 55.00	+54 33.7	0.718	0.696	91.6	19.9	43 E	35*	—
8 9	11 9.11	+55 58.7	0.698	0.723	91.0	19.9	46 E	37*	—
8 11	11 24.58	+57 16.4	0.678	0.750	90.3	19.9	48 E	39*	—
8 13	11 41.56	+58 25.7	0.658	0.776	89.5	19.9	50 E	41*	—
8 15	12 0.17	+59 25.3	0.639	0.801	88.6	19.9	52 E	43*	—
8 17	12 20.51	+60 13.7	0.621	0.826	87.6	19.8	55 E	45*	—
8 19	12 42.53	+60 49.0	0.603	0.850	86.5	19.8	57 E	47*	—
8 20	12 54.15	+61 1.0	0.595	0.861	86.0	19.8	58 E	48*	—
8 21	13 6.12	+61 8.9	0.586	0.873	85.4	19.7	59 E	50*	—
8 22	13 18.43	+61 12.5	0.578	0.884	84.8	19.7	61 E	51*	—
8 23	13 31.01	+61 11.4	0.570	0.895	84.2	19.7	62 E	52*	—
8 24	13 43.81	+61 5.4	0.562	0.906	83.5	19.7	63 E	53*	—
8 25	13 56.77	+60 54.3	0.555	0.917	82.8	19.6	64 E	55*	—
8 26	14 9.82	+60 37.9	0.548	0.928	82.1	19.6	65 E	56*	—
8 27	14 22.89	+60 16.1	0.541	0.938	81.4	19.6	67 E	57*	—
8 28	14 35.90	+59 48.7	0.534	0.948	80.7	19.5	68 E	59*	1*
8 29	14 48.80	+59 15.6	0.528	0.958	79.9	19.5	69 E	60*	2*
8 30	15 1.51	+58 36.9	0.522	0.968	79.1	19.5	70 E	62*	3*
8 31	15 13.97	+57 52.6	0.516	0.978	78.3	19.5	72 E	63*	4*
9 1	15 26.13	+57 2.8	0.511	0.988	77.5	19.4	73 E	65*	5*
9 2	15 37.95	+56 7.7	0.506	0.997	76.7	19.4	74 E	66*	6*
9 3	15 49.40	+55 7.3	0.501	1.006	75.8	19.4	75 E	68*	7*
9 4	16 0.45	+54 2.0	0.497	1.016	75.0	19.3	77 E	69*	9*
9 5	16 11.08	+52 51.9	0.494	1.025	74.1	19.3	78 E	71*	10*
9 6	16 21.29	+51 37.5	0.490	1.034	73.2	19.3	79 E	72*	12*
9 7	16 31.07	+50 18.9	0.488	1.042	72.3	19.3	80 E	74*	13*
9 8	16 40.43	+48 56.5	0.485	1.051	71.4	19.2	81 E	75*	14*
9 10	16 57.93	+46 1.9	0.482	1.068	69.6	19.2	84 E	78*	18*
9 12	17 13.87	+42 56.7	0.481	1.084	67.9	19.2	86 E	79*	21*
9 14	17 28.40	+39 43.9	0.483	1.099	66.1	19.2	88 E	80*	24*
9 16	17 41.66	+36 26.6	0.486	1.114	64.5	19.2	90 E	79*	27*
9 18	17 53.79	+33 7.8	0.491	1.129	62.9	19.2	91 E	77*	31*
9 20	18 4.93	+29 50.1	0.499	1.143	61.4	19.2	93 E	74*	34*
9 22	18 15.19	+26 35.8	0.509	1.156	60.0	19.2	94 E	71*	37*
9 24	18 24.70	+23 27.0	0.521	1.169	58.8	19.2	95 E	68*	41*
9 26	18 33.54	+20 25.1	0.534	1.181	57.6	19.3	96 E	65*	44*
9 28	18 41.79	+17 31.2	0.549	1.193	56.6	19.3	96 E	63*	46*
9 30	18 49.54	+14 46.0	0.566	1.205	55.7	19.4	96 E	60	49*
10 2	18 56.83	+12 10.0	0.585	1.215	54.9	19.5	97 E	57	52*
10 4	19 3.74	+ 9 43.3	0.604	1.226	54.2	19.5	97 E	55	54*
10 6	19 10.30	+ 7 25.8	0.625	1.236	53.5	19.6	96 E	52	56*
10 8	19 16.55	+ 5 17.3	0.647	1.245	52.9	19.7	96 E	50	58*
10 13	19 31.10	+ 0 33.2	0.706	1.267	51.7	19.9	95 E	46	63*
10 18	19 44.43	− 3 23.6	0.770	1.286	50.7	20.1	93 E	42	66*
10 23	19 56.86	− 6 40.2	0.836	1.301	49.9	20.2	90 E	38	68*
10 28	20 8.61	− 9 23.4	0.904	1.315	49.0	20.4	88 E	36	69*
11 2	20 19.83	−11 38.9	0.973	1.325	48.2	20.6	85 E	33	69*
11 7	20 30.67	−13 31.7	1.042	1.333	47.4	20.7	82 E	31	68*
11 12	20 41.21	−15 5.4	1.110	1.338	46.6	20.8	79 E	30	66*
11 17	20 51.53	−16 23.3	1.176	1.340	45.7	20.9	76 E	29	64*
11 22	21 1.71	−17 27.8	1.241	1.340	44.8	21.0	73 E	28*	61*
11 27	21 11.77	−18 21.1	1.302	1.337	43.9	21.1	70 E	27*	58*
12 2	21 21.74	−19 4.7	1.361	1.332	42.9	21.2	67 E	26*	56*
12 7	21 31.67	−19 40.0	1.416	1.324	42.0	21.2	64 E	25*	53*
12 12	21 41.58	−20 8.2	1.468	1.313	41.0	21.2	61 E	24*	50*
12 17	21 51.50	−20 30.1	1.514	1.299	40.0	21.3	58 E	24*	47*
12 22	22 1.46	−20 46.5	1.556	1.283	39.1	21.3	55 E	23*	44*
12 27	22 11.46	−20 58.1	1.593	1.264	38.1	21.2	52 E	22*	42*
1 1	22 21.54	−21 5.5	1.624	1.242	37.2	21.2	50 E	21*	39*
1 6	22 31.71	−21 9.1	1.649	1.217	36.3	21.2	47 E	20*	37*
1 11	22 41.99	−21 9.2	1.668	1.189	35.5	21.1	45 E	19*	35*
1 16	22 52.43	−21 6.0	1.680	1.158	34.8	21.1	42 E	18*	33*

385408 2002 XW_{64}

12 23	20 22.42	−32 45.3	2.545	1.789	17.0	21.0	32 E	4*	26*
1 2	20 51.28	−31 34.5	2.556	1.760	15.6	20.9	29 E	4*	23*
1 12	21 20.37	−30 2.4	2.562	1.732	14.4	20.8	26 E	3*	20*
1 22	21 49.46	−28 9.8	2.565	1.707	13.2	20.8	23 E	2*	17*
2 1	22 18.39	−25 57.8	2.565	1.684	12.2	20.7	21 E	—	15*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
385408 2002 XW_{64} *(continuation)*									
2 11	22 47.01	−23 28.4	2.563	1.663	11.3	20.6	19 E	—	13*
2 21	23 15.26	−20 43.8	2.561	1.646	10.5	20.6	18 E	—	11*
3 2	23 43.09	−17 47.0	2.558	1.631	9.8	20.5	16 E	—	10*
3 12	0 10.50	−14 41.0	2.557	1.620	9.3	20.5	15 E	—	8*
3 22	0 37.51	−11 29.0	2.558	1.612	8.9	20.5	14 E	—	6*
4 1	1 4.18	− 8 14.3	2.560	1.608	8.6	20.5	14 E	—	5*
4 11	1 30.55	− 5 0.3	2.563	1.607	8.5	20.5	14 E	—	2*
4 21	1 56.67	− 1 49.8	2.569	1.610	8.5	20.5	14 E	—	—
5 1	2 22.60	+ 1 14.3	2.575	1.616	8.7	20.5	14 W	—	2*
5 11	2 48.35	+ 4 9.5	2.581	1.626	9.2	20.5	15 W	—	5*
5 21	3 13.98	+ 6 53.9	2.587	1.639	9.9	20.6	16 W	—	8*
5 31	3 39.49	+ 9 25.7	2.591	1.655	10.8	20.6	18 W	—	11*
6 10	4 4.86	+11 43.9	2.593	1.674	11.9	20.7	20 W	—	14*
6 20	4 30.07	+13 47.8	2.592	1.696	13.1	20.8	22 W	—	16*
6 30	4 55.08	+15 36.9	2.586	1.720	14.5	20.9	25 W	4*	18*
7 10	5 19.83	+17 11.4	2.576	1.747	15.9	20.9	28 W	9*	20*
7 20	5 44.24	+18 32.0	2.560	1.775	17.4	21.0	32 W	14*	22*
7 30	6 8.23	+19 39.4	2.537	1.806	18.9	21.1	35 W	19*	23*
8 9	6 31.71	+20 35.0	2.507	1.838	20.4	21.1	39 W	25*	24*
8 19	6 54.59	+21 20.3	2.470	1.871	21.9	21.2	44 W	31*	25*
8 29	7 16.76	+21 57.3	2.425	1.905	23.2	21.2	48 W	36*	26*
9 8	7 38.11	+22 28.1	2.372	1.940	24.5	21.3	53 W	42*	27*
9 18	7 58.56	+22 55.4	2.312	1.976	25.6	21.3	58 W	48*	28*
9 28	8 17.96	+23 21.9	2.244	2.012	26.5	21.3	64 W	53*	29*
10 8	8 36.20	+23 50.8	2.170	2.049	27.2	21.3	70 W	59*	30*
10 18	8 53.12	+24 25.4	2.090	2.086	27.6	21.2	76 W	64*	31*
10 28	9 8.50	+25 9.5	2.006	2.122	27.7	21.2	83 W	69*	32*
11 7	9 22.13	+26 6.8	1.919	2.159	27.3	21.1	90 W	71*	33*
11 17	9 33.71	+27 21.0	1.832	2.196	26.5	21.0	98 W	72	34*
11 27	9 42.85	+28 55.5	1.748	2.232	25.1	20.9	106 W	74	34*
12 7	9 49.14	+30 52.0	1.670	2.269	23.2	20.8	115 W	76	33*
12 17	9 52.09	+33 10.1	1.602	2.304	20.7	20.7	124 W	78	31
12 27	9 51.25	+35 45.3	1.549	2.340	17.7	20.5	134 W	81	28
1 6	9 46.37	+38 28.2	1.516	2.374	14.6	20.4	143 W	83	26
1 16	9 37.57	+41 5.1	1.507	2.408	11.8	20.3	150 W	86	23
120450 1982 *SV*									
12 23	20 23.81	− 6 6.9	3.173	2.475	14.2	21.2	38 E	28*	17*
1 2	20 41.02	− 5 49.6	3.207	2.435	12.5	21.1	32 E	25*	11*
1 12	20 58.79	− 5 21.3	3.229	2.394	10.7	21.0	27 E	20*	5*
1 22	21 17.07	− 4 42.6	3.239	2.353	8.9	20.9	22 E	16*	1*
2 1	21 35.79	− 3 54.2	3.237	2.311	7.1	20.8	17 E	11*	—
2 11	21 54.90	− 2 57.0	3.222	2.268	5.4	20.7	12 E	6*	—
2 21	22 14.38	− 1 51.9	3.197	2.226	4.0	20.5	9 E	—	—
3 2	22 34.23	− 0 39.9	3.160	2.182	3.6	20.4	8 W	2*	—
3 12	22 54.45	+ 0 37.8	3.112	2.139	4.4	20.4	10 W	3*	—
3 22	23 15.07	+ 1 59.9	3.055	2.095	6.0	20.4	13 W	4*	5*
4 1	23 36.13	+ 3 25.1	2.990	2.051	7.9	20.4	16 W	5*	9*
4 11	23 57.68	+ 4 51.8	2.916	2.008	10.0	20.4	20 W	6*	14*
4 21	0 19.77	+ 6 18.6	2.836	1.964	12.2	20.4	24 W	6*	18*
5 1	0 42.48	+ 7 43.5	2.750	1.922	14.3	20.3	28 W	7*	21*
5 11	1 5.88	+ 9 4.7	2.660	1.880	16.5	20.3	32 W	9*	25*
5 21	1 30.04	+10 20.1	2.566	1.839	18.6	20.2	35 W	10*	28*
5 31	1 55.01	+11 27.2	2.470	1.799	20.8	20.2	39 W	12*	31*
6 10	2 20.83	+12 23.6	2.373	1.760	22.8	20.1	42 W	14*	34*
6 20	2 47.53	+13 6.8	2.276	1.724	24.9	20.0	45 W	17*	36*
6 30	3 15.07	+13 33.8	2.181	1.689	26.8	19.9	49 W	20*	38*
7 10	3 43.37	+13 42.1	2.088	1.657	28.7	19.9	51 W	23*	39*
7 20	4 12.33	+13 29.4	1.999	1.628	30.4	19.8	54 W	26*	41*
7 30	4 41.74	+12 53.6	1.913	1.602	32.0	19.7	57 W	30*	42*
8 9	5 11.38	+11 53.6	1.834	1.579	33.5	19.6	59 W	33*	43*
8 19	5 40.97	+10 29.2	1.759	1.561	34.8	19.5	62 W	36*	45*
8 29	6 10.22	+ 8 41.3	1.691	1.546	36.0	19.5	64 W	38*	46*
9 8	6 38.84	+ 6 31.8	1.628	1.536	37.0	19.4	67 W	40*	48*
9 18	7 6.57	+ 4 3.9	1.571	1.530	37.8	19.3	69 W	41*	50*
9 28	7 33.15	+ 1 21.3	1.518	1.529	38.4	19.3	71 W	41*	53*
10 8	7 58.37	− 1 31.4	1.469	1.533	38.8	19.2	74 W	41*	55*
10 18	8 22.04	− 4 29.7	1.423	1.541	39.0	19.2	77 W	39*	58*
10 23	8 33.23	− 5 59.5	1.401	1.547	39.1	19.1	78 W	39*	60*
10 28	8 43.95	− 7 28.9	1.379	1.554	39.0	19.1	80 W	37*	62*
11 2	8 54.20	− 8 57.4	1.356	1.562	39.0	19.1	82 W	36	64*
11 7	9 3.93	−10 24.4	1.334	1.571	38.8	19.1	84 W	35	66*
11 12	9 13.13	−11 49.5	1.312	1.581	38.6	19.0	86 W	33	69*
11 17	9 21.75	−13 12.0	1.289	1.592	38.4	19.0	88 W	32	71*
11 22	9 29.75	−14 31.3	1.267	1.604	38.0	19.0	90 W	30	74*
11 27	9 37.11	−15 46.9	1.243	1.616	37.6	18.9	92 W	29	76*
12 2	9 43.78	−16 58.1	1.220	1.630	37.1	18.9	95 W	28	79*
12 7	9 49.72	−18 4.4	1.196	1.644	36.5	18.9	97 W	27	82*
12 12	9 54.88	−19 4.9	1.173	1.659	35.7	18.8	100 W	26	83
12 17	9 59.21	−19 59.0	1.149	1.675	34.9	18.8	103 W	25	84
12 22	10 2.67	−20 45.5	1.125	1.691	33.9	18.7	106 W	24	85

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
120450 1982 *SV* *(continuation)*									
12 27	10 5.21	−21 23.5	1.101	1.708	32.8	18.7	110 W	24	85
1 1	10 6.82	−21 52.1	1.079	1.726	31.5	18.6	114 W	23	86
1 6	10 7.48	−22 10.1	1.057	1.744	30.0	18.5	117 W	23	86
1 11	10 7.18	−22 16.4	1.037	1.763	28.4	18.5	121 W	23	86
1 16	10 5.96	−22 9.7	1.018	1.782	26.6	18.4	126 W	23	86
1293 Sonja									
12 23	20 23.86	−15 30.9	2.339	1.622	19.9	17.4	34 E	20*	20*
1 2	20 52.15	−13 48.1	2.378	1.617	18.3	17.4	31 E	19*	17*
1 12	21 20.20	−11 50.3	2.416	1.615	16.6	17.3	28 E	18*	13*
1 22	21 47.94	− 9 39.7	2.454	1.616	14.9	17.3	25 E	17*	10*
2 1	22 15.32	− 7 18.7	2.491	1.620	13.2	17.3	22 E	15*	7*
2 11	22 42.31	− 4 50.0	2.528	1.628	11.4	17.3	19 E	12*	4*
2 21	23 8.91	− 2 16.3	2.565	1.638	9.6	17.2	16 E	10*	2*
3 2	23 35.17	+ 0 19.6	2.601	1.651	7.8	17.2	13 E	7*	—
3 12	0 1.11	+ 2 55.0	2.635	1.666	6.0	17.2	10 E	4*	—
3 22	0 26.79	+ 5 27.6	2.669	1.685	4.2	17.1	7 E	1*	—
4 1	0 52.25	+ 7 55.1	2.700	1.705	2.5	17.1	4 E	—	—
4 11	1 17.52	+10 15.4	2.729	1.728	1.1	17.0	2 W	—	—
4 21	1 42.63	+12 26.7	2.755	1.752	1.9	17.1	3 W	—	—
5 1	2 7.61	+14 27.6	2.777	1.779	3.6	17.3	6 W	—	—
5 11	2 32.43	+16 16.6	2.794	1.806	5.4	17.5	10 W	—	3*
5 21	2 57.08	+17 52.8	2.807	1.835	7.2	17.6	13 W	1*	7*
5 31	3 21.52	+19 15.5	2.813	1.865	9.0	17.7	17 W	3*	10*
6 10	3 45.67	+20 24.2	2.813	1.896	10.8	17.8	21 W	5*	13*
6 20	4 9.48	+21 18.7	2.807	1.928	12.6	17.9	24 W	8*	16*
6 30	4 32.85	+21 59.1	2.792	1.960	14.3	18.0	29 W	12*	19*
7 10	4 55.65	+22 25.7	2.770	1.993	16.0	18.1	33 W	16*	21*
7 20	5 17.81	+22 39.0	2.740	2.026	17.7	18.1	37 W	21*	24*
7 30	5 39.18	+22 40.0	2.700	2.059	19.2	18.2	42 W	26*	26*
8 9	5 59.65	+22 29.6	2.653	2.092	20.6	18.2	47 W	32*	28*
8 19	6 19.11	+22 8.9	2.596	2.124	22.0	18.3	52 W	37*	30*
8 29	6 37.40	+21 39.3	2.531	2.157	23.2	18.3	57 W	43*	32*
9 8	6 54.40	+21 2.3	2.457	2.189	24.2	18.3	63 W	49*	34*
9 18	7 9.96	+20 19.5	2.376	2.221	25.0	18.3	69 W	54*	36*
9 28	7 23.87	+19 32.6	2.287	2.253	25.5	18.2	75 W	58*	39*
10 8	7 35.96	+18 43.4	2.194	2.284	25.7	18.2	82 W	62*	41*
10 18	7 45.98	+17 54.0	2.096	2.314	25.5	18.1	90 W	63*	44*
10 28	7 53.65	+17 6.5	1.996	2.344	24.8	18.0	98 W	62	46*
11 7	7 58.68	+16 23.0	1.897	2.374	23.6	17.9	106 W	61	48*
11 17	8 0.77	+15 45.6	1.802	2.402	21.8	17.7	116 W	61	48
11 27	7 59.65	+15 16.4	1.717	2.430	19.2	17.6	126 W	60	49
12 7	7 55.25	+14 56.9	1.644	2.457	15.9	17.4	137 W	60	49
12 17	7 47.74	+14 47.6	1.590	2.483	11.9	17.2	149 W	60	49
12 27	7 37.70	+14 48.2	1.560	2.509	7.5	17.0	161 W	60	49
1 6	7 26.17	+14 57.0	1.557	2.533	3.4	16.8	171 W	60	49
1 16	7 14.45	+15 11.8	1.583	2.557	4.0	16.9	170 E	60	49
179879 2002 *UB*									
12 23	20 23.90	− 3 59.0	2.276	1.637	22.4	21.4	39 E	30*	16*
1 2	20 51.18	− 3 0.2	2.342	1.653	20.5	21.5	36 E	28*	12*
1 12	21 18.02	− 1 50.2	2.407	1.668	18.7	21.5	33 E	26*	8*
1 22	21 44.39	− 0 30.7	2.469	1.684	16.7	21.5	30 E	23*	5*
2 1	22 10.28	+ 0 56.4	2.528	1.700	14.8	21.5	26 E	20*	2*
2 11	22 35.71	+ 2 29.2	2.584	1.715	12.7	21.5	23 E	17*	—
2 21	23 0.71	+ 4 5.6	2.635	1.730	10.7	21.5	19 E	13*	—
3 2	23 25.34	+ 5 43.9	2.680	1.745	8.7	21.4	15 E	9*	—
3 12	23 49.62	+ 7 22.2	2.719	1.759	6.7	21.4	12 E	5*	—
3 22	0 13.65	+ 8 58.9	2.752	1.773	4.8	21.4	9 E	1*	—
4 1	0 37.46	+10 32.3	2.776	1.786	3.4	21.3	6 W	—	—
4 11	1 1.10	+12 0.9	2.793	1.798	3.2	21.3	6 W	—	—
4 21	1 24.63	+13 23.2	2.801	1.810	4.3	21.4	8 W	—	—
42501 1992 *YC*									
12 23	20 24.12	− 2 29.7	2.518	1.877	19.8	19.3	40 E	31*	15*
1 2	20 46.43	− 0 55.0	2.543	1.847	18.5	19.2	36 E	29*	10*
1 12	21 9.40	+ 0 51.9	2.562	1.819	17.2	19.1	33 E	27*	5*
1 22	21 33.00	+ 2 49.9	2.576	1.792	15.9	19.1	30 E	24*	1*
2 1	21 57.21	+ 4 58.1	2.585	1.766	14.7	19.0	27 E	21*	—
2 11	22 21.99	+ 7 14.6	2.592	1.743	13.6	19.0	25 E	18*	—
2 21	22 47.37	+ 9 37.4	2.596	1.721	12.5	18.9	22 E	14*	—
3 2	23 13.37	+12 4.1	2.599	1.702	11.5	18.8	20 E	11*	—
3 12	23 40.00	+14 31.8	2.601	1.685	10.5	18.8	18 E	9*	—
3 22	0 7.29	+16 57.3	2.603	1.670	9.7	18.7	16 E	6*	—
4 1	0 35.27	+19 17.4	2.605	1.659	8.9	18.7	15 W	6*	—
4 11	1 3.91	+21 28.7	2.606	1.650	8.2	18.6	14 W	6*	—
4 21	1 33.21	+23 28.0	2.609	1.644	7.8	18.6	13 W	6*	—
5 1	2 3.08	+25 12.1	2.611	1.641	7.6	18.6	12 W	6*	—
5 11	2 33.41	+26 38.3	2.613	1.641	7.7	18.6	13 W	6*	—
5 21	3 4.04	+27 44.3	2.613	1.645	8.1	18.6	13 W	7*	—
5 31	3 34.75	+28 28.6	2.613	1.651	8.9	18.7	15 W	7*	2*
6 10	4 5.31	+28 50.0	2.610	1.661	9.9	18.7	16 W	8*	5*

42501 1992 *YC* *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
6 20	4 35.47	+28 48.4	2.604	1.673	11.2	18.8	19 W	9*	7*
6 30	5 4.98	+28 24.0	2.595	1.688	12.6	18.9	21 W	11*	9*
7 10	5 33.60	+27 37.9	2.581	1.705	14.1	18.9	24 W	14*	11*
7 20	6 1.19	+26 31.3	2.563	1.725	15.7	19.0	27 W	16*	14*
7 30	6 27.56	+25 5.9	2.540	1.747	17.3	19.0	31 W	20*	16*
8 9	6 52.64	+23 23.6	2.511	1.771	18.9	19.1	35 W	23*	19*
8 19	7 16.36	+21 26.1	2.475	1.797	20.5	19.2	38 W	27*	21*
8 29	7 38.68	+19 15.2	2.434	1.824	22.0	19.2	43 W	31*	24*
9 8	7 59.57	+16 52.6	2.386	1.853	23.5	19.2	47 W	35*	27*
9 18	8 19.03	+14 19.9	2.332	1.883	24.8	19.3	52 W	38*	31*
9 28	8 37.01	+11 38.5	2.271	1.914	25.9	19.3	57 W	42*	34*
10 8	8 53.47	+ 8 49.7	2.205	1.945	26.9	19.3	62 W	44*	38*
10 18	9 8.34	+ 5 54.6	2.133	1.978	27.7	19.3	67 W	46*	43*
10 28	9 21.50	+ 2 54.6	2.057	2.011	28.2	19.2	73 W	46*	48*
11 7	9 32.80	− 0 9.0	1.977	2.044	28.5	19.2	79 W	45*	54*
11 17	9 42.03	− 3 14.8	1.896	2.077	28.4	19.1	86 W	42	60*
11 27	9 48.90	− 6 20.6	1.814	2.110	27.8	19.1	93 W	39	67*
12 7	9 53.13	− 9 23.5	1.734	2.144	26.9	19.0	100 W	36	73*
12 17	9 54.38	−12 19.6	1.659	2.177	25.4	18.9	108 W	33	76
12 22	9 53.79	−13 43.2	1.625	2.193	24.5	18.8	112 W	31	78
12 27	9 52.37	−15 2.8	1.593	2.210	23.5	18.7	116 W	30	79
1 1	9 50.11	−16 17.4	1.563	2.226	22.4	18.7	120 W	29	80
1 6	9 47.01	−17 26.0	1.537	2.243	21.3	18.6	124 W	28	81
1 11	9 43.11	−18 27.3	1.515	2.259	20.0	18.6	128 W	27	82
1 16	9 38.47	−19 20.2	1.497	2.275	18.8	18.5	132 W	26	83

11398 1998 YP_{11}

12 23	20 24.43	−19 2.7	2.340	1.611	19.6	20.2	33 E	17*	22*
12 28	20 38.84	−18 36.0	2.392	1.638	18.3	20.2	32 E	16*	20*
1 2	20 52.87	−18 5.4	2.443	1.664	17.1	20.3	30 E	16*	18*
1 7	21 6.53	−17 31.4	2.493	1.690	15.9	20.3	28 E	15*	17*
1 12	21 19.83	−16 54.3	2.543	1.716	14.7	20.3	26 E	14*	15*
1 22	21 45.42	−15 32.6	2.637	1.766	12.2	20.4	22 E	12*	12*
2 1	22 9.78	−14 3.1	2.724	1.815	9.8	20.4	18 E	9*	9*
2 11	22 33.04	−12 28.3	2.803	1.862	7.5	20.4	14 E	5*	6*
2 21	22 55.33	−10 50.2	2.873	1.907	5.2	20.4	10 E	1*	3*
3 2	23 16.77	− 9 10.6	2.932	1.950	3.3	20.4	6 E	—	—
3 12	23 37.45	− 7 31.1	2.980	1.992	2.3	20.4	5 E	—	—
3 22	23 57.47	− 5 53.2	3.017	2.031	3.3	20.6	7 W	—	—
4 1	0 16.91	− 4 17.9	3.041	2.068	5.2	20.7	11 W	—	4*
4 11	0 35.82	− 2 46.6	3.053	2.103	7.3	20.9	15 W	—	8*
4 21	0 54.26	− 1 20.1	3.052	2.137	9.3	21.0	20 W	—	14*
5 1	1 12.25	+ 0 0.7	3.038	2.168	11.4	21.1	25 W	—	19*
5 11	1 29.82	+ 1 14.7	3.011	2.197	13.3	21.2	30 W	—	24*
5 21	1 46.96	+ 2 21.2	2.972	2.224	15.2	21.2	35 W	1*	29*
5 31	2 3.66	+ 3 19.5	2.920	2.249	17.0	21.3	41 W	4*	34*
6 10	2 19.87	+ 4 8.7	2.857	2.272	18.7	21.3	46 W	8*	39*
6 20	2 35.57	+ 4 48.1	2.783	2.293	20.3	21.3	51 W	13*	44*
6 30	2 50.64	+ 5 16.9	2.699	2.312	21.7	21.3	57 W	18*	48*
7 10	3 4.99	+ 5 34.5	2.605	2.328	22.9	21.3	63 W	24*	52*
7 20	3 18.49	+ 5 40.1	2.502	2.343	23.9	21.3	69 W	30*	54*
7 30	3 30.96	+ 5 33.0	2.393	2.356	24.7	21.2	76 W	36*	57*
8 9	3 42.19	+ 5 12.6	2.278	2.367	25.1	21.1	82 W	41*	58*
8 19	3 51.93	+ 4 38.2	2.159	2.375	25.2	21.0	89 W	45*	59*
8 29	3 59.85	+ 3 49.3	2.039	2.382	24.9	20.9	97 W	48*	60
9 8	4 5.62	+ 2 46.1	1.920	2.387	24.1	20.7	105 W	48	61
9 18	4 8.85	+ 1 28.8	1.806	2.389	22.7	20.6	113 W	46	63
9 28	4 9.14	− 0 0.9	1.699	2.390	20.8	20.4	122 W	45	64
10 8	4 6.20	− 1 39.8	1.605	2.388	18.2	20.2	132 W	43	66
10 13	4 3.46	− 2 31.0	1.564	2.387	16.8	20.1	136 W	42	67
10 18	3 59.88	− 3 22.2	1.527	2.385	15.3	20.0	141 W	42	67
10 23	3 55.50	− 4 12.3	1.496	2.383	13.8	19.9	145 W	41	68
10 28	3 50.39	− 5 0.0	1.471	2.380	12.4	19.8	149 W	40	69
11 2	3 44.67	− 5 43.9	1.452	2.376	11.2	19.7	152 W	39	70
11 7	3 38.46	− 6 22.9	1.440	2.372	10.4	19.6	154 W	39	70
11 12	3 31.93	− 6 55.8	1.434	2.368	10.3	19.6	155 W	38	71
11 17	3 25.25	− 7 21.4	1.436	2.363	10.7	19.6	154 E	38	71
11 22	3 18.62	− 7 39.0	1.443	2.357	11.7	19.7	151 E	37	72
11 27	3 12.25	− 7 48.3	1.458	2.351	13.0	19.7	148 E	37	72
12 7	3 0.88	− 7 42.0	1.505	2.338	16.1	19.9	139 E	37	72
12 17	2 52.16	− 7 5.3	1.572	2.322	19.2	20.1	129 E	38	71
12 27	2 46.68	− 6 3.5	1.656	2.304	21.8	20.3	119 E	39	70
1 1	2 45.19	− 5 25.2	1.702	2.295	22.9	20.3	115 E	40	69
1 6	2 44.52	− 4 43.0	1.750	2.285	23.8	20.4	110 E	40	69
1 11	2 44.64	− 3 57.6	1.800	2.274	24.6	20.5	106 E	41	68
1 16	2 45.53	− 3 9.5	1.851	2.263	25.2	20.6	102 E	42	67*

16960 1998 QS_{52}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	20 24.57	− 6 42.1	4.667	3.939	8.8	21.2	38 E	28*	17*
1 2	20 33.38	− 6 17.8	4.774	3.960	7.3	21.2	31 E	23*	9*
1 12	20 42.41	− 5 47.6	4.861	3.979	5.7	21.2	24 E	17*	2*
1 22	20 51.54	− 5 11.9	4.926	3.997	4.2	21.1	17 E	11*	—
2 1	21 0.68	− 4 31.2	4.968	4.014	3.2	21.1	13 E	4*	—
2 11	21 9.72	− 3 46.0	4.987	4.028	3.0	21.1	12 W	6*	—
2 21	21 18.56	− 2 56.7	4.983	4.042	3.9	21.2	16 W	9*	3*
3 2	21 27.13	− 2 4.0	4.957	4.053	5.2	21.2	22 W	12*	11*
3 12	21 35.31	− 1 8.5	4.909	4.064	6.7	21.3	29 W	15*	19*
3 22	21 43.03	− 0 10.6	4.840	4.072	8.2	21.3	36 W	18*	26*
4 1	21 50.17	+ 0 48.9	4.751	4.079	9.6	21.4	43 W	21*	34*
4 11	21 56.64	+ 1 49.3	4.645	4.085	10.9	21.4	51 W	24*	41*
4 21	22 2.33	+ 2 50.0	4.524	4.089	12.1	21.4	58 W	28*	47*
5 1	22 7.09	+ 3 50.1	4.388	4.091	13.0	21.3	66 W	31*	53*
5 11	22 10.81	+ 4 48.6	4.243	4.092	13.8	21.3	75 W	35*	57*
5 21	22 13.34	+ 5 44.6	4.090	4.092	14.2	21.2	83 W	39*	58*
5 31	22 14.51	+ 6 36.6	3.933	4.090	14.3	21.1	92 W	44*	57
6 10	22 14.19	+ 7 23.1	3.776	4.086	14.1	21.0	101 W	48*	57
6 20	22 12.23	+ 8 2.5	3.624	4.081	13.6	20.9	110 W	52*	56
6 30	22 8.55	+ 8 32.6	3.480	4.074	12.6	20.8	119 W	54	55
7 10	22 3.14	+ 8 51.4	3.350	4.066	11.2	20.7	129 W	54	55
7 20	21 56.08	+ 8 56.8	3.239	4.057	9.5	20.5	139 W	54	55
7 30	21 47.62	+ 8 47.3	3.151	4.045	7.7	20.4	148 W	54	55
8 9	21 38.16	+ 8 22.4	3.090	4.033	6.1	20.3	155 W	53	56
8 19	21 28.25	+ 7 42.9	3.059	4.018	5.3	20.2	159 E	53	56
8 29	21 18.51	+ 6 50.9	3.060	4.002	5.9	20.2	156 E	52	57
9 8	21 9.56	+ 5 50.2	3.090	3.985	7.6	20.3	149 E	51	58
9 18	21 1.91	+ 4 44.8	3.149	3.966	9.5	20.4	139 E	50	59
9 28	20 55.93	+ 3 39.2	3.233	3.945	11.3	20.5	129 E	49	60
10 8	20 51.85	+ 2 36.9	3.335	3.923	12.8	20.6	119 E	48	61
10 18	20 49.70	+ 1 40.9	3.452	3.899	13.9	20.7	109 E	47	62
10 28	20 49.44	+ 0 53.1	3.578	3.873	14.6	20.8	100 E	46	63*
11 7	20 50.95	+ 0 14.7	3.708	3.846	14.9	20.9	90 E	45	60*
11 17	20 54.04	− 0 13.7	3.836	3.817	14.8	21.0	81 E	45	54*
11 27	20 58.55	− 0 31.9	3.960	3.786	14.4	21.0	73 E	44*	47*
12 7	21 4.27	− 0 40.1	4.075	3.754	13.7	21.0	64 E	43*	38*
12 17	21 11.03	− 0 38.5	4.177	3.720	12.7	21.0	56 E	41*	30*
12 27	21 18.67	− 0 27.5	4.265	3.684	11.5	21.0	48 E	37*	22*
1 6	21 27.04	− 0 7.6	4.335	3.646	10.1	20.9	41 E	32*	14*
1 16	21 36.00	+ 0 20.6	4.387	3.606	8.6	20.9	33 E	27*	7*

137062 1998 *WM*

12 23	20 24.67	−33 30.3	1.923	1.217	25.9	19.6	33 E	4*	26*
12 28	20 45.30	−32 12.8	1.957	1.241	25.0	19.7	32 E	5*	26*
1 2	21 4.90	−30 46.6	1.992	1.265	24.1	19.7	32 E	6*	25*
1 7	21 23.51	−29 13.6	2.028	1.288	23.1	19.8	31 E	7*	24*
1 12	21 41.17	−27 35.1	2.065	1.311	22.1	19.8	30 E	7*	23*
1 17	21 57.97	−25 52.5	2.102	1.333	21.1	19.9	29 E	8*	22*
1 22	22 13.99	−24 6.8	2.139	1.354	20.1	19.9	28 E	8*	21*
1 27	22 29.29	−22 19.0	2.176	1.374	19.0	19.9	27 E	8*	20*
2 1	22 43.95	−20 29.8	2.212	1.394	18.0	20.0	26 E	8*	19*
2 6	22 58.03	−18 40.0	2.248	1.413	16.9	20.0	25 E	8*	17*
2 11	23 11.60	−16 49.9	2.283	1.431	15.8	20.0	23 E	8*	16*
2 21	23 37.44	−13 10.9	2.350	1.465	13.7	20.1	20 E	6*	13*
3 2	0 1.89	− 9 35.3	2.411	1.495	11.4	20.1	17 E	4*	11*
3 12	0 25.30	− 6 4.8	2.465	1.522	9.3	20.1	14 E	2*	8*
3 22	0 47.97	− 2 40.4	2.512	1.546	7.1	20.1	11 E	—	5*
4 1	1 10.13	+ 0 37.1	2.549	1.565	5.1	20.0	8 E	—	2*
4 11	1 32.00	+ 3 47.3	2.576	1.582	3.5	20.0	6 E	—	—
4 21	1 53.76	+ 6 50.0	2.593	1.594	3.2	20.0	5 W	—	—
5 1	2 15.58	+ 9 44.9	2.599	1.603	4.3	20.1	7 W	—	—
5 11	2 37.61	+12 31.8	2.594	1.609	6.2	20.2	10 W	—	4*
5 21	3 0.01	+15 10.3	2.579	1.611	8.3	20.3	13 W	—	7*
5 31	3 22.90	+17 40.2	2.552	1.609	10.5	20.3	17 W	1*	10*
6 10	3 46.43	+20 1.0	2.515	1.603	12.8	20.4	20 W	5*	13*
6 20	4 10.74	+22 12.2	2.468	1.595	15.0	20.4	24 W	9*	15*
6 30	4 35.98	+24 12.9	2.412	1.582	17.3	20.4	28 W	13*	17*
7 10	5 2.27	+26 2.2	2.347	1.566	19.6	20.4	31 W	18*	18*
7 20	5 29.78	+27 38.8	2.274	1.546	21.8	20.4	34 W	22*	18*
7 30	5 58.63	+29 1.2	2.194	1.523	24.0	20.3	38 W	27*	18*
8 9	6 28.93	+30 7.2	2.110	1.496	26.3	20.3	41 W	31*	18*
8 14	6 44.67	+30 33.4	2.066	1.482	27.4	20.3	42 W	34*	18*
8 19	7 0.81	+30 54.5	2.021	1.466	28.5	20.2	44 W	35*	17*
8 24	7 17.35	+31 10.2	1.975	1.450	29.6	20.2	45 W	37*	17*
8 29	7 34.30	+31 20.0	1.929	1.432	30.7	20.1	46 W	39*	17*
9 3	7 51.66	+31 23.5	1.883	1.414	31.8	20.1	48 W	41*	16*
9 8	8 9.43	+31 20.2	1.837	1.396	32.9	20.0	49 W	42*	16*
9 13	8 27.60	+31 9.6	1.791	1.376	33.9	20.0	50 W	43*	15*
9 18	8 46.15	+30 51.2	1.746	1.355	35.0	19.9	51 W	44*	15*
9 23	9 5.05	+30 24.4	1.701	1.334	36.1	19.9	52 W	45*	14*
9 28	9 24.28	+29 48.8	1.658	1.312	37.2	19.8	52 W	46*	14*

137062 1998 *WM* *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 3	9 43.80	+29 3.7	1.615	1.290	38.3	19.7	53 W	47*	13*
10 8	10 3.59	+28 8.8	1.574	1.266	39.3	19.7	53 W	47*	13*
10 13	10 23.61	+27 3.6	1.535	1.243	40.4	19.6	54 W	48*	13*
10 18	10 43.81	+25 47.8	1.498	1.218	41.5	19.5	54 W	48*	13*
10 28	11 24.56	+22 43.8	1.430	1.168	43.5	19.4	54 W	48*	13*
11 7	12 5.55	+18 56.5	1.373	1.117	45.5	19.3	53 W	47*	13*
11 17	12 46.59	+14 28.5	1.328	1.065	47.2	19.1	52 W	46*	14*
11 22	13 7.09	+12 0.8	1.311	1.040	48.0	19.1	51 W	44*	15*
11 27	13 27.58	+ 9 25.2	1.296	1.015	48.7	19.0	51 W	43*	16*
12 2	13 48.10	+ 6 42.7	1.285	0.990	49.3	19.0	50 W	41*	17*
12 7	14 8.69	+ 3 54.8	1.277	0.967	49.8	18.9	49 W	39*	18*
12 12	14 29.39	+ 1 2.7	1.273	0.944	50.1	18.9	47 W	37*	20*
12 17	14 50.26	− 1 51.7	1.271	0.923	50.3	18.8	46 W	35*	21*
12 22	15 11.37	− 4 46.8	1.273	0.904	50.3	18.8	45 W	33*	22*
12 27	15 32.80	− 7 40.5	1.278	0.886	50.2	18.7	44 W	30*	24*
1 1	15 54.63	−10 30.8	1.285	0.871	49.8	18.7	43 W	27*	25*
1 6	16 16.93	−13 15.4	1.295	0.859	49.4	18.7	42 W	25*	27*
1 11	16 39.78	−15 52.0	1.308	0.849	48.7	18.7	40 W	22*	28*
1 16	17 3.20	−18 18.0	1.323	0.842	48.0	18.6	40 W	19*	29*

90281 2003 DQ_{15}

12 23	20 25.10	−19 41.6	2.670	1.925	16.3	20.3	33 E	16*	22*
1 2	20 48.60	−18 18.4	2.692	1.890	14.5	20.2	29 E	15*	17*
1 12	21 12.46	−16 41.4	2.706	1.857	12.7	20.2	25 E	13*	13*
1 22	21 36.60	−14 51.1	2.715	1.825	10.9	20.1	20 E	11*	9*
2 1	22 0.97	−12 48.4	2.717	1.795	9.0	19.9	17 E	8*	6*
2 11	22 25.52	−10 34.4	2.715	1.766	7.1	19.8	13 E	5*	3*
2 21	22 50.24	− 8 10.5	2.708	1.739	5.3	19.7	9 E	2*	1*
3 2	23 15.14	− 5 38.5	2.698	1.715	3.4	19.6	6 E	—	—
3 12	23 40.24	− 3 0.3	2.685	1.693	1.6	19.4	3 E	—	—
3 22	0 5.58	− 0 18.0	2.670	1.673	0.5	19.3	1 W	—	—
4 1	0 31.21	+ 2 25.9	2.653	1.657	2.1	19.4	3 W	—	—
4 11	0 57.17	+ 5 8.9	2.636	1.643	3.8	19.4	6 W	—	—
4 21	1 23.52	+ 7 48.5	2.619	1.633	5.5	19.5	9 W	—	3*
5 1	1 50.28	+10 21.8	2.601	1.627	7.1	19.6	12 W	—	6*
5 11	2 17.47	+12 46.2	2.584	1.623	8.7	19.6	14 W	—	8*
5 21	2 45.08	+14 59.1	2.566	1.623	10.3	19.7	17 W	—	10*
5 31	3 13.06	+16 58.1	2.549	1.627	11.9	19.7	19 W	2*	13*
6 10	3 41.33	+18 41.2	2.531	1.634	13.4	19.8	22 W	4*	15*
6 20	4 9.78	+20 6.8	2.513	1.645	14.9	19.8	25 W	7*	17*
6 30	4 38.25	+21 13.7	2.494	1.659	16.4	19.9	27 W	10*	18*
7 10	5 6.55	+22 1.4	2.473	1.675	17.8	19.9	30 W	14*	20*
7 20	5 34.51	+22 30.0	2.449	1.695	19.2	20.0	33 W	18*	21*
7 30	6 1.91	+22 40.1	2.422	1.717	20.6	20.0	37 W	22*	22*
8 9	6 28.55	+22 32.9	2.392	1.742	22.0	20.1	40 W	27*	23*
8 19	6 54.28	+22 10.2	2.358	1.769	23.3	20.1	44 W	31*	25*
8 29	7 18.91	+21 33.9	2.318	1.798	24.5	20.1	48 W	36*	26*
9 8	7 42.33	+20 46.4	2.273	1.829	25.6	20.2	52 W	40*	27*
9 18	8 4.43	+19 50.2	2.222	1.861	26.7	20.2	56 W	45*	29*
9 28	8 25.09	+18 47.9	2.165	1.894	27.6	20.2	61 W	49*	31*
10 8	8 44.21	+17 42.1	2.102	1.928	28.3	20.2	66 W	53*	33*
10 18	9 1.68	+16 35.6	2.033	1.964	28.8	20.2	72 W	56*	36*
10 28	9 17.35	+15 31.3	1.958	1.999	29.1	20.1	78 W	59*	39*
11 7	9 31.05	+14 32.0	1.879	2.036	29.0	20.1	84 W	59*	42*
11 17	9 42.58	+13 40.6	1.796	2.073	28.5	20.0	91 W	59	46*
11 27	9 51.63	+13 0.3	1.712	2.109	27.5	19.9	99 W	58	49*
12 7	9 57.94	+12 34.0	1.629	2.146	25.9	19.8	108 W	58	51*
12 17	10 1.17	+12 24.4	1.550	2.183	23.6	19.7	117 W	57	52
12 27	10 1.04	+12 33.4	1.480	2.220	20.6	19.5	127 W	58	51
1 6	9 57.49	+13 1.3	1.423	2.257	16.7	19.3	139 W	58	51
1 16	9 50.68	+13 45.9	1.384	2.293	12.2	19.1	151 W	59	50

154993 2005 EA_{94}

12 23	20 25.81	−25 20.8	0.914	0.537	80.9	19.1	33 E	11*	24*
12 25	20 32.89	−24 56.9	0.872	0.526	85.7	19.1	32 E	12*	24*
12 27	20 39.56	−24 30.5	0.829	0.518	90.8	19.2	32 E	12*	23*
12 29	20 45.70	−24 1.7	0.786	0.513	96.2	19.3	31 E	12*	23*
12 31	20 51.23	−23 30.3	0.742	0.510	101.8	19.4	31 E	12*	22*
1 2	20 56.03	−22 56.5	0.699	0.511	107.7	19.6	30 E	12*	21*
1 4	21 0.02	−22 19.9	0.657	0.515	113.6	19.8	29 E	12*	20*
1 6	21 3.11	−21 40.5	0.615	0.521	119.6	20.1	27 E	12*	18*
1 8	21 5.25	−20 57.8	0.575	0.530	125.6	20.5	26 E	11*	17*
1 10	21 6.38	−20 11.5	0.536	0.542	131.5	21.0	24 E	11*	15*

37802 1997 XD_{11}

12 23	20 25.82	−18 7.6	2.234	1.519	21.1	18.9	34 E	18*	22*
1 2	20 56.19	−15 47.5	2.284	1.531	19.5	18.9	31 E	18*	18*
1 12	21 25.65	−13 13.1	2.337	1.548	17.8	18.9	29 E	18*	15*
1 22	21 54.16	−10 27.9	2.391	1.567	16.0	18.9	26 E	17*	11*
2 1	22 21.78	− 7 35.4	2.447	1.590	14.2	19.0	23 E	15*	8*

37802 1997 XD_{11} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 11	22 48.55	− 4 38.7	2.503	1.616	12.3	19.0	20 E	13*	6*
2 21	23 14.56	− 1 40.8	2.560	1.645	10.5	19.0	18 E	11*	3*
3 2	23 39.91	+ 1 15.7	2.616	1.676	8.6	19.0	15 E	8*	1*
3 12	0 4.67	+ 4 8.6	2.670	1.709	6.7	19.0	12 E	6*	—
3 22	0 28.96	+ 6 55.8	2.722	1.743	4.9	19.0	9 E	3*	—
4 1	0 52.85	+ 9 35.8	2.771	1.779	3.2	19.0	6 E	—	—
4 11	1 16.39	+12 7.2	2.815	1.816	2.1	19.0	4 W	—	—
4 21	1 39.65	+14 28.9	2.854	1.854	2.6	19.1	5 W	—	—
5 1	2 2.65	+16 40.1	2.887	1.893	4.0	19.3	8 W	—	—
5 11	2 25.42	+18 40.0	2.913	1.932	5.8	19.4	11 W	2*	4*
5 21	2 47.95	+20 28.2	2.931	1.971	7.6	19.6	15 W	4*	7*
5 31	3 10.21	+22 4.4	2.942	2.010	9.5	19.7	19 W	6*	10*
6 10	3 32.16	+23 28.6	2.943	2.050	11.3	19.8	23 W	9*	14*
6 20	3 53.76	+24 40.8	2.935	2.089	13.0	19.9	28 W	13*	17*
6 30	4 14.91	+25 41.4	2.917	2.128	14.8	20.0	32 W	17*	19*
7 10	4 35.51	+26 30.7	2.889	2.166	16.4	20.1	37 W	22*	22*
7 20	4 55.48	+27 9.6	2.851	2.204	18.0	20.1	42 W	28*	24*
7 30	5 14.67	+27 38.8	2.803	2.241	19.4	20.2	47 W	34*	26*
8 9	5 32.95	+27 59.4	2.744	2.278	20.7	20.2	53 W	40*	27*
8 19	5 50.18	+28 12.6	2.676	2.314	21.9	20.2	58 W	46*	29*
8 29	6 6.17	+28 19.9	2.598	2.349	22.8	20.2	65 W	53*	30*
9 8	6 20.73	+28 22.6	2.512	2.383	23.6	20.2	71 W	59*	32*
9 18	6 33.65	+28 22.6	2.419	2.417	24.0	20.2	78 W	65*	33*
9 28	6 44.65	+28 21.5	2.320	2.449	24.1	20.1	85 W	70*	34*
10 8	6 53.46	+28 21.0	2.218	2.481	23.7	20.0	93 W	73*	35*
10 18	6 59.74	+28 22.7	2.115	2.512	22.9	19.9	102 W	73	36*
10 28	7 3.13	+28 27.7	2.014	2.541	21.4	19.8	111 W	73	36
11 7	7 3.32	+28 36.3	1.920	2.570	19.4	19.6	121 W	74	35
11 17	7 0.06	+28 47.8	1.837	2.598	16.6	19.5	131 W	74	35
11 27	6 53.33	+28 59.8	1.770	2.625	13.1	19.3	143 W	74	35
12 2	6 48.77	+29 5.1	1.745	2.638	11.2	19.2	149 W	74	35
12 7	6 43.52	+29 9.0	1.726	2.650	9.1	19.1	155 W	74	35
12 12	6 37.70	+29 11.3	1.713	2.663	6.9	19.0	161 W	74	35
12 17	6 31.45	+29 11.4	1.707	2.675	4.8	18.9	167 W	74	35
12 22	6 24.96	+29 9.0	1.709	2.687	2.8	18.8	172 W	74	35
12 27	6 18.43	+29 4.1	1.719	2.699	2.1	18.8	174 E	74	35
1 1	6 12.03	+28 56.7	1.736	2.710	3.5	18.9	170 E	74	35
1 6	6 5.94	+28 46.9	1.760	2.721	5.4	19.0	165 E	74	35
1 11	6 0.32	+28 35.3	1.792	2.732	7.5	19.2	159 E	74	35
1 16	5 55.30	+28 22.2	1.831	2.743	9.4	19.3	153 E	73	36

376995 2002 PP_{138}

12 23	20 26.40	−13 4.7	2.355	1.657	20.2	21.3	36 E	22*	20*
1 2	20 54.04	−11 19.6	2.406	1.663	18.5	21.3	32 E	22*	16*
1 12	21 21.29	− 9 21.9	2.458	1.671	16.8	21.3	29 E	20*	12*
1 22	21 48.08	− 7 13.8	2.509	1.683	15.0	21.3	26 E	19*	9*
2 1	22 14.41	− 4 57.5	2.559	1.697	13.1	21.3	23 E	16*	6*
2 11	22 40.24	− 2 35.5	2.608	1.713	11.3	21.2	20 E	14*	3*
2 21	23 5.61	− 0 10.4	2.656	1.732	9.4	21.2	17 E	11*	1*
3 2	23 30.55	+ 2 15.7	2.702	1.753	7.6	21.2	13 E	7*	—
3 12	23 55.10	+ 4 40.5	2.745	1.776	5.7	21.2	10 E	4*	—
3 22	0 19.31	+ 7 2.2	2.785	1.801	4.0	21.2	7 E	1*	—
4 1	0 43.22	+ 9 18.8	2.822	1.828	2.6	21.1	5 E	—	—
4 11	1 6.86	+11 28.8	2.853	1.856	2.3	21.2	4 W	—	—
4 21	1 30.27	+13 30.8	2.880	1.885	3.4	21.3	6 W	—	—
5 1	1 53.46	+15 23.7	2.900	1.915	5.1	21.4	10 W	1*	3*

303449 2005 BE_2

12 23	20 26.41	−22 48.2	1.769	1.085	29.6	20.9	33 E	14*	24*
12 28	20 49.53	−21 36.8	1.816	1.133	28.6	21.0	33 E	15*	24*
1 2	21 11.23	−20 17.7	1.868	1.182	27.4	21.1	34 E	16*	23*
1 7	21 31.57	−18 53.4	1.924	1.230	26.2	21.3	34 E	17*	23*
1 12	21 50.65	−17 25.6	1.983	1.279	24.9	21.4	33 E	17*	22*
1 17	22 8.57	−15 56.0	2.045	1.328	23.6	21.5	33 E	18*	21*

400684 2009 QN_4

12 23	20 26.52	−17 38.9	2.825	2.085	15.3	21.2	34 E	18*	22*
1 2	20 48.06	−17 2.9	2.833	2.030	13.6	21.1	29 E	16*	17*
1 12	21 10.46	−16 13.6	2.831	1.976	11.8	21.0	24 E	13*	13*
1 22	21 33.63	−15 10.9	2.820	1.922	9.9	20.8	20 E	10*	9*
2 1	21 57.52	−13 55.2	2.802	1.870	8.1	20.7	15 E	7*	6*
2 11	22 22.07	−12 27.1	2.776	1.820	6.2	20.5	12 E	3*	3*
2 21	22 47.24	−10 47.4	2.746	1.772	4.5	20.3	8 E	—	1*
3 2	23 13.03	− 8 57.2	2.711	1.727	3.1	20.2	5 E	—	—
3 12	23 39.43	− 6 58.1	2.674	1.685	2.6	20.1	4 E	—	—
3 22	0 6.44	− 4 51.8	2.636	1.647	3.3	20.0	5 E	—	—
4 1	0 34.09	− 2 40.5	2.598	1.612	4.6	20.0	7 W	—	—
4 11	1 2.36	− 0 26.9	2.561	1.582	6.1	20.0	10 W	—	1*
4 21	1 31.26	+ 1 46.4	2.528	1.558	7.6	20.0	12 W	—	4*
5 1	2 0.75	+ 3 56.0	2.499	1.539	9.0	20.0	14 W	—	6*
5 11	2 30.76	+ 5 58.9	2.474	1.526	10.3	20.0	16 W	—	8*

400684 2009 QN_4 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 21	3 1.21	+ 7 51.8	2.455	1.519	11.5	20.1	17 W	—	11*
5 31	3 31.95	+ 9 31.7	2.440	1.518	12.6	20.1	19 W	—	13*
6 10	4 2.79	+10 56.2	2.431	1.524	13.6	20.1	21 W	—	15*
6 20	4 33.54	+12 3.3	2.425	1.536	14.6	20.2	22 W	—	16*
6 30	5 3.96	+12 52.2	2.424	1.554	15.6	20.2	24 W	—	18*
7 10	5 33.82	+13 22.4	2.424	1.578	16.5	20.3	26 W	3*	20*
7 20	6 2.92	+13 34.6	2.426	1.606	17.5	20.4	28 W	7*	21*
7 30	6 31.05	+13 30.1	2.428	1.640	18.5	20.5	31 W	11*	23*
8 9	6 58.06	+13 10.5	2.427	1.678	19.5	20.5	33 W	15*	24*
8 19	7 23.83	+12 38.1	2.424	1.719	20.5	20.6	37 W	20*	26*
8 29	7 48.28	+11 55.1	2.415	1.764	21.5	20.7	40 W	24*	27*
9 8	8 11.33	+11 4.2	2.401	1.812	22.6	20.8	44 W	28*	29*
9 18	8 32.95	+10 7.7	2.381	1.861	23.6	20.8	48 W	33*	31*
9 28	8 53.09	+ 9 8.1	2.352	1.913	24.5	20.9	52 W	37*	33*
10 8	9 11.71	+ 8 7.9	2.316	1.966	25.3	21.0	57 W	41*	35*
10 18	9 28.76	+ 7 9.6	2.271	2.020	26.0	21.0	63 W	45*	38*
10 28	9 44.14	+ 6 15.7	2.217	2.076	26.5	21.0	69 W	48*	42*
11 7	9 57.75	+ 5 28.8	2.157	2.131	26.7	21.0	75 W	50*	46*
11 17	10 9.42	+ 4 51.5	2.089	2.188	26.6	21.0	82 W	50	50*
11 27	10 18.97	+ 4 26.8	2.016	2.244	26.1	21.0	90 W	49	54*
12 7	10 26.18	+ 4 17.6	1.942	2.301	25.1	20.9	98 W	49	58*
12 17	10 30.81	+ 4 26.7	1.867	2.357	23.5	20.8	107 W	49	59*
12 27	10 32.63	+ 4 56.7	1.798	2.414	21.2	20.7	117 W	50	59
1 6	10 31.54	+ 5 49.1	1.738	2.470	18.3	20.6	128 W	51	58
1 16	10 27.57	+ 7 3.3	1.693	2.525	14.6	20.5	140 W	52	57

266053 2006 QJ_{27}

12 23	20 27.47	−23 0.9	2.344	1.614	19.5	20.5	33 E	14*	24*
1 2	20 56.85	−20 51.8	2.387	1.615	17.8	20.5	30 E	14*	20*
1 12	21 25.50	−18 26.3	2.430	1.618	16.1	20.4	27 E	13*	17*
1 22	21 53.38	−15 47.3	2.473	1.625	14.3	20.4	24 E	12*	13*
2 1	22 20.47	−12 57.9	2.516	1.635	12.5	20.4	21 E	11*	10*
2 11	22 46.81	−10 1.2	2.558	1.648	10.7	20.4	18 E	9*	8*
2 21	23 12.46	− 7 0.2	2.600	1.664	8.8	20.4	15 E	7*	5*
3 2	23 37.51	− 3 57.5	2.640	1.682	6.9	20.4	12 E	4*	3*
3 12	0 2.04	− 0 55.7	2.679	1.703	5.0	20.3	9 E	2*	—
3 22	0 26.14	+ 2 3.0	2.715	1.726	3.1	20.3	5 E	—	—
4 1	0 49.89	+ 4 56.6	2.749	1.750	1.1	20.2	2 E	—	—
4 11	1 13.36	+ 7 43.3	2.779	1.777	0.8	20.2	1 W	—	—
4 21	1 36.62	+10 21.7	2.804	1.805	2.7	20.4	5 W	—	—
5 1	1 59.71	+12 50.7	2.825	1.834	4.7	20.6	9 W	—	2*
5 11	2 22.65	+15 9.0	2.840	1.865	6.6	20.7	12 W	—	6*
5 21	2 45.46	+17 16.0	2.849	1.896	8.4	20.8	16 W	2*	9*
5 31	3 8.12	+19 11.2	2.851	1.929	10.3	21.0	20 W	5*	12*
6 10	3 30.60	+20 54.1	2.846	1.961	12.1	21.1	24 W	8*	16*
6 20	3 52.86	+22 24.6	2.833	1.995	13.9	21.2	28 W	12*	18*
6 30	4 14.81	+23 42.9	2.812	2.028	15.6	21.2	32 W	16*	21*
7 10	4 36.37	+24 49.3	2.782	2.062	17.2	21.3	37 W	21*	23*
7 20	4 57.43	+25 44.4	2.743	2.095	18.8	21.4	42 W	27*	25*
7 30	5 17.87	+26 29.0	2.695	2.129	20.3	21.4	47 W	33*	26*
8 9	5 37.55	+27 4.2	2.639	2.162	21.6	21.4	52 W	39*	27*
8 19	5 56.33	+27 31.4	2.574	2.195	22.8	21.4	57 W	45*	29*
8 29	6 14.02	+27 52.1	2.500	2.228	23.8	21.4	63 W	51*	30*
9 8	6 30.43	+28 8.1	2.419	2.260	24.6	21.4	69 W	57*	31*
9 18	6 45.38	+28 21.5	2.331	2.292	25.1	21.4	75 W	63*	32*
9 28	6 58.59	+28 34.3	2.237	2.323	25.3	21.3	82 W	69*	33*
10 8	7 9.79	+28 48.9	2.139	2.354	25.1	21.3	90 W	73*	34*
10 18	7 18.66	+29 7.4	2.040	2.384	24.5	21.2	98 W	74	34*
10 28	7 24.80	+29 31.9	1.941	2.413	23.3	21.1	106 W	75	34*
11 7	7 27.86	+30 3.6	1.847	2.442	21.5	20.9	115 W	75	34
11 17	7 27.44	+30 42.4	1.761	2.470	19.0	20.8	125 W	76	33
11 27	7 23.31	+31 26.6	1.689	2.497	15.9	20.6	136 W	76	33
12 7	7 15.55	+32 11.9	1.636	2.523	12.1	20.4	148 W	77	32
12 12	7 10.45	+32 33.1	1.617	2.536	10.0	20.3	153 W	78	31
12 17	7 4.66	+32 52.1	1.605	2.548	8.0	20.2	159 W	78	31
12 22	6 58.37	+33 8.3	1.600	2.561	6.0	20.1	164 W	78	31
12 27	6 51.76	+33 20.8	1.602	2.573	4.5	20.1	168 W	78	31
1 1	6 45.03	+33 29.3	1.612	2.585	4.0	20.1	170 E	78	31
1 6	6 38.40	+33 33.6	1.629	2.597	4.8	20.1	167 E	79	30
1 11	6 32.06	+33 33.7	1.653	2.608	6.4	20.3	163 E	79	30
1 16	6 26.20	+33 30.0	1.684	2.619	8.3	20.4	157 E	78	31

333525 2005 QF_{28}

12 23	20 27.51	−19 26.3	2.643	1.907	16.7	21.4	34 E	17*	23*
1 2	20 51.22	−18 13.2	2.663	1.870	15.0	21.3	29 E	15*	18*
1 12	21 15.39	−16 45.7	2.676	1.835	13.2	21.2	25 E	13*	14*
1 22	21 39.92	−15 4.4	2.683	1.801	11.4	21.1	21 E	11*	10*
2 1	22 4.76	−13 10.0	2.684	1.769	9.6	21.0	17 E	8*	7*
2 11	22 29.84	−11 3.9	2.681	1.738	7.7	20.9	14 E	6*	4*
2 21	22 55.15	− 8 47.3	2.673	1.709	5.9	20.8	10 E	3*	2*
3 2	23 20.70	− 6 22.1	2.662	1.683	4.2	20.6	7 E	—	—

333525 2005 QF_{28} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 12	23 46.49	− 3 50.3	2.648	1.659	2.6	20.5	4 E	—	—
3 22	0 12.57	− 1 14.2	2.633	1.638	1.5	20.4	3 E	—	—
4 1	0 38.97	+ 1 23.8	2.617	1.621	2.0	20.4	3 W	—	—
4 11	1 5.71	+ 4 0.9	2.601	1.606	3.3	20.4	5 W	—	—
4 21	1 32.85	+ 6 34.4	2.586	1.595	4.9	20.5	8 W	—	1*
5 1	2 0.41	+ 9 1.5	2.571	1.588	6.4	20.5	10 W	—	4*
5 11	2 28.36	+11 19.2	2.556	1.585	7.9	20.6	12 W	—	6*
5 21	2 56.70	+13 25.1	2.543	1.586	9.4	20.7	15 W	—	9*
5 31	3 25.35	+15 16.6	2.530	1.590	10.9	20.7	17 W	—	11*
6 10	3 54.21	+16 51.7	2.518	1.598	12.3	20.8	20 W	1*	13*
6 20	4 23.16	+18 8.9	2.506	1.610	13.7	20.8	22 W	4*	15*
6 30	4 52.03	+19 7.3	2.493	1.626	15.1	20.9	25 W	7*	17*
7 10	5 20.63	+19 46.4	2.479	1.644	16.5	20.9	27 W	10*	19*
7 20	5 48.79	+20 6.6	2.463	1.666	17.9	21.0	30 W	14*	20*
7 30	6 16.30	+20 8.7	2.444	1.691	19.3	21.1	33 W	18*	21*
8 9	6 42.99	+19 54.2	2.422	1.718	20.6	21.1	37 W	23*	23*
8 19	7 8.73	+19 24.9	2.395	1.747	21.9	21.2	40 W	27*	24*
8 29	7 33.38	+18 42.8	2.363	1.778	23.2	21.2	44 W	31*	26*
9 8	7 56.82	+17 50.3	2.326	1.811	24.4	21.3	48 W	36*	27*
9 18	8 19.00	+16 49.9	2.282	1.846	25.5	21.3	52 W	40*	29*
9 28	8 39.81	+15 44.0	2.232	1.882	26.5	21.3	57 W	44*	31*
10 8	8 59.19	+14 35.4	2.175	1.918	27.3	21.3	62 W	48*	33*
10 18	9 17.05	+13 26.5	2.111	1.956	28.0	21.3	67 W	52*	36*
10 28	9 33.27	+12 20.2	2.041	1.994	28.5	21.3	73 W	55*	39*
11 7	9 47.72	+11 19.1	1.965	2.033	28.6	21.3	79 W	56*	43*
11 17	10 0.22	+10 26.0	1.885	2.071	28.4	21.2	86 W	55	46*
11 27	10 10.51	+ 9 44.2	1.801	2.110	27.8	21.1	94 W	55	50*
12 7	10 18.35	+ 9 16.6	1.717	2.149	26.6	21.0	102 W	54	53*
12 17	10 23.42	+ 9 6.2	1.634	2.188	24.8	20.9	111 W	54	55*
12 27	10 25.41	+ 9 15.7	1.557	2.226	22.3	20.8	121 W	54	55
1 6	10 24.13	+ 9 46.4	1.491	2.264	19.0	20.6	131 W	55	54
1 16	10 19.57	+10 37.9	1.440	2.302	14.9	20.4	143 W	56	53

122119 2000 JP_{14}

12 23	20 27.74	−22 3.0	2.351	1.624	19.5	20.3	33 E	15*	24*
1 2	20 56.92	−20 9.5	2.398	1.627	17.8	20.3	30 E	14*	20*
1 12	21 25.44	−17 59.7	2.444	1.633	16.0	20.3	27 E	14*	17*
1 22	21 53.23	−15 36.3	2.489	1.641	14.2	20.3	24 E	13*	13*
2 1	22 20.28	−13 2.3	2.534	1.652	12.3	20.2	21 E	11*	10*
2 11	22 46.60	−10 20.7	2.577	1.666	10.5	20.2	18 E	9*	8*
2 21	23 12.26	− 7 34.1	2.619	1.682	8.6	20.2	15 E	6*	5*
3 2	23 37.32	− 4 45.4	2.659	1.700	6.7	20.2	12 E	4*	3*
3 12	0 1.85	− 1 56.8	2.697	1.720	4.8	20.1	8 E	1*	1*
3 22	0 25.94	+ 0 49.2	2.732	1.742	2.9	20.1	5 E	—	—
4 1	0 49.67	+ 3 31.0	2.763	1.765	1.2	20.0	2 E	—	—
4 11	1 13.08	+ 6 6.5	2.790	1.790	1.5	20.1	3 W	—	—
4 21	1 36.26	+ 8 34.5	2.813	1.816	3.2	20.3	6 W	—	—
5 1	1 59.23	+10 53.7	2.830	1.843	5.1	20.4	9 W	—	3*
5 11	2 22.02	+13 2.9	2.841	1.871	7.0	20.5	13 W	—	7*
5 21	2 44.65	+15 1.4	2.846	1.900	8.9	20.7	17 W	—	11*
5 31	3 7.10	+16 48.5	2.843	1.929	10.7	20.8	21 W	3*	14*
6 10	3 29.33	+18 23.8	2.834	1.958	12.5	20.9	25 W	6*	17*
6 20	3 51.32	+19 47.1	2.816	1.988	14.3	20.9	29 W	10*	20*
6 30	4 12.98	+20 58.4	2.790	2.018	16.0	21.0	33 W	15*	23*
7 10	4 34.23	+21 58.0	2.755	2.048	17.7	21.1	38 W	20*	25*
7 20	4 54.98	+22 46.3	2.712	2.078	19.3	21.1	42 W	25*	27*
7 30	5 15.10	+23 24.0	2.660	2.108	20.7	21.2	47 W	31*	29*
8 9	5 34.46	+23 52.0	2.599	2.138	22.1	21.2	52 W	37*	31*
8 19	5 52.93	+24 11.6	2.530	2.167	23.3	21.2	58 W	43*	32*
8 29	6 10.33	+24 24.1	2.452	2.196	24.3	21.2	63 W	50*	33*
9 8	6 26.49	+24 31.2	2.367	2.224	25.1	21.2	70 W	56*	34*
9 18	6 41.20	+24 34.7	2.275	2.252	25.6	21.1	76 W	61*	36*
9 28	6 54.20	+24 36.6	2.178	2.279	25.9	21.1	83 W	66*	37*
10 8	7 5.22	+24 39.2	2.077	2.306	25.7	21.0	90 W	69*	38*
10 18	7 13.96	+24 44.8	1.974	2.332	25.0	20.9	98 W	70	39*
10 28	7 20.01	+24 55.5	1.872	2.357	23.8	20.7	107 W	70	39*
11 7	7 23.03	+25 12.9	1.775	2.382	22.0	20.6	116 W	70	39
11 17	7 22.65	+25 38.1	1.686	2.406	19.4	20.4	126 W	71	38
11 27	7 18.64	+26 10.3	1.611	2.429	16.0	20.2	137 W	71	38
12 7	7 11.08	+26 46.8	1.554	2.451	12.0	20.0	149 W	72	37
12 12	7 6.11	+27 5.3	1.534	2.461	9.7	19.9	155 W	72	37
12 17	7 0.48	+27 23.1	1.520	2.472	7.4	19.8	161 W	72	37
12 22	6 54.36	+27 39.5	1.513	2.482	5.0	19.7	167 W	73	36
12 27	6 47.93	+27 53.8	1.514	2.492	2.8	19.6	173 W	73	36
1 1	6 41.40	+28 5.7	1.521	2.502	2.0	19.5	175 E	73	36
1 6	6 34.96	+28 14.9	1.537	2.512	3.6	19.7	171 E	73	36
1 11	6 28.81	+28 21.3	1.559	2.521	5.9	19.8	165 E	73	36
1 16	6 23.14	+28 25.0	1.589	2.531	8.1	20.0	159 E	73	36

173474 2000 RH_{104}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	20 28.09	−14 12.0	2.431	1.729	19.3	20.0	36 E	22*	21*
1 2	20 53.75	−12 31.4	2.464	1.710	17.7	19.9	32 E	21*	16*
1 12	21 19.55	−10 37.0	2.493	1.694	16.0	19.9	28 E	19*	12*
1 22	21 45.43	− 8 30.2	2.519	1.679	14.3	19.8	25 E	17*	9*
2 1	22 11.33	− 6 12.6	2.542	1.667	12.6	19.8	22 E	15*	6*
2 11	22 37.23	− 3 46.3	2.563	1.658	10.9	19.7	19 E	12*	3*
2 21	23 3.13	− 1 13.4	2.582	1.651	9.2	19.7	16 E	9*	—
3 2	23 29.07	+ 1 23.5	2.600	1.647	7.6	19.6	13 E	7*	—
3 12	23 55.05	+ 4 2.0	2.616	1.645	5.9	19.5	10 E	4*	—
3 22	0 21.13	+ 6 39.4	2.631	1.647	4.3	19.5	7 E	1*	—
4 1	0 47.34	+ 9 13.2	2.644	1.651	2.9	19.4	5 E	—	—
4 11	1 13.71	+11 40.8	2.656	1.657	2.2	19.4	4 W	—	—
4 21	1 40.27	+13 59.9	2.667	1.666	2.6	19.4	4 W	—	—
5 1	2 7.03	+16 8.2	2.675	1.678	3.9	19.5	6 W	—	—
5 11	2 33.94	+18 3.7	2.682	1.692	5.4	19.6	9 W	—	2*
5 21	3 0.99	+19 44.8	2.686	1.708	7.0	19.7	12 W	1*	5*
5 31	3 28.08	+21 10.0	2.686	1.727	8.7	19.8	15 W	3*	7*
6 10	3 55.12	+22 18.3	2.684	1.747	10.4	19.9	18 W	5*	10*
6 20	4 21.99	+23 9.3	2.676	1.769	12.1	20.0	21 W	7*	13*
6 30	4 48.54	+23 42.6	2.665	1.793	13.7	20.1	25 W	11*	15*
7 10	5 14.61	+23 58.6	2.647	1.817	15.4	20.2	28 W	14*	17*
7 20	5 40.08	+23 57.8	2.624	1.843	17.0	20.2	32 W	18*	19*
7 30	6 4.78	+23 41.3	2.595	1.870	18.6	20.3	36 W	23*	21*
8 9	6 28.57	+23 10.4	2.559	1.898	20.1	20.3	40 W	27*	23*
8 19	6 51.34	+22 26.4	2.516	1.927	21.5	20.4	44 W	32*	25*
8 29	7 12.97	+21 31.0	2.465	1.956	22.9	20.4	49 W	37*	27*
9 8	7 33.36	+20 26.1	2.408	1.985	24.1	20.4	54 W	42*	29*
9 18	7 52.42	+19 13.4	2.342	2.015	25.3	20.4	59 W	46*	31*
9 28	8 10.02	+17 54.9	2.270	2.045	26.2	20.4	64 W	51*	34*
10 8	8 26.05	+16 32.5	2.191	2.075	26.9	20.4	70 W	54*	37*
10 18	8 40.38	+15 8.3	2.105	2.105	27.4	20.4	76 W	57*	40*
10 28	8 52.81	+13 44.3	2.015	2.135	27.5	20.3	83 W	58*	44*
11 7	9 3.13	+12 23.0	1.921	2.164	27.3	20.2	90 W	57	47*
11 17	9 11.07	+11 6.5	1.826	2.193	26.5	20.1	98 W	56	51*
11 27	9 16.33	+ 9 57.7	1.732	2.222	25.2	20.0	106 W	55	54*
12 7	9 18.61	+ 8 59.3	1.642	2.251	23.2	19.8	116 W	54	55
12 17	9 17.64	+ 8 14.0	1.560	2.278	20.5	19.7	126 W	53	56
12 27	9 13.32	+ 7 44.6	1.491	2.306	17.1	19.5	136 W	53	56
1 6	9 5.86	+ 7 32.5	1.440	2.332	13.0	19.3	148 W	53	56
1 16	8 55.87	+ 7 38.0	1.412	2.359	8.4	19.1	159 W	53	56

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12 23	20 28.92	−24 36.0	2.392	1.661	19.0	20.0	33 E	12*	25*
1 2	20 56.36	−21 57.2	2.401	1.624	17.6	19.9	30 E	13*	21*
1 12	21 23.76	−19 0.0	2.408	1.591	16.1	19.8	27 E	13*	17*
1 22	21 51.03	−15 45.9	2.414	1.562	14.6	19.7	24 E	12*	13*
2 1	22 18.16	−12 17.1	2.420	1.538	13.1	19.6	21 E	11*	10*
2 11	22 45.14	− 8 36.2	2.427	1.520	11.6	19.5	18 E	10*	7*
2 21	23 12.03	− 4 46.5	2.436	1.507	10.2	19.5	16 E	8*	4*
3 2	23 38.91	− 0 51.3	2.447	1.500	8.7	19.4	13 E	7*	2*
3 12	0 5.85	+ 3 5.4	2.461	1.498	7.4	19.4	11 E	5*	—
3 22	0 32.97	+ 6 59.9	2.478	1.504	6.2	19.3	9 E	3*	—
4 1	1 0.36	+10 48.2	2.499	1.515	5.1	19.3	8 E	2*	—
4 11	1 28.09	+14 26.5	2.523	1.531	4.3	19.3	7 E	—	—
4 21	1 56.23	+17 51.3	2.549	1.553	3.9	19.3	6 E	—	—
5 1	2 24.79	+20 59.6	2.578	1.581	4.0	19.4	6 W	—	—
5 11	2 53.75	+23 48.5	2.609	1.612	4.6	19.5	7 W	1*	—
5 21	3 23.04	+26 16.2	2.640	1.648	5.5	19.6	9 W	3*	—
5 31	3 52.52	+28 21.2	2.671	1.688	6.6	19.8	11 W	5*	—
6 10	4 22.02	+30 2.8	2.701	1.730	7.9	19.9	13 W	7*	1*
6 20	4 51.32	+31 21.2	2.729	1.775	9.2	20.0	16 W	9*	3*
6 30	5 20.19	+32 17.3	2.752	1.823	10.5	20.2	19 W	12*	4*
7 10	5 48.39	+32 52.5	2.771	1.872	11.9	20.3	22 W	15*	6*
7 20	6 15.70	+33 8.7	2.784	1.923	13.4	20.4	26 W	18*	7*
7 30	6 41.93	+33 8.4	2.791	1.974	14.8	20.5	30 W	22*	9*
8 9	7 6.92	+32 54.2	2.789	2.027	16.2	20.6	34 W	27*	10*
8 19	7 30.56	+32 28.7	2.779	2.080	17.5	20.7	38 W	31*	12*
8 29	7 52.76	+31 55.0	2.760	2.133	18.8	20.8	43 W	36*	13*
9 8	8 13.45	+31 15.6	2.731	2.187	20.0	20.9	48 W	41*	15*
9 18	8 32.60	+30 33.2	2.692	2.241	21.1	20.9	53 W	47*	17*
9 28	8 50.11	+29 50.6	2.644	2.294	22.0	21.0	59 W	52*	19*
10 8	9 5.94	+29 10.1	2.586	2.348	22.7	21.0	65 W	58*	21*
10 18	9 19.98	+28 34.4	2.519	2.401	23.2	21.0	72 W	64*	24*
10 28	9 32.09	+28 5.7	2.445	2.453	23.4	21.0	79 W	69*	27*
11 7	9 42.11	+27 46.4	2.365	2.505	23.3	21.0	86 W	72*	30*
11 17	9 49.81	+27 38.2	2.282	2.557	22.7	20.9	94 W	73	32*
11 27	9 54.93	+27 42.8	2.198	2.607	21.6	20.8	103 W	73	35*
12 7	9 57.20	+28 0.5	2.118	2.657	20.0	20.8	113 W	73	36*
12 17	9 56.37	+28 30.8	2.046	2.707	17.8	20.6	123 W	74	35
12 27	9 52.30	+29 10.7	1.987	2.755	15.1	20.5	133 W	74	35
1 6	9 45.10	+29 55.3	1.947	2.803	11.9	20.4	144 W	75	34
1 16	9 35.20	+30 38.0	1.929	2.850	8.5	20.3	155 W	76	33

3551 Verenia

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	20 29.79	−17 2.3	1.783	1.129	30.0	19.6	35 E	19*	22*
1 2	21 9.43	−15 27.9	1.760	1.099	30.4	19.5	34 E	20*	21*
1 12	21 49.93	−13 20.9	1.742	1.081	30.8	19.4	34 E	21*	20*
1 22	22 30.82	−10 44.6	1.733	1.074	31.1	19.4	34 E	22*	20*
1 27	22 51.28	− 9 17.3	1.732	1.075	31.2	19.4	34 E	22*	20*
2 1	23 11.69	− 7 44.9	1.734	1.080	31.2	19.4	35 E	23*	20*
2 6	23 31.99	− 6 8.6	1.739	1.087	31.2	19.5	35 E	23*	20*
2 11	23 52.15	− 4 29.5	1.747	1.098	31.1	19.5	35 E	24*	20*
2 16	0 12.15	− 2 48.7	1.758	1.111	31.0	19.5	35 E	24*	20*
2 21	0 31.95	− 1 7.3	1.773	1.127	30.7	19.6	36 E	24*	20*
2 26	0 51.54	+ 0 33.5	1.791	1.145	30.3	19.6	36 E	24*	21*
3 2	1 10.90	+ 2 12.7	1.813	1.165	29.9	19.7	36 E	25*	21*
3 7	1 30.01	+ 3 49.3	1.838	1.188	29.4	19.7	36 E	25*	21*
3 12	1 48.85	+ 5 22.4	1.867	1.212	28.8	19.8	36 E	25*	21*
3 22	2 25.70	+ 8 15.2	1.933	1.265	27.4	19.9	36 E	24*	21*
4 1	3 1.41	+10 46.8	2.011	1.323	25.7	20.0	35 E	23*	21*
4 11	3 35.88	+12 54.3	2.097	1.385	23.9	20.2	34 E	21*	21*
4 21	4 9.09	+14 37.0	2.192	1.449	21.9	20.3	33 E	19*	21*
5 1	4 41.01	+15 55.0	2.291	1.514	19.9	20.4	31 E	16*	20*
5 11	5 11.59	+16 49.6	2.393	1.580	17.7	20.6	28 E	13*	19*
5 21	5 40.84	+17 22.5	2.496	1.647	15.6	20.7	26 E	9*	18*
5 31	6 8.78	+17 35.9	2.599	1.713	13.4	20.8	23 E	6*	16*
6 10	6 35.40	+17 31.9	2.698	1.778	11.2	20.9	20 E	2*	13*
6 20	7 0.77	+17 12.7	2.793	1.842	9.1	20.9	17 E	—	10*
6 30	7 24.93	+16 40.4	2.882	1.905	6.9	21.0	13 E	—	7*
7 10	7 47.91	+15 56.9	2.962	1.967	4.9	21.0	10 E	—	3*
7 20	8 9.81	+15 4.0	3.035	2.027	3.1	21.0	6 E	—	—
7 30	8 30.66	+14 3.3	3.096	2.086	2.3	21.1	5 W	—	—
8 9	8 50.52	+12 56.4	3.147	2.144	3.2	21.2	7 W	—	1*
8 19	9 9.45	+11 44.5	3.185	2.199	5.0	21.4	11 W	1*	4*

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12 23	20 30.29	−16 8.7	2.332	1.633	20.4	21.4	35 E	20*	22*
1 2	20 58.01	−14 5.4	2.380	1.635	18.7	21.4	32 E	20*	18*
1 12	21 25.29	−11 49.1	2.427	1.640	17.0	21.4	29 E	19*	14*
1 22	21 52.08	− 9 21.9	2.474	1.647	15.2	21.4	26 E	17*	11*
2 1	22 18.40	− 6 46.5	2.519	1.657	13.4	21.4	23 E	15*	7*
2 11	22 44.23	− 4 5.2	2.564	1.670	11.6	21.4	20 E	13*	5*
2 21	23 9.64	− 1 20.7	2.607	1.685	9.8	21.4	17 E	10*	2*
3 2	23 34.67	+ 1 24.9	2.649	1.702	7.9	21.3	14 E	8*	—
3 12	23 59.38	+ 4 9.0	2.688	1.721	6.1	21.3	11 E	5*	—
3 22	0 23.83	+ 6 49.6	2.725	1.743	4.4	21.3	8 E	2*	—
4 1	0 48.08	+ 9 25.0	2.759	1.766	2.9	21.2	5 E	—	—
4 11	1 12.17	+11 53.2	2.788	1.790	2.2	21.2	4 W	—	—
4 21	1 36.15	+14 12.8	2.814	1.816	2.9	21.3	5 W	—	—
5 1	2 0.05	+16 22.5	2.835	1.843	4.5	21.5	8 W	—	1*

189283 2005 TX_{14}

12 23	20 30.56	−11 35.9	2.306	1.633	21.3	19.7	37 E	24*	20*
1 2	20 57.95	− 9 24.4	2.359	1.641	19.7	19.7	34 E	24*	16*
1 12	21 24.93	− 7 2.3	2.412	1.652	18.0	19.7	31 E	23*	12*
1 22	21 51.46	− 4 31.7	2.466	1.667	16.3	19.7	28 E	21*	8*
2 1	22 17.55	− 1 55.1	2.520	1.685	14.6	19.8	25 E	19*	5*
2 11	22 43.20	+ 0 45.1	2.573	1.705	12.9	19.8	23 E	17*	2*
2 21	23 8.43	+ 3 26.6	2.627	1.728	11.1	19.8	20 E	14*	—
3 2	23 33.31	+ 6 7.1	2.679	1.754	9.4	19.8	17 E	11*	—
3 12	23 57.86	+ 8 44.5	2.729	1.781	7.8	19.8	14 E	8*	—
3 22	0 22.13	+11 17.0	2.776	1.810	6.3	19.8	11 E	4*	—
4 1	0 46.18	+13 43.0	2.820	1.841	5.0	19.8	9 E	1*	—
4 11	1 10.02	+16 0.9	2.861	1.873	4.3	19.8	8 W	1*	—
4 21	1 33.68	+18 9.5	2.896	1.907	4.3	19.9	8 W	2*	—
5 1	1 57.18	+20 7.8	2.926	1.941	5.2	20.0	10 W	4*	—
5 11	2 20.48	+21 54.9	2.949	1.977	6.5	20.1	13 W	5*	3*
5 21	2 43.58	+23 30.3	2.965	2.012	8.1	20.2	16 W	7*	6*
5 31	3 6.43	+24 53.6	2.973	2.049	9.7	20.4	20 W	9*	10*
6 10	3 28.96	+26 4.6	2.972	2.085	11.4	20.5	24 W	12*	13*
6 20	3 51.09	+27 3.2	2.963	2.122	13.1	20.6	28 W	15*	16*
6 30	4 12.72	+27 49.8	2.944	2.159	14.7	20.6	33 W	19*	18*
7 10	4 33.75	+28 24.6	2.915	2.196	16.3	20.7	37 W	24*	21*
7 20	4 54.05	+28 48.5	2.876	2.232	17.9	20.8	42 W	29*	23*
7 30	5 13.48	+29 2.1	2.827	2.268	19.3	20.8	48 W	35*	25*
8 9	5 31.90	+29 6.5	2.768	2.304	20.6	20.8	53 W	41*	26*
8 19	5 49.17	+29 2.7	2.699	2.340	21.7	20.9	59 W	47*	28*
8 29	6 5.08	+28 52.1	2.621	2.375	22.6	20.9	65 W	53*	30*
9 8	6 19.47	+28 35.9	2.535	2.409	23.3	20.8	71 W	59*	31*
9 18	6 32.11	+28 15.6	2.442	2.443	23.7	20.8	78 W	65*	33*
9 28	6 42.74	+27 52.6	2.343	2.477	23.8	20.7	86 W	70*	35*
10 8	6 51.10	+27 28.4	2.241	2.509	23.4	20.7	94 W	72*	36*
10 18	6 56.87	+27 4.0	2.139	2.541	22.5	20.6	102 W	72	37*
10 28	6 59.74	+26 40.5	2.039	2.573	21.1	20.4	111 W	72	37
11 7	6 59.45	+26 18.0	1.946	2.603	19.0	20.3	121 W	71	38

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		189283 2005 TX_{14} *(continuation)*							
	h m	° ′			°	m	°	°	°
11 17	6 55.83	+25 56.1	1.865	2.633	16.2	20.1	132 W	71	38
11 27	6 48.94	+25 33.5	1.801	2.662	12.6	20.0	144 W	71	38
12 7	6 39.26	+25 8.6	1.759	2.690	8.5	19.8	156 W	70	39
12 12	6 33.62	+24 54.6	1.748	2.703	6.3	19.7	162 W	70	39
12 17	6 27.63	+24 39.6	1.745	2.717	4.0	19.5	169 W	70	39
12 22	6 21.47	+24 23.4	1.749	2.730	1.7	19.4	175 W	69	40
12 27	6 15.31	+24 6.3	1.760	2.743	0.7	19.3	178 E	69	40
1 1	6 9.32	+23 48.3	1.780	2.756	3.0	19.6	172 E	69	40
1 6	6 3.66	+23 29.9	1.807	2.769	5.2	19.7	165 E	68	41
1 11	5 58.46	+23 11.4	1.841	2.781	7.3	19.9	159 E	68	41
1 16	5 53.83	+22 53.1	1.882	2.793	9.3	20.0	153 E	68	41
		484279 2007 JL_{40}							
12 23	20 30.58	−12 9.3	2.334	1.656	20.9	21.4	37 E	24*	21*
1 2	20 59.14	−10 57.6	2.389	1.664	19.2	21.4	34 E	23*	17*
1 12	21 27.32	− 9 31.5	2.445	1.675	17.4	21.4	31 E	21*	14*
1 22	21 55.01	− 7 53.4	2.502	1.690	15.5	21.4	27 E	19*	11*
2 1	22 22.15	− 6 5.8	2.559	1.707	13.6	21.4	24 E	17*	8*
2 11	22 48.69	− 4 11.6	2.615	1.728	11.7	21.4	21 E	14*	6*
2 21	23 14.64	− 2 13.2	2.671	1.752	9.7	21.4	17 E	11*	4*
3 2	23 40.02	− 0 13.1	2.725	1.779	7.7	21.4	14 E	7*	2*
3 12	0 4.84	+ 1 46.3	2.776	1.807	5.6	21.4	10 E	4*	—
3 22	0 29.15	+ 3 43.0	2.824	1.838	3.6	21.3	7 E	—	—
4 1	0 53.00	+ 5 35.2	2.868	1.871	1.6	21.3	3 E	—	—
4 11	1 16.39	+ 7 21.2	2.907	1.905	0.6	21.2	1 W	—	—
4 21	1 39.38	+ 8 59.8	2.940	1.941	2.6	21.5	5 W	—	—
		137284 1999 RZ_{182}							
12 23	20 30.68	−17 10.4	2.367	1.663	19.9	21.3	35 E	19*	23*
1 2	20 59.13	−15 44.0	2.431	1.680	18.1	21.3	32 E	18*	19*
1 12	21 26.85	−14 3.5	2.496	1.700	16.1	21.3	29 E	17*	15*
1 22	21 53.80	−12 11.3	2.560	1.722	14.1	21.3	25 E	15*	12*
2 1	22 19.96	−10 10.3	2.622	1.746	12.1	21.3	22 E	13*	9*
2 11	22 45.35	− 8 3.0	2.682	1.772	10.1	21.3	18 E	10*	7*
2 21	23 10.02	− 5 52.0	2.739	1.800	8.0	21.3	15 E	7*	4*
3 2	23 34.02	− 3 39.4	2.792	1.829	5.9	21.3	11 E	4*	2*
3 12	23 57.40	− 1 27.4	2.841	1.859	3.9	21.3	7 E	—	—
3 22	0 20.25	+ 0 42.3	2.884	1.891	1.9	21.2	4 E	—	—
4 1	0 42.61	+ 2 48.1	2.921	1.923	0.9	21.2	2 E	—	—
4 11	1 4.53	+ 4 48.4	2.952	1.956	2.5	21.4	5 W	—	—
		158153 2001 KE_{49}							
12 23	20 30.69	−17 47.6	2.335	1.630	20.3	21.3	35 E	19*	23*
1 2	20 59.01	−16 0.0	2.390	1.639	18.5	21.3	32 E	18*	19*
1 12	21 26.71	−13 58.4	2.444	1.650	16.6	21.3	29 E	17*	15*
1 22	21 53.76	−11 45.4	2.497	1.662	14.7	21.3	25 E	16*	12*
2 1	22 20.15	− 9 23.4	2.548	1.677	12.8	21.3	22 E	14*	9*
2 11	22 45.91	− 6 55.2	2.598	1.694	10.9	21.3	19 E	11*	6*
2 21	23 11.08	− 4 23.2	2.645	1.713	8.9	21.3	16 E	9*	4*
3 2	23 35.73	− 1 49.7	2.690	1.733	6.9	21.3	12 E	5*	1*
3 12	23 59.92	+ 0 43.1	2.731	1.755	4.9	21.2	9 E	2*	—
3 22	0 23.72	+ 3 13.2	2.768	1.778	2.9	21.2	5 E	—	—
4 1	0 47.20	+ 5 39.0	2.801	1.802	0.9	21.1	2 E	—	—
4 11	1 10.41	+ 7 58.7	2.828	1.827	1.1	21.1	2 W	—	—
4 21	1 33.40	+10 11.1	2.850	1.853	3.1	21.3	6 W	—	—
5 1	1 56.20	+12 15.0	2.866	1.880	5.1	21.5	9 W	—	3*
		127521 2002 VK_{14}							
12 23	20 30.80	+ 0 30.1	3.683	3.042	12.8	21.0	43 E	35*	15*
1 2	20 44.18	+ 1 1.9	3.750	3.027	11.4	21.0	37 E	31*	8*
1 12	20 57.94	+ 1 43.2	3.802	3.010	9.9	20.9	32 E	26*	2*
1 22	21 12.01	+ 2 33.7	3.840	2.993	8.5	20.9	27 E	20*	—
2 1	21 26.29	+ 3 32.8	3.863	2.975	7.2	20.8	22 E	14*	—
2 11	21 40.71	+ 4 39.9	3.870	2.955	6.3	20.8	19 E	8*	—
2 21	21 55.23	+ 5 54.2	3.863	2.935	5.8	20.7	17 W	9*	—
3 2	22 9.78	+ 7 15.3	3.841	2.914	6.0	20.7	18 W	12*	—
3 12	22 24.33	+ 8 42.4	3.804	2.892	6.8	20.7	20 W	14*	3*
3 22	22 38.85	+10 14.7	3.753	2.868	8.0	20.7	24 W	16*	9*
4 1	22 53.30	+11 51.6	3.689	2.844	9.5	20.7	28 W	18*	14*
4 11	23 7.65	+13 32.3	3.612	2.819	11.0	20.7	33 W	20*	20*
4 21	23 21.89	+15 16.1	3.523	2.793	12.7	20.7	38 W	23*	24*
5 1	23 35.98	+17 2.4	3.422	2.766	14.3	20.7	43 W	26*	29*
5 11	23 49.89	+18 50.3	3.312	2.739	15.9	20.7	48 W	29*	32*
5 21	0 3.57	+20 39.3	3.193	2.710	17.4	20.6	53 W	32*	35*
5 31	0 16.98	+22 28.7	3.065	2.680	18.8	20.5	59 W	36*	37*
6 10	0 30.02	+24 17.5	2.930	2.650	20.2	20.5	64 W	41*	38*
6 20	0 42.63	+26 5.1	2.789	2.619	21.4	20.4	70 W	47*	37*
6 30	0 54.64	+27 50.7	2.644	2.587	22.4	20.2	76 W	54*	36
7 10	1 5.92	+29 33.1	2.495	2.554	23.2	20.1	82 W	61*	34
7 20	1 16.24	+31 11.3	2.344	2.520	23.8	20.0	88 W	68*	33
7 30	1 25.32	+32 43.7	2.193	2.486	24.0	19.8	94 W	75*	31
8 9	1 32.83	+34 8.3	2.044	2.451	23.9	19.6	101 W	79*	30

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		127521 2002 VK_{14} *(continuation)*							
	h m	° ′			°	m	°	°	°
8 14	1 35.87	+34 46.8	1.970	2.433	23.7	19.5	105 W	80	29
8 19	1 38.36	+35 22.3	1.897	2.415	23.4	19.4	108 W	80	29
8 24	1 40.24	+35 54.2	1.826	2.397	23.0	19.3	112 W	81	28
8 29	1 41.47	+36 21.8	1.756	2.379	22.4	19.2	116 W	81	28
9 3	1 41.98	+36 44.5	1.689	2.360	21.7	19.1	120 W	82	27
9 8	1 41.73	+37 1.5	1.624	2.342	20.9	18.9	124 W	82	27
9 13	1 40.70	+37 11.9	1.562	2.323	19.9	18.8	128 W	82	27
9 18	1 38.85	+37 14.4	1.503	2.304	18.8	18.7	132 W	82	27
9 23	1 36.21	+37 8.1	1.448	2.285	17.5	18.5	137 W	82	27
9 28	1 32.83	+36 51.9	1.397	2.266	16.1	18.4	141 W	82	27
10 3	1 28.79	+36 24.9	1.351	2.247	14.7	18.2	145 W	81	28
10 8	1 24.22	+35 46.3	1.310	2.228	13.2	18.1	149 W	81	28
10 13	1 19.27	+34 55.6	1.274	2.209	11.9	18.0	153 W	80	29
10 18	1 14.13	+33 53.0	1.244	2.190	10.9	17.9	155 E	79	30
10 23	1 9.02	+32 38.9	1.221	2.170	10.5	17.8	157 E	78	31
10 28	1 4.17	+31 14.8	1.203	2.151	10.7	17.7	156 E	76	33
11 2	0 59.77	+29 42.5	1.193	2.131	11.6	17.7	155 E	75	34
11 7	0 55.99	+28 4.2	1.188	2.112	13.0	17.8	151 E	73	36
11 12	0 52.98	+26 22.4	1.190	2.093	14.8	17.8	147 E	71	38
11 17	0 50.83	+24 39.7	1.198	2.073	16.8	17.9	143 E	70	39
11 22	0 49.62	+22 58.5	1.211	2.054	18.8	17.9	138 E	68	41
11 27	0 49.37	+21 21.0	1.229	2.034	20.8	18.0	133 E	66	43
12 2	0 50.08	+19 49.0	1.252	2.015	22.6	18.1	128 E	65	44
12 7	0 51.72	+18 23.6	1.278	1.996	24.4	18.2	123 E	63	46
12 12	0 54.24	+17 5.6	1.308	1.977	26.0	18.2	118 E	62	47
12 17	0 57.62	+15 55.7	1.341	1.958	27.4	18.3	114 E	61	48*
12 22	1 1.80	+14 53.9	1.375	1.939	28.6	18.4	109 E	60	49*
12 27	1 6.72	+14 0.1	1.412	1.921	29.6	18.5	105 E	59	49*
1 1	1 12.31	+13 14.1	1.450	1.903	30.5	18.5	101 E	58	49*
1 6	1 18.54	+12 35.3	1.488	1.885	31.2	18.6	97 E	58	48*
1 11	1 25.35	+12 3.2	1.527	1.867	31.7	18.6	94 E	57	47*
1 16	1 32.70	+11 37.4	1.567	1.849	32.1	18.7	90 E	57	46*
		282443 2003 YT_{90}							
12 23	20 31.15	−15 44.4	2.646	1.935	17.3	20.9	36 E	21*	22*
1 2	20 54.25	−14 32.2	2.668	1.897	15.6	20.8	31 E	19*	17*
1 12	21 17.89	−13 6.3	2.683	1.861	13.9	20.7	27 E	17*	13*
1 22	21 41.97	−11 27.2	2.692	1.826	12.1	20.6	23 E	14*	9*
2 1	22 6.44	− 9 35.8	2.696	1.793	10.3	20.5	19 E	11*	6*
2 11	22 31.23	− 7 33.3	2.695	1.763	8.5	20.4	15 E	8*	3*
2 21	22 56.34	− 5 21.5	2.691	1.735	6.7	20.3	12 E	5*	1*
3 2	23 21.75	− 3 2.0	2.684	1.710	4.9	20.1	8 E	2*	—
3 12	23 47.47	− 0 37.2	2.675	1.688	3.1	20.0	5 E	—	—
3 22	0 13.52	+ 1 50.6	2.664	1.669	1.4	19.8	2 E	—	—
4 1	0 39.92	+ 4 18.8	2.653	1.654	0.4	19.7	1 W	—	—
4 11	1 6.69	+ 6 44.6	2.642	1.643	2.0	19.8	3 W	—	—
4 21	1 33.85	+ 9 5.3	2.632	1.636	3.7	19.9	6 W	—	—
5 1	2 1.39	+11 18.0	2.622	1.633	5.3	20.0	9 W	—	3*
5 11	2 29.27	+13 19.9	2.612	1.634	6.9	20.1	11 W	—	5*
5 21	2 57.45	+15 8.9	2.603	1.639	8.5	20.1	14 W	—	8*
5 31	3 25.83	+16 42.5	2.594	1.648	10.1	20.2	17 W	—	10*
6 10	3 54.26	+17 59.2	2.585	1.661	11.6	20.3	19 W	2*	13*
6 20	4 22.63	+18 57.9	2.576	1.677	13.1	20.3	22 W	4*	15*
6 30	4 50.74	+19 37.8	2.565	1.697	14.6	20.4	25 W	7*	17*
7 10	5 18.39	+19 59.1	2.553	1.721	16.0	20.5	28 W	11*	19*
7 20	5 45.43	+20 2.4	2.537	1.747	17.5	20.6	31 W	15*	21*
7 30	6 11.65	+19 48.7	2.518	1.776	18.9	20.6	34 W	19*	22*
8 9	6 36.91	+19 19.5	2.495	1.808	20.2	20.7	38 W	23*	24*
8 19	7 1.08	+18 36.6	2.467	1.842	21.5	20.7	42 W	28*	26*
8 29	7 24.03	+17 42.1	2.433	1.877	22.8	20.8	46 W	32*	28*
9 8	7 45.68	+16 38.1	2.393	1.915	23.9	20.8	50 W	37*	30*
9 18	8 5.94	+15 26.9	2.346	1.953	24.9	20.9	55 W	41*	32*
9 28	8 24.71	+14 10.7	2.293	1.993	25.8	20.9	60 W	45*	35*
10 8	8 41.92	+12 51.8	2.232	2.033	26.6	20.9	66 W	49*	37*
10 18	8 57.45	+11 32.6	2.165	2.075	27.1	20.9	71 W	52*	41*
10 28	9 11.15	+10 15.5	2.092	2.117	27.3	20.9	78 W	54*	44*
11 7	9 22.86	+ 9 3.0	2.014	2.159	27.2	20.8	85 W	54*	48*
11 17	9 32.38	+ 7 57.6	1.933	2.201	26.7	20.7	92 W	53	52*
11 27	9 39.43	+ 7 2.3	1.850	2.244	25.7	20.7	100 W	52	56*
12 7	9 43.79	+ 6 20.0	1.769	2.287	24.1	20.6	109 W	51	58*
12 17	9 45.19	+ 5 53.6	1.694	2.329	21.8	20.4	118 W	51	58
12 27	9 43.48	+ 5 45.7	1.627	2.371	18.8	20.3	129 W	51	58
1 6	9 38.75	+ 5 57.8	1.576	2.413	15.2	20.1	140 W	51	58
1 16	9 31.33	+ 6 29.6	1.544	2.455	10.9	20.0	152 W	51	58
		223145 2002 WX_8							
12 23	20 31.36	−32 0.0	2.365	1.643	19.5	19.7	34 E	6*	27*
1 2	21 2.40	−30 36.5	2.375	1.615	18.3	19.7	31 E	6*	25*
1 12	21 33.57	−28 47.7	2.382	1.589	17.2	19.6	29 E	5*	22*
1 22	22 4.59	−26 34.8	2.388	1.568	16.2	19.5	26 E	5*	20*
2 1	22 35.26	−23 59.8	2.393	1.549	15.2	19.5	24 E	4*	18*
2 11	23 5.45	−21 5.8	2.400	1.535	14.2	19.4	22 E	3*	16*

223145 2002 WX_8 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 21	23 35.07	−17 56.2	2.409	1.525	13.3	19.4	21 E	2*	15*
3 2	0 4.13	−14 35.0	2.420	1.519	12.4	19.4	19 E	1*	13*
3 12	0 32.62	−11 6.4	2.435	1.517	11.4	19.3	18 E	—	12*
3 22	1 0.61	− 7 34.7	2.453	1.520	10.4	19.3	16 E	—	10*
4 1	1 28.18	− 4 4.0	2.475	1.528	9.3	19.3	14 E	—	8*
4 11	1 55.37	− 0 38.3	2.500	1.539	8.3	19.3	13 E	—	6*
4 21	2 22.28	+ 2 39.3	2.527	1.555	7.3	19.3	11 E	—	4*
5 1	2 48.95	+ 5 45.9	2.556	1.574	6.4	19.3	10 E	—	1*
5 11	3 15.41	+ 8 39.0	2.585	1.597	5.8	19.3	9 E	—	—
5 21	3 41.70	+11 17.1	2.614	1.623	5.7	19.4	9 W	—	—
5 31	4 7.80	+13 39.1	2.640	1.652	6.2	19.5	10 W	—	3*
6 10	4 33.70	+15 44.1	2.664	1.683	7.1	19.6	12 W	—	6*
6 20	4 59.36	+17 32.2	2.683	1.717	8.4	19.7	14 W	—	8*
6 30	5 24.71	+19 3.6	2.697	1.752	9.9	19.8	17 W	1*	11*
7 10	5 49.68	+20 19.0	2.705	1.790	11.5	19.9	21 W	6*	13*
7 20	6 14.20	+21 19.4	2.706	1.828	13.2	20.0	24 W	11*	15*
7 30	6 38.17	+22 6.2	2.700	1.868	14.9	20.1	28 W	16*	16*
8 9	7 1.52	+22 41.1	2.684	1.908	16.6	20.2	32 W	21*	18*
8 19	7 24.17	+23 5.8	2.660	1.949	18.2	20.3	37 W	27*	19*
8 29	7 46.02	+23 22.5	2.627	1.990	19.7	20.4	42 W	32*	20*
9 8	8 7.01	+23 33.5	2.585	2.031	21.2	20.4	47 W	38*	21*
9 18	8 27.06	+23 41.1	2.533	2.073	22.5	20.5	52 W	43*	23*
9 28	8 46.07	+23 48.2	2.473	2.114	23.6	20.5	58 W	49*	24*
10 8	9 3.95	+23 57.4	2.404	2.155	24.5	20.5	64 W	55*	26*
10 18	9 20.59	+24 11.9	2.327	2.196	25.2	20.5	70 W	60*	27*
10 28	9 35.83	+24 34.9	2.245	2.236	25.6	20.5	77 W	65*	29*
11 7	9 49.50	+25 9.6	2.157	2.276	25.7	20.4	84 W	69*	31*
11 17	10 1.36	+25 59.5	2.068	2.315	25.3	20.4	91 W	71	33*
11 27	10 11.11	+27 7.6	1.978	2.353	24.4	20.3	100 W	72	34*
12 7	10 18.41	+28 36.2	1.892	2.391	23.0	20.2	108 W	74	35*
12 17	10 22.86	+30 26.1	1.813	2.428	21.1	20.1	117 W	75	34*
12 22	10 23.87	+31 28.6	1.778	2.446	19.9	20.0	122 W	76	33
12 27	10 24.02	+32 35.5	1.746	2.464	18.6	19.9	127 W	78	31
1 1	10 23.27	+33 45.9	1.719	2.482	17.3	19.9	132 W	79	30
1 6	10 21.60	+34 58.7	1.696	2.500	15.8	19.8	136 W	80	29
1 11	10 18.98	+36 12.6	1.678	2.517	14.3	19.7	141 W	81	28
1 16	10 15.45	+37 26.0	1.666	2.534	12.9	19.7	145 W	82	27

302785 2002 XR_{40}

12 23	20 31.54	−19 15.1	3.155	2.415	13.5	20.5	35 E	17*	24*
1 2	20 47.56	−17 15.2	3.182	2.369	11.6	20.4	29 E	16*	17*
1 12	21 4.00	−15 7.8	3.196	2.324	9.6	20.3	23 E	13*	11*
1 22	21 20.80	−12 52.3	3.197	2.278	7.5	20.2	18 E	10*	5*
2 1	21 37.91	−10 28.2	3.184	2.233	5.5	20.0	12 E	6*	—
2 11	21 55.31	− 7 55.2	3.160	2.187	3.6	19.8	8 E	2*	—
2 21	22 12.99	− 5 13.1	3.124	2.142	2.6	19.7	6 W	—	—
3 2	22 30.99	− 2 21.6	3.077	2.098	3.4	19.7	7 W	1*	—
3 12	22 49.32	+ 0 39.1	3.022	2.054	5.2	19.7	11 W	4*	1*
3 22	23 8.07	+ 3 49.0	2.958	2.011	7.2	19.7	15 W	6*	6*
4 1	23 27.32	+ 7 7.7	2.888	1.968	9.4	19.7	19 W	9*	9*
4 11	23 47.19	+10 34.8	2.813	1.928	11.6	19.7	23 W	11*	13*
4 21	0 7.81	+14 9.2	2.735	1.888	13.7	19.7	26 W	14*	16*
5 1	0 29.38	+17 49.9	2.655	1.851	15.7	19.6	30 W	17*	18*
5 11	0 52.10	+21 34.7	2.576	1.816	17.7	19.6	33 W	20*	20*
5 21	1 16.22	+25 21.1	2.498	1.783	19.6	19.5	36 W	23*	21*
5 26	1 28.90	+27 14.0	2.459	1.767	20.4	19.5	38 W	24*	21*
5 31	1 42.02	+29 5.8	2.422	1.752	21.3	19.5	39 W	26*	21*
6 5	1 55.64	+30 56.1	2.386	1.738	22.1	19.5	40 W	27*	21*
6 10	2 9.79	+32 44.2	2.351	1.725	22.9	19.4	41 W	29*	20*
6 15	2 24.51	+34 29.4	2.316	1.713	23.7	19.4	43 W	31*	20*
6 20	2 39.82	+36 11.0	2.284	1.701	24.4	19.4	44 W	33*	19*
6 25	2 55.75	+37 48.1	2.252	1.691	25.1	19.4	45 W	34*	18*
6 30	3 12.29	+39 19.7	2.222	1.681	25.7	19.3	46 W	36*	17*
7 5	3 29.47	+40 45.1	2.193	1.672	26.3	19.3	47 W	38*	16*
7 10	3 47.26	+42 3.4	2.166	1.664	26.9	19.3	48 W	39*	15*
7 15	4 5.63	+43 13.8	2.139	1.658	27.5	19.3	49 W	41*	14*
7 20	4 24.51	+44 15.4	2.114	1.652	28.0	19.3	50 W	42*	13*
7 25	4 43.83	+45 7.7	2.090	1.647	28.5	19.2	51 W	44*	13*
7 30	5 3.47	+45 50.0	2.068	1.644	29.0	19.2	52 W	45*	12*
8 4	5 23.31	+46 22.0	2.045	1.641	29.4	19.2	53 W	46*	11*
8 9	5 43.22	+46 43.5	2.024	1.640	29.8	19.2	54 W	47*	10*
8 14	6 3.05	+46 54.7	2.003	1.639	30.2	19.2	55 W	49*	10*
8 19	6 22.64	+46 55.7	1.983	1.640	30.6	19.2	56 W	50*	10*
8 24	6 41.86	+46 47.0	1.963	1.642	31.0	19.2	57 W	51*	9*
8 29	7 0.57	+46 29.2	1.942	1.645	31.3	19.2	58 W	52*	9*
9 3	7 18.67	+46 3.0	1.922	1.649	31.7	19.2	59 W	53*	9*
9 8	7 36.07	+45 29.3	1.901	1.654	32.0	19.1	60 W	54*	9*
9 13	7 52.72	+44 49.0	1.880	1.661	32.3	19.1	62 W	56*	10*
9 18	8 8.55	+44 3.0	1.858	1.668	32.5	19.1	63 W	57*	10*

302785 2002 XR_{40} *(continuation)*

9 28	8 37.67	+42 17.4	1.812	1.685	33.0	19.1	67 W	60*	11*
10 8	9 3.35	+40 19.3	1.761	1.707	33.4	19.1	70 W	64*	13*
10 18	9 25.65	+38 14.6	1.705	1.731	33.7	19.1	75 W	69*	16*
10 28	9 44.55	+36 8.2	1.644	1.760	33.7	19.0	80 W	73*	19*
11 7	10 0.09	+34 4.0	1.578	1.790	33.5	19.0	85 W	77*	22*
11 17	10 12.15	+32 4.8	1.508	1.824	32.8	18.9	91 W	77	26*
11 27	10 20.49	+30 12.8	1.435	1.860	31.6	18.8	99 W	75	30*
12 7	10 24.80	+28 28.7	1.361	1.898	29.8	18.7	107 W	73	34*
12 17	10 24.68	+26 52.2	1.291	1.937	27.1	18.5	116 W	72	37*
12 27	10 19.77	+25 21.3	1.228	1.979	23.5	18.3	127 W	70	39
1 6	10 10.07	+23 52.3	1.178	2.021	18.9	18.1	138 W	69	40
1 16	9 56.07	+22 20.7	1.148	2.064	13.4	17.9	151 W	67	42

131702 2001 YZ_3

12 23	20 31.99	− 1 54.6	4.166	3.499	10.9	21.2	42 E	33*	17*
1 2	20 42.71	− 1 8.3	4.252	3.500	9.4	21.2	36 E	29*	9*
1 12	20 53.75	− 0 14.7	4.321	3.500	8.0	21.2	30 E	24*	2*
1 22	21 4.99	+ 0 46.1	4.373	3.499	6.6	21.1	24 E	18*	—
2 1	21 16.35	+ 1 53.9	4.407	3.497	5.5	21.1	20 E	12*	—
2 11	21 27.73	+ 3 8.2	4.422	3.494	4.9	21.1	18 W	8*	—
2 21	21 39.06	+ 4 28.8	4.419	3.490	4.9	21.1	18 W	11*	—
3 2	21 50.27	+ 5 55.3	4.398	3.485	5.7	21.1	20 W	14*	2*
3 12	22 1.28	+ 7 27.3	4.360	3.479	6.8	21.1	24 W	17*	9*
3 22	22 12.02	+ 9 4.4	4.305	3.473	8.1	21.1	30 W	20*	15*
4 1	22 22.43	+10 46.3	4.234	3.465	9.6	21.2	35 W	23*	21*
4 11	22 32.41	+12 32.6	4.148	3.456	11.0	21.2	41 W	26*	27*
4 21	22 41.90	+14 22.8	4.050	3.446	12.4	21.2	47 W	29*	32*
5 1	22 50.80	+16 16.6	3.939	3.436	13.6	21.1	53 W	33*	37*
5 11	22 58.99	+18 13.5	3.818	3.424	14.8	21.1	60 W	37*	40*
5 21	23 6.36	+20 13.0	3.688	3.411	15.8	21.1	66 W	42*	41*
5 31	23 12.74	+22 14.4	3.552	3.398	16.6	21.0	73 W	47*	41*
6 10	23 17.96	+24 16.8	3.412	3.383	17.2	20.9	80 W	54*	40
6 20	23 21.82	+26 19.0	3.269	3.367	17.5	20.8	87 W	61*	38
6 30	23 24.07	+28 19.4	3.127	3.351	17.6	20.7	94 W	68*	36
7 10	23 24.47	+30 15.6	2.988	3.333	17.4	20.6	101 W	74*	34
7 20	23 22.78	+32 4.5	2.856	3.314	16.9	20.5	108 W	77	32
7 30	23 18.82	+33 42.0	2.732	3.295	16.2	20.3	115 W	79	30
8 9	23 12.54	+35 3.1	2.621	3.274	15.2	20.2	122 W	80	29
8 14	23 8.57	+35 35.8	2.571	3.264	14.7	20.1	125 W	81	28
8 19	23 4.08	+36 2.3	2.525	3.253	14.1	20.1	128 W	81	28
8 24	22 59.16	+36 22.0	2.484	3.241	13.6	20.0	131 W	81	28
8 29	22 53.89	+36 34.3	2.448	3.230	13.1	20.0	134 W	82	27
9 3	22 48.38	+36 38.9	2.418	3.218	12.6	19.9	136 E	82	27
9 8	22 42.73	+36 35.6	2.392	3.206	12.3	19.9	137 E	82	27
9 13	22 37.08	+36 24.4	2.372	3.194	12.1	19.8	138 E	81	28
9 18	22 31.55	+36 5.5	2.358	3.182	12.1	19.8	139 E	81	28
9 23	22 26.29	+35 39.3	2.350	3.169	12.2	19.8	138 E	81	28
9 28	22 21.41	+35 6.7	2.347	3.156	12.5	19.8	137 E	80	29
10 3	22 17.01	+34 28.6	2.350	3.143	12.9	19.8	136 E	79	30
10 8	22 13.18	+33 45.9	2.358	3.130	13.4	19.8	133 E	79	30
10 13	22 9.98	+32 59.7	2.372	3.116	14.0	19.8	131 E	78	31
10 18	22 7.45	+32 11.1	2.390	3.102	14.7	19.9	128 E	77	32
10 23	22 5.63	+31 21.2	2.413	3.088	15.4	19.9	125 E	76	33
10 28	22 4.52	+30 31.2	2.439	3.074	16.1	19.9	121 E	76	33
11 2	22 4.12	+29 41.9	2.470	3.059	16.7	20.0	118 E	75	34
11 7	22 4.40	+28 54.1	2.504	3.044	17.3	20.0	114 E	74	35
11 12	22 5.34	+28 8.6	2.540	3.029	17.9	20.1	110 E	73	36*
11 17	22 6.92	+27 25.8	2.579	3.013	18.3	20.1	107 E	72	36*
11 27	22 11.85	+26 10.6	2.661	2.982	19.1	20.2	99 E	71	35*
12 7	22 18.89	+25 11.0	2.748	2.949	19.5	20.2	92 E	70	32*
12 17	22 27.78	+24 27.9	2.837	2.916	19.6	20.3	85 E	69*	28*
12 27	22 38.26	+24 1.6	2.923	2.881	19.5	20.3	78 E	67*	23*
1 6	22 50.11	+23 51.5	3.006	2.846	19.1	20.3	71 E	64*	18*
1 16	23 3.16	+23 56.6	3.083	2.809	18.5	20.3	65 E	58*	13*

417655 2006 YF_{13}

12 23	20 32.76	−16 46.9	1.122	0.661	60.6	21.4	36 E	20*	23*
12 28	21 6.04	−15 29.5	1.097	0.698	61.8	21.5	39 E	22*	25*
1 2	21 38.38	−13 59.1	1.080	0.737	62.2	21.6	42 E	24*	27*
1 7	22 9.58	−12 18.2	1.072	0.776	61.9	21.7	44 E	27*	29*
1 12	22 39.51	−10 29.7	1.071	0.816	61.1	21.8	47 E	29*	30*

281365 2008 CM_{116}

12 23	20 33.54	+ 6 39.7	0.518	0.741	101.3	19.0	48 E	40*	13*
12 25	20 43.20	+ 9 51.8	0.502	0.763	100.0	18.9	50 E	43*	12*
12 27	20 53.29	+13 9.6	0.488	0.786	98.3	18.9	52 E	46*	10*
12 29	21 3.90	+16 32.1	0.476	0.810	96.3	18.8	55 E	49*	9*
12 31	21 15.11	+19 57.8	0.466	0.833	94.1	18.7	58 E	52*	8*
1 2	21 27.02	+23 24.9	0.458	0.857	91.7	18.6	61 E	55*	7*
1 4	21 39.72	+26 51.4	0.453	0.881	89.0	18.5	64 E	57*	6*

281365 2008 CM_{116} *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 6	21 53.29	+30 14.8	0.450	0.904	86.2	18.5	67 E	60*	5*
1 8	22 7.83	+33 32.7	0.449	0.928	83.4	18.4	70 E	63*	4*
1 10	22 23.38	+36 42.4	0.450	0.952	80.5	18.4	73 E	66*	3*
1 12	22 40.01	+39 41.5	0.453	0.976	77.5	18.3	76 E	68*	3*
1 14	22 57.73	+42 27.7	0.458	1.000	74.7	18.3	79 E	71*	3*
1 16	23 16.49	+44 58.8	0.466	1.023	71.9	18.3	81 E	73*	3*
1 18	23 36.24	+47 13.2	0.475	1.047	69.2	18.3	84 E	74*	3*
1 20	23 56.82	+49 9.9	0.486	1.070	66.6	18.3	86 E	76*	3*
1 22	0 18.03	+50 48.3	0.499	1.093	64.1	18.4	89 E	77*	3*
1 24	0 39.63	+52 8.4	0.514	1.116	61.8	18.4	91 E	78*	3*
1 26	1 1.33	+53 10.7	0.530	1.139	59.7	18.4	93 E	79*	4*
1 28	1 22.84	+53 56.3	0.547	1.162	57.7	18.5	94 E	79*	4*
1 30	1 43.89	+54 26.6	0.566	1.184	55.8	18.6	96 E	80*	5*
2 1	2 4.24	+54 43.2	0.586	1.207	54.1	18.6	97 E	80*	6*
2 3	2 23.72	+54 48.0	0.607	1.229	52.5	18.7	98 E	80*	6*
2 5	2 42.20	+54 42.8	0.630	1.251	51.1	18.8	99 E	80	7*
2 7	2 59.61	+54 29.1	0.653	1.272	49.8	18.9	100 E	81	8*
2 9	3 15.93	+54 8.7	0.677	1.294	48.6	18.9	100 E	81	8*
2 11	3 31.18	+53 42.9	0.702	1.315	47.4	19.0	101 E	81	9*
2 13	3 45.41	+53 12.9	0.728	1.336	46.4	19.1	101 E	82	10*
2 15	3 58.67	+52 39.6	0.755	1.357	45.5	19.2	101 E	82	11*
2 17	4 11.03	+52 4.1	0.782	1.378	44.6	19.3	102 E	83	11*
2 19	4 22.58	+51 26.8	0.810	1.398	43.8	19.4	102 E	84	12*
2 21	4 33.39	+50 48.5	0.839	1.418	43.1	19.4	101 E	84	13*
2 23	4 43.52	+50 9.5	0.869	1.438	42.4	19.5	101 E	85	14*
2 25	4 53.04	+49 30.3	0.899	1.458	41.8	19.6	101 E	85	14*
2 27	5 2.01	+48 51.0	0.929	1.478	41.2	19.7	101 E	86	15*
2 29	5 10.49	+48 11.9	0.960	1.497	40.6	19.8	100 E	87	16*
3 2	5 18.52	+47 33.2	0.992	1.517	40.1	19.9	100 E	87	16*
3 4	5 26.16	+46 55.0	1.024	1.536	39.6	20.0	99 E	88	17*
3 6	5 33.43	+46 17.3	1.056	1.554	39.1	20.0	99 E	89	18*
3 8	5 40.38	+45 40.3	1.089	1.573	38.7	20.1	98 E	89	18*
3 10	5 47.03	+45 3.9	1.123	1.591	38.2	20.2	97 E	90	19*
3 12	5 53.42	+44 28.2	1.156	1.609	37.8	20.3	97 E	89	20*
3 17	6 8.38	+43 1.9	1.242	1.654	36.8	20.5	95 E	88*	21*
3 22	6 22.15	+41 39.9	1.329	1.698	35.9	20.6	93 E	85*	22*
3 27	6 34.98	+40 21.9	1.418	1.740	35.0	20.8	90 E	82*	24*
4 1	6 47.06	+39 7.5	1.508	1.781	34.1	21.0	88 E	79*	25*
4 6	6 58.52	+37 56.5	1.598	1.821	33.2	21.1	86 E	76*	26*
4 11	7 9.45	+36 48.3	1.690	1.860	32.3	21.3	83 E	73*	27*
4 16	7 19.94	+35 42.5	1.781	1.897	31.5	21.4	81 E	70*	28*

33342 1998 WT_{24}

12 23	20 33.77	−23 2.0	1.216	0.692	54.0	19.5	35 E	14*	25*
12 28	21 5.31	−21 8.6	1.217	0.734	53.9	19.6	37 E	17*	27*
1 2	21 34.55	−18 59.0	1.223	0.774	53.4	19.7	39 E	19*	28*
1 7	22 1.63	−16 38.8	1.235	0.812	52.6	19.8	41 E	22*	28*
1 12	22 26.74	−14 12.5	1.251	0.846	51.7	19.9	42 E	24*	29*
1 17	22 50.09	−11 43.5	1.270	0.877	50.6	20.0	44 E	26*	29*
1 22	23 11.93	− 9 14.6	1.292	0.905	49.5	20.1	44 E	28*	28*
1 27	23 32.46	− 6 47.5	1.315	0.930	48.4	20.2	45 E	29*	28*
2 1	23 51.89	− 4 23.5	1.340	0.952	47.3	20.2	45 E	31*	27*
2 11	0 28.13	+ 0 11.8	1.390	0.986	45.2	20.3	45 E	33*	26*
2 21	1 1.87	+ 4 27.9	1.438	1.008	43.4	20.4	44 E	33*	24*
3 2	1 34.07	+ 8 24.2	1.480	1.018	41.9	20.4	43 E	33*	23*
3 12	2 5.50	+12 0.6	1.513	1.017	40.6	20.4	42 E	32*	21*
3 22	2 36.77	+15 17.5	1.534	1.003	39.7	20.4	40 E	31*	20*
4 1	3 8.45	+18 14.7	1.541	0.978	39.3	20.4	38 E	29*	18*
4 11	3 40.99	+20 51.2	1.531	0.940	39.4	20.3	37 E	27*	17*
4 21	4 14.81	+23 5.1	1.503	0.890	40.3	20.1	35 E	25*	17*
4 26	4 32.32	+24 2.7	1.481	0.860	41.1	20.0	34 E	25*	16*
5 1	4 50.26	+24 53.2	1.453	0.827	42.2	19.9	33 E	24*	16*
5 6	5 8.65	+25 36.1	1.419	0.791	43.8	19.8	33 E	23*	16*
5 11	5 27.47	+26 10.5	1.378	0.753	45.9	19.7	32 E	22*	16*
5 16	5 46.67	+26 35.7	1.329	0.711	48.6	19.6	32 E	21*	16*
5 21	6 6.15	+26 50.4	1.272	0.667	52.3	19.5	31 E	20*	16*
5 26	6 25.66	+26 53.9	1.206	0.621	57.1	19.3	31 E	19*	17*
5 31	6 44.76	+26 45.0	1.131	0.575	63.5	19.2	30 E	18*	17*
6 5	7 2.67	+26 23.1	1.045	0.529	72.0	19.1	30 E	17*	17*
6 10	7 18.01	+25 48.6	0.950	0.487	83.3	19.1	28 E	15*	16*
6 12	7 22.95	+25 31.6	0.910	0.471	88.8	19.2	28 E	14*	16*
6 14	7 26.93	+25 12.9	0.869	0.457	94.9	19.3	27 E	13*	16*
6 16	7 29.73	+24 52.8	0.827	0.445	101.8	19.4	25 E	12*	15*
6 18	7 31.10	+24 31.4	0.786	0.435	109.3	19.7	24 E	10*	14*
6 20	7 30.79	+24 8.8	0.746	0.427	117.5	20.1	22 E	9*	12*
6 22	7 28.56	+23 45.1	0.708	0.422	126.4	20.6	19 E	7*	11*

491973 2013 EN_{11}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	20 34.16	− 4 21.3	2.704	2.069	18.3	21.5	41 E	31*	18*
1 2	20 55.07	− 4 33.7	2.731	2.021	16.6	21.4	36 E	28*	13*
1 12	21 16.74	− 4 32.5	2.750	1.973	14.9	21.3	31 E	24*	9*
1 22	21 39.10	− 4 18.8	2.761	1.926	13.0	21.2	26 E	19*	5*
2 1	22 2.10	− 3 53.5	2.763	1.879	11.0	21.1	21 E	15*	2*
2 11	22 25.68	− 3 18.2	2.758	1.834	8.9	20.9	17 E	11*	—
2 21	22 49.86	− 2 34.3	2.744	1.790	6.7	20.8	12 E	6*	—
3 2	23 14.63	− 1 43.4	2.724	1.748	4.4	20.6	8 E	2*	—
3 12	23 40.01	− 0 47.4	2.698	1.707	2.2	20.4	4 E	—	—
3 22	0 6.03	+ 0 11.7	2.666	1.669	0.3	20.1	0 E	—	—
4 1	0 32.74	+ 1 12.1	2.630	1.634	2.5	20.2	4 W	—	—
4 11	1 0.16	+ 2 11.4	2.590	1.603	4.8	20.3	8 W	—	1*
4 21	1 28.33	+ 3 7.5	2.549	1.575	7.0	20.3	11 W	—	4*
5 1	1 57.26	+ 3 57.9	2.507	1.551	9.2	20.4	14 W	—	7*
5 11	2 26.91	+ 4 40.4	2.466	1.531	11.3	20.4	17 W	—	10*
5 21	2 57.23	+ 5 12.8	2.427	1.516	13.2	20.4	20 W	—	13*
5 31	3 28.10	+ 5 33.0	2.392	1.507	15.0	20.4	23 W	—	15*
6 10	3 59.36	+ 5 39.3	2.361	1.502	16.5	20.4	25 W	—	18*
6 20	4 30.81	+ 5 30.6	2.336	1.503	17.9	20.5	27 W	—	20*
6 30	5 2.20	+ 5 6.2	2.315	1.510	19.1	20.5	29 W	—	23*
7 10	5 33.26	+ 4 26.4	2.301	1.521	20.1	20.5	31 W	—	25*
7 20	6 3.77	+ 3 32.0	2.292	1.538	20.9	20.6	33 W	—	27*
7 30	6 33.48	+ 2 24.4	2.287	1.559	21.6	20.6	34 W	3*	28*
8 9	7 2.18	+ 1 5.4	2.286	1.585	22.2	20.7	36 W	6*	30*
8 19	7 29.76	− 0 22.8	2.286	1.614	22.7	20.7	38 W	9*	32*
8 29	7 56.08	− 1 58.2	2.286	1.647	23.3	20.8	40 W	13*	33*
9 8	8 21.08	− 3 38.4	2.284	1.683	23.8	20.8	42 W	16*	35*
9 18	8 44.73	− 5 21.5	2.279	1.722	24.4	20.9	45 W	19*	37*
9 28	9 6.99	− 7 5.6	2.269	1.763	25.0	21.0	48 W	22*	39*
10 8	9 27.84	− 8 48.9	2.253	1.806	25.6	21.0	51 W	25*	42*
10 18	9 47.27	−10 29.8	2.229	1.851	26.2	21.1	55 W	27*	44*
10 28	10 5.20	−12 6.6	2.196	1.897	26.8	21.1	60 W	29*	48*
11 7	10 21.59	−13 37.7	2.154	1.944	27.4	21.1	64 W	30*	52*
11 17	10 36.31	−15 1.3	2.103	1.991	27.8	21.1	70 W	30*	57*
11 27	10 49.19	−16 15.3	2.043	2.039	28.0	21.1	76 W	29	63*
12 7	11 0.07	−17 17.2	1.976	2.087	27.9	21.1	82 W	28	69*
12 17	11 8.69	−18 4.2	1.902	2.135	27.4	21.1	90 W	27	76*
12 27	11 14.76	−18 32.3	1.825	2.184	26.5	21.0	98 W	26	82*
1 6	11 18.05	−18 37.3	1.747	2.232	25.0	20.9	106 W	26	83
1 16	11 18.31	−18 14.1	1.672	2.280	22.8	20.8	116 W	27	82

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12 23	20 34.71	−21 4.0	2.695	1.975	16.7	21.3	35 E	16*	25*
1 2	20 57.59	−19 44.6	2.720	1.939	14.9	21.2	31 E	15*	20*
1 12	21 20.88	−18 11.8	2.737	1.904	13.1	21.2	26 E	13*	16*
1 22	21 44.50	−16 26.2	2.747	1.870	11.3	21.1	22 E	11*	12*
2 1	22 8.38	−14 28.4	2.750	1.838	9.5	20.9	18 E	8*	8*
2 11	22 32.48	−12 19.5	2.748	1.806	7.6	20.8	14 E	5*	5*
2 21	22 56.78	−10 0.7	2.740	1.777	5.8	20.7	11 E	2*	3*
3 2	23 21.30	− 7 33.7	2.728	1.749	4.1	20.6	7 E	—	1*
3 12	23 46.03	− 5 0.2	2.713	1.724	2.6	20.4	5 E	—	—
3 22	0 11.02	− 2 22.2	2.695	1.701	1.9	20.3	3 E	—	—
4 1	0 36.32	+ 0 18.3	2.675	1.681	2.7	20.3	4 W	—	—
4 11	1 1.96	+ 2 58.6	2.655	1.664	4.1	20.4	7 W	—	—
4 21	1 28.00	+ 5 36.5	2.633	1.649	5.6	20.4	9 W	—	3*
5 1	1 54.47	+ 8 9.3	2.612	1.638	7.2	20.5	12 W	—	6*
5 11	2 21.37	+10 34.4	2.590	1.631	8.8	20.5	14 W	—	8*
5 21	2 48.71	+12 49.3	2.569	1.627	10.4	20.6	17 W	—	11*
5 31	3 16.47	+14 51.6	2.548	1.626	11.9	20.6	19 W	—	13*
6 10	3 44.55	+16 39.0	2.528	1.630	13.4	20.7	22 W	2*	15*
6 20	4 12.87	+18 10.1	2.507	1.636	14.9	20.7	24 W	5*	17*
6 30	4 41.28	+19 23.4	2.485	1.646	16.3	20.7	27 W	9*	19*
7 10	5 9.61	+20 18.1	2.463	1.660	17.7	20.8	30 W	12*	20*
7 20	5 37.69	+20 54.3	2.438	1.676	19.1	20.8	33 W	17*	22*
7 30	6 5.31	+21 12.3	2.411	1.696	20.5	20.9	36 W	21*	23*
8 9	6 32.28	+21 13.3	2.381	1.718	21.9	20.9	39 W	25*	24*
8 19	6 58.44	+20 58.7	2.348	1.743	23.1	21.0	43 W	30*	25*
8 29	7 23.61	+20 30.7	2.310	1.770	24.4	21.0	46 W	34*	26*
9 8	7 47.67	+19 51.4	2.267	1.799	25.5	21.0	50 W	39*	27*
9 18	8 10.50	+19 3.3	2.218	1.830	26.6	21.0	55 W	43*	29*
9 28	8 31.98	+18 9.3	2.164	1.862	27.5	21.1	59 W	47*	31*
10 8	8 52.04	+17 11.9	2.103	1.896	28.3	21.1	64 W	51*	33*
10 18	9 10.55	+16 14.2	2.037	1.931	28.9	21.0	70 W	55*	35*
10 28	9 27.38	+15 19.1	1.965	1.966	29.3	21.0	75 W	58*	38*
11 7	9 42.39	+14 29.6	1.889	2.003	29.3	21.0	82 W	59*	41*
11 17	9 55.37	+13 48.9	1.808	2.039	29.0	20.9	89 W	59	44*
11 27	10 6.06	+13 20.3	1.726	2.077	28.2	20.8	96 W	58	47*
12 7	10 14.18	+13 6.9	1.643	2.114	26.8	20.7	104 W	58	50*
12 17	10 19.40	+13 11.6	1.564	2.152	24.8	20.6	113 W	58	51
12 27	10 21.39	+13 36.7	1.491	2.189	22.1	20.4	123 W	59	50
1 6	10 19.97	+14 22.2	1.430	2.227	18.6	20.3	134 W	59	50
1 16	10 15.12	+15 26.3	1.384	2.264	14.3	20.1	145 W	60	49

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
326386 2001 OA_{14}									
12 23	20 34.93	+ 2 21.6	1.060	0.788	62.3	20.3	45 E	37*	15*
12 28	20 48.00	+ 4 7.3	1.007	0.753	66.1	20.2	44 E	37*	13*
1 2	21 1.44	+ 5 49.5	0.948	0.720	70.8	20.2	44 E	37*	10*
1 7	21 15.29	+ 7 23.2	0.882	0.691	76.3	20.1	43 E	37*	8*
1 12	21 29.56	+ 8 41.4	0.811	0.666	82.9	20.1	42 E	36*	6*
1 14	21 35.40	+ 9 6.3	0.782	0.657	85.8	20.1	42 E	36*	5*
1 16	21 41.31	+ 9 26.3	0.752	0.650	88.8	20.1	41 E	35*	5*
1 18	21 47.31	+ 9 40.5	0.721	0.644	92.1	20.1	41 E	35*	4*
1 20	21 53.38	+ 9 48.0	0.690	0.639	95.5	20.1	40 E	34*	4*
1 22	21 59.55	+ 9 47.5	0.659	0.634	99.1	20.2	40 E	34*	4*
1 24	22 5.80	+ 9 37.8	0.628	0.632	102.8	20.3	39 E	33*	4*
1 26	22 12.16	+ 9 17.5	0.597	0.630	106.7	20.4	38 E	32*	4*
1 28	22 18.61	+ 8 45.0	0.566	0.630	110.7	20.5	37 E	31*	4*
1 30	22 25.17	+ 7 58.5	0.536	0.631	114.9	20.6	36 E	29*	4*
2 1	22 31.84	+ 6 56.4	0.507	0.633	119.2	20.8	34 E	28*	4*
2 3	22 38.64	+ 5 36.8	0.479	0.636	123.6	21.0	33 E	26*	5*
2 5	22 45.57	+ 3 57.7	0.452	0.641	128.0	21.3	31 E	25*	6*
24643 MacCready									
12 23	20 35.38	− 2 37.8	2.221	1.636	23.9	17.8	42 E	33*	18*
1 2	21 3.92	− 1 38.8	2.271	1.637	22.5	17.8	40 E	31*	14*
1 12	21 32.39	− 0 27.8	2.323	1.641	20.9	17.8	37 E	29*	11*
1 22	22 0.67	+ 0 53.1	2.377	1.649	19.2	17.8	34 E	27*	8*
2 1	22 28.66	+ 2 21.5	2.433	1.659	17.5	17.8	30 E	24*	6*
2 11	22 56.30	+ 3 55.1	2.489	1.673	15.6	17.9	27 E	21*	4*
2 21	23 23.54	+ 5 31.2	2.546	1.689	13.7	17.9	24 E	18*	2*
3 2	23 50.37	+ 7 7.7	2.602	1.708	11.7	17.9	20 E	14*	1*
3 12	0 16.79	+ 8 42.1	2.656	1.730	9.6	17.8	17 E	11*	—
3 22	0 42.81	+10 12.6	2.708	1.754	7.5	17.8	13 E	7*	—
4 1	1 8.45	+11 37.3	2.757	1.779	5.4	17.8	10 E	4*	—
4 11	1 33.71	+12 54.6	2.801	1.807	3.3	17.7	6 E	—	—
4 21	1 58.60	+14 3.2	2.839	1.836	1.3	17.7	2 E	—	—
5 1	2 23.13	+15 2.0	2.872	1.866	1.4	17.7	3 W	—	—
5 11	2 47.26	+15 49.9	2.898	1.898	3.4	17.9	6 W	—	—
5 21	3 10.98	+16 26.2	2.917	1.930	5.4	18.1	10 W	—	4*
5 31	3 34.25	+16 50.5	2.928	1.964	7.5	18.2	15 W	—	8*
6 10	3 57.00	+17 2.2	2.931	1.997	9.5	18.4	19 W	1*	13*
6 20	4 19.19	+17 1.2	2.925	2.032	11.4	18.5	23 W	3*	17*
6 30	4 40.74	+16 47.4	2.909	2.066	13.3	18.6	28 W	7*	21*
7 10	5 1.57	+16 20.8	2.885	2.101	15.1	18.7	33 W	11*	24*
7 20	5 21.62	+15 41.9	2.852	2.136	16.8	18.7	37 W	16*	28*
7 30	5 40.77	+14 50.7	2.810	2.171	18.4	18.8	42 W	21*	31*
8 9	5 58.95	+13 47.8	2.758	2.206	19.8	18.8	48 W	26*	35*
8 19	6 16.04	+12 33.7	2.699	2.240	21.1	18.8	53 W	31*	38*
8 29	6 31.94	+11 8.8	2.630	2.274	22.3	18.9	59 W	36*	41*
9 8	6 46.50	+ 9 34.1	2.555	2.308	23.2	18.9	65 W	41*	45*
9 18	6 59.59	+ 7 50.1	2.473	2.342	23.9	18.8	71 W	45*	48*
9 28	7 11.03	+ 5 57.9	2.387	2.374	24.3	18.8	77 W	47*	52*
10 8	7 20.62	+ 3 58.6	2.296	2.407	24.4	18.7	84 W	48*	56*
10 18	7 28.13	+ 1 53.7	2.204	2.438	24.1	18.7	91 W	47	60*
10 28	7 33.30	− 0 14.6	2.113	2.469	23.4	18.6	99 W	45	64*
11 7	7 35.89	− 2 23.3	2.025	2.500	22.3	18.5	107 W	43	66
11 17	7 35.68	− 4 28.7	1.945	2.529	20.7	18.4	115 W	41	68
11 22	7 34.48	− 5 28.4	1.909	2.544	19.8	18.3	119 W	40	69
11 27	7 32.55	− 6 25.2	1.876	2.558	18.7	18.3	124 W	39	70
12 2	7 29.91	− 7 18.2	1.847	2.572	17.6	18.2	128 W	38	71
12 7	7 26.59	− 8 6.6	1.822	2.586	16.5	18.2	132 W	37	72
12 12	7 22.65	− 8 49.4	1.802	2.600	15.3	18.1	136 W	36	73
12 17	7 18.17	− 9 25.8	1.788	2.613	14.2	18.1	139 W	36	73
12 22	7 13.25	− 9 55.0	1.778	2.627	13.2	18.0	142 W	35	74
12 27	7 8.01	−10 16.6	1.775	2.640	12.4	18.0	145 W	35	74
1 1	7 2.60	−10 30.2	1.778	2.653	11.9	18.0	146 W	34	75
1 6	6 57.16	−10 35.6	1.788	2.665	11.7	18.0	147 E	34	75
1 11	6 51.83	−10 33.1	1.803	2.678	11.8	18.0	146 E	34	75
1 16	6 46.75	−10 23.0	1.825	2.690	12.1	18.1	145 E	35	74
326321 1999 VT_{180}									
12 23	20 35.57	−35 17.0	2.344	1.640	20.2	20.5	35 E	3*	29*
12 28	20 51.86	−34 14.9	2.355	1.633	19.6	20.5	34 E	4*	28*
1 2	21 7.97	−33 6.2	2.366	1.626	19.0	20.5	33 E	4*	26*
1 7	21 23.86	−31 51.2	2.377	1.620	18.4	20.5	31 E	4*	25*
1 12	21 39.51	−30 30.3	2.388	1.614	17.8	20.5	30 E	5*	24*
1 17	21 54.89	−29 4.0	2.399	1.610	17.2	20.4	29 E	5*	23*
1 22	22 9.99	−27 32.7	2.411	1.606	16.5	20.4	28 E	5*	21*
1 27	22 24.82	−25 56.9	2.423	1.603	15.9	20.4	26 E	5*	20*
2 1	22 39.36	−24 17.3	2.435	1.601	15.2	20.4	25 E	5*	19*
2 6	22 53.63	−22 34.3	2.448	1.599	14.6	20.4	24 E	4*	18*
2 11	23 7.61	−20 48.5	2.461	1.599	13.9	20.4	23 E	4*	17*
2 21	23 34.83	−17 10.3	2.489	1.601	12.5	20.3	21 E	3*	14*
3 2	0 1.13	−13 26.9	2.518	1.606	11.0	20.3	18 E	1*	12*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
326321 1999 VT_{180} *(continuation)*									
3 12	0 26.63	− 9 42.1	2.549	1.614	9.5	20.3	16 E	—	10*
3 22	0 51.47	− 5 59.1	2.580	1.626	8.0	20.3	13 E	—	7*
4 1	1 15.80	− 2 20.7	2.611	1.641	6.6	20.3	11 E	—	5*
4 11	1 39.72	+ 1 10.5	2.642	1.659	5.3	20.2	9 E	—	2*
4 21	2 3.36	+ 4 32.7	2.670	1.679	4.5	20.3	8 E	—	—
5 1	2 26.80	+ 7 44.3	2.695	1.702	4.4	20.3	8 W	—	—
5 11	2 50.10	+10 44.1	2.717	1.727	5.2	20.4	9 W	—	2*
5 21	3 13.33	+13 31.3	2.734	1.754	6.5	20.5	11 W	—	5*
5 31	3 36.52	+16 5.3	2.746	1.782	8.1	20.6	14 W	—	8*
6 10	3 59.67	+18 25.8	2.752	1.812	9.9	20.7	18 W	1*	11*
6 20	4 22.77	+20 32.8	2.751	1.844	11.7	20.8	22 W	5*	14*
6 30	4 45.80	+22 26.5	2.742	1.877	13.5	20.9	25 W	10*	16*
7 10	5 8.68	+24 7.4	2.726	1.910	15.3	21.0	30 W	15*	18*
7 20	5 31.37	+25 36.2	2.702	1.944	17.0	21.1	34 W	21*	19*
7 30	5 53.76	+26 54.1	2.669	1.979	18.6	21.2	39 W	27*	21*
8 9	6 15.76	+28 2.3	2.628	2.014	20.2	21.2	43 W	32*	21*
8 19	6 37.25	+29 2.4	2.578	2.049	21.6	21.3	48 W	39*	22*
8 29	6 58.11	+29 56.4	2.520	2.084	22.9	21.3	54 W	45*	23*
9 8	7 18.19	+30 46.4	2.454	2.120	24.0	21.3	59 W	51*	23*
9 18	7 37.36	+31 35.1	2.381	2.155	25.0	21.3	65 W	57*	24*
9 28	7 55.44	+32 25.3	2.302	2.190	25.6	21.3	71 W	63*	24*
10 8	8 12.23	+33 20.1	2.218	2.224	26.0	21.2	77 W	69*	25*
10 18	8 27.50	+34 22.8	2.130	2.258	26.0	21.2	84 W	76*	25*
10 28	8 40.95	+35 36.7	2.041	2.292	25.7	21.1	91 W	80*	25*
11 7	8 52.24	+37 5.0	1.952	2.325	24.9	21.0	99 W	82	25*
11 17	9 0.92	+38 49.9	1.867	2.357	23.6	20.9	107 W	84	25*
11 27	9 6.45	+40 52.1	1.789	2.389	21.8	20.8	116 W	86	23*
12 7	9 8.28	+43 9.5	1.723	2.420	19.6	20.7	124 W	88	21
12 17	9 5.80	+45 36.3	1.672	2.451	17.1	20.6	133 W	89	18
12 27	8 58.66	+48 1.7	1.641	2.481	14.6	20.5	141 W	87	16
1 1	8 53.39	+49 9.6	1.633	2.495	13.5	20.4	144 W	86	15
1 6	8 47.08	+50 11.6	1.632	2.509	12.6	20.4	146 W	85	14
1 11	8 39.90	+51 6.1	1.637	2.524	12.0	20.4	148 W	84	13
1 16	8 32.07	+51 51.3	1.648	2.538	11.8	20.4	148 W	83	12
43017 1999 VA_2									
12 23	20 36.05	− 0 57.6	2.203	1.636	24.4	19.5	43 E	34*	17*
1 2	21 3.94	+ 0 12.4	2.241	1.626	23.2	19.5	41 E	33*	13*
1 12	21 32.15	+ 1 34.1	2.280	1.618	21.9	19.5	38 E	31*	10*
1 22	22 0.53	+ 3 5.2	2.320	1.614	20.4	19.5	35 E	29*	7*
2 1	22 29.00	+ 4 43.7	2.362	1.614	18.9	19.5	32 E	26*	5*
2 11	22 57.44	+ 6 26.9	2.405	1.616	17.3	19.5	29 E	23*	3*
2 21	23 25.80	+ 8 11.9	2.450	1.622	15.6	19.4	26 E	20*	1*
3 2	23 54.04	+ 9 56.3	2.496	1.631	13.8	19.4	23 E	17*	—
3 12	0 22.10	+11 37.3	2.542	1.643	11.9	19.4	20 E	14*	—
3 22	0 49.98	+13 12.6	2.587	1.658	9.9	19.4	17 E	11*	—
4 1	1 17.66	+14 40.2	2.631	1.675	7.9	19.4	13 E	7*	—
4 11	1 45.09	+15 58.2	2.673	1.695	5.9	19.3	10 E	4*	—
4 21	2 12.26	+17 5.0	2.712	1.718	3.8	19.3	7 E	1*	—
5 1	2 39.13	+17 59.4	2.748	1.742	1.9	19.2	3 E	—	—
5 11	3 5.64	+18 40.5	2.778	1.769	1.0	19.2	2 W	—	—
5 21	3 31.74	+19 7.6	2.804	1.797	2.7	19.4	5 W	—	—
5 31	3 57.36	+19 20.3	2.823	1.827	4.7	19.6	9 W	—	2*
6 10	4 22.42	+19 18.3	2.836	1.858	6.8	19.7	12 W	—	6*
6 20	4 46.86	+19 1.9	2.842	1.890	8.8	19.8	16 W	—	10*
6 30	5 10.58	+18 31.1	2.840	1.922	10.7	20.0	21 W	3*	14*
7 10	5 33.52	+17 46.4	2.831	1.956	12.6	20.1	25 W	7*	17*
7 20	5 55.62	+16 48.5	2.814	1.990	14.4	20.2	29 W	11*	21*
7 30	6 16.79	+15 37.9	2.788	2.024	16.2	20.2	34 W	15*	24*
8 9	6 36.97	+14 15.4	2.754	2.058	17.8	20.3	38 W	20*	27*
8 19	6 56.11	+12 41.7	2.711	2.093	19.4	20.3	43 W	25*	31*
8 29	7 14.12	+10 57.8	2.661	2.127	20.8	20.4	48 W	29*	34*
9 8	7 30.94	+ 9 4.5	2.602	2.162	22.0	20.4	54 W	34*	38*
9 18	7 46.48	+ 7 2.7	2.537	2.196	23.1	20.4	59 W	38*	41*
9 28	8 0.63	+ 4 53.3	2.464	2.229	24.0	20.4	65 W	41*	45*
10 8	8 13.25	+ 2 37.5	2.385	2.263	24.6	20.4	71 W	43*	50*
10 18	8 24.20	+ 0 16.3	2.302	2.296	25.0	20.4	77 W	44*	55*
10 28	8 33.25	− 2 8.5	2.215	2.328	25.1	20.3	84 W	43*	60*
11 7	8 40.20	− 4 35.2	2.127	2.360	24.8	20.3	91 W	40	65*
11 17	8 44.78	− 7 1.1	2.040	2.391	24.2	20.2	98 W	38	70*
11 27	8 46.71	− 9 22.5	1.956	2.422	23.1	20.1	106 W	36	73
12 2	8 46.62	−10 30.1	1.917	2.437	22.4	20.0	110 W	34	75
12 7	8 45.79	−11 34.7	1.880	2.451	21.5	20.0	114 W	33	76
12 12	8 44.22	−12 35.5	1.845	2.466	20.6	19.9	118 W	32	77
12 17	8 41.89	−13 31.6	1.814	2.481	19.6	19.9	122 W	31	78
12 22	8 38.85	−14 22.1	1.786	2.495	18.6	19.8	126 W	31	78
12 27	8 35.14	−15 5.9	1.762	2.509	17.5	19.7	130 W	30	79
1 1	8 30.83	−15 42.4	1.743	2.523	16.4	19.7	134 W	29	80
1 6	8 26.01	−16 10.7	1.728	2.536	15.4	19.7	137 W	29	80
1 11	8 20.78	−16 30.1	1.719	2.550	14.5	19.6	140 W	28	81
1 16	8 15.30	−16 40.2	1.716	2.563	13.7	19.6	142 W	28	81

178856 2001 KY_{19}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	20 36.16	−21 7.7	2.489	1.782	18.7	20.1	36 E	16*	25*
1 2	21 3.22	−19 40.4	2.570	1.811	16.7	20.1	32 E	16*	21*
1 12	21 29.36	−18 0.4	2.649	1.841	14.6	20.2	28 E	14*	17*
1 22	21 54.56	−16 10.5	2.725	1.872	12.5	20.2	24 E	12*	14*
2 1	22 18.86	−14 13.0	2.797	1.905	10.4	20.2	20 E	10*	11*
2 11	22 42.30	−12 10.4	2.865	1.939	8.3	20.2	16 E	7*	8*
2 21	23 4.94	−10 4.8	2.927	1.973	6.2	20.2	12 E	3*	5*
3 2	23 26.85	− 7 58.1	2.982	2.008	4.3	20.2	9 E	—	2*
3 12	23 48.08	− 5 52.0	3.031	2.044	2.6	20.1	5 E	—	—
3 22	0 8.70	− 3 47.9	3.072	2.080	2.1	20.2	4 E	—	—
4 1	0 28.78	− 1 47.3	3.104	2.116	3.4	20.3	7 W	—	—
4 11	0 48.34	+ 0 8.8	3.127	2.152	5.2	20.5	11 W	—	4*
4 21	1 7.43	+ 1 59.4	3.140	2.188	7.1	20.6	16 W	—	9*
5 1	1 26.06	+ 3 43.7	3.143	2.224	9.0	20.7	20 W	—	14*
5 11	1 44.23	+ 5 20.8	3.136	2.260	10.8	20.8	25 W	—	19*
5 21	2 1.96	+ 6 50.3	3.118	2.295	12.6	20.9	30 W	2*	24*
5 31	2 19.20	+ 8 11.7	3.090	2.331	14.4	21.0	35 W	5*	28*
6 10	2 35.90	+ 9 24.4	3.051	2.365	16.0	21.1	40 W	9*	33*
6 20	2 52.02	+10 28.3	3.001	2.399	17.6	21.1	45 W	14*	37*
6 30	3 7.47	+11 23.2	2.941	2.433	19.0	21.1	51 W	19*	41*
7 10	3 22.13	+12 8.8	2.871	2.466	20.2	21.2	57 W	26*	44*
7 20	3 35.89	+12 45.3	2.791	2.498	21.2	21.2	63 W	32*	46*
7 30	3 48.57	+13 12.7	2.704	2.530	22.0	21.1	69 W	39*	48*
8 9	3 59.99	+13 31.3	2.609	2.561	22.6	21.1	76 W	46*	49*
8 19	4 9.94	+13 41.3	2.509	2.591	22.8	21.1	83 W	52*	50*
8 29	4 18.15	+13 43.1	2.405	2.621	22.7	21.0	91 W	56*	50
9 8	4 24.34	+13 37.3	2.300	2.649	22.1	20.9	99 W	58*	50
9 18	4 28.24	+13 24.5	2.196	2.677	21.0	20.8	108 W	58	51
9 28	4 29.55	+13 5.5	2.098	2.704	19.3	20.6	117 W	58	51
10 8	4 28.09	+12 41.4	2.009	2.730	17.0	20.5	127 W	58	51
10 18	4 23.79	+12 13.6	1.935	2.755	14.1	20.3	138 W	57	52
10 28	4 16.84	+11 44.0	1.881	2.780	10.6	20.2	149 W	57	52
11 7	4 7.76	+11 15.0	1.851	2.803	6.9	20.0	160 W	56	53
11 17	3 57.37	+10 49.5	1.848	2.826	3.7	19.8	169 W	56	53
11 27	3 46.74	+10 30.7	1.876	2.848	4.2	19.9	168 E	56	53
12 7	3 36.96	+10 21.0	1.933	2.869	7.5	20.2	158 E	55	54
12 17	3 28.90	+10 22.1	2.018	2.889	10.9	20.4	146 E	55	54
12 27	3 23.16	+10 34.5	2.126	2.908	13.8	20.6	135 E	56	53
1 6	3 19.98	+10 57.4	2.253	2.926	16.1	20.9	125 E	56	53
1 16	3 19.37	+11 29.5	2.395	2.943	17.7	21.1	115 E	56	53

512244 2015 YE_{18}

12 23	20 36.57	− 6 14.6	0.535	0.676	108.0	19.6	41 E	30*	20*
12 28	21 21.45	− 7 16.4	0.481	0.730	106.8	19.5	45 E	31*	25*
1 2	22 11.97	− 8 36.6	0.446	0.784	102.6	19.3	51 E	32*	32*
1 7	23 5.76	− 9 56.3	0.432	0.838	96.2	19.0	58 E	33*	40*
1 12	23 58.79	−10 56.7	0.439	0.890	88.7	18.9	65 E	33*	48*
1 17	0 47.30	−11 28.9	0.463	0.940	81.3	18.8	71 E	33*	55*
1 22	1 29.34	−11 35.0	0.501	0.989	74.7	18.9	76 E	33	60*
1 27	2 4.79	−11 22.3	0.549	1.036	69.1	19.0	79 E	34	63*
2 1	2 34.52	−10 57.8	0.603	1.081	64.5	19.2	82 E	34	65*
2 6	2 59.66	−10 26.6	0.663	1.123	60.7	19.3	83 E	35	66*
2 11	3 21.27	− 9 51.9	0.725	1.164	57.5	19.5	84 E	35	67*
2 16	3 40.18	− 9 15.7	0.789	1.203	54.8	19.7	84 E	36	67*
2 21	3 57.08	− 8 39.0	0.854	1.239	52.5	19.9	84 E	36*	67*
2 26	4 12.45	− 8 2.6	0.919	1.274	50.6	20.0	84 E	37*	66*
3 2	4 26.66	− 7 27.3	0.985	1.307	48.8	20.2	83 E	37*	66*
3 7	4 39.99	− 6 53.4	1.050	1.338	47.2	20.3	82 E	37*	65*
3 12	4 52.63	− 6 21.2	1.115	1.367	45.8	20.5	81 E	37*	64*
3 22	5 16.47	− 5 22.9	1.243	1.419	43.3	20.7	78 E	36*	63*
4 1	5 39.08	− 4 33.7	1.366	1.465	41.2	20.9	75 E	34*	61*
4 11	6 0.96	− 3 55.0	1.484	1.503	39.2	21.1	71 E	31*	59*
4 21	6 22.43	− 3 27.3	1.596	1.535	37.4	21.3	68 E	27*	58*
5 1	6 43.70	− 3 11.1	1.701	1.560	35.7	21.4	65 E	23*	56*
5 11	7 4.91	− 3 6.8	1.798	1.579	34.0	21.5	61 E	18*	53*

137722 1999 XN_{104}

12 23	20 37.11	− 1 27.6	2.292	1.717	23.2	20.1	43 E	34*	18*
1 2	21 1.67	+ 0 17.1	2.318	1.691	22.1	20.0	40 E	33*	13*
1 12	21 26.95	+ 2 13.7	2.341	1.667	20.9	20.0	37 E	31*	8*
1 22	21 52.92	+ 4 20.7	2.361	1.646	19.8	19.9	34 E	28*	5*
2 1	22 19.53	+ 6 36.2	2.381	1.628	18.6	19.9	32 E	26*	2*
2 11	22 46.75	+ 8 57.7	2.400	1.613	17.4	19.9	29 E	23*	—
2 21	23 14.56	+11 22.3	2.420	1.601	16.2	19.8	27 E	20*	—
3 2	23 42.95	+13 46.7	2.440	1.592	15.0	19.8	24 E	18*	—
3 12	0 11.90	+16 7.4	2.463	1.587	13.6	19.7	22 E	15*	—
3 22	0 41.37	+18 21.0	2.487	1.586	12.3	19.7	20 E	13*	—
4 1	1 11.33	+20 24.1	2.513	1.588	10.8	19.7	17 E	10*	—
4 11	1 41.68	+22 13.5	2.540	1.593	9.4	19.7	15 E	8*	—
4 21	2 12.31	+23 46.6	2.568	1.602	7.8	19.6	13 E	5*	—
5 1	2 43.09	+25 1.1	2.596	1.614	6.3	19.6	10 E	3*	—

137722 1999 XN_{104} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 11	3 13.82	+25 55.6	2.623	1.629	5.0	19.6	8 E	1*	—
5 21	3 44.33	+26 29.1	2.649	1.648	4.0	19.6	7 W	—	—
5 31	4 14.40	+26 41.4	2.673	1.669	3.8	19.6	6 W	—	—
6 10	4 43.82	+26 32.7	2.694	1.693	4.5	19.7	8 W	1*	—
6 20	5 12.44	+26 3.9	2.710	1.719	5.9	19.8	10 W	2*	1*
6 30	5 40.10	+25 16.2	2.722	1.747	7.5	19.9	13 W	4*	4*
7 10	6 6.66	+24 11.0	2.728	1.776	9.3	20.0	16 W	6*	7*
7 20	6 32.08	+22 49.9	2.728	1.808	11.1	20.2	20 W	9*	10*
7 30	6 56.28	+21 14.5	2.721	1.840	12.9	20.3	24 W	12*	13*
8 9	7 19.24	+19 26.5	2.707	1.874	14.7	20.4	28 W	16*	16*
8 19	7 40.96	+17 27.4	2.685	1.908	16.5	20.4	32 W	20*	19*
8 29	8 1.43	+15 18.6	2.655	1.944	18.2	20.5	37 W	24*	23*
9 8	8 20.65	+13 1.4	2.617	1.979	19.7	20.6	42 W	28*	26*
9 18	8 38.62	+10 37.1	2.571	2.015	21.2	20.6	46 W	32*	29*
9 28	8 55.31	+ 8 6.8	2.517	2.052	22.5	20.6	52 W	36*	33*
10 8	9 10.68	+ 5 31.4	2.455	2.088	23.7	20.7	57 W	39*	37*
10 18	9 24.66	+ 2 51.9	2.386	2.124	24.7	20.7	63 W	42*	42*
10 28	9 37.14	+ 0 9.5	2.310	2.160	25.4	20.7	69 W	43*	47*
11 7	9 47.99	− 2 34.9	2.230	2.196	25.9	20.6	75 W	42*	53*
11 17	9 57.00	− 5 19.9	2.145	2.231	26.0	20.6	82 W	40	59*
11 27	10 3.93	− 8 3.7	2.058	2.266	25.8	20.5	89 W	37	66*
12 7	10 8.51	−10 44.1	1.972	2.300	25.2	20.4	96 W	34	73*
12 17	10 10.43	−13 17.8	1.888	2.334	24.1	20.3	104 W	32	77
12 27	10 9.40	−15 40.1	1.811	2.368	22.6	20.2	112 W	29	80
1 1	10 7.73	−16 45.2	1.776	2.384	21.6	20.2	117 W	28	81
1 6	10 5.29	−17 45.2	1.743	2.400	20.6	20.1	121 W	27	82
1 11	10 2.07	−18 39.1	1.714	2.416	19.5	20.1	125 W	26	83
1 16	9 58.13	−19 25.9	1.690	2.432	18.3	20.0	129 W	26	83

154300 2002 UO

12 23	20 37.73	−23 28.6	1.408	0.833	43.3	21.2	36 E	14*	26*
12 28	21 6.68	−21 51.8	1.422	0.874	43.0	21.3	37 E	16*	27*
1 2	21 33.92	−20 0.7	1.443	0.916	42.3	21.5	39 E	18*	28*
1 7	21 59.44	−17 59.3	1.470	0.958	41.4	21.6	40 E	20*	28*
1 12	22 23.32	−15 51.4	1.502	1.000	40.4	21.7	41 E	22*	29*

401925 2002 AT_{15}

12 23	20 38.04	−36 41.6	1.670	1.046	33.5	21.0	36 E	2*	30*
12 28	21 1.53	−36 31.2	1.644	1.029	34.3	21.0	36 E	3*	30*
1 2	21 25.67	−36 2.6	1.618	1.016	35.3	20.9	37 E	3*	31*
1 7	21 50.27	−35 14.5	1.592	1.005	36.3	20.9	37 E	4*	31*
1 12	22 15.11	−34 5.8	1.567	0.998	37.4	20.9	38 E	5*	32*
1 17	22 39.98	−32 35.9	1.544	0.995	38.4	20.9	39 E	6*	33*
1 22	23 4.66	−30 44.9	1.523	0.995	39.4	20.9	40 E	8*	34*
1 27	23 28.98	−28 33.5	1.506	0.998	40.3	20.9	41 E	10*	35*
2 1	23 52.77	−26 3.4	1.492	1.005	40.9	20.9	42 E	12*	35*
2 6	0 15.92	−23 16.7	1.483	1.016	41.4	20.9	43 E	14*	36*
2 11	0 38.35	−20 16.2	1.479	1.029	41.7	20.9	44 E	16*	36*
2 16	1 0.03	−17 5.0	1.480	1.046	41.8	21.0	45 E	18*	37*
2 21	1 20.98	−13 46.6	1.488	1.065	41.6	21.0	46 E	21*	37*
2 26	1 41.21	−10 24.7	1.502	1.087	41.2	21.1	46 E	23*	37*
3 2	2 0.77	− 7 2.6	1.523	1.111	40.6	21.1	47 E	25*	36*
3 7	2 19.70	− 3 43.6	1.549	1.137	39.8	21.2	47 E	26*	35*
3 12	2 38.06	− 0 30.1	1.581	1.164	38.8	21.3	47 E	28*	35*
3 17	2 55.90	+ 2 35.5	1.618	1.193	37.8	21.3	47 E	29*	34*
3 22	3 13.29	+ 5 31.7	1.660	1.223	36.6	21.4	47 E	30*	33*

474277 2001 UD_1

12 23	20 38.19	−21 28.2	3.522	2.786	12.0	21.5	36 E	16*	26*
1 2	20 52.47	−19 56.3	3.570	2.755	10.1	21.4	29 E	14*	19*
1 12	21 7.09	−18 19.4	3.602	2.723	8.1	21.3	23 E	11*	13*
1 22	21 21.96	−16 37.2	3.619	2.690	6.0	21.2	17 E	7*	7*
2 1	21 37.03	−14 49.6	3.620	2.657	3.8	21.1	10 E	3*	2*
2 11	21 52.22	−12 56.5	3.605	2.622	1.6	20.9	4 E	—	—
2 21	22 7.51	−10 58.0	3.575	2.587	0.6	20.7	2 W	—	—
3 2	22 22.86	− 8 54.1	3.530	2.551	2.9	20.9	7 W	—	1*
3 12	22 38.24	− 6 44.8	3.471	2.514	5.1	20.9	13 W	1*	7*
3 22	22 53.66	− 4 30.4	3.399	2.476	7.4	21.0	19 W	3*	12*
4 1	23 9.12	− 2 10.7	3.314	2.437	9.7	21.0	24 W	6*	18*
4 11	23 24.61	+ 0 14.0	3.219	2.398	11.9	21.0	30 W	8*	23*
4 21	23 40.18	+ 2 43.8	3.113	2.359	14.1	20.9	35 W	11*	28*
5 1	23 55.82	+ 5 18.7	2.999	2.318	16.2	20.9	40 W	14*	32*
5 11	0 11.57	+ 7 58.6	2.877	2.277	18.3	20.8	45 W	17*	36*
5 21	0 27.48	+10 43.8	2.749	2.236	20.3	20.8	50 W	21*	39*
5 31	0 43.58	+13 34.4	2.616	2.194	22.2	20.7	55 W	26*	42*
6 10	0 59.91	+16 30.5	2.480	2.153	24.0	20.6	60 W	31*	42*
6 20	1 16.53	+19 32.3	2.343	2.111	25.7	20.4	64 W	37*	42*
6 30	1 33.50	+22 40.2	2.205	2.069	27.3	20.3	69 W	44*	40*
7 10	1 50.88	+25 54.2	2.067	2.027	28.7	20.2	73 W	51*	38*
7 20	2 8.75	+29 14.5	1.932	1.985	30.0	20.0	78 W	58*	35
7 30	2 27.17	+32 41.1	1.800	1.944	31.2	19.9	82 W	66*	31
8 9	2 46.23	+36 13.8	1.673	1.903	32.1	19.7	87 W	74*	28

474277 2001 UD_1 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
8 14	2 56.02	+38 2.2	1.612	1.884	32.5	19.6	89 W	77*	26
8 19	3 6.00	+39 52.0	1.552	1.864	32.9	19.5	91 W	81*	24
8 24	3 16.16	+41 42.8	1.494	1.844	33.2	19.4	93 W	84*	22
8 29	3 26.52	+43 34.5	1.437	1.825	33.5	19.3	95 W	88*	20
9 3	3 37.08	+45 26.8	1.383	1.807	33.7	19.2	97 W	90	19
9 8	3 47.85	+47 19.6	1.330	1.788	33.8	19.1	99 W	88	17
9 13	3 58.82	+49 12.5	1.279	1.770	33.9	19.0	101 W	86	15
9 18	4 9.95	+51 5.1	1.231	1.753	34.0	18.9	103 W	84	13
9 23	4 21.23	+52 56.8	1.184	1.736	34.0	18.8	105 W	82	11
9 28	4 32.62	+54 47.2	1.140	1.719	34.0	18.7	107 W	80	9
10 3	4 44.08	+56 35.8	1.098	1.703	33.9	18.6	108 W	78	7
10 8	4 55.53	+58 21.9	1.058	1.688	33.7	18.5	110 W	77	6
10 13	5 6.85	+60 5.1	1.020	1.673	33.5	18.4	112 W	75	4
10 18	5 17.88	+61 44.5	0.984	1.659	33.3	18.3	114 W	73	2
10 23	5 28.45	+63 19.3	0.950	1.646	33.0	18.2	116 W	72	1
10 28	5 38.33	+64 48.8	0.918	1.633	32.7	18.1	117 W	70	—
11 2	5 47.26	+66 12.3	0.888	1.622	32.3	18.0	119 W	69	—
11 7	5 54.89	+67 28.7	0.860	1.611	31.9	17.9	121 W	68	—
11 9	5 57.50	+67 57.0	0.850	1.607	31.7	17.8	121 W	67	—
11 11	5 59.81	+68 24.0	0.839	1.603	31.5	17.8	122 W	67	—
11 13	6 1.80	+68 49.5	0.829	1.599	31.3	17.8	123 W	66	—
11 15	6 3.45	+69 13.5	0.819	1.595	31.1	17.7	124 W	66	—
11 17	6 4.73	+69 35.7	0.810	1.592	30.9	17.7	124 W	65	—
11 19	6 5.63	+69 56.1	0.801	1.588	30.7	17.6	125 W	65	—
11 21	6 6.14	+70 14.6	0.792	1.585	30.5	17.6	126 W	65	—
11 23	6 6.24	+70 30.9	0.784	1.582	30.3	17.6	126 W	64	—
11 25	6 5.93	+70 45.1	0.776	1.579	30.0	17.5	127 W	64	—
11 27	6 5.22	+70 56.9	0.768	1.576	29.8	17.5	127 W	64	—
12 2	6 1.71	+71 15.2	0.750	1.570	29.2	17.4	129 W	64	—
12 7	5 56.05	+71 15.4	0.734	1.565	28.6	17.4	131 W	64	—
12 12	5 48.87	+70 55.2	0.721	1.561	28.0	17.3	132 W	64	—
12 17	5 41.10	+70 12.7	0.710	1.558	27.4	17.2	133 W	65	—
12 19	5 38.06	+69 49.3	0.706	1.557	27.2	17.2	134 E	65	—
12 21	5 35.16	+69 22.2	0.703	1.556	27.1	17.2	134 E	66	—
12 23	5 32.43	+68 51.5	0.701	1.556	26.9	17.2	134 E	66	—
12 25	5 29.92	+68 17.4	0.698	1.555	26.8	17.2	135 E	67	—
12 27	5 27.68	+67 39.8	0.697	1.555	26.6	17.2	135 E	67	—
12 29	5 25.72	+66 58.9	0.696	1.555	26.6	17.2	135 E	68	—
12 31	5 24.07	+66 14.9	0.695	1.555	26.5	17.2	135 E	69	—
1 2	5 22.72	+65 28.0	0.695	1.556	26.4	17.2	135 E	70	—
1 4	5 21.70	+64 38.3	0.696	1.556	26.4	17.2	135 E	70	—
1 6	5 20.99	+63 46.0	0.697	1.557	26.5	17.2	135 E	71	—
1 8	5 20.60	+62 51.3	0.699	1.558	26.5	17.2	135 E	72	1
1 10	5 20.52	+61 54.5	0.701	1.558	26.6	17.2	135 E	73	2
1 12	5 20.73	+60 55.7	0.704	1.560	26.7	17.2	134 E	74	3
1 14	5 21.24	+59 55.2	0.708	1.561	26.9	17.2	134 E	75	4
1 16	5 22.02	+58 53.3	0.712	1.562	27.1	17.2	134 E	76	5

218340 2004 BU_{129}

12 23	20 38.26	−14 52.7	2.226	1.567	22.5	20.5	38 E	22*	23*
1 2	21 6.84	−12 34.3	2.272	1.569	21.0	20.5	35 E	22*	19*
1 12	21 35.00	−10 2.9	2.318	1.573	19.4	20.5	32 E	22*	15*
1 22	22 2.70	− 7 21.4	2.365	1.582	17.7	20.5	29 E	21*	12*
2 1	22 29.93	− 4 32.4	2.413	1.594	16.0	20.5	27 E	19*	9*
2 11	22 56.71	− 1 39.0	2.462	1.609	14.3	20.5	24 E	17*	6*
2 21	23 23.08	+ 1 15.9	2.512	1.628	12.6	20.5	21 E	15*	4*
3 2	23 49.11	+ 4 9.8	2.562	1.650	10.8	20.5	18 E	12*	2*
3 12	0 14.83	+ 6 59.9	2.611	1.674	9.1	20.5	15 E	9*	—
3 22	0 40.32	+ 9 44.2	2.659	1.700	7.3	20.5	13 E	7*	—
4 1	1 5.62	+12 20.5	2.706	1.729	5.6	20.5	10 E	4*	—
4 11	1 30.77	+14 47.2	2.749	1.759	4.1	20.5	7 E	1*	—
4 21	1 55.80	+17 2.8	2.790	1.792	2.9	20.5	5 E	—	—
5 1	2 20.72	+19 6.0	2.827	1.825	2.8	20.6	5 W	—	—
5 11	2 45.50	+20 56.0	2.858	1.860	3.8	20.7	7 W	—	—
5 21	3 10.12	+22 32.1	2.884	1.895	5.3	20.8	10 W	2*	2*
5 31	3 34.53	+23 54.0	2.903	1.931	7.0	21.0	13 W	4*	5*
6 10	3 58.64	+25 1.4	2.915	1.968	8.8	21.1	17 W	6*	8*
6 20	4 22.38	+25 54.6	2.919	2.005	10.5	21.2	21 W	9*	11*
6 30	4 45.65	+26 33.9	2.914	2.042	12.3	21.3	25 W	13*	14*
7 10	5 8.32	+26 59.9	2.901	2.080	14.0	21.4	30 W	17*	16*
7 20	5 30.31	+27 13.5	2.877	2.117	15.7	21.5	34 W	22*	18*

317683 2003 *MS*

12 23	20 38.47	−17 9.6	2.229	1.560	22.3	21.1	37 E	20*	24*
1 2	21 7.86	−14 53.2	2.289	1.576	20.5	21.1	34 E	20*	20*
1 12	21 36.34	−12 24.5	2.351	1.596	18.7	21.1	31 E	20*	17*
1 22	22 3.91	− 9 46.6	2.414	1.619	16.9	21.2	29 E	19*	13*
2 1	22 30.63	− 7 2.5	2.477	1.644	15.0	21.2	26 E	17*	10*
2 11	22 56.54	− 4 15.1	2.541	1.671	13.0	21.2	22 E	15*	7*
2 21	23 21.73	− 1 27.0	2.603	1.701	11.1	21.2	19 E	12*	5*

317683 2003 *MS* *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 2	23 46.30	+ 1 19.6	2.663	1.732	9.1	21.2	16 E	10*	2*
3 12	0 10.33	+ 4 2.6	2.721	1.765	7.1	21.2	13 E	6*	—
3 22	0 33.90	+ 6 40.3	2.776	1.799	5.1	21.2	9 E	3*	—
4 1	0 57.09	+ 9 11.4	2.825	1.835	3.2	21.2	6 E	—	—
4 11	1 19.95	+11 34.4	2.870	1.870	1.8	21.2	3 E	—	—
4 21	1 42.55	+13 48.6	2.909	1.907	2.0	21.3	4 W	—	—
5 1	2 4.90	+15 52.9	2.940	1.944	3.6	21.4	7 W	—	—

100333 1995 SN_5

12 23	20 38.74	−32 25.7	2.403	1.700	19.6	19.6	35 E	6*	29*
12 28	20 53.73	−30 58.1	2.440	1.714	18.7	19.7	34 E	7*	27*
1 2	21 8.18	−29 27.4	2.478	1.728	17.7	19.7	32 E	7*	25*
1 7	21 22.13	−27 54.1	2.516	1.742	16.7	19.7	31 E	8*	24*
1 12	21 35.59	−26 18.7	2.554	1.757	15.7	19.7	29 E	8*	22*
1 17	21 48.60	−24 41.8	2.591	1.772	14.6	19.7	27 E	8*	20*
1 22	22 1.18	−23 3.7	2.628	1.788	13.6	19.7	25 E	7*	18*
2 1	22 25.20	−19 45.8	2.701	1.821	11.4	19.8	21 E	6*	14*
2 11	22 47.86	−16 27.6	2.771	1.855	9.3	19.8	18 E	4*	11*
2 21	23 9.37	−13 11.0	2.836	1.889	7.1	19.8	14 E	2*	7*
3 2	23 29.91	− 9 57.6	2.895	1.925	5.0	19.8	10 E	—	4*
3 12	23 49.62	− 6 48.4	2.946	1.961	3.1	19.7	6 E	—	—
3 22	0 8.62	− 3 44.2	2.990	1.998	2.2	19.7	4 E	—	—
4 1	0 27.04	− 0 45.5	3.025	2.035	3.2	19.9	6 W	—	—
4 11	0 44.93	+ 2 7.2	3.050	2.072	5.0	20.0	10 W	—	4*
4 21	1 2.37	+ 4 53.7	3.065	2.110	7.0	20.2	15 W	—	9*
5 1	1 19.40	+ 7 34.0	3.069	2.147	9.1	20.3	20 W	1*	14*
5 11	1 36.05	+10 8.0	3.062	2.184	11.1	20.4	25 W	4*	18*
5 21	1 52.32	+12 35.9	3.043	2.220	13.0	20.5	30 W	8*	23*
5 31	2 8.20	+14 57.7	3.013	2.256	14.9	20.6	35 W	12*	26*
6 10	2 23.65	+17 13.8	2.973	2.292	16.6	20.7	40 W	17*	30*
6 20	2 38.64	+19 24.6	2.921	2.327	18.2	20.7	46 W	22*	33*
6 30	2 53.07	+21 30.5	2.859	2.362	19.7	20.7	51 W	29*	35*
7 10	3 6.83	+23 32.1	2.787	2.396	20.9	20.8	57 W	36*	36*
7 20	3 19.78	+25 30.3	2.706	2.429	22.0	20.8	63 W	44*	36*
7 30	3 31.72	+27 25.9	2.617	2.462	22.8	20.7	70 W	52*	35*
8 9	3 42.43	+29 19.7	2.523	2.493	23.3	20.7	77 W	60*	34*
8 19	3 51.60	+31 12.7	2.423	2.524	23.5	20.6	84 W	68*	33
8 29	3 58.86	+33 5.7	2.321	2.554	23.3	20.6	91 W	76*	31
9 8	4 3.80	+34 58.9	2.220	2.584	22.6	20.5	99 W	80	29
9 13	4 5.25	+35 55.5	2.170	2.598	22.1	20.4	104 W	81	28
9 18	4 5.92	+36 51.9	2.122	2.612	21.5	20.4	108 W	82	27
9 23	4 5.76	+37 47.7	2.075	2.626	20.7	20.3	112 W	83	26
9 28	4 4.71	+38 42.5	2.031	2.640	19.8	20.2	117 W	84	25
10 3	4 2.72	+39 35.8	1.990	2.653	18.8	20.2	121 W	85	24
10 8	3 59.76	+40 26.8	1.952	2.666	17.6	20.1	126 W	85	24
10 13	3 55.82	+41 14.8	1.918	2.679	16.4	20.0	131 W	86	23
10 18	3 50.89	+41 58.6	1.889	2.692	15.0	20.0	136 W	87	22
10 23	3 45.05	+42 37.2	1.865	2.705	13.6	19.9	140 W	88	21
10 28	3 38.40	+43 9.6	1.847	2.717	12.3	19.8	144 W	88	21
11 2	3 31.09	+43 34.9	1.835	2.729	11.0	19.8	148 W	89	20
11 7	3 23.30	+43 52.5	1.829	2.741	10.0	19.7	151 W	89	20
11 12	3 15.24	+44 2.0	1.830	2.752	9.2	19.7	154 W	89	20
11 17	3 7.17	+44 3.2	1.838	2.764	8.9	19.7	154 E	89	20
11 22	2 59.33	+43 56.7	1.854	2.775	9.0	19.8	154 E	89	20
11 27	2 51.95	+43 43.4	1.876	2.786	9.6	19.8	152 E	89	20
12 2	2 45.22	+43 24.3	1.905	2.796	10.5	19.9	149 E	88	21
12 7	2 39.28	+43 0.7	1.940	2.807	11.5	20.0	145 E	88	21
12 12	2 34.23	+42 34.0	1.981	2.817	12.7	20.1	141 E	88	21
12 17	2 30.14	+42 5.5	2.028	2.827	13.8	20.2	137 E	87	22
12 22	2 27.03	+41 36.4	2.080	2.836	14.9	20.3	132 E	87	22
12 27	2 24.90	+41 7.9	2.137	2.845	15.9	20.4	128 E	86	23
1 1	2 23.70	+40 40.8	2.198	2.855	16.8	20.5	123 E	86	23
1 6	2 23.40	+40 15.6	2.261	2.863	17.6	20.6	118 E	85	24*
1 11	2 23.94	+39 52.9	2.328	2.872	18.2	20.7	114 E	85	24*
1 16	2 25.27	+39 32.9	2.398	2.880	18.8	20.8	110 E	85	24*

3103 Eger

12 23	20 39.62	−25 44.0	1.575	0.965	36.5	17.8	36 E	12*	27*
12 28	21 1.85	−25 22.7	1.554	0.949	37.3	17.7	36 E	13*	27*
1 2	21 24.46	−24 47.9	1.531	0.935	38.1	17.7	36 E	13*	28*
1 7	21 47.36	−23 59.1	1.508	0.923	39.1	17.7	36 E	14*	28*
1 12	22 10.46	−22 56.1	1.486	0.915	40.2	17.6	37 E	15*	28*
1 22	22 56.88	−20 7.0	1.444	0.907	42.3	17.6	38 E	17*	29*
2 1	23 43.07	−16 23.4	1.408	0.912	44.1	17.6	40 E	19*	30*
2 11	0 28.50	−11 53.6	1.382	0.929	45.5	17.7	42 E	22*	31*
2 16	0 50.85	− 9 25.4	1.374	0.942	45.9	17.7	43 E	24*	32*
2 21	1 12.93	− 6 50.9	1.370	0.957	46.2	17.7	44 E	25*	32*
2 26	1 34.73	− 4 12.5	1.371	0.975	46.2	17.8	45 E	27*	32*
3 2	1 56.28	− 1 32.5	1.376	0.994	46.0	17.8	46 E	29*	32*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3103 Eger *(continuation)*									
3 7	2 17.55	+ 1 6.6	1.385	1.016	45.7	17.9	47 E	30*	32*
3 12	2 38.56	+ 3 42.6	1.399	1.038	45.2	17.9	48 E	31*	32*
3 17	2 59.31	+ 6 13.5	1.417	1.063	44.5	18.0	48 E	32*	32*
3 22	3 19.83	+ 8 37.5	1.440	1.088	43.7	18.0	49 E	33*	32*
3 27	3 40.10	+10 52.9	1.467	1.114	42.8	18.1	49 E	34*	32*
4 1	4 0.13	+12 58.8	1.498	1.140	41.8	18.2	50 E	35*	31*
4 11	4 39.40	+16 38.3	1.569	1.195	39.7	18.3	50 E	35*	31*
4 21	5 17.55	+19 32.8	1.652	1.250	37.4	18.5	49 E	34*	30*
5 1	5 54.47	+21 42.8	1.744	1.304	35.0	18.6	48 E	33*	29*
5 6	6 12.43	+22 31.9	1.791	1.331	33.8	18.7	47 E	32*	29*
5 11	6 30.02	+23 11.1	1.840	1.358	32.6	18.7	46 E	31*	28*
5 16	6 47.24	+23 41.0	1.890	1.384	31.4	18.8	45 E	29*	28*
5 21	7 4.10	+24 2.1	1.940	1.410	30.2	18.9	44 E	28*	27*
5 26	7 20.57	+24 15.1	1.991	1.435	29.0	18.9	43 E	27*	27*
5 31	7 36.66	+24 20.7	2.041	1.460	27.8	19.0	42 E	25*	27*
6 5	7 52.36	+24 19.2	2.092	1.484	26.7	19.0	41 E	24*	26*
6 10	8 7.69	+24 11.5	2.141	1.508	25.5	19.1	40 E	22*	26*
6 15	8 22.64	+23 58.0	2.191	1.531	24.4	19.1	38 E	21*	25*
6 20	8 37.23	+23 39.2	2.239	1.554	23.2	19.2	37 E	19*	24*
6 25	8 51.48	+23 15.7	2.286	1.575	22.1	19.2	36 E	18*	23*
6 30	9 5.39	+22 47.8	2.332	1.597	21.0	19.3	34 E	17*	23*
7 10	9 32.25	+21 41.0	2.420	1.637	18.7	19.3	31 E	14*	21*
7 20	9 57.96	+20 21.6	2.502	1.675	16.6	19.4	28 E	13*	18*
7 30	10 22.66	+18 52.5	2.577	1.709	14.4	19.4	25 E	11*	15*
8 9	10 46.47	+17 16.0	2.643	1.741	12.4	19.4	22 E	10*	12*
8 19	11 9.54	+15 34.0	2.700	1.770	10.5	19.4	19 E	9*	9*
8 29	11 32.00	+13 48.3	2.748	1.796	8.7	19.4	16 E	8*	5*
9 8	11 53.95	+12 0.5	2.786	1.820	7.3	19.4	13 E	7*	2*
9 18	12 15.52	+10 12.1	2.813	1.840	6.3	19.4	12 E	6*	—
9 28	12 36.81	+ 8 24.4	2.829	1.857	6.1	19.5	11 E	5*	—
10 8	12 57.89	+ 6 38.8	2.835	1.872	6.7	19.5	13 E	3*	—
10 18	13 18.86	+ 4 56.4	2.829	1.884	7.8	19.6	15 W	7*	—
10 28	13 39.77	+ 3 18.6	2.812	1.892	9.4	19.6	18 W	11*	—
11 7	14 0.68	+ 1 46.3	2.784	1.898	11.1	19.7	22 W	15*	—
11 17	14 21.65	+ 0 20.9	2.745	1.901	13.0	19.7	26 W	20*	—
11 27	14 42.67	− 0 56.6	2.695	1.901	14.9	19.8	30 W	23*	4*
12 7	15 3.79	− 2 5.0	2.635	1.898	16.8	19.8	34 W	27*	9*
12 17	15 25.00	− 3 3.5	2.565	1.893	18.8	19.8	38 W	30*	14*
12 27	15 46.29	− 3 50.9	2.485	1.884	20.7	19.8	43 W	32*	19*
1 6	16 7.64	− 4 26.6	2.398	1.872	22.6	19.7	47 W	34*	25*
1 16	16 29.01	− 4 49.8	2.302	1.858	24.5	19.7	52 W	35*	31*
443103 2013 WT_{67}									
12 23	20 40.34	−11 5.5	1.446	0.929	42.3	20.3	40 E	26*	22*
1 2	21 15.05	− 6 19.1	1.409	0.900	43.9	20.2	39 E	29*	19*
1 12	21 50.27	− 1 14.1	1.365	0.875	45.9	20.1	40 E	31*	15*
1 22	22 26.69	+ 4 2.7	1.315	0.855	48.5	20.1	41 E	33*	12*
1 27	22 45.61	+ 6 42.6	1.288	0.847	49.9	20.0	41 E	34*	11*
2 1	23 5.15	+ 9 21.8	1.261	0.842	51.3	20.0	42 E	35*	10*
2 6	23 25.43	+11 58.3	1.233	0.838	52.8	20.0	43 E	36*	10*
2 11	23 46.55	+14 30.3	1.205	0.836	54.2	20.0	43 E	37*	10*
2 16	0 8.64	+16 55.3	1.178	0.836	55.7	20.0	44 E	38*	10*
2 21	0 31.77	+19 11.0	1.152	0.839	57.0	20.0	45 E	39*	10*
2 26	0 55.99	+21 14.6	1.128	0.843	58.2	20.0	46 E	40*	11*
3 2	1 21.31	+23 3.3	1.106	0.849	59.2	20.0	47 E	41*	12*
3 7	1 47.65	+24 34.2	1.086	0.857	60.1	20.0	48 E	42*	13*
3 12	2 14.85	+25 44.8	1.069	0.867	60.7	20.0	50 E	43*	15*
3 17	2 42.71	+26 33.1	1.055	0.878	61.2	20.0	51 E	44*	16*
3 22	3 10.94	+26 57.7	1.045	0.890	61.4	20.0	52 E	45*	18*
3 27	3 39.21	+26 58.6	1.038	0.904	61.4	20.1	53 E	45*	21*
4 1	4 7.18	+26 36.2	1.035	0.918	61.2	20.1	54 E	45*	23*
4 6	4 34.55	+25 52.2	1.035	0.933	60.9	20.1	55 E	45*	25*
4 11	5 1.05	+24 48.8	1.039	0.949	60.3	20.1	55 E	44*	28*
4 16	5 26.51	+23 28.9	1.046	0.965	59.7	20.2	56 E	43*	30*
4 21	5 50.84	+21 55.4	1.056	0.981	59.0	20.2	57 E	42*	33*
4 26	6 14.02	+20 11.3	1.069	0.998	58.2	20.2	57 E	40*	35*
5 1	6 36.05	+18 19.2	1.084	1.015	57.3	20.3	58 E	38*	38*
5 6	6 56.99	+16 21.4	1.101	1.031	56.4	20.3	58 E	36*	40*
5 11	7 16.92	+14 20.0	1.120	1.047	55.4	20.4	59 E	33*	42*
5 16	7 35.94	+12 16.4	1.140	1.063	54.5	20.4	59 E	30*	44*
5 21	7 54.17	+10 12.0	1.161	1.078	53.6	20.5	59 E	28*	46*
5 26	8 11.71	+ 8 7.7	1.184	1.093	52.7	20.5	59 E	25*	47*
5 31	8 28.64	+ 6 4.0	1.207	1.108	51.8	20.5	59 E	22*	49*
6 5	8 45.06	+ 4 1.6	1.230	1.122	50.9	20.6	59 E	19*	50*
6 10	9 1.05	+ 2 0.9	1.253	1.135	50.0	20.6	59 E	16*	51*
6 15	9 16.70	+ 0 2.0	1.277	1.147	49.2	20.7	59 E	14*	51*
6 20	9 32.07	− 1 54.8	1.300	1.159	48.4	20.7	59 E	11*	52*
6 25	9 47.23	− 3 49.6	1.324	1.170	47.6	20.7	58 E	9*	52*
6 30	10 2.25	− 5 42.2	1.347	1.180	46.9	20.8	58 E	7*	52*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
443103 2013 WT_{67} *(continuation)*									
7 5	10 17.16	− 7 32.4	1.370	1.189	46.2	20.8	58 E	5*	52*
7 10	10 32.02	− 9 20.3	1.392	1.198	45.5	20.8	57 E	3*	51*
7 15	10 46.89	−11 5.7	1.414	1.206	44.8	20.9	57 E	2*	50*
7 20	11 1.80	−12 48.5	1.436	1.212	44.1	20.9	56 E	—	50*
7 25	11 16.80	−14 28.6	1.456	1.218	43.5	20.9	56 E	—	49*
7 30	11 31.92	−16 5.9	1.477	1.223	42.9	20.9	55 E	—	48*
8 4	11 47.19	−17 40.1	1.496	1.227	42.3	21.0	55 E	—	47*
8 9	12 2.65	−19 11.0	1.515	1.230	41.7	21.0	54 E	—	46*
8 14	12 18.33	−20 38.2	1.534	1.232	41.2	21.0	53 E	—	45*
8 19	12 34.26	−22 1.6	1.552	1.234	40.6	21.0	53 E	—	44*
8 24	12 50.46	−23 20.8	1.569	1.234	40.1	21.0	52 E	—	43*
8 29	13 6.95	−24 35.4	1.585	1.233	39.6	21.0	51 E	—	42*
9 3	13 23.74	−25 45.0	1.601	1.232	39.1	21.0	50 E	—	42*
9 8	13 40.84	−26 49.0	1.616	1.229	38.5	21.0	49 E	—	41*
9 13	13 58.26	−27 47.2	1.630	1.226	38.0	21.0	49 E	—	40*
9 18	14 16.01	−28 39.0	1.644	1.221	37.5	21.0	48 E	—	39*
9 23	14 34.06	−29 24.0	1.657	1.216	37.0	21.0	47 E	—	39*
9 28	14 52.41	−30 1.7	1.668	1.210	36.5	21.0	46 E	—	38*
10 3	15 11.03	−30 31.6	1.679	1.203	36.1	21.0	45 E	—	38*
10 8	15 29.88	−30 53.2	1.689	1.195	35.6	21.0	44 E	—	37*
10 13	15 48.94	−31 6.2	1.699	1.186	35.1	21.0	43 E	1*	36*
10 18	16 8.16	−31 10.3	1.707	1.177	34.6	20.9	42 E	1*	36*
10 23	16 27.50	−31 5.1	1.714	1.166	34.2	20.9	41 E	2*	35*
10 28	16 46.89	−30 50.4	1.719	1.155	33.7	20.9	40 E	3*	34*
11 2	17 6.29	−30 26.0	1.724	1.143	33.3	20.9	39 E	4*	33*
11 7	17 25.65	−29 51.8	1.728	1.130	32.9	20.8	38 E	6*	32*
11 12	17 44.93	−29 7.8	1.730	1.117	32.5	20.8	37 E	7*	31*
11 17	18 4.08	−28 14.1	1.730	1.103	32.1	20.8	36 E	8*	30*
11 22	18 23.07	−27 10.7	1.730	1.088	31.8	20.7	35 E	9*	29*
11 27	18 41.88	−25 57.8	1.727	1.073	31.5	20.7	35 E	10*	27*
12 2	19 0.47	−24 35.7	1.724	1.058	31.2	20.6	34 E	12*	26*
12 7	19 18.86	−23 4.5	1.718	1.042	31.1	20.6	33 E	13*	24*
12 12	19 37.04	−21 24.6	1.711	1.025	30.9	20.5	32 E	14*	23*
12 17	19 55.02	−19 36.3	1.703	1.009	30.9	20.5	32 E	16*	21*
12 22	20 12.84	−17 40.0	1.692	0.992	30.9	20.5	31 E	17*	19*
12 27	20 30.50	−15 36.1	1.680	0.976	31.1	20.4	31 E	18*	17*
1 1	20 48.06	−13 25.1	1.666	0.959	31.4	20.4	31 E	19*	16*
1 6	21 5.56	−11 7.4	1.651	0.943	31.8	20.3	30 E	20*	14*
1 11	21 23.07	− 8 43.6	1.633	0.928	32.3	20.3	30 E	21*	12*
1 16	21 40.64	− 6 14.3	1.615	0.913	33.0	20.2	30 E	22*	11*
220911 2005 EY_{139}									
12 23	20 41.04	−24 5.5	2.423	1.729	19.6	20.4	36 E	14*	27*
1 2	21 9.25	−22 22.2	2.499	1.755	17.7	20.4	33 E	14*	23*
1 12	21 36.39	−20 25.3	2.573	1.782	15.7	20.5	29 E	13*	20*
1 22	22 2.47	−18 17.9	2.646	1.811	13.7	20.5	26 E	12*	16*
2 1	22 27.54	−16 2.7	2.716	1.842	11.7	20.5	22 E	10*	13*
2 11	22 51.65	−13 42.6	2.782	1.873	9.6	20.5	19 E	7*	10*
2 21	23 14.89	−11 19.8	2.845	1.906	7.7	20.5	15 E	4*	8*
3 2	23 37.34	− 8 56.3	2.901	1.939	5.8	20.5	11 E	1*	5*
3 12	23 59.08	− 6 34.2	2.952	1.974	4.1	20.5	8 E	—	2*
3 22	0 20.19	− 4 14.9	2.996	2.008	3.0	20.5	6 E	—	—
4 1	0 40.75	− 1 59.6	3.033	2.043	3.2	20.6	7 W	—	—
4 11	1 0.81	+ 0 10.3	3.061	2.078	4.5	20.7	9 W	—	2*
4 21	1 20.41	+ 2 14.1	3.080	2.113	6.1	20.8	13 W	—	6*
5 1	1 39.58	+ 4 10.9	3.090	2.148	8.0	21.0	17 W	—	11*
5 11	1 58.34	+ 6 0.1	3.090	2.183	9.8	21.1	22 W	—	15*
5 21	2 16.70	+ 7 41.1	3.080	2.217	11.6	21.2	26 W	—	20*
5 31	2 34.62	+ 9 13.6	3.060	2.252	13.4	21.3	31 W	3*	25*
6 10	2 52.08	+10 37.4	3.029	2.286	15.1	21.3	36 W	7*	29*
6 20	3 9.03	+11 52.2	2.987	2.319	16.7	21.4	41 W	12*	33*
6 30	3 25.39	+12 58.1	2.935	2.352	18.2	21.4	46 W	17*	37*
7 10	3 41.06	+13 55.2	2.873	2.384	19.6	21.5	52 W	24*	40*
7 20	3 55.95	+14 43.7	2.801	2.416	20.8	21.5	58 W	30*	42*
7 30	4 9.89	+15 24.0	2.720	2.446	21.8	21.5	64 W	37*	44*
8 9	4 22.71	+15 56.6	2.630	2.477	22.6	21.5	70 W	44*	45*
8 19	4 34.23	+16 22.1	2.534	2.506	23.2	21.4	77 W	51*	46*
8 29	4 44.17	+16 41.3	2.431	2.535	23.3	21.4	84 W	56*	47*
9 8	4 52.30	+16 55.1	2.325	2.563	23.1	21.3	92 W	60*	47*
9 18	4 58.29	+17 4.4	2.218	2.590	22.5	21.2	100 W	62	47
9 28	5 1.82	+17 10.2	2.113	2.616	21.2	21.1	109 W	62	47
10 8	5 2.59	+17 13.6	2.014	2.641	19.4	20.9	118 W	62	47
10 18	5 0.39	+17 15.1	1.925	2.666	16.9	20.8	129 W	62	47
10 28	4 55.14	+17 15.4	1.851	2.689	13.7	20.6	140 W	62	47
11 7	4 47.09	+17 14.9	1.798	2.712	10.0	20.4	152 W	62	47
11 17	4 36.83	+17 13.8	1.770	2.734	5.7	20.2	164 W	62	47
11 22	4 31.16	+17 13.2	1.766	2.744	3.6	20.1	170 W	62	47
11 27	4 25.35	+17 12.8	1.770	2.754	1.8	20.0	175 W	62	47
12 2	4 19.53	+17 12.8	1.782	2.764	2.0	20.0	174 E	62	47
12 7	4 13.86	+17 13.3	1.801	2.774	3.9	20.2	169 E	62	47
12 12	4 8.49	+17 14.5	1.828	2.784	6.0	20.3	163 E	62	47

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
220911 2005 EY_{139} *(continuation)*									
12 17	4 3.55	+17 16.7	1.862	2.793	8.0	20.4	157 E	62	47
12 22	3 59.14	+17 20.2	1.902	2.802	9.9	20.6	151 E	62	47
12 27	3 55.36	+17 25.1	1.949	2.811	11.6	20.7	145 E	62	47
1 1	3 52.24	+17 31.5	2.002	2.820	13.2	20.8	139 E	63	46
1 6	3 49.82	+17 39.5	2.060	2.828	14.6	20.9	133 E	63	46
1 11	3 48.12	+17 49.2	2.122	2.836	15.8	21.1	128 E	63	46
1 16	3 47.13	+18 0.4	2.189	2.844	16.9	21.2	123 E	63	46
480817 1998 SJ_2									
12 23	20 42.68	−21 48.3	1.786	1.161	30.6	21.1	37 E	16*	27*
12 28	21 2.40	−19 58.7	1.789	1.160	30.4	21.1	37 E	18*	26*
1 2	21 21.80	−18 0.8	1.794	1.162	30.3	21.1	37 E	19*	25*
1 7	21 40.86	−15 55.8	1.802	1.167	30.0	21.1	36 E	20*	24*
1 12	21 59.55	−13 45.0	1.812	1.174	29.7	21.1	36 E	22*	22*
1 17	22 17.87	−11 29.7	1.826	1.184	29.4	21.2	36 E	23*	21*
1 22	22 35.82	− 9 11.3	1.843	1.196	28.9	21.2	36 E	24*	20*
1 27	22 53.42	− 6 51.0	1.863	1.211	28.4	21.2	36 E	24*	19*
2 1	23 10.69	− 4 30.2	1.886	1.228	27.9	21.3	36 E	25*	18*
2 6	23 27.63	− 2 10.0	1.912	1.247	27.2	21.3	35 E	26*	17*
2 11	23 44.27	+ 0 8.6	1.942	1.267	26.6	21.4	35 E	26*	16*
2 16	0 0.64	+ 2 24.6	1.974	1.290	25.8	21.4	35 E	26*	15*
2 21	0 16.77	+ 4 37.2	2.008	1.314	25.0	21.5	34 E	26*	14*
486220 2013 AB_{103}									
12 23	20 42.95	−16 25.9	2.392	1.730	20.6	21.4	38 E	21*	25*
1 2	21 7.97	−14 9.9	2.422	1.705	19.1	21.3	35 E	21*	20*
1 12	21 33.16	−11 40.6	2.448	1.682	17.5	21.3	31 E	20*	16*
1 22	21 58.48	− 8 59.2	2.471	1.663	15.9	21.2	28 E	19*	12*
2 1	22 23.90	− 6 7.5	2.493	1.648	14.3	21.2	24 E	17*	8*
2 11	22 49.40	− 3 7.6	2.513	1.635	12.8	21.1	21 E	15*	5*
2 21	23 15.03	− 0 1.8	2.533	1.627	11.2	21.1	19 E	12*	3*
3 2	23 40.82	+ 3 7.1	2.552	1.622	9.7	21.0	16 E	10*	—
3 12	0 6.80	+ 6 16.4	2.572	1.622	8.2	21.0	13 E	7*	—
3 22	0 33.03	+ 9 23.0	2.591	1.625	6.8	20.9	11 E	5*	—
4 1	0 59.58	+12 24.1	2.612	1.632	5.5	20.9	9 E	3*	—
4 11	1 26.46	+15 16.6	2.632	1.643	4.4	20.9	7 E	—	—
4 21	1 53.70	+17 58.0	2.653	1.658	3.7	20.9	6 W	—	—
5 1	2 21.29	+20 25.7	2.674	1.676	3.7	20.9	6 W	—	—
5 11	2 49.18	+22 37.5	2.694	1.697	4.3	21.0	7 W	1*	—
5 21	3 17.30	+24 31.7	2.713	1.721	5.3	21.1	9 W	2*	—
5 31	3 45.53	+26 7.0	2.730	1.748	6.6	21.2	11 W	4*	1*
6 10	4 13.70	+27 22.5	2.744	1.777	8.1	21.3	14 W	6*	4*
6 20	4 41.66	+28 18.3	2.755	1.809	9.6	21.4	17 W	8*	6*
376763 1999 XB_9									
12 23	20 43.62	−33 44.5	2.589	1.892	18.1	21.4	37 E	5*	30*
1 2	21 10.19	−32 13.7	2.606	1.859	16.7	21.3	33 E	5*	27*
1 12	21 36.94	−30 25.3	2.618	1.828	15.4	21.2	30 E	4*	23*
1 22	22 3.72	−28 19.9	2.624	1.797	14.1	21.2	26 E	3*	20*
2 1	22 30.42	−25 58.5	2.625	1.768	13.0	21.1	24 E	2*	18*
2 11	22 56.96	−23 22.6	2.623	1.741	11.9	21.0	21 E	—	15*
2 21	23 23.29	−20 33.9	2.618	1.715	10.9	20.9	19 E	—	13*
3 2	23 49.41	−17 34.4	2.611	1.692	10.1	20.9	17 E	—	11*
3 12	0 15.33	−14 26.7	2.604	1.671	9.4	20.8	16 E	—	9*
3 22	0 41.10	−11 13.2	2.596	1.652	8.8	20.8	15 E	—	7*
4 1	1 6.76	− 7 56.5	2.589	1.637	8.4	20.7	14 E	—	5*
4 11	1 32.36	− 4 39.5	2.582	1.624	8.2	20.7	13 E	—	3*
4 21	1 57.98	− 1 24.6	2.576	1.615	8.2	20.7	13 E	—	—
5 1	2 23.66	+ 1 45.3	2.571	1.608	8.4	20.7	14 W	—	2*
5 11	2 49.44	+ 4 47.9	2.565	1.605	8.9	20.7	14 W	—	5*
5 21	3 15.38	+ 7 41.1	2.560	1.606	9.6	20.7	15 W	—	8*
5 31	3 41.48	+10 22.8	2.554	1.610	10.5	20.7	17 W	—	10*
6 10	4 7.75	+12 51.5	2.546	1.617	11.6	20.8	19 W	—	13*
6 20	4 34.16	+15 5.9	2.537	1.627	12.8	20.8	21 W	—	15*
6 30	5 0.68	+17 5.2	2.525	1.641	14.2	20.9	23 W	4*	16*
7 10	5 27.24	+18 48.9	2.509	1.657	15.6	20.9	26 W	8*	18*
7 20	5 53.77	+20 17.1	2.490	1.676	17.1	21.0	29 W	13*	19*
7 30	6 20.14	+21 30.1	2.466	1.698	18.7	21.1	32 W	18*	20*
8 9	6 46.27	+22 29.0	2.437	1.722	20.2	21.1	36 W	24*	20*
8 19	7 12.04	+23 14.8	2.403	1.748	21.7	21.2	40 W	29*	21*
8 29	7 37.31	+23 49.5	2.363	1.776	23.1	21.2	44 W	34*	21*
9 8	8 1.99	+24 15.0	2.317	1.805	24.5	21.2	48 W	39*	22*
9 18	8 25.96	+24 33.8	2.265	1.836	25.7	21.3	53 W	44*	22*
9 28	8 49.11	+24 48.7	2.207	1.868	26.8	21.3	57 W	49*	23*
10 8	9 11.33	+25 2.6	2.144	1.901	27.8	21.3	62 W	54*	24*
10 18	9 32.51	+25 19.0	2.076	1.935	28.5	21.3	68 W	59*	25*
10 28	9 52.51	+25 41.4	2.003	1.969	29.0	21.3	74 W	64*	26*
11 7	10 11.19	+26 13.6	1.927	2.004	29.1	21.2	80 W	69*	27*
11 17	10 28.35	+26 59.3	1.849	2.039	28.9	21.2	86 W	72*	29*
11 27	10 43.72	+28 2.4	1.771	2.074	28.4	21.1	93 W	73	30*
12 7	10 57.01	+29 26.1	1.694	2.109	27.3	21.0	100 W	74	31*
12 17	11 7.81	+31 12.7	1.623	2.145	25.8	20.9	108 W	76	32*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
376763 1999 XB_9 *(continuation)*									
12 27	11 15.64	+33 22.6	1.558	2.179	23.9	20.8	116 W	78	31*
1 6	11 19.98	+35 52.7	1.506	2.214	21.5	20.7	124 W	81	28
1 16	11 20.32	+38 36.2	1.468	2.248	19.0	20.6	132 W	84	25
482048 2009 WT_{259}									
12 23	20 43.95	−20 41.0	2.270	1.604	21.9	21.4	37 E	17*	27*
1 2	21 13.04	−18 41.1	2.310	1.598	20.3	21.3	34 E	17*	23*
1 12	21 41.74	−16 24.5	2.350	1.595	18.7	21.3	31 E	17*	20*
1 22	22 9.96	−13 53.8	2.391	1.596	17.1	21.3	28 E	16*	16*
2 1	22 37.66	−11 12.1	2.432	1.601	15.4	21.3	26 E	15*	14*
2 11	23 4.83	− 8 22.5	2.474	1.610	13.7	21.3	23 E	13*	11*
2 21	23 31.49	− 5 28.2	2.516	1.621	12.0	21.3	20 E	11*	9*
3 2	23 57.71	− 2 32.3	2.559	1.637	10.2	21.3	17 E	9*	7*
3 12	0 23.53	+ 0 22.4	2.601	1.655	8.4	21.3	14 E	6*	5*
3 22	0 49.02	+ 3 13.3	2.643	1.676	6.6	21.2	11 E	3*	3*
4 1	1 14.25	+ 5 57.9	2.683	1.700	4.8	21.2	8 E	1*	1*
4 11	1 39.25	+ 8 34.3	2.722	1.726	3.0	21.2	5 E	—	—
4 21	2 4.08	+11 0.6	2.758	1.754	1.3	21.1	2 E	—	—
5 1	2 28.75	+13 15.5	2.791	1.785	1.2	21.2	2 W	—	—
5 11	2 53.26	+15 17.7	2.820	1.817	2.9	21.3	5 W	—	—
100045 1991 TK_1									
12 23	20 44.46	−23 24.3	3.405	2.686	12.7	19.9	37 E	15*	28*
1 2	20 59.48	−21 42.6	3.459	2.661	10.9	19.8	31 E	13*	21*
1 12	21 14.76	−19 56.3	3.499	2.634	8.9	19.7	24 E	11*	15*
1 22	21 30.23	−18 5.1	3.524	2.607	6.8	19.6	18 E	7*	9*
2 1	21 45.82	−16 9.1	3.534	2.579	4.6	19.5	12 E	3*	4*
2 11	22 1.48	−14 8.2	3.529	2.551	2.5	19.3	6 E	—	—
2 21	22 17.19	−12 2.5	3.510	2.521	0.5	19.1	1 E	—	—
3 2	22 32.91	− 9 52.1	3.476	2.491	2.2	19.2	5 W	—	—
3 12	22 48.62	− 7 37.2	3.429	2.461	4.4	19.3	11 W	—	5*
3 22	23 4.33	− 5 17.8	3.369	2.429	6.7	19.4	16 W	1*	10*
4 1	23 20.04	− 2 54.2	3.296	2.397	8.9	19.4	22 W	3*	16*
4 11	23 35.76	− 0 26.5	3.212	2.365	11.1	19.4	27 W	6*	21*
4 21	23 51.51	+ 2 5.2	3.118	2.332	13.3	19.4	32 W	8*	26*
5 1	0 7.31	+ 4 40.9	3.015	2.298	15.4	19.4	37 W	11*	30*
5 11	0 23.17	+ 7 20.4	2.905	2.264	17.5	19.3	42 W	15*	34*
5 21	0 39.14	+10 3.9	2.787	2.230	19.5	19.3	47 W	19*	38*
5 31	0 55.24	+12 51.5	2.664	2.196	21.4	19.2	52 W	23*	40*
6 10	1 11.50	+15 43.0	2.537	2.162	23.2	19.1	57 W	28*	42*
6 20	1 27.96	+18 38.9	2.406	2.127	24.9	19.0	62 W	34*	42*
6 30	1 44.64	+21 39.3	2.274	2.093	26.5	18.9	67 W	41*	41*
7 10	2 1.56	+24 44.3	2.142	2.058	27.9	18.8	71 W	48*	39*
7 20	2 18.75	+27 54.3	2.011	2.024	29.2	18.6	76 W	56*	36*
7 30	2 36.21	+31 9.6	1.881	1.991	30.2	18.5	81 W	64*	33
8 9	2 53.91	+34 30.2	1.755	1.958	31.1	18.3	86 W	71*	29
8 19	3 11.83	+37 56.4	1.634	1.925	31.7	18.1	90 W	79*	26
8 29	3 29.83	+41 28.0	1.518	1.894	32.1	18.0	95 W	86*	23
9 3	3 38.82	+43 15.6	1.463	1.879	32.2	17.9	97 W	88	21
9 8	3 47.77	+45 4.4	1.409	1.864	32.2	17.8	100 W	90	19
9 13	3 56.63	+46 54.1	1.357	1.849	32.2	17.7	102 W	88	17
9 18	4 5.35	+48 44.7	1.307	1.835	32.1	17.6	104 W	86	15
9 23	4 13.85	+50 35.8	1.259	1.821	31.9	17.5	107 W	84	13
9 28	4 22.06	+52 27.0	1.214	1.807	31.6	17.4	109 W	83	12
10 3	4 29.89	+54 18.0	1.171	1.794	31.3	17.2	111 W	81	10
10 8	4 37.21	+56 8.3	1.130	1.781	31.0	17.1	113 W	79	8
10 13	4 43.87	+57 57.2	1.091	1.769	30.5	17.0	116 W	77	6
10 18	4 49.66	+59 43.9	1.055	1.758	30.1	16.9	118 W	75	4
10 23	4 54.37	+61 27.3	1.022	1.746	29.6	16.8	120 W	74	3
10 28	4 57.79	+63 6.2	0.991	1.736	29.0	16.8	122 W	72	1
11 2	4 59.65	+64 39.2	0.963	1.726	28.5	16.7	124 W	70	—
11 7	4 59.69	+66 4.5	0.937	1.716	28.0	16.6	126 W	69	—
11 12	4 57.67	+67 20.1	0.915	1.707	27.4	16.5	127 W	68	—
11 17	4 53.49	+68 23.4	0.894	1.699	26.9	16.4	129 W	67	—
11 22	4 47.25	+69 12.0	0.877	1.692	26.5	16.4	130 W	66	—
11 27	4 39.32	+69 43.6	0.863	1.685	26.1	16.3	131 W	65	—
11 29	4 35.82	+69 51.1	0.858	1.682	26.0	16.3	132 W	65	—
12 1	4 32.19	+69 55.5	0.853	1.680	25.9	16.3	132 W	65	—
12 3	4 28.50	+69 56.7	0.849	1.678	25.8	16.2	132 E	65	—
12 5	4 24.81	+69 54.8	0.845	1.676	25.8	16.2	132 E	65	—
12 7	4 21.17	+69 49.6	0.842	1.674	25.7	16.2	132 E	65	—
12 9	4 17.64	+69 41.3	0.839	1.672	25.7	16.2	133 E	65	—
12 11	4 14.28	+69 29.8	0.837	1.670	25.7	16.2	133 E	66	—
12 13	4 11.15	+69 15.2	0.835	1.668	25.7	16.2	133 E	66	—
12 15	4 8.28	+68 57.6	0.834	1.667	25.7	16.2	133 E	66	—
12 17	4 5.73	+68 37.2	0.833	1.665	25.8	16.2	133 E	66	—
12 19	4 3.52	+68 14.0	0.833	1.664	25.9	16.2	132 E	67	—
12 21	4 1.68	+67 48.3	0.833	1.663	26.0	16.2	132 E	67	—
12 23	4 0.22	+67 20.1	0.834	1.661	26.1	16.2	132 E	68	—
12 25	3 59.14	+66 49.8	0.835	1.661	26.3	16.2	132 E	68	—
12 27	3 58.46	+66 17.3	0.837	1.660	26.4	16.2	131 E	69	—

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		100045 1991 TK_1 *(continuation)*							
	h m	° ′			°	m	°	°	°
1 1	3 58.39	+64 48.3	0.843	1.658	26.9	16.2	130 E	70	—
1 6	4 0.53	+63 9.8	0.853	1.657	27.5	16.3	129 E	72	1
1 11	4 4.61	+61 24.1	0.866	1.657	28.2	16.3	127 E	74	3
1 16	4 10.38	+59 33.3	0.882	1.658	28.9	16.4	125 E	75	4
		204232 2004 DG_2							
12 23	20 44.55	− 8 11.0	1.006	0.708	67.5	19.9	42 E	29*	22*
12 28	21 14.23	− 3 55.6	0.987	0.758	67.1	20.0	45 E	33*	22*
1 2	21 43.12	+ 0 19.8	0.979	0.810	65.9	20.1	49 E	38*	22*
1 7	22 11.28	+ 4 28.1	0.982	0.863	64.1	20.2	52 E	42*	21*
1 12	22 38.72	+ 8 23.1	0.994	0.915	61.8	20.3	55 E	46*	21*
1 17	23 5.43	+12 0.3	1.017	0.967	59.4	20.4	58 E	49*	21*
1 22	23 31.38	+15 16.9	1.047	1.018	56.9	20.5	60 E	52*	20*
2 1	0 20.82	+20 44.8	1.130	1.116	52.0	20.7	63 E	56*	19*
2 11	1 6.79	+24 50.4	1.235	1.208	47.6	21.0	65 E	58*	19*
2 21	1 49.28	+27 46.8	1.356	1.295	43.7	21.2	65 E	58*	19*
3 2	2 28.53	+29 49.2	1.487	1.375	40.3	21.4	64 E	57*	19*
		46598 1993 FT_2							
12 23	20 44.68	−30 33.6	3.454	2.728	12.4	19.4	37 E	8*	30*
1 2	21 0.84	−28 51.4	3.505	2.706	10.7	19.4	31 E	7*	24*
1 12	21 17.16	−27 5.4	3.543	2.682	8.8	19.3	25 E	5*	18*
1 22	21 33.53	−25 15.5	3.567	2.658	7.0	19.2	19 E	2*	13*
2 1	21 49.93	−23 21.8	3.577	2.633	5.3	19.1	14 E	—	8*
2 11	22 6.27	−21 24.5	3.572	2.607	3.8	19.0	10 E	—	4*
2 21	22 22.54	−19 23.8	3.554	2.581	3.3	18.9	9 E	—	—
3 2	22 38.71	−17 20.0	3.521	2.553	4.1	18.9	11 W	—	2*
3 12	22 54.77	−15 13.3	3.474	2.525	5.7	19.0	15 W	—	7*
3 22	23 10.70	−13 4.2	3.415	2.496	7.6	19.0	19 W	—	12*
4 1	23 26.52	−10 52.9	3.343	2.467	9.6	19.0	24 W	—	18*
4 11	23 42.20	− 8 39.7	3.259	2.437	11.7	19.0	29 W	—	23*
4 21	23 57.78	− 6 24.8	3.165	2.406	13.7	19.0	35 W	1*	28*
5 1	0 13.23	− 4 8.4	3.061	2.374	15.7	19.0	40 W	4*	34*
5 11	0 28.56	− 1 50.8	2.948	2.343	17.7	18.9	45 W	7*	39*
5 21	0 43.78	+ 0 28.0	2.827	2.310	19.6	18.9	50 W	11*	43*
5 31	0 58.86	+ 2 48.1	2.699	2.278	21.4	18.8	55 W	15*	47*
6 10	1 13.79	+ 5 9.5	2.566	2.245	23.1	18.7	60 W	21*	50*
6 20	1 28.55	+ 7 32.6	2.428	2.211	24.7	18.6	66 W	26*	52*
6 30	1 43.08	+ 9 57.7	2.287	2.178	26.2	18.5	71 W	33*	52*
7 10	1 57.31	+12 25.6	2.144	2.144	27.4	18.3	76 W	40*	51*
7 20	2 11.14	+14 57.1	2.000	2.110	28.5	18.2	82 W	48*	49
7 30	2 24.42	+17 33.4	1.856	2.077	29.2	18.0	88 W	55*	46
8 9	2 36.95	+20 16.0	1.715	2.043	29.7	17.8	93 W	62*	44
8 19	2 48.47	+23 6.8	1.578	2.010	29.8	17.6	100 W	68*	41
8 29	2 58.58	+26 7.7	1.446	1.978	29.4	17.4	106 W	71	38
9 8	3 6.79	+29 20.5	1.321	1.946	28.6	17.1	113 W	74	35
9 13	3 9.97	+31 1.9	1.263	1.930	27.9	17.0	116 W	76	33
9 18	3 12.41	+32 46.5	1.207	1.914	27.1	16.8	120 W	78	31
9 23	3 13.98	+34 34.2	1.154	1.899	26.2	16.7	123 W	80	29
9 28	3 14.57	+36 24.4	1.104	1.884	25.2	16.6	127 W	81	28
10 3	3 14.06	+38 16.5	1.059	1.869	24.1	16.4	130 W	83	26
10 8	3 12.31	+40 9.3	1.017	1.855	22.8	16.3	134 W	85	24
10 13	3 9.20	+42 1.1	0.979	1.841	21.6	16.1	137 W	87	22
10 18	3 4.64	+43 49.8	0.946	1.827	20.4	16.0	140 W	89	20
10 23	2 58.61	+45 32.9	0.918	1.814	19.3	15.9	143 W	89	18
10 28	2 51.20	+47 7.6	0.895	1.801	18.5	15.8	145 W	88	17
11 2	2 42.58	+48 31.3	0.877	1.788	18.0	15.7	146 W	86	15
11 7	2 33.03	+49 41.6	0.864	1.776	18.0	15.7	146 E	85	14
11 12	2 22.99	+50 36.7	0.856	1.765	18.4	15.6	146 E	84	13
11 17	2 12.98	+51 15.9	0.853	1.754	19.2	15.6	144 E	84	13
11 22	2 3.56	+51 39.8	0.854	1.743	20.3	15.7	142 E	83	12
11 27	1 55.25	+51 50.1	0.860	1.733	21.7	15.7	139 E	83	12
12 2	1 48.43	+51 49.1	0.870	1.724	23.2	15.8	136 E	83	12
12 7	1 43.39	+51 39.3	0.883	1.715	24.7	15.8	133 E	83	12
12 12	1 40.27	+51 23.4	0.898	1.707	26.2	15.9	130 E	84	13
12 17	1 39.14	+51 3.8	0.917	1.699	27.7	16.0	127 E	84	13
12 22	1 39.98	+50 42.5	0.938	1.692	29.0	16.1	123 E	84	13
12 27	1 42.68	+50 21.3	0.961	1.686	30.3	16.2	120 E	85	14
1 1	1 47.12	+50 0.9	0.986	1.680	31.4	16.2	117 E	85	14*
1 6	1 53.17	+49 42.0	1.012	1.676	32.4	16.3	114 E	85	14*
1 11	2 0.71	+49 24.7	1.040	1.672	33.2	16.4	111 E	86	14*
1 16	2 9.61	+49 9.0	1.069	1.668	34.0	16.5	109 E	86	14*
		474748 2005 PB_4							
12 23	20 45.52	−17 53.8	2.238	1.589	22.6	21.4	38 E	20*	26*
1 2	21 14.67	−15 37.1	2.303	1.608	20.8	21.5	36 E	20*	22*
1 12	21 42.84	−13 8.4	2.370	1.631	19.0	21.5	33 E	20*	18*
1 22	22 10.05	−10 31.1	2.439	1.656	17.1	21.5	30 E	19*	15*
2 1	22 36.35	− 7 48.0	2.508	1.684	15.1	21.6	26 E	17*	12*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		270201 2001 TS_{32}							
	h m	° ′			°	m	°	°	°
12 23	20 46.54	−15 4.7	2.193	1.564	23.6	20.1	39 E	23*	25*
1 2	21 15.25	−12 54.9	2.230	1.555	22.2	20.1	37 E	23*	21*
1 12	21 43.83	−10 30.4	2.267	1.550	20.7	20.0	34 E	22*	18*
1 22	22 12.19	− 7 53.7	2.305	1.549	19.2	20.0	31 E	22*	14*
2 1	22 40.28	− 5 7.8	2.346	1.553	17.6	20.0	29 E	20*	12*
2 11	23 8.09	− 2 15.9	2.388	1.561	16.0	20.0	26 E	18*	9*
2 21	23 35.63	+ 0 38.6	2.432	1.573	14.4	20.0	23 E	16*	7*
3 2	0 2.93	+ 3 32.6	2.477	1.589	12.7	20.0	21 E	14*	5*
3 12	0 30.01	+ 6 23.0	2.524	1.609	11.0	20.0	18 E	12*	3*
3 22	0 56.93	+ 9 7.0	2.572	1.632	9.3	20.0	15 E	9*	2*
4 1	1 23.71	+11 42.2	2.619	1.658	7.5	20.0	13 E	6*	—
4 11	1 50.36	+14 6.2	2.667	1.688	5.7	20.0	10 E	4*	—
4 21	2 16.90	+16 17.5	2.713	1.719	4.0	20.0	7 E	1*	—
5 1	2 43.30	+18 14.7	2.757	1.753	2.3	20.0	4 E	—	—
5 11	3 9.51	+19 56.5	2.798	1.789	1.2	20.0	2 W	—	—
5 21	3 35.50	+21 22.6	2.835	1.826	2.2	20.1	4 W	—	—
5 31	4 1.18	+22 32.5	2.867	1.865	3.9	20.3	7 W	—	—
6 10	4 26.45	+23 26.4	2.893	1.905	5.7	20.5	11 W	1*	3*
6 20	4 51.24	+24 4.6	2.912	1.945	7.6	20.6	15 W	4*	6*
6 30	5 15.41	+24 27.7	2.924	1.987	9.4	20.7	19 W	7*	9*
7 10	5 38.88	+24 36.8	2.927	2.028	11.2	20.9	23 W	11*	12*
7 20	6 1.54	+24 32.8	2.922	2.070	12.9	21.0	27 W	15*	15*
7 30	6 23.31	+24 17.1	2.907	2.112	14.6	21.1	32 W	20*	17*
8 9	6 44.08	+23 51.1	2.882	2.154	16.3	21.1	37 W	25*	20*
8 19	7 3.80	+23 16.2	2.847	2.195	17.8	21.2	42 W	30*	22*
8 29	7 22.35	+22 34.1	2.802	2.237	19.2	21.3	47 W	36*	25*
9 8	7 39.67	+21 46.4	2.746	2.278	20.5	21.3	52 W	41*	27*
9 18	7 55.67	+20 54.7	2.681	2.318	21.7	21.3	58 W	47*	30*
9 28	8 10.21	+20 0.9	2.606	2.358	22.6	21.3	65 W	52*	32*
10 8	8 23.19	+19 6.7	2.523	2.398	23.2	21.3	71 W	57*	35*
10 18	8 34.45	+18 14.0	2.432	2.437	23.6	21.3	78 W	61*	38*
10 28	8 43.76	+17 24.8	2.336	2.475	23.6	21.2	86 W	62*	42*
11 7	8 50.93	+16 41.1	2.237	2.512	23.2	21.1	94 W	62	45*
11 17	8 55.70	+16 4.8	2.137	2.549	22.2	21.1	103 W	61	47*
11 27	8 57.78	+15 37.9	2.041	2.585	20.7	20.9	112 W	61	48
12 7	8 56.98	+15 21.9	1.953	2.620	18.4	20.8	123 W	60	49
12 17	8 53.18	+15 17.5	1.876	2.654	15.5	20.6	134 W	60	49
12 27	8 46.49	+15 24.4	1.818	2.687	12.0	20.5	145 W	60	49
1 6	8 37.38	+15 40.8	1.784	2.719	7.9	20.3	158 W	61	48
1 16	8 26.63	+16 3.8	1.776	2.751	3.5	20.1	170 W	61	48
		474412 2002 WT							
12 23	20 47.03	−11 43.4	2.579	1.944	19.3	21.1	41 E	26*	24*
1 2	21 6.74	− 9 26.4	2.614	1.910	17.7	21.0	36 E	25*	18*
1 12	21 26.94	− 6 59.4	2.641	1.877	16.0	20.9	32 E	23*	12*
1 22	21 47.61	− 4 22.5	2.659	1.845	14.4	20.9	28 E	21*	7*
2 1	22 8.76	− 1 36.0	2.669	1.814	12.8	20.8	24 E	18*	3*
2 11	22 30.39	+ 1 19.5	2.673	1.785	11.3	20.7	21 E	15*	—
2 21	22 52.57	+ 4 22.8	2.671	1.758	10.0	20.6	18 E	12*	—
3 2	23 15.38	+ 7 32.8	2.664	1.732	9.0	20.5	16 E	9*	—
3 12	23 38.89	+10 47.4	2.653	1.708	8.3	20.5	14 E	6*	—
3 22	0 3.23	+14 4.4	2.640	1.687	7.9	20.4	13 W	4*	—
4 1	0 28.53	+17 21.3	2.626	1.669	7.9	20.4	13 W	6*	—
4 11	0 54.92	+20 34.6	2.611	1.653	8.2	20.3	14 W	7*	—
4 21	1 22.51	+23 40.7	2.596	1.640	8.7	20.3	14 W	8*	—
5 1	1 51.42	+26 35.8	2.582	1.631	9.3	20.3	15 W	9*	—
5 11	2 21.67	+29 15.2	2.569	1.624	10.0	20.3	16 W	10*	—
5 21	2 53.25	+31 34.9	2.559	1.621	10.8	20.4	17 W	11*	—
5 31	3 26.00	+33 30.7	2.549	1.622	11.5	20.4	19 W	12*	1*
6 10	3 59.65	+34 59.2	2.541	1.625	12.4	20.4	20 W	13*	2*
6 15	4 16.70	+35 32.4	2.538	1.628	12.8	20.4	21 W	14*	3*
6 20	4 33.82	+35 58.1	2.534	1.632	13.2	20.5	22 W	15*	3*
6 25	4 50.96	+36 16.0	2.531	1.637	13.7	20.5	22 W	16*	3*
6 30	5 8.04	+36 26.2	2.527	1.643	14.1	20.5	23 W	16*	4*
7 5	5 25.01	+36 28.7	2.523	1.649	14.6	20.5	24 W	17*	4*
7 10	5 41.79	+36 23.7	2.519	1.656	15.1	20.5	25 W	18*	5*
7 15	5 58.34	+36 11.5	2.515	1.664	15.6	20.6	26 W	19*	5*
7 20	6 14.60	+35 52.4	2.510	1.672	16.2	20.6	27 W	20*	6*
7 25	6 30.52	+35 26.7	2.504	1.682	16.7	20.6	28 W	22*	6*
7 30	6 46.06	+34 54.9	2.497	1.691	17.3	20.6	30 W	23*	7*
8 4	7 1.19	+34 17.3	2.490	1.702	17.9	20.7	31 W	24*	8*
8 9	7 15.88	+33 34.5	2.481	1.713	18.5	20.7	32 W	26*	8*
8 14	7 30.13	+32 46.8	2.472	1.725	19.1	20.7	34 W	27*	9*
8 19	7 43.92	+31 54.8	2.461	1.737	19.7	20.7	35 W	29*	10*
8 24	7 57.23	+30 58.9	2.448	1.750	20.3	20.8	37 W	30*	11*
8 29	8 10.07	+29 59.5	2.434	1.763	21.0	20.8	39 W	32*	12*
9 3	8 22.44	+28 57.1	2.419	1.777	21.6	20.8	40 W	34*	13*
9 8	8 34.35	+27 52.0	2.402	1.791	22.3	20.8	42 W	36*	14*
9 13	8 45.80	+26 44.6	2.383	1.806	22.9	20.9	44 W	37*	15*
9 18	8 56.80	+25 35.2	2.362	1.821	23.6	20.9	46 W	39*	16*
9 23	9 7.34	+24 24.2	2.340	1.836	24.2	20.9	49 W	41*	18*

474412 2002 *WT* *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 28	9 17.45	+23 11.9	2.315	1.852	24.8	20.9	51 W	43*	19*
10 3	9 27.11	+21 58.5	2.289	1.867	25.4	20.9	53 W	45*	21*
10 8	9 36.35	+20 44.2	2.260	1.884	25.9	20.9	55 W	47*	23*
10 13	9 45.16	+19 29.4	2.230	1.900	26.4	20.9	58 W	49*	24*
10 18	9 53.53	+18 14.1	2.198	1.917	26.9	20.9	61 W	51*	26*
10 23	10 1.46	+16 58.7	2.164	1.934	27.4	20.9	63 W	53*	29*
10 28	10 8.95	+15 43.3	2.128	1.951	27.8	20.9	66 W	54*	31*
11 2	10 15.98	+14 28.1	2.090	1.968	28.1	20.9	69 W	55*	33*
11 7	10 22.55	+13 13.1	2.051	1.985	28.4	20.9	72 W	56*	36*
11 12	10 28.64	+11 58.6	2.010	2.003	28.6	20.9	75 W	56*	38*
11 17	10 34.22	+10 44.7	1.968	2.020	28.7	20.9	79 W	55*	41*
11 22	10 39.26	+ 9 31.6	1.924	2.038	28.7	20.8	82 W	55*	44*
11 27	10 43.74	+ 8 19.4	1.880	2.056	28.6	20.8	86 W	53	47*
12 2	10 47.63	+ 7 8.3	1.835	2.074	28.4	20.8	89 W	52	50*
12 7	10 50.88	+ 5 58.4	1.790	2.091	28.1	20.7	93 W	51	53*
12 12	10 53.47	+ 4 49.9	1.744	2.109	27.6	20.7	97 W	50	56*
12 17	10 55.32	+ 3 43.0	1.699	2.127	27.0	20.6	102 W	49	59*
12 22	10 56.42	+ 2 38.1	1.655	2.145	26.2	20.5	106 W	48	61*
12 27	10 56.70	+ 1 35.3	1.612	2.163	25.2	20.5	111 W	47	62
1 1	10 56.14	+ 0 34.9	1.571	2.180	24.1	20.4	115 W	46	63
1 6	10 54.71	− 0 22.6	1.532	2.198	22.7	20.3	120 W	45	64
1 11	10 52.38	− 1 16.8	1.496	2.216	21.2	20.2	125 W	44	65
1 16	10 49.14	− 2 7.1	1.463	2.233	19.5	20.2	131 W	43	66

277307 2005 ST_{164}

12 23	20 47.75	−17 34.5	2.391	1.741	20.8	20.8	39 E	21*	27*
1 2	21 13.83	−16 9.0	2.427	1.720	19.3	20.8	35 E	20*	22*
1 12	21 40.11	−14 28.1	2.459	1.701	17.6	20.7	32 E	19*	18*
1 22	22 6.48	−12 33.4	2.489	1.685	16.0	20.7	28 E	17*	15*
2 1	22 32.88	−10 26.6	2.516	1.672	14.3	20.6	25 E	15*	12*
2 11	22 59.24	− 8 9.9	2.541	1.662	12.6	20.6	21 E	13*	10*
2 21	23 25.55	− 5 45.7	2.564	1.656	10.9	20.5	18 E	10*	8*
3 2	23 51.81	− 3 16.6	2.587	1.652	9.2	20.5	15 E	7*	6*
3 12	0 18.04	− 0 45.3	2.608	1.652	7.5	20.4	12 E	4*	4*
3 22	0 44.25	+ 1 45.7	2.628	1.655	5.8	20.4	10 E	2*	2*
4 1	1 10.48	+ 4 13.6	2.648	1.661	4.3	20.3	7 E	—	—
4 11	1 36.74	+ 6 35.8	2.666	1.670	2.9	20.2	5 E	—	—
4 21	2 3.03	+ 8 50.2	2.684	1.682	2.1	20.2	4 E	—	—
5 1	2 29.37	+10 54.5	2.701	1.697	2.5	20.3	4 W	—	—
5 11	2 55.70	+12 46.9	2.715	1.715	3.8	20.4	6 W	—	—
5 21	3 22.01	+14 25.8	2.728	1.736	5.3	20.5	9 W	—	3*
5 31	3 48.22	+15 50.2	2.737	1.759	6.9	20.6	12 W	—	6*
6 10	4 14.23	+16 59.2	2.744	1.784	8.6	20.7	15 W	—	9*
6 20	4 39.97	+17 52.4	2.746	1.810	10.2	20.8	18 W	1*	12*
6 30	5 5.31	+18 29.8	2.744	1.839	11.8	20.9	22 W	4*	15*
7 10	5 30.13	+18 51.9	2.736	1.869	13.5	21.0	25 W	8*	17*
7 20	5 54.34	+18 59.3	2.722	1.900	15.1	21.1	29 W	12*	20*
7 30	6 17.79	+18 53.0	2.702	1.932	16.7	21.2	33 W	17*	22*
8 9	6 40.40	+18 34.4	2.675	1.966	18.2	21.2	37 W	22*	24*
8 19	7 2.06	+18 4.9	2.640	2.000	19.6	21.3	42 W	27*	26*
8 29	7 22.68	+17 26.0	2.597	2.034	21.0	21.3	46 W	32*	28*
9 8	7 42.17	+16 39.7	2.546	2.069	22.3	21.4	51 W	37*	30*
9 18	8 0.45	+15 47.7	2.486	2.104	23.4	21.4	56 W	42*	33*
9 28	8 17.40	+14 52.1	2.419	2.139	24.4	21.4	62 W	47*	35*
10 8	8 32.91	+13 54.9	2.344	2.175	25.2	21.4	68 W	51*	38*
10 18	8 46.86	+12 58.2	2.261	2.210	25.7	21.4	74 W	55*	41*
10 28	8 59.06	+12 4.6	2.173	2.245	25.9	21.3	81 W	56*	44*
11 7	9 9.32	+11 16.5	2.081	2.280	25.8	21.3	88 W	56	48*
11 17	9 17.39	+10 36.7	1.986	2.314	25.1	21.2	96 W	56	51*
11 27	9 22.99	+10 7.9	1.892	2.348	24.0	21.1	105 W	55	53*
12 7	9 25.86	+ 9 53.0	1.801	2.382	22.1	20.9	114 W	55	54
12 17	9 25.75	+ 9 54.6	1.718	2.415	19.6	20.8	124 W	55	54
12 27	9 22.54	+10 14.3	1.648	2.448	16.4	20.6	135 W	55	54
1 6	9 16.39	+10 52.0	1.596	2.480	12.4	20.4	147 W	56	53
1 16	9 7.76	+11 45.4	1.566	2.511	7.9	20.2	159 W	57	52

485882 2012 FK_{35}

12 23	20 47.84	+82 35.5	0.897	1.520	38.0	20.4	108 E	51*	—
12 24	21 1.87	+82 29.9	0.905	1.528	37.8	20.4	108 E	51*	—
12 25	21 15.54	+82 23.3	0.914	1.536	37.5	20.4	108 E	52*	—
12 26	21 28.83	+82 16.0	0.922	1.544	37.3	20.5	108 E	52*	—
12 27	21 41.73	+82 7.8	0.931	1.551	37.0	20.5	108 E	52*	—
12 28	21 54.22	+81 58.9	0.940	1.559	36.8	20.5	108 E	52*	—
12 29	22 6.31	+81 49.3	0.949	1.567	36.6	20.5	108 E	53*	—
12 30	22 17.99	+81 39.1	0.958	1.574	36.3	20.6	108 E	53*	—
12 31	22 29.28	+81 28.3	0.967	1.582	36.1	20.6	108 E	53*	—
1 1	22 40.17	+81 17.0	0.976	1.589	35.9	20.6	108 E	53*	—
1 2	22 50.68	+81 5.2	0.985	1.597	35.7	20.6	108 E	54*	—
1 3	23 0.83	+80 53.0	0.994	1.604	35.5	20.7	108 E	54*	—
1 4	23 10.62	+80 40.4	1.003	1.612	35.4	20.7	108 E	54*	—
1 5	23 20.07	+80 27.5	1.012	1.619	35.2	20.7	108 E	54*	—
1 6	23 29.21	+80 14.2	1.021	1.626	35.0	20.7	108 E	55*	—

485882 2012 FK_{35} *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 7	23 38.03	+80 0.7	1.031	1.633	34.8	20.8	108 E	55*	—
1 8	23 46.57	+79 46.9	1.040	1.641	34.7	20.8	108 E	55*	—
1 9	23 54.83	+79 32.8	1.050	1.648	34.5	20.8	108 E	55*	—
1 10	0 2.83	+79 18.6	1.059	1.655	34.4	20.8	108 E	56*	—
1 11	0 10.58	+79 4.1	1.069	1.662	34.2	20.9	108 E	56*	—
1 12	0 18.10	+78 49.5	1.079	1.669	34.1	20.9	108 E	56*	—
1 13	0 25.40	+78 34.8	1.088	1.676	34.0	20.9	108 E	56*	—
1 14	0 32.49	+78 19.9	1.098	1.683	33.8	20.9	108 E	57*	—
1 15	0 39.38	+78 4.9	1.108	1.690	33.7	21.0	108 E	57*	—
1 16	0 46.09	+77 49.9	1.118	1.696	33.6	21.0	107 E	57*	—
1 17	0 52.63	+77 34.7	1.128	1.703	33.5	21.0	107 E	57*	—
1 18	0 59.00	+77 19.5	1.138	1.710	33.4	21.0	107 E	58*	—
1 19	1 5.22	+77 4.2	1.149	1.717	33.2	21.1	107 E	58*	—
1 20	1 11.30	+76 48.8	1.159	1.723	33.1	21.1	107 E	58*	—
1 21	1 17.23	+76 33.4	1.169	1.730	33.0	21.1	107 E	58*	—
1 22	1 23.03	+76 18.0	1.180	1.736	32.9	21.1	106 E	59*	—
1 24	1 34.28	+75 47.1	1.201	1.749	32.7	21.2	106 E	59*	—
1 26	1 45.08	+75 16.2	1.222	1.762	32.6	21.2	106 E	60*	—
1 28	1 55.47	+74 45.3	1.243	1.775	32.4	21.3	105 E	60*	—
1 30	2 5.50	+74 14.5	1.265	1.787	32.2	21.3	104 E	61*	—
2 1	2 15.20	+73 43.8	1.287	1.800	32.1	21.4	104 E	61*	—
2 3	2 24.59	+73 13.3	1.310	1.812	32.0	21.4	103 E	62*	—
2 5	2 33.71	+72 42.8	1.332	1.824	31.8	21.5	103 E	62*	—

187026 2005 EK_{70}

12 23	20 48.37	− 3 28.3	1.233	0.875	52.4	19.4	45 E	33*	21*
12 28	21 6.26	− 0 13.3	1.229	0.885	52.4	19.4	46 E	36*	19*
1 2	21 23.94	+ 3 0.1	1.224	0.896	52.5	19.4	46 E	38*	16*
1 7	21 41.57	+ 6 10.7	1.220	0.907	52.6	19.5	47 E	40*	14*
1 12	21 59.29	+ 9 17.6	1.217	0.919	52.6	19.5	48 E	41*	12*
1 17	22 17.25	+12 20.0	1.213	0.930	52.7	19.5	49 E	42*	10*
1 22	22 35.57	+15 16.8	1.210	0.942	52.7	19.5	50 E	43*	9*
1 27	22 54.39	+18 7.2	1.207	0.954	52.6	19.5	50 E	44*	8*
2 1	23 13.82	+20 50.0	1.205	0.966	52.6	19.6	51 E	45*	7*
2 6	23 33.94	+23 24.2	1.204	0.978	52.5	19.6	52 E	46*	6*
2 11	23 54.83	+25 48.2	1.203	0.989	52.4	19.6	53 E	46*	5*
2 16	0 16.55	+28 0.5	1.204	1.000	52.3	19.6	53 E	47*	5*
2 21	0 39.12	+29 59.7	1.206	1.011	52.1	19.6	54 E	47*	6*
2 26	1 2.51	+31 44.3	1.210	1.021	51.9	19.7	54 E	48*	6*
3 2	1 26.65	+33 12.7	1.215	1.031	51.6	19.7	55 E	48*	7*
3 7	1 51.40	+34 23.6	1.221	1.040	51.3	19.7	55 E	49*	8*
3 12	2 16.59	+35 16.1	1.230	1.048	51.0	19.7	55 E	49*	9*
3 17	2 42.00	+35 49.6	1.240	1.056	50.6	19.8	55 E	49*	10*
3 22	3 7.42	+36 4.1	1.252	1.062	50.2	19.8	55 E	49*	12*
3 27	3 32.61	+36 0.0	1.265	1.069	49.8	19.8	55 E	49*	13*
4 1	3 57.33	+35 38.1	1.280	1.074	49.3	19.8	55 E	48*	15*
4 6	4 21.40	+34 59.8	1.296	1.079	48.8	19.9	54 E	48*	17*
4 11	4 44.67	+34 6.5	1.312	1.083	48.3	19.9	54 E	47*	18*
4 16	5 7.04	+32 59.7	1.330	1.086	47.8	19.9	53 E	45*	20*
4 21	5 28.47	+31 41.3	1.348	1.088	47.2	19.9	53 E	44*	22*
4 26	5 48.95	+30 12.9	1.367	1.089	46.7	19.9	52 E	42*	24*
5 1	6 8.50	+28 36.0	1.385	1.089	46.2	19.9	51 E	40*	26*
5 6	6 27.15	+26 51.8	1.404	1.089	45.6	20.0	50 E	37*	27*
5 11	6 44.96	+25 1.7	1.421	1.088	45.1	20.0	50 E	34*	29*
5 16	7 2.02	+23 6.5	1.438	1.086	44.6	20.0	49 E	32*	30*
5 21	7 18.39	+21 7.1	1.454	1.083	44.1	20.0	48 E	29*	32*
5 26	7 34.16	+19 4.2	1.468	1.079	43.6	20.0	47 E	26*	33*
5 31	7 49.40	+16 58.3	1.481	1.075	43.2	20.0	47 E	23*	34*
6 10	8 18.60	+12 39.3	1.501	1.063	42.5	20.0	45 E	16*	36*
6 20	8 46.60	+ 8 12.4	1.513	1.049	42.1	19.9	44 E	10*	37*
6 30	9 13.99	+ 3 39.0	1.514	1.032	42.0	19.9	43 E	5*	37*
7 10	9 41.33	− 0 59.7	1.505	1.013	42.2	19.9	42 E	—	36*
7 20	10 9.24	− 5 42.4	1.486	0.991	42.9	19.8	42 E	—	35*
7 30	10 38.43	−10 27.3	1.455	0.968	44.1	19.7	42 E	—	34*
8 4	10 53.73	−12 49.4	1.436	0.956	44.8	19.7	42 E	—	33*
8 9	11 9.66	−15 10.4	1.415	0.944	45.7	19.7	42 E	—	33*
8 14	11 26.33	−17 29.3	1.392	0.932	46.7	19.6	42 E	—	32*
8 19	11 43.89	−19 45.2	1.366	0.920	47.8	19.6	42 E	—	32*
8 24	12 2.45	−21 56.4	1.339	0.909	49.0	19.6	43 E	—	32*
8 29	12 22.14	−24 1.1	1.311	0.897	50.3	19.5	43 E	—	32*
9 3	12 43.08	−25 57.0	1.282	0.886	51.6	19.5	44 E	—	33*
9 8	13 5.37	−27 41.2	1.252	0.876	53.0	19.4	44 E	—	33*
9 13	13 29.05	−29 10.8	1.222	0.866	54.5	19.4	44 E	—	34*
9 18	13 54.11	−30 22.3	1.192	0.858	55.9	19.4	45 E	—	35*
9 23	14 20.44	−31 12.1	1.163	0.850	57.3	19.3	45 E	—	36*
9 28	14 47.80	−31 37.0	1.135	0.843	58.7	19.3	46 E	—	37*
10 3	15 15.88	−31 34.1	1.109	0.838	60.0	19.3	46 E	—	39*
10 8	15 44.26	−31 1.5	1.084	0.834	61.1	19.3	47 E	1*	40*
10 13	16 12.51	−29 58.7	1.062	0.831	62.2	19.2	47 E	4*	41*
10 18	16 40.20	−28 26.6	1.043	0.830	63.1	19.2	48 E	7*	42*

187026 2005 EK_{70} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 23	17 6.98	−26 27.4	1.026	0.830	63.8	19.2	48 E	11*	42*
10 28	17 32.56	−24 4.3	1.011	0.831	64.4	19.2	49 E	14*	42*
11 2	17 56.82	−21 21.1	0.999	0.834	64.8	19.2	50 E	18*	42*
11 7	18 19.72	−18 22.2	0.989	0.839	65.1	19.2	50 E	21*	41*
11 12	18 41.32	−15 11.6	0.981	0.844	65.2	19.2	51 E	25*	39*
11 17	19 1.73	−11 53.3	0.975	0.851	65.2	19.2	51 E	28*	37*
11 22	19 21.10	− 8 30.5	0.970	0.859	65.0	19.2	52 E	32*	35*
11 27	19 39.60	− 5 5.9	0.966	0.868	64.8	19.2	53 E	35*	32*
12 2	19 57.40	− 1 41.9	0.963	0.878	64.6	19.2	54 E	38*	29*
12 7	20 14.71	+ 1 40.1	0.960	0.888	64.3	19.2	54 E	41*	26*
12 12	20 31.71	+ 4 58.6	0.957	0.899	64.0	19.2	55 E	44*	23*
12 17	20 48.59	+ 8 12.9	0.955	0.911	63.6	19.3	56 E	46*	20*
12 22	21 5.52	+11 22.3	0.952	0.923	63.3	19.3	57 E	49*	18*
12 27	21 22.66	+14 26.3	0.948	0.934	63.0	19.3	58 E	51*	15*
1 1	21 40.19	+17 24.3	0.945	0.946	62.7	19.3	59 E	52*	13*
1 6	21 58.26	+20 15.8	0.941	0.958	62.3	19.3	60 E	53*	11*
1 11	22 17.04	+22 59.9	0.938	0.970	62.0	19.3	61 E	55*	9*
1 16	22 36.68	+25 35.9	0.934	0.982	61.7	19.3	62 E	56*	7*

105140 2000 NL_{10}

12 23	20 48.97	+ 7 8.0	2.057	1.627	28.0	19.7	51 E	43*	16*
1 2	21 8.38	+ 7 9.2	2.117	1.597	26.2	19.6	46 E	39*	11*
1 12	21 28.21	+ 7 25.3	2.160	1.558	24.5	19.6	41 E	35*	6*
1 22	21 48.56	+ 7 54.4	2.185	1.510	22.7	19.5	36 E	30*	2*
2 1	22 9.57	+ 8 35.2	2.191	1.451	21.0	19.3	32 E	26*	—
2 11	22 31.40	+ 9 25.7	2.178	1.381	19.3	19.2	28 E	21*	—
2 21	22 54.34	+10 24.3	2.143	1.298	17.7	18.9	24 E	16*	—
3 2	23 18.77	+11 28.8	2.087	1.203	16.2	18.7	20 E	12*	—
3 12	23 45.22	+12 36.2	2.008	1.091	14.9	18.3	16 E	8*	—
3 17	23 59.44	+13 9.8	1.959	1.029	14.3	18.1	15 E	6*	—
3 22	0 14.52	+13 42.3	1.905	0.962	13.7	17.9	13 E	5*	—
3 27	0 30.61	+14 12.7	1.843	0.890	13.2	17.6	12 E	3*	—
4 1	0 47.94	+14 39.7	1.775	0.811	12.6	17.3	10 E	2*	—
4 6	1 6.79	+15 1.1	1.698	0.725	12.1	17.0	9 E	1*	—
4 11	1 27.52	+15 14.1	1.613	0.631	11.6	16.5	7 E	1*	—
4 16	1 50.65	+15 14.2	1.515	0.528	11.6	16.0	6 E	—	—
4 21	2 16.75	+14 54.0	1.399	0.413	14.6	15.4	6 E	—	—
4 23	2 28.14	+14 37.8	1.345	0.364	18.0	15.2	6 E	—	—
4 25	2 40.02	+14 15.8	1.285	0.313	23.7	14.9	7 E	—	—
4 27	2 52.17	+13 47.4	1.216	0.263	33.2	14.7	8 E	—	1*
4 29	3 3.86	+13 14.0	1.135	0.215	49.2	14.6	9 E	—	3*
5 1	3 13.07	+12 43.6	1.038	0.179	75.2	14.8	10 E	—	4*
5 2	3 15.53	+12 36.2	0.986	0.169	92.6	15.2	10 E	—	4*
5 3	3 15.84	+12 39.3	0.934	0.168	111.6	16.0	9 E	—	3*
5 4	3 13.82	+12 55.9	0.886	0.175	130.5	17.5	8 E	—	2*
5 5	3 9.71	+13 26.2	0.844	0.189	147.7	19.8	6 E	—	—

386504 2009 BP_{58}

12 23	20 49.13	−25 49.4	1.405	0.870	43.9	20.8	38 E	13*	30*
12 28	21 18.57	−24 6.0	1.425	0.917	43.2	21.0	40 E	15*	31*
1 2	21 46.01	−22 7.1	1.453	0.964	42.2	21.1	41 E	18*	31*
1 7	22 11.48	−19 57.7	1.488	1.012	41.0	21.2	42 E	20*	32*
1 12	22 35.06	−17 42.3	1.530	1.059	39.7	21.3	43 E	22*	32*
1 17	22 56.92	−15 24.4	1.576	1.107	38.2	21.4	44 E	23*	32*

436037 2009 *NJ*

12 23	20 49.49	−13 33.3	0.797	0.643	85.5	20.1	41 E	24*	25*
12 28	21 15.75	−12 28.7	0.718	0.658	91.2	20.2	42 E	26*	26*
1 2	21 43.93	−11 20.3	0.644	0.683	95.6	20.2	44 E	27*	27*
1 7	22 14.81	−10 5.8	0.576	0.716	98.5	20.2	46 E	29*	29*
1 12	22 49.32	− 8 41.1	0.517	0.757	99.3	20.2	49 E	31*	32*
1 17	23 28.30	− 7 0.8	0.468	0.803	97.9	20.0	54 E	34*	35*
1 22	0 12.07	− 5 0.7	0.432	0.853	94.2	19.8	60 E	37*	40*
1 27	0 59.85	− 2 41.3	0.411	0.905	88.6	19.6	67 E	41*	45*
2 1	1 49.51	− 0 10.9	0.406	0.959	81.6	19.4	74 E	44*	50*
2 3	2 9.24	+ 0 49.1	0.408	0.981	78.7	19.4	77 E	46*	51*
2 5	2 28.60	+ 1 47.6	0.413	1.002	75.7	19.3	80 E	47*	53*
2 7	2 47.41	+ 2 43.8	0.421	1.024	72.9	19.3	83 E	48*	54*
2 9	3 5.55	+ 3 36.8	0.431	1.046	70.1	19.3	86 E	49	55*
2 11	3 22.90	+ 4 26.3	0.443	1.068	67.4	19.3	88 E	49	55*
2 16	4 2.50	+ 6 13.3	0.482	1.123	61.4	19.5	93 E	51	56*
2 21	4 36.68	+ 7 37.2	0.532	1.178	56.4	19.6	97 E	53	56*
2 26	5 5.96	+ 8 41.2	0.590	1.232	52.5	19.8	99 E	54	55*
3 2	5 31.16	+ 9 29.3	0.654	1.285	49.2	20.1	101 E	54	55*
3 7	5 53.06	+10 5.1	0.723	1.338	46.7	20.3	101 E	55	54
3 12	6 12.34	+10 31.2	0.797	1.390	44.5	20.5	101 E	56	53
3 17	6 29.55	+10 49.7	0.875	1.440	42.8	20.8	101 E	56	53
3 22	6 45.15	+11 2.0	0.955	1.490	41.2	21.0	100 E	56	53

436037 2009 *NJ* *(continuation)*

3 27	6 59.46	+11 9.1	1.038	1.539	39.9	21.2	98 E	56*	53
4 1	7 12.75	+11 11.7	1.124	1.587	38.7	21.4	97 E	56*	53

481063 2005 OC_3

12 23	20 49.50	−23 53.4	2.151	1.505	23.8	21.4	38 E	15*	29*
12 28	21 5.81	−22 55.0	2.175	1.509	23.0	21.4	37 E	15*	28*
1 2	21 21.89	−21 51.0	2.200	1.515	22.3	21.4	36 E	16*	26*
1 7	21 37.71	−20 42.0	2.226	1.522	21.5	21.4	35 E	16*	25*
1 12	21 53.26	−19 28.5	2.253	1.530	20.7	21.4	33 E	16*	23*
1 17	22 8.52	−18 11.1	2.280	1.540	19.9	21.4	32 E	16*	22*
1 22	22 23.50	−16 50.4	2.309	1.550	19.1	21.4	31 E	16*	21*
1 27	22 38.20	−15 26.9	2.337	1.561	18.2	21.5	30 E	15*	19*
2 1	22 52.62	−14 1.2	2.367	1.573	17.4	21.5	28 E	15*	18*
2 6	23 6.76	−12 33.8	2.397	1.586	16.5	21.5	27 E	14*	17*

381050 2006 WR_3

12 23	20 49.74	+26 36.2	2.873	2.603	19.9	21.2	64 E	58*	6*
1 2	21 7.17	+27 8.4	2.897	2.561	19.5	21.1	61 E	54*	1*
1 12	21 25.90	+27 55.1	2.916	2.519	19.1	21.1	57 E	49*	—
1 22	21 45.86	+28 54.8	2.932	2.479	18.7	21.1	54 E	44*	—
2 1	22 7.03	+30 6.3	2.943	2.439	18.2	21.0	51 E	39*	—
2 11	22 29.36	+31 27.6	2.952	2.401	17.7	21.0	48 E	35*	—
2 21	22 52.85	+32 56.2	2.959	2.363	17.2	20.9	45 E	31*	—
3 2	23 17.50	+34 29.5	2.965	2.327	16.6	20.9	42 E	27*	—
3 12	23 43.31	+36 4.3	2.969	2.292	16.0	20.8	40 E	24*	—
3 22	0 10.26	+37 37.3	2.973	2.258	15.4	20.8	37 E	21*	—
4 1	0 38.32	+39 5.2	2.976	2.227	14.8	20.7	35 W	19*	—
4 11	1 7.40	+40 24.3	2.979	2.197	14.1	20.7	32 W	19*	—
4 21	1 37.37	+41 31.5	2.981	2.169	13.4	20.6	30 W	19*	—
5 1	2 8.04	+42 23.7	2.982	2.144	12.7	20.6	28 W	18*	—
5 11	2 39.12	+42 58.5	2.981	2.120	12.1	20.5	26 W	18*	—
5 21	3 10.32	+43 14.1	2.977	2.100	11.6	20.5	25 W	17*	—
5 31	3 41.28	+43 9.4	2.969	2.082	11.3	20.5	24 W	17*	—
6 10	4 11.62	+42 44.1	2.957	2.066	11.3	20.4	24 W	17*	—
6 20	4 41.05	+41 58.5	2.939	2.054	11.7	20.4	24 W	18*	—
6 30	5 9.29	+40 53.4	2.915	2.044	12.3	20.4	25 W	19*	1*
7 10	5 36.13	+39 30.1	2.883	2.038	13.4	20.4	28 W	21*	4*
7 20	6 1.45	+37 49.8	2.844	2.035	14.7	20.4	30 W	24*	7*
7 30	6 25.15	+35 53.8	2.796	2.034	16.2	20.4	34 W	27*	10*
8 9	6 47.20	+33 43.3	2.739	2.037	17.8	20.5	38 W	31*	13*
8 19	7 7.59	+31 19.4	2.674	2.043	19.5	20.5	42 W	35*	16*
8 29	7 26.32	+28 42.6	2.599	2.052	21.2	20.5	47 W	39*	20*
9 8	7 43.36	+25 53.5	2.517	2.064	22.8	20.5	52 W	43*	24*
9 18	7 58.71	+22 52.0	2.427	2.079	24.2	20.4	58 W	48*	28*
9 28	8 12.29	+19 38.2	2.331	2.097	25.5	20.4	64 W	52*	32*
10 8	8 24.00	+16 11.5	2.230	2.118	26.4	20.4	70 W	54*	38*
10 18	8 33.70	+12 31.4	2.127	2.140	27.0	20.3	77 W	55*	43*
10 28	8 41.16	+ 8 37.8	2.023	2.166	27.2	20.2	84 W	54*	50*
11 7	8 46.14	+ 4 30.7	1.922	2.193	26.8	20.1	92 W	50	56*
11 17	8 48.30	+ 0 11.4	1.828	2.223	26.0	20.0	100 W	45	63*
11 27	8 47.30	− 4 16.7	1.745	2.254	24.6	19.9	108 W	41	68
12 2	8 45.53	− 6 32.1	1.709	2.270	23.7	19.9	112 W	38	71
12 7	8 42.87	− 8 47.1	1.677	2.287	22.8	19.8	116 W	36	73
12 12	8 39.31	−11 0.1	1.649	2.304	21.7	19.8	120 W	34	75
12 17	8 34.86	−13 9.5	1.628	2.322	20.7	19.7	124 W	32	77
12 22	8 29.57	−15 13.5	1.612	2.340	19.6	19.7	127 W	30	79
12 27	8 23.51	−17 10.2	1.602	2.358	18.6	19.6	130 W	28	81
1 1	8 16.79	−18 57.6	1.599	2.377	17.8	19.6	132 W	26	83
1 6	8 9.54	−20 34.3	1.603	2.396	17.1	19.6	134 W	24	85
1 11	8 1.94	−21 58.8	1.613	2.415	16.6	19.6	135 W	23	86
1 16	7 54.19	−23 10.2	1.630	2.434	16.4	19.7	136 W	22	87

475134 2005 UH_{332}

12 23	20 49.83	−28 43.5	2.336	1.671	21.1	21.4	38 E	11*	30*
12 28	21 5.00	−27 41.0	2.365	1.677	20.3	21.4	36 E	11*	29*
1 2	21 19.90	−26 33.8	2.395	1.684	19.5	21.4	35 E	11*	27*
1 7	21 34.51	−25 22.4	2.424	1.691	18.6	21.4	33 E	11*	25*
1 12	21 48.82	−24 7.3	2.454	1.699	17.8	21.4	32 E	11*	24*
1 17	22 2.84	−22 48.9	2.484	1.708	16.9	21.4	30 E	11*	22*
1 22	22 16.57	−21 27.7	2.514	1.718	16.0	21.4	29 E	11*	21*
1 27	22 30.02	−20 4.1	2.543	1.728	15.1	21.5	27 E	10*	19*
2 1	22 43.18	−18 38.7	2.573	1.739	14.2	21.5	26 E	10*	18*
2 6	22 56.08	−17 11.7	2.603	1.750	13.3	21.5	24 E	9*	16*
2 11	23 8.73	−15 43.8	2.632	1.762	12.4	21.5	23 E	8*	15*
2 16	23 21.13	−14 15.1	2.661	1.775	11.5	21.5	21 E	7*	14*
2 21	23 33.30	−12 46.1	2.690	1.788	10.6	21.5	19 E	6*	12*
2 26	23 45.27	−11 17.0	2.718	1.801	9.7	21.5	18 E	5*	11*
3 2	23 57.03	− 9 48.2	2.745	1.815	8.8	21.5	16 E	3*	10*
3 7	0 8.60	− 8 20.0	2.772	1.830	7.9	21.5	15 E	2*	8*
3 12	0 20.00	− 6 52.6	2.798	1.844	7.0	21.5	13 E	—	7*
3 17	0 31.24	− 5 26.3	2.823	1.859	6.2	21.5	12 E	—	6*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		475134 2005 UH_{332} *(continuation)*							
	h m	° ′			°	m	°	°	°
3 22	0 42.33	− 4 1.2	2.847	1.875	5.4	21.5	10 E	—	4*
3 27	0 53.29	− 2 37.5	2.870	1.891	4.7	21.5	9 E	—	3*
4 1	1 4.12	− 1 15.4	2.891	1.907	4.2	21.5	8 E	—	1*
4 6	1 14.82	+ 0 4.8	2.911	1.923	3.8	21.5	7 E	—	—
		202435 2005 XH_8							
12 23	20 50.01	−36 10.4	1.450	0.910	41.9	20.1	38 E	4*	32*
12 28	21 21.34	−34 49.8	1.498	0.976	40.3	20.3	40 E	6*	34*
1 2	21 49.52	−33 8.3	1.553	1.040	38.6	20.5	41 E	8*	35*
1 7	22 14.77	−31 13.4	1.612	1.101	36.8	20.6	42 E	9*	35*
1 12	22 37.43	−29 11.0	1.676	1.160	35.0	20.8	43 E	11*	36*
1 17	22 57.86	−27 5.3	1.743	1.217	33.2	20.9	43 E	13*	35*
1 22	23 16.39	−24 59.2	1.812	1.272	31.4	21.1	42 E	14*	35*
1 27	23 33.33	−22 54.7	1.883	1.325	29.7	21.2	42 E	15*	34*
2 1	23 48.93	−20 53.1	1.956	1.375	28.1	21.3	41 E	16*	33*
2 6	0 3.41	−18 55.3	2.028	1.424	26.5	21.4	40 E	16*	32*
		337118 1999 TX_2							
12 23	20 50.41	− 5 24.7	1.646	1.165	36.1	21.2	44 E	32*	22*
1 2	21 27.14	− 7 5.4	1.788	1.240	31.8	21.4	42 E	29*	22*
1 12	21 59.69	− 8 14.4	1.931	1.310	27.7	21.6	38 E	26*	20*
1 22	22 29.04	− 8 58.2	2.070	1.377	23.9	21.7	35 E	23*	19*
2 1	22 55.95	− 9 22.6	2.200	1.440	20.3	21.8	30 E	19*	17*
		142944 2002 VT_{69}							
12 23	20 50.43	−25 29.0	2.595	1.920	18.4	19.4	38 E	14*	30*
1 2	21 13.55	−23 20.6	2.624	1.886	16.8	19.4	34 E	13*	25*
1 12	21 36.80	−20 59.8	2.647	1.854	15.1	19.3	29 E	13*	20*
1 22	22 0.11	−18 27.2	2.664	1.822	13.3	19.2	25 E	11*	16*
2 1	22 23.47	−15 43.6	2.675	1.792	11.5	19.1	21 E	9*	12*
2 11	22 46.84	−12 50.2	2.680	1.764	9.7	19.0	17 E	7*	9*
2 21	23 10.27	− 9 48.3	2.681	1.737	7.8	18.9	14 E	4*	6*
3 2	23 33.80	− 6 39.3	2.678	1.712	6.0	18.8	10 E	2*	3*
3 12	23 57.48	− 3 25.2	2.671	1.690	4.2	18.6	7 E	—	—
3 22	0 21.39	− 0 7.7	2.662	1.669	2.4	18.5	4 E	—	—
4 1	0 45.63	+ 3 11.1	2.651	1.652	1.0	18.4	2 E	—	—
4 11	1 10.27	+ 6 28.7	2.638	1.637	1.7	18.4	3 W	—	—
4 21	1 35.43	+ 9 42.9	2.624	1.626	3.4	18.5	5 W	—	—
5 1	2 1.18	+12 51.1	2.609	1.618	5.1	18.6	8 W	—	2*
5 11	2 27.59	+15 50.6	2.593	1.613	6.8	18.6	11 W	—	4*
5 21	2 54.73	+18 38.7	2.577	1.611	8.5	18.7	14 W	1*	7*
5 31	3 22.61	+21 12.8	2.561	1.613	10.1	18.7	16 W	4*	9*
6 10	3 51.20	+23 30.3	2.545	1.618	11.7	18.8	19 W	6*	10*
6 20	4 20.42	+25 29.2	2.527	1.626	13.3	18.8	22 W	9*	11*
6 30	4 50.15	+27 7.6	2.509	1.638	14.8	18.9	24 W	13*	12*
7 10	5 20.16	+28 24.3	2.490	1.652	16.3	19.0	27 W	16*	13*
7 20	5 50.25	+29 18.9	2.469	1.670	17.8	19.0	30 W	20*	14*
7 30	6 20.13	+29 51.6	2.445	1.690	19.2	19.1	33 W	24*	14*
8 9	6 49.52	+30 3.5	2.419	1.713	20.6	19.1	36 W	28*	15*
8 19	7 18.19	+29 56.5	2.389	1.737	21.9	19.2	40 W	32*	15*
8 29	7 45.87	+29 32.7	2.356	1.764	23.2	19.2	43 W	36*	16*
9 8	8 12.40	+28 55.1	2.317	1.793	24.4	19.2	47 W	40*	17*
9 18	8 37.63	+28 6.7	2.274	1.823	25.5	19.3	51 W	44*	18*
9 28	9 1.44	+27 10.7	2.225	1.854	26.5	19.3	56 W	49*	19*
10 8	9 23.74	+26 10.5	2.170	1.887	27.4	19.3	60 W	53*	21*
10 18	9 44.47	+25 9.2	2.109	1.920	28.1	19.3	65 W	57*	23*
10 28	10 3.52	+24 10.2	2.042	1.954	28.7	19.3	71 W	62*	26*
11 7	10 20.79	+23 16.6	1.970	1.989	29.0	19.2	77 W	65*	28*
11 17	10 36.14	+22 31.5	1.894	2.024	29.0	19.2	83 W	67*	32*
11 27	10 49.35	+21 58.0	1.813	2.059	28.6	19.1	90 W	67	35*
12 7	11 0.18	+21 38.7	1.732	2.095	27.8	19.0	97 W	67	38*
12 17	11 8.29	+21 36.0	1.650	2.130	26.5	18.9	105 W	67	41*
12 27	11 13.31	+21 51.5	1.572	2.165	24.5	18.8	114 W	67	42*
1 6	11 14.86	+22 24.7	1.501	2.200	21.9	18.7	123 W	67	42
1 16	11 12.66	+23 13.5	1.441	2.235	18.6	18.5	133 W	68	41
		153201 2000 WO_{107}							
12 23	20 50.90	−20 29.8	0.690	0.624	96.9	20.9	39 E	18*	28*
12 25	21 11.36	−18 56.2	0.677	0.661	94.7	20.9	42 E	21*	30*
12 27	21 31.41	−17 13.7	0.669	0.696	92.2	20.9	45 E	23*	32*
12 29	21 50.89	−15 24.2	0.665	0.731	89.5	20.9	48 E	26*	34*
12 31	22 9.68	−13 30.1	0.665	0.764	86.6	20.9	51 E	28*	36*
1 2	22 27.69	−11 33.6	0.669	0.797	83.8	20.9	54 E	31*	37*
1 4	22 44.85	− 9 36.7	0.677	0.828	80.9	20.9	56 E	33*	38*
1 6	23 1.13	− 7 41.3	0.688	0.858	78.1	20.9	59 E	35*	39*
1 8	23 16.51	− 5 49.0	0.703	0.888	75.4	20.9	61 E	38*	40*
1 10	23 31.01	− 4 0.8	0.720	0.916	72.8	20.9	63 E	40*	40*
1 12	23 44.66	− 2 17.5	0.739	0.944	70.3	21.0	65 E	41*	41*
1 17	0 15.38	+ 1 36.9	0.796	1.009	64.8	21.1	68 E	46*	41*
1 22	0 41.87	+ 4 57.0	0.863	1.070	60.1	21.3	70 E	49*	40*
1 27	1 4.95	+ 7 46.3	0.936	1.126	56.1	21.5	72 E	51*	39*
2 1	1 25.34	+10 9.7	1.014	1.178	52.8	21.6	72 E	53*	38*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		438530 2007 TV_{65}							
	h m	° ′			°	m	°	°	°
12 23	20 51.45	−12 32.1	2.427	1.811	21.1	20.9	41 E	26*	26*
1 2	21 14.26	−10 55.6	2.440	1.759	19.7	20.9	37 E	24*	20*
1 12	21 37.97	− 9 4.6	2.445	1.708	18.3	20.8	33 E	23*	16*
1 22	22 2.51	− 6 59.5	2.445	1.659	16.9	20.6	29 E	21*	12*
2 1	22 27.88	− 4 41.1	2.439	1.613	15.6	20.5	26 E	19*	9*
2 11	22 54.05	− 2 10.9	2.431	1.570	14.2	20.4	23 E	16*	6*
2 21	23 21.06	+ 0 29.1	2.420	1.530	12.9	20.3	20 E	14*	4*
3 2	23 48.93	+ 3 16.4	2.409	1.495	11.6	20.2	18 E	11*	2*
3 12	0 17.71	+ 6 7.7	2.399	1.464	10.4	20.1	15 E	9*	1*
3 22	0 47.45	+ 8 59.2	2.391	1.439	9.2	20.0	13 E	7*	—
4 1	1 18.19	+11 46.4	2.386	1.420	8.1	19.9	11 E	5*	—
4 11	1 49.90	+14 24.7	2.385	1.408	6.9	19.8	10 E	4*	—
4 21	2 22.54	+16 49.2	2.390	1.402	5.8	19.8	8 E	2*	—
5 1	2 55.99	+18 55.5	2.399	1.403	4.7	19.7	7 E	—	—
5 11	3 30.03	+20 39.4	2.414	1.411	3.6	19.7	5 E	—	—
5 21	4 4.40	+21 57.9	2.435	1.426	2.4	19.7	3 E	—	—
5 31	4 38.74	+22 49.3	2.460	1.447	1.2	19.6	2 E	—	—
6 10	5 12.68	+23 13.0	2.489	1.473	0.2	19.6	0 W	—	—
6 20	5 45.89	+23 9.9	2.520	1.505	1.4	19.8	2 W	—	—
6 30	6 18.05	+22 41.7	2.554	1.542	2.8	20.0	4 W	—	—
7 10	6 48.90	+21 51.2	2.588	1.583	4.3	20.1	7 W	—	—
7 20	7 18.33	+20 41.4	2.622	1.627	5.8	20.3	9 W	—	2*
7 30	7 46.22	+19 15.7	2.653	1.674	7.4	20.5	12 W	2*	4*
8 9	8 12.56	+17 37.3	2.681	1.724	8.9	20.6	15 W	6*	7*
8 19	8 37.39	+15 48.9	2.704	1.775	10.6	20.8	19 W	9*	9*
8 29	9 0.75	+13 53.4	2.720	1.828	12.2	20.9	22 W	13*	11*
9 8	9 22.72	+11 53.2	2.730	1.882	13.8	21.0	26 W	17*	14*
9 18	9 43.35	+ 9 50.0	2.732	1.936	15.3	21.2	31 W	21*	17*
9 28	10 2.71	+ 7 45.9	2.724	1.991	16.9	21.3	35 W	25*	20*
10 8	10 20.83	+ 5 42.4	2.706	2.047	18.3	21.4	40 W	29*	23*
10 18	10 37.75	+ 3 40.7	2.679	2.102	19.7	21.4	45 W	33*	27*
		223074 2002 TB_{256}							
12 23	20 52.27	−15 34.1	2.133	1.527	24.8	21.4	41 E	23*	27*
1 2	21 22.05	−13 31.3	2.175	1.524	23.4	21.4	38 E	23*	23*
1 12	21 51.52	−11 13.1	2.218	1.525	21.9	21.4	35 E	23*	20*
1 22	22 20.58	− 8 42.5	2.264	1.531	20.3	21.4	33 E	22*	17*
2 1	22 49.21	− 6 2.8	2.312	1.541	18.7	21.4	30 E	21*	14*
2 11	23 17.37	− 3 17.5	2.361	1.554	17.0	21.4	28 E	19*	12*
2 21	23 45.09	− 0 29.9	2.413	1.572	15.3	21.4	25 E	17*	10*
3 2	0 12.42	+ 2 16.7	2.466	1.593	13.6	21.5	22 E	15*	8*
3 12	0 39.39	+ 4 59.4	2.520	1.617	11.8	21.5	19 E	12*	6*
3 22	1 6.05	+ 7 35.6	2.575	1.644	10.0	21.5	17 E	10*	4*
4 1	1 32.45	+10 3.0	2.629	1.674	8.1	21.5	14 E	7*	3*
4 11	1 58.60	+12 19.6	2.682	1.706	6.2	21.5	11 E	4*	1*
4 21	2 24.53	+14 24.0	2.732	1.741	4.3	21.5	7 E	1*	—
5 1	2 50.24	+16 14.9	2.780	1.776	2.4	21.4	4 E	—	—
5 11	3 15.70	+17 51.5	2.823	1.814	0.5	21.3	1 E	—	—
		138978 2001 CD_{32}							
12 23	20 52.86	− 2 51.7	2.317	1.781	23.4	20.4	46 E	34*	22*
1 2	21 8.34	+ 0 2.7	2.360	1.747	21.8	20.3	41 E	33*	14*
1 12	21 24.64	+ 3 6.0	2.388	1.714	20.4	20.3	37 E	31*	7*
1 22	21 41.80	+ 6 19.8	2.402	1.680	19.2	20.2	34 E	28*	1*
2 1	21 59.92	+ 9 45.2	2.404	1.646	18.2	20.1	32 E	25*	—
2 11	22 19.13	+13 23.0	2.393	1.613	17.7	20.1	30 E	21*	—
2 21	22 39.64	+17 13.4	2.373	1.580	17.6	20.0	29 E	18*	—
3 2	23 1.77	+21 16.0	2.344	1.548	17.8	19.9	29 E	16*	—
3 12	23 25.92	+25 28.7	2.311	1.518	18.4	19.9	29 W	15*	—
3 17	23 38.91	+27 38.0	2.293	1.503	18.8	19.8	29 W	16*	—
3 22	23 52.63	+29 48.3	2.274	1.488	19.2	19.8	29 W	17*	—
3 27	0 7.16	+31 59.0	2.256	1.474	19.6	19.8	30 W	18*	—
4 1	0 22.58	+34 9.1	2.239	1.461	20.0	19.8	30 W	18*	—
4 6	0 39.01	+36 17.1	2.222	1.448	20.4	19.7	30 W	19*	—
4 11	0 56.54	+38 21.8	2.206	1.435	20.7	19.7	30 W	19*	—
4 16	1 15.28	+40 21.4	2.192	1.424	21.1	19.7	31 W	19*	—
4 21	1 35.30	+42 14.1	2.180	1.413	21.3	19.7	31 W	19*	—
4 26	1 56.66	+43 57.6	2.170	1.402	21.5	19.7	31 W	19*	—
5 1	2 19.34	+45 29.8	2.163	1.393	21.6	19.6	31 W	19*	—
5 6	2 43.30	+46 48.2	2.158	1.384	21.6	19.6	30 W	18*	—
5 11	3 8.38	+47 50.8	2.155	1.376	21.5	19.6	30 W	18*	—
5 16	3 34.36	+48 35.7	2.156	1.369	21.3	19.6	30 E	17*	—
5 21	4 0.92	+49 1.4	2.159	1.363	21.0	19.6	29 E	18*	—
5 26	4 27.69	+49 7.4	2.164	1.358	20.6	19.6	28 E	18*	—
5 31	4 54.25	+48 53.4	2.172	1.354	20.1	19.5	27 E	18*	—
6 5	5 20.23	+48 20.1	2.183	1.351	19.5	19.5	26 E	18*	—
6 10	5 45.30	+47 28.9	2.195	1.349	18.8	19.5	25 E	17*	—
6 15	6 9.23	+46 21.4	2.210	1.348	17.9	19.5	24 E	17*	—
6 20	6 31.88	+44 59.6	2.226	1.348	17.0	19.5	23 E	16*	—
6 25	6 53.17	+43 25.7	2.243	1.349	16.0	19.5	21 E	15*	—
6 30	7 13.09	+41 41.5	2.261	1.351	14.9	19.5	20 E	13*	—

138978 2001 CD_{32} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 5	7 31.70	+39 49.0	2.279	1.354	13.8	19.4	19 E	12*	—
7 10	7 49.07	+37 49.7	2.298	1.358	12.6	19.4	17 E	10*	—
7 15	8 5.32	+35 45.0	2.316	1.364	11.4	19.4	15 E	9*	—
7 20	8 20.55	+33 36.2	2.334	1.370	10.2	19.4	14 E	7*	—
7 25	8 34.85	+31 24.2	2.352	1.377	9.1	19.4	12 E	6*	—
7 30	8 48.32	+29 9.7	2.368	1.384	8.0	19.3	11 E	4*	—
8 4	9 1.07	+26 53.4	2.383	1.393	7.0	19.3	10 E	2*	—
8 9	9 13.17	+24 35.7	2.396	1.403	6.3	19.3	9 W	1*	—
8 19	9 35.76	+19 57.4	2.418	1.424	5.9	19.4	8 W	2*	—
8 29	9 56.60	+15 16.6	2.431	1.448	7.1	19.5	10 W	4*	—
9 8	10 16.10	+10 33.9	2.436	1.475	9.1	19.6	13 W	6*	3*
9 18	10 34.60	+ 5 49.1	2.432	1.503	11.5	19.7	17 W	9*	7*
9 28	10 52.35	+ 1 2.0	2.418	1.533	14.0	19.8	22 W	11*	12*
10 8	11 9.56	− 3 48.1	2.396	1.565	16.4	20.0	26 W	14*	17*
10 18	11 26.40	− 8 41.9	2.367	1.597	18.7	20.0	31 W	16*	22*
10 28	11 43.01	−13 40.1	2.331	1.630	20.8	20.1	36 W	17*	27*
11 7	11 59.51	−18 42.9	2.289	1.664	22.7	20.2	40 W	17*	32*
11 17	12 16.02	−23 50.8	2.243	1.697	24.4	20.2	45 W	16*	37*
11 27	12 32.62	−29 3.6	2.194	1.731	25.8	20.3	50 W	13*	43*
12 7	12 49.41	−34 20.5	2.145	1.765	27.0	20.3	54 W	10*	48*
12 17	13 6.50	−39 40.9	2.095	1.798	28.0	20.3	59 W	5*	53*
12 22	13 15.18	−42 21.8	2.071	1.814	28.4	20.3	61 W	3*	55*
12 27	13 23.96	−45 2.9	2.047	1.830	28.7	20.3	63 W	—	56*
1 1	13 32.88	−47 43.9	2.024	1.846	29.0	20.3	65 W	—	57*
1 6	13 41.95	−50 24.6	2.002	1.862	29.2	20.3	67 W	—	58*
1 11	13 51.17	−53 4.5	1.980	1.878	29.4	20.3	70 W	—	57*
1 16	14 0.58	−55 43.4	1.960	1.893	29.5	20.3	71 W	—	57*

368188 2000 SZ_{72}

12 23	20 53.09	−20 39.0	2.252	1.619	22.7	21.5	39 E	18*	29*
1 2	21 21.03	−18 23.6	2.293	1.609	21.2	21.5	36 E	19*	25*
1 12	21 48.63	−15 53.2	2.334	1.603	19.6	21.5	33 E	18*	21*
1 22	22 15.85	−13 10.1	2.373	1.599	17.9	21.4	30 E	18*	17*
2 1	22 42.67	−10 17.0	2.413	1.599	16.3	21.4	27 E	16*	14*
2 11	23 9.10	− 7 16.7	2.451	1.602	14.6	21.4	24 E	15*	12*
2 21	23 35.20	− 4 12.2	2.490	1.608	12.8	21.4	21 E	13*	9*
3 2	0 1.03	− 1 6.3	2.528	1.617	11.1	21.3	18 E	10*	7*
3 12	0 26.64	+ 1 58.3	2.566	1.629	9.3	21.3	15 E	8*	5*
3 22	0 52.12	+ 4 58.9	2.603	1.643	7.5	21.3	12 E	5*	2*
4 1	1 17.54	+ 7 53.3	2.638	1.660	5.7	21.3	9 E	3*	—
4 11	1 42.94	+10 39.1	2.672	1.680	3.8	21.2	6 E	—	—
4 21	2 8.37	+13 14.5	2.704	1.702	2.0	21.2	3 E	—	—
5 1	2 33.86	+15 37.8	2.733	1.725	0.3	21.0	1 E	—	—
5 11	2 59.40	+17 47.6	2.758	1.751	1.8	21.2	3 W	—	—
5 21	3 24.98	+19 42.8	2.780	1.778	3.6	21.4	6 W	—	—

103161 1999 XF_{225}

12 23	20 53.37	−21 55.0	2.308	1.668	21.9	20.5	39 E	17*	29*
1 2	21 21.56	−20 6.7	2.357	1.665	20.3	20.5	36 E	17*	25*
1 12	21 49.35	−18 2.3	2.404	1.664	18.6	20.5	33 E	17*	22*
1 22	22 16.67	−15 44.3	2.450	1.667	16.9	20.5	30 E	16*	19*
2 1	22 43.48	−13 15.6	2.496	1.673	15.2	20.4	26 E	14*	16*
2 11	23 9.77	−10 38.9	2.541	1.681	13.5	20.4	23 E	12*	13*
2 21	23 35.55	− 7 57.1	2.585	1.692	11.7	20.4	20 E	10*	11*
3 2	0 0.88	− 5 13.0	2.628	1.706	9.9	20.4	17 E	7*	8*
3 12	0 25.81	− 2 29.1	2.669	1.723	8.1	20.4	14 E	5*	6*
3 22	0 50.40	+ 0 12.0	2.708	1.741	6.4	20.4	11 E	2*	4*
4 1	1 14.71	+ 2 48.4	2.745	1.762	4.7	20.3	8 E	—	2*
4 11	1 38.77	+ 5 18.0	2.779	1.785	3.3	20.3	6 E	—	—
4 21	2 2.63	+ 7 39.1	2.810	1.810	2.5	20.3	5 E	—	—
5 1	2 26.33	+ 9 50.5	2.836	1.836	3.0	20.4	6 W	—	—
5 11	2 49.85	+11 50.9	2.858	1.864	4.4	20.5	8 W	—	2*
5 21	3 13.21	+13 39.4	2.875	1.892	6.0	20.6	11 W	—	5*
5 31	3 36.36	+15 15.5	2.885	1.922	7.8	20.8	15 W	—	9*
6 10	3 59.27	+16 38.7	2.889	1.953	9.5	20.9	19 W	—	12*
6 20	4 21.89	+17 48.9	2.885	1.984	11.3	21.0	22 W	4*	16*
6 30	4 44.14	+18 46.3	2.874	2.016	13.0	21.1	27 W	8*	19*
7 10	5 5.93	+19 31.3	2.854	2.049	14.7	21.2	31 W	13*	21*
7 20	5 27.18	+20 4.5	2.826	2.081	16.4	21.2	35 W	18*	24*
7 30	5 47.78	+20 26.6	2.789	2.114	18.0	21.3	40 W	23*	26*
8 9	6 7.62	+20 38.9	2.743	2.147	19.5	21.3	45 W	29*	28*
8 19	6 26.60	+20 42.4	2.687	2.180	20.8	21.4	50 W	35*	30*
8 29	6 44.59	+20 38.8	2.623	2.212	22.1	21.4	55 W	41*	32*
9 8	7 1.44	+20 29.6	2.549	2.244	23.2	21.4	61 W	47*	34*
9 18	7 17.03	+20 16.8	2.468	2.277	24.0	21.4	67 W	53*	36*
9 28	7 31.15	+20 2.3	2.379	2.308	24.6	21.3	74 W	58*	38*
10 8	7 43.64	+19 48.4	2.285	2.339	24.9	21.3	81 W	62*	40*
10 18	7 54.25	+19 37.5	2.185	2.370	24.8	21.2	88 W	64*	41*
10 28	8 2.70	+19 32.1	2.084	2.400	24.3	21.1	96 W	65	43*
11 7	8 8.70	+19 34.8	1.982	2.430	23.2	21.0	105 W	65	44*
11 17	8 11.92	+19 47.8	1.885	2.459	21.6	20.9	114 W	65	44

103161 1999 XF_{225} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
11 27	8 12.06	+20 12.9	1.795	2.487	19.2	20.7	124 W	65	44
12 7	8 8.96	+20 50.3	1.719	2.515	16.0	20.5	135 W	66	43
12 17	8 2.62	+21 38.6	1.660	2.542	12.2	20.4	147 W	67	42
12 22	7 58.36	+22 5.8	1.639	2.555	10.1	20.3	153 W	67	42
12 27	7 53.48	+22 34.0	1.625	2.568	7.8	20.2	159 W	68	41
1 1	7 48.11	+23 2.7	1.617	2.581	5.4	20.0	166 W	68	41
1 6	7 42.40	+23 30.9	1.616	2.594	3.0	19.9	172 W	69	40
1 11	7 36.52	+23 58.1	1.623	2.606	1.0	19.8	177 W	69	40
1 16	7 30.63	+24 23.5	1.638	2.618	2.2	19.9	174 E	69	40

234405 2001 RX_{16}

12 23	20 53.52	−28 52.7	2.937	2.253	15.8	20.9	39 E	11*	31*
1 2	21 12.49	−26 34.6	2.974	2.217	14.0	20.8	33 E	10*	25*
1 12	21 31.57	−24 9.5	3.001	2.181	12.2	20.7	28 E	9*	20*
1 22	21 50.72	−21 37.3	3.018	2.145	10.2	20.6	23 E	7*	15*
2 1	22 9.90	−18 58.0	3.025	2.109	8.2	20.5	18 E	5*	11*
2 11	22 29.11	−16 12.0	3.022	2.073	6.2	20.4	13 E	2*	6*
2 21	22 48.35	−13 19.4	3.010	2.038	4.2	20.2	9 E	—	3*
3 2	23 7.65	−10 20.5	2.989	2.003	2.4	20.1	5 E	—	—
3 12	23 27.04	− 7 15.9	2.959	1.969	2.0	20.0	4 W	—	—
3 22	23 46.59	− 4 6.0	2.921	1.935	3.4	20.0	7 W	—	—
4 1	0 6.37	− 0 51.3	2.877	1.903	5.5	20.0	10 W	—	4*
4 11	0 26.46	+ 2 27.4	2.826	1.871	7.6	20.1	14 W	—	8*
4 21	0 46.97	+ 5 49.4	2.771	1.841	9.7	20.1	18 W	1*	12*
5 1	1 8.01	+ 9 13.7	2.710	1.813	11.9	20.1	22 W	4*	15*
5 11	1 29.71	+12 39.2	2.647	1.786	14.0	20.1	25 W	7*	18*
5 21	1 52.23	+16 4.5	2.581	1.761	16.0	20.1	29 W	10*	20*
5 31	2 15.70	+19 27.9	2.514	1.739	18.0	20.0	32 W	14*	22*
6 10	2 40.29	+22 47.1	2.446	1.719	19.9	20.0	35 W	18*	23*
6 20	3 6.18	+25 59.8	2.379	1.701	21.7	20.0	38 W	22*	24*
6 30	3 33.50	+29 3.0	2.312	1.687	23.4	20.0	41 W	27*	23*
7 5	3 47.72	+30 29.9	2.279	1.681	24.2	19.9	43 W	29*	23*
7 10	4 2.33	+31 53.2	2.247	1.675	25.0	19.9	44 W	31*	22*
7 15	4 17.34	+33 12.4	2.215	1.671	25.8	19.9	46 W	34*	22*
7 20	4 32.75	+34 27.0	2.184	1.667	26.5	19.9	47 W	36*	21*
7 25	4 48.52	+35 36.6	2.153	1.664	27.2	19.9	48 W	38*	20*
7 30	5 4.64	+36 40.7	2.123	1.661	27.8	19.9	50 W	41*	19*
8 4	5 21.08	+37 39.0	2.094	1.660	28.5	19.9	51 W	43*	19*
8 9	5 37.81	+38 31.1	2.065	1.659	29.1	19.8	53 W	45*	18*
8 14	5 54.77	+39 16.7	2.037	1.660	29.6	19.8	54 W	47*	17*
8 19	6 11.90	+39 55.7	2.009	1.661	30.2	19.8	56 W	49*	16*
8 24	6 29.14	+40 27.9	1.981	1.663	30.7	19.8	57 W	50*	16*
8 29	6 46.39	+40 53.3	1.954	1.665	31.1	19.8	58 W	52*	15*
9 3	7 3.60	+41 12.1	1.927	1.669	31.5	19.8	60 W	54*	15*
9 8	7 20.68	+41 24.4	1.901	1.673	31.9	19.8	61 W	55*	14*
9 13	7 37.56	+41 30.6	1.875	1.678	32.3	19.8	63 W	57*	14*
9 18	7 54.16	+41 31.1	1.849	1.684	32.6	19.7	65 W	59*	14*
9 23	8 10.39	+41 26.3	1.822	1.691	32.9	19.7	66 W	60*	13*
9 28	8 26.20	+41 16.9	1.796	1.698	33.2	19.7	68 W	62*	13*
10 3	8 41.54	+41 3.5	1.769	1.706	33.4	19.7	70 W	64*	13*
10 8	8 56.36	+40 46.7	1.743	1.715	33.6	19.7	72 W	66*	14*
10 18	9 24.25	+40 5.9	1.688	1.734	33.8	19.6	76 W	70*	14*
10 28	9 49.59	+39 20.4	1.631	1.756	33.9	19.6	80 W	74*	15*
11 7	10 12.16	+38 35.5	1.573	1.781	33.7	19.5	85 W	79*	17*
11 17	10 31.75	+37 56.7	1.512	1.807	33.2	19.5	90 W	82*	19*
11 27	10 48.07	+37 28.4	1.449	1.835	32.3	19.4	96 W	82	22*
12 7	11 0.82	+37 14.0	1.386	1.865	31.1	19.3	102 W	82	24*
12 12	11 5.71	+37 12.9	1.355	1.880	30.2	19.2	106 W	82	25*
12 17	11 9.52	+37 16.0	1.325	1.896	29.3	19.2	110 W	82	26*
12 22	11 12.17	+37 23.1	1.295	1.912	28.2	19.1	113 W	82	26*
12 27	11 13.61	+37 33.9	1.267	1.928	26.9	19.1	117 W	83	26*
1 1	11 13.78	+37 47.7	1.240	1.945	25.5	19.0	122 W	83	26
1 6	11 12.60	+38 3.8	1.216	1.962	24.0	18.9	126 W	83	26
1 11	11 10.05	+38 21.0	1.195	1.979	22.3	18.8	130 W	83	26
1 16	11 6.10	+38 37.7	1.177	1.996	20.5	18.8	135 W	84	25

69117 2003 EX_2

12 23	20 53.63	−20 42.5	2.311	1.675	22.0	19.6	40 E	18*	29*
1 2	21 20.61	−18 51.3	2.339	1.649	20.5	19.5	36 E	18*	25*
1 12	21 47.75	−16 43.4	2.365	1.626	19.1	19.5	33 E	18*	21*
1 22	22 14.96	−14 20.3	2.388	1.607	17.6	19.4	30 E	17*	18*
2 1	22 42.16	−11 44.1	2.410	1.590	16.0	19.4	27 E	15*	15*
2 11	23 9.30	− 8 57.2	2.431	1.578	14.5	19.3	24 E	13*	12*
2 21	23 36.40	− 6 2.5	2.453	1.569	13.0	19.3	21 E	12*	10*
3 2	0 3.47	− 3 2.9	2.474	1.564	11.4	19.2	18 E	9*	8*
3 12	0 30.53	− 0 1.7	2.497	1.563	9.9	19.2	16 E	7*	6*
3 22	0 57.64	+ 2 58.0	2.520	1.567	8.3	19.2	13 E	5*	5*
4 1	1 24.83	+ 5 53.1	2.545	1.574	6.8	19.1	11 E	2*	3*
4 11	1 52.13	+ 8 40.4	2.570	1.585	5.2	19.1	8 E	—	1*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
69117 2003 EX_2 *(continuation)*									
4 21	2 19.57	+11 17.4	2.596	1.600	3.7	19.0	6 E	—	—
5 1	2 47.13	+13 41.6	2.623	1.618	2.2	19.0	4 E	—	—
5 11	3 14.78	+15 50.8	2.649	1.640	1.3	19.0	2 E	—	—
5 21	3 42.47	+17 43.5	2.674	1.664	2.0	19.1	3 W	—	—
5 31	4 10.11	+19 18.7	2.697	1.691	3.5	19.2	6 W	—	—
6 10	4 37.59	+20 35.5	2.718	1.721	5.1	19.4	9 W	—	3*
6 20	5 4.79	+21 34.0	2.736	1.753	6.8	19.5	12 W	—	5*
6 30	5 31.58	+22 14.4	2.749	1.786	8.5	19.6	15 W	3*	8*
7 10	5 57.81	+22 37.5	2.757	1.822	10.2	19.8	18 W	6*	10*
7 20	6 23.36	+22 44.7	2.760	1.858	11.9	19.9	22 W	10*	12*
7 30	6 48.11	+22 37.2	2.756	1.896	13.5	20.0	26 W	14*	14*
8 9	7 11.95	+22 16.8	2.744	1.934	15.2	20.1	30 W	19*	16*
8 19	7 34.81	+21 45.5	2.725	1.973	16.8	20.1	34 W	24*	18*
8 29	7 56.61	+21 5.2	2.697	2.012	18.3	20.2	39 W	29*	20*
9 8	8 17.29	+20 18.0	2.660	2.052	19.8	20.3	44 W	34*	22*
9 18	8 36.80	+19 26.0	2.614	2.092	21.1	20.3	49 W	39*	24*
9 28	8 55.07	+18 31.4	2.559	2.131	22.4	20.4	54 W	44*	26*
10 8	9 12.04	+17 36.4	2.495	2.171	23.4	20.4	60 W	49*	29*
10 18	9 27.64	+16 43.1	2.422	2.210	24.3	20.4	66 W	53*	32*
10 28	9 41.71	+15 54.1	2.342	2.249	24.9	20.4	72 W	57*	35*
11 7	9 54.15	+15 11.7	2.254	2.288	25.2	20.3	79 W	59*	39*
11 17	10 4.74	+14 38.4	2.162	2.326	25.1	20.3	87 W	60	42*
11 27	10 13.26	+14 16.8	2.067	2.363	24.6	20.2	95 W	59	46*
12 7	10 19.45	+14 9.4	1.972	2.400	23.5	20.1	103 W	59	49*
12 17	10 23.00	+14 18.2	1.880	2.437	21.9	20.0	113 W	59	50*
12 27	10 23.65	+14 44.7	1.795	2.472	19.5	19.8	123 W	60	49
1 6	10 21.23	+15 28.8	1.723	2.507	16.4	19.7	134 W	60	49
1 16	10 15.76	+16 28.0	1.668	2.541	12.7	19.5	146 W	61	48
317958 2003 XG									
12 23	20 53.66	−14 55.1	2.198	1.595	24.0	19.0	41 E	24*	27*
1 2	21 21.47	−12 27.9	2.222	1.572	22.8	19.0	38 E	24*	23*
1 12	21 49.51	− 9 45.3	2.247	1.554	21.5	19.0	35 E	24*	19*
1 22	22 17.66	− 6 49.7	2.275	1.543	20.2	18.9	33 E	23*	15*
2 1	22 45.89	− 3 44.3	2.305	1.538	18.9	18.9	30 E	22*	12*
2 11	23 14.11	− 0 32.6	2.338	1.539	17.6	18.9	28 E	21*	10*
2 21	23 42.34	+ 2 41.5	2.376	1.547	16.2	18.9	26 E	19*	8*
3 2	0 10.57	+ 5 54.2	2.419	1.561	14.7	18.9	24 E	17*	6*
3 12	0 38.78	+ 9 1.6	2.465	1.581	13.2	18.9	21 E	15*	4*
3 22	1 7.00	+12 0.2	2.516	1.607	11.6	18.9	19 E	13*	3*
4 1	1 35.20	+14 47.0	2.570	1.637	10.0	19.0	17 E	10*	1*
4 11	2 3.36	+17 19.3	2.626	1.673	8.4	19.0	14 E	8*	—
4 21	2 31.42	+19 35.2	2.685	1.712	6.8	19.0	12 E	6*	—
5 1	2 59.32	+21 33.3	2.743	1.755	5.1	19.0	9 E	3*	—
5 11	3 26.94	+23 12.8	2.801	1.801	3.6	19.1	6 E	—	—
5 21	3 54.20	+24 33.4	2.857	1.850	2.4	19.1	4 E	—	—
5 31	4 20.96	+25 35.6	2.910	1.901	2.4	19.2	5 W	—	—
6 10	4 47.09	+26 19.9	2.958	1.954	3.6	19.3	7 W	—	—
6 20	5 12.48	+26 47.4	3.000	2.008	5.1	19.5	10 W	2*	1*
6 30	5 37.00	+26 59.5	3.035	2.064	6.8	19.7	14 W	5*	4*
7 10	6 0.55	+26 57.7	3.062	2.120	8.6	19.9	18 W	9*	7*
7 20	6 23.06	+26 43.7	3.080	2.177	10.3	20.0	23 W	13*	10*
7 30	6 44.45	+26 19.2	3.088	2.235	12.0	20.1	27 W	18*	12*
8 9	7 4.65	+25 45.9	3.086	2.292	13.6	20.2	32 W	23*	15*
8 19	7 23.63	+25 5.7	3.072	2.350	15.2	20.3	37 W	28*	18*
8 29	7 41.31	+24 20.2	3.047	2.408	16.6	20.4	43 W	34*	20*
9 8	7 57.66	+23 31.3	3.010	2.465	17.9	20.5	49 W	39*	23*
9 18	8 12.61	+22 40.6	2.962	2.523	19.0	20.5	55 W	45*	26*
9 28	8 26.06	+21 49.9	2.903	2.580	20.0	20.6	62 W	51*	29*
10 8	8 37.92	+21 0.9	2.834	2.636	20.6	20.6	68 W	57*	32*
10 18	8 48.07	+20 15.2	2.756	2.692	21.0	20.6	76 W	61*	35*
10 28	8 56.32	+19 34.7	2.672	2.748	21.1	20.6	84 W	64*	38*
11 7	9 2.52	+19 0.8	2.584	2.802	20.7	20.5	92 W	64	41*
11 17	9 6.44	+18 35.1	2.494	2.857	19.8	20.5	101 W	64	44*
11 27	9 7.90	+18 18.9	2.408	2.910	18.5	20.4	111 W	63	46*
12 7	9 6.77	+18 12.7	2.329	2.963	16.5	20.3	121 W	63	46
12 17	9 2.99	+18 16.4	2.263	3.015	14.0	20.2	132 W	63	46
12 27	8 56.71	+18 28.6	2.216	3.067	10.9	20.0	144 W	63	46
1 6	8 48.38	+18 46.9	2.192	3.117	7.3	19.9	156 W	64	45
1 16	8 38.64	+19 8.1	2.197	3.167	3.5	19.7	169 W	64	45
264285 1998 QM									
12 23	20 53.99	−14 24.7	2.293	1.686	22.7	20.3	41 E	24*	27*
1 2	21 19.60	−11 43.3	2.368	1.704	20.8	20.4	38 E	24*	22*
1 12	21 44.51	− 8 55.5	2.441	1.725	18.9	20.4	35 E	24*	17*
1 22	22 8.78	− 6 3.2	2.514	1.748	17.0	20.4	31 E	23*	13*
2 1	22 32.48	− 3 8.2	2.584	1.774	15.0	20.4	28 E	21*	9*
2 11	22 55.65	− 0 12.3	2.653	1.801	13.1	20.5	24 E	18*	5*
2 21	23 18.40	+ 2 42.8	2.718	1.830	11.2	20.5	21 E	15*	2*
3 2	23 40.78	+ 5 35.9	2.780	1.860	9.3	20.5	18 E	12*	—
3 12	0 2.87	+ 8 25.4	2.837	1.891	7.5	20.5	14 E	8*	—
3 22	0 24.73	+11 10.1	2.889	1.924	6.0	20.5	12 E	5*	—

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
264285 1998 QM *(continuation)*									
4 1	0 46.42	+13 49.0	2.936	1.957	4.8	20.5	9 E	1*	—
4 11	1 7.98	+16 21.0	2.976	1.991	4.2	20.5	8 W	2*	—
4 21	1 29.46	+18 45.3	3.010	2.025	4.6	20.6	9 W	3*	—
5 1	1 50.88	+21 1.1	3.036	2.060	5.7	20.7	12 W	5*	—
5 11	2 12.23	+23 7.9	3.054	2.095	7.2	20.9	15 W	7*	4*
5 21	2 33.53	+25 5.1	3.063	2.130	8.8	21.0	19 W	10*	7*
5 31	2 54.73	+26 52.4	3.064	2.164	10.4	21.1	23 W	12*	11*
6 10	3 15.78	+28 29.6	3.055	2.199	12.1	21.2	27 W	16*	13*
6 20	3 36.64	+29 56.7	3.037	2.234	13.7	21.2	31 W	19*	16*
6 30	3 57.21	+31 13.9	3.009	2.268	15.3	21.3	36 W	24*	18*
7 10	4 17.37	+32 21.5	2.971	2.302	16.8	21.4	41 W	29*	20*
7 20	4 37.01	+33 20.1	2.923	2.336	18.3	21.4	46 W	35*	21*
7 30	4 55.97	+34 10.5	2.865	2.369	19.6	21.4	51 W	41*	22*
8 9	5 14.08	+34 53.7	2.798	2.401	20.7	21.5	57 W	47*	23*
8 19	5 31.16	+35 31.0	2.721	2.433	21.7	21.5	63 W	54*	24*
8 29	5 46.98	+36 3.8	2.637	2.464	22.5	21.4	69 W	60*	25*
9 8	6 1.30	+36 33.6	2.546	2.495	23.0	21.4	76 W	67*	25*
9 18	6 13.84	+37 2.0	2.449	2.525	23.2	21.4	83 W	74*	26*
9 28	6 24.26	+37 30.7	2.347	2.554	23.1	21.3	90 W	80*	26*
10 8	6 32.20	+38 0.9	2.245	2.582	22.5	21.2	98 W	83	26*
10 18	6 37.26	+38 33.4	2.144	2.610	21.5	21.1	107 W	84	25
10 28	6 38.99	+39 7.8	2.048	2.636	19.8	21.0	116 W	84	25
11 7	6 37.07	+39 42.2	1.961	2.662	17.6	20.8	126 W	85	24
11 17	6 31.30	+40 12.8	1.888	2.687	14.9	20.7	136 W	85	24
11 27	6 21.88	+40 33.8	1.835	2.712	11.6	20.5	146 W	86	23
12 2	6 16.01	+40 38.6	1.817	2.723	10.0	20.4	151 W	86	23
12 7	6 9.55	+40 38.7	1.805	2.735	8.4	20.3	156 W	86	23
12 12	6 2.68	+40 33.5	1.800	2.746	7.0	20.3	160 W	86	23
12 17	5 55.59	+40 22.7	1.802	2.757	6.1	20.3	163 W	85	24
12 22	5 48.53	+40 6.2	1.812	2.768	5.9	20.3	163 E	85	24
12 27	5 41.70	+39 44.6	1.829	2.779	6.5	20.3	161 E	85	24
1 1	5 35.29	+39 18.4	1.854	2.789	7.6	20.4	158 E	84	25
1 6	5 29.47	+38 48.4	1.885	2.799	9.0	20.5	153 E	84	25
1 11	5 24.37	+38 15.6	1.923	2.809	10.5	20.6	149 E	83	26
1 16	5 20.07	+37 40.9	1.968	2.819	12.0	20.7	143 E	83	26
483558 2003 YD_{108}									
12 23	20 54.57	−28 19.3	2.345	1.695	21.3	20.6	39 E	11*	31*
1 2	21 23.11	−27 41.6	2.367	1.667	20.0	20.6	35 E	10*	28*
1 12	21 52.29	−26 41.8	2.383	1.642	18.8	20.5	33 E	9*	25*
1 22	22 21.89	−25 20.4	2.397	1.622	17.7	20.5	30 E	8*	23*
2 1	22 51.71	−23 38.7	2.407	1.605	16.7	20.4	28 E	7*	21*
2 11	23 21.58	−21 38.6	2.416	1.593	15.9	20.4	26 E	5*	20*
2 21	23 51.36	−19 22.4	2.426	1.585	15.2	20.4	25 E	4*	19*
3 2	0 20.95	−16 53.2	2.438	1.582	14.6	20.4	24 E	2*	18*
3 12	0 50.27	−14 14.6	2.452	1.583	14.1	20.3	23 E	—	17*
3 22	1 19.26	−11 30.3	2.469	1.589	13.5	20.4	22 E	—	16*
4 1	1 47.91	− 8 44.3	2.491	1.600	13.0	20.4	21 E	—	15*
4 11	2 16.16	− 6 0.4	2.518	1.615	12.4	20.4	20 E	—	13*
4 21	2 44.01	− 3 22.3	2.548	1.634	11.8	20.4	19 E	—	11*
5 1	3 11.43	− 0 52.9	2.582	1.658	11.1	20.4	18 E	—	9*
5 11	3 38.38	+ 1 25.0	2.619	1.684	10.5	20.5	18 E	—	7*
5 21	4 4.84	+ 3 29.5	2.657	1.714	9.9	20.5	17 E	—	4*
5 31	4 30.76	+ 5 19.5	2.695	1.747	9.5	20.6	17 W	—	2*
6 10	4 56.08	+ 6 54.2	2.732	1.783	9.4	20.7	17 W	—	5*
6 20	5 20.76	+ 8 13.7	2.766	1.820	9.5	20.7	17 W	—	8*
6 30	5 44.77	+ 9 18.3	2.795	1.860	10.0	20.8	19 W	—	11*
7 10	6 8.03	+10 8.7	2.819	1.901	10.8	20.9	21 W	—	14*
7 20	6 30.51	+10 46.3	2.836	1.944	11.9	21.0	23 W	—	17*
7 30	6 52.17	+11 12.1	2.844	1.987	13.2	21.1	26 W	6*	20*
8 9	7 12.96	+11 28.0	2.843	2.032	14.5	21.2	30 W	11*	22*
8 19	7 32.84	+11 35.4	2.831	2.077	16.0	21.3	34 W	17*	24*
8 29	7 51.78	+11 36.3	2.809	2.123	17.4	21.4	39 W	23*	27*
9 8	8 9.71	+11 32.6	2.776	2.168	18.9	21.5	44 W	29*	29*
5143 Heracles									
12 23	20 54.81	−15 0.6	2.938	2.295	16.5	19.0	41 E	24*	27*
1 2	21 10.95	−13 43.1	3.100	2.367	13.9	19.1	35 E	22*	21*
1 12	21 26.50	−12 23.2	3.246	2.435	11.4	19.2	29 E	19*	15*
1 22	21 41.51	−11 1.4	3.377	2.501	8.8	19.2	23 E	15*	9*
2 1	21 56.02	− 9 38.0	3.490	2.562	6.3	19.2	17 E	10*	4*
2 11	22 10.03	− 8 13.4	3.585	2.621	3.9	19.2	10 E	4*	—
2 21	22 23.56	− 6 48.1	3.661	2.676	1.7	19.2	5 E	—	—
3 2	22 36.61	− 5 22.6	3.716	2.729	1.5	19.2	4 W	—	—
3 12	22 49.16	− 3 57.3	3.752	2.779	3.6	19.4	10 W	1*	3*
3 22	23 1.21	− 2 32.8	3.767	2.825	5.7	19.6	16 W	3*	10*
4 1	23 12.71	− 1 9.4	3.762	2.869	7.8	19.7	23 W	6*	17*
4 11	23 23.63	+ 0 12.1	3.738	2.911	9.8	19.8	30 W	8*	23*
4 21	23 33.92	+ 1 31.5	3.694	2.950	11.7	19.9	37 W	11*	30*
5 1	23 43.51	+ 2 48.1	3.633	2.986	13.5	20.0	44 W	14*	36*
5 11	23 52.32	+ 4 1.4	3.555	3.020	15.0	20.0	51 W	18*	43*

5143 Heracles *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 21	0 0.24	+ 5 10.7	3.462	3.051	16.4	20.0	58 W	22*	48*
5 31	0 7.15	+ 6 15.2	3.355	3.080	17.5	20.0	66 W	27*	53*
6 10	0 12.88	+ 7 14.2	3.237	3.106	18.3	20.0	74 W	32*	55*
6 20	0 17.27	+ 8 6.8	3.111	3.130	18.7	19.9	82 W	38*	56*
6 30	0 20.08	+ 8 51.5	2.979	3.152	18.8	19.8	90 W	45*	55
7 10	0 21.10	+ 9 27.1	2.845	3.172	18.4	19.7	99 W	50*	55
7 20	0 20.10	+ 9 51.9	2.713	3.189	17.6	19.6	109 W	54*	54
7 30	0 16.88	+10 3.7	2.588	3.204	16.1	19.5	119 W	55	54
8 9	0 11.33	+10 0.8	2.476	3.217	14.1	19.3	130 W	55	54
8 19	0 3.49	+ 9 41.4	2.380	3.228	11.4	19.1	141 W	55	54
8 29	23 53.63	+ 9 4.8	2.308	3.236	8.3	18.9	152 W	54	55
9 8	23 42.31	+ 8 12.3	2.264	3.243	5.1	18.8	163 W	53	56
9 18	23 30.30	+ 7 6.8	2.251	3.247	2.9	18.6	170 E	52	57
9 23	23 24.34	+ 6 30.7	2.258	3.248	3.4	18.7	169 E	52	57
9 28	23 18.56	+ 5 53.6	2.272	3.249	4.7	18.7	165 E	51	58
10 3	23 13.07	+ 5 16.2	2.294	3.249	6.3	18.8	159 E	50	59
10 8	23 7.97	+ 4 39.3	2.324	3.249	7.9	18.9	153 E	50	59
10 13	23 3.33	+ 4 3.6	2.362	3.248	9.5	19.1	147 E	49	60
10 18	22 59.22	+ 3 29.8	2.406	3.246	11.0	19.1	142 E	48	61
10 28	22 52.76	+ 2 30.0	2.511	3.242	13.6	19.3	130 E	48	61
11 7	22 48.73	+ 1 42.8	2.635	3.235	15.5	19.5	119 E	47	62
11 17	22 47.09	+ 1 9.7	2.771	3.226	16.9	19.7	109 E	46	63
11 27	22 47.67	+ 0 50.8	2.915	3.215	17.7	19.8	99 E	46	62*
12 7	22 50.22	+ 0 45.5	3.061	3.202	17.9	19.9	89 E	46	57*
12 17	22 54.49	+ 0 52.8	3.204	3.186	17.7	20.0	80 E	46	50*
12 27	23 0.24	+ 1 11.7	3.341	3.168	17.1	20.0	71 E	46*	42*
1 6	23 7.22	+ 1 40.8	3.468	3.148	16.2	20.1	63 E	45*	35*
1 16	23 15.26	+ 2 19.2	3.583	3.126	15.0	20.1	55 E	42*	28*

302169 2001 TD_{45}

12 23	20 54.85	+64 40.6	0.409	1.092	63.9	20.4	94 E	64*	—
12 25	20 56.52	+61 25.2	0.410	1.073	66.4	20.5	91 E	65*	—
12 27	20 58.06	+58 13.4	0.413	1.053	69.0	20.5	88 E	65*	—
12 29	20 59.46	+55 5.6	0.416	1.032	71.7	20.6	85 E	65*	—
12 31	21 0.71	+52 2.1	0.420	1.010	74.3	20.6	81 E	64*	—
1 2	21 1.83	+49 2.8	0.424	0.987	77.1	20.7	78 E	62*	—
1 7	21 3.97	+41 52.0	0.438	0.927	84.0	20.9	70 E	57*	—
1 12	21 5.15	+35 0.9	0.455	0.861	91.4	21.1	61 E	49*	—
1 17	21 5.30	+28 19.5	0.475	0.789	99.2	21.4	52 E	41*	—
1 22	21 4.40	+21 36.0	0.499	0.709	107.8	21.7	43 E	32*	—

243147 2007 TX_{18}

12 23	20 56.15	−12 41.1	1.906	1.354	29.4	20.5	42 E	26*	27*
12 28	21 13.16	−11 17.2	1.939	1.373	28.5	20.6	42 E	27*	25*
1 2	21 29.76	− 9 50.6	1.975	1.393	27.6	20.6	41 E	27*	23*
1 7	21 45.96	− 8 22.1	2.013	1.414	26.7	20.7	40 E	28*	22*
1 12	22 1.75	− 6 52.2	2.053	1.435	25.8	20.7	39 E	28*	20*
1 17	22 17.16	− 5 21.5	2.094	1.458	24.8	20.8	38 E	28*	19*
1 22	22 32.20	− 3 50.6	2.137	1.481	23.8	20.8	37 E	28*	17*
1 27	22 46.90	− 2 19.9	2.181	1.506	22.8	20.9	36 E	27*	16*
2 1	23 1.28	− 0 49.9	2.226	1.530	21.8	20.9	35 E	27*	14*
2 6	23 15.34	+ 0 39.2	2.272	1.555	20.7	21.0	34 E	26*	13*
2 11	23 29.12	+ 2 6.9	2.319	1.581	19.7	21.0	33 E	25*	12*
2 16	23 42.63	+ 3 33.0	2.367	1.607	18.6	21.1	31 E	24*	11*
2 21	23 55.89	+ 4 57.2	2.414	1.633	17.6	21.1	30 E	23*	10*
2 26	0 8.93	+ 6 19.5	2.462	1.659	16.5	21.1	28 E	22*	8*
3 2	0 21.76	+ 7 39.6	2.509	1.686	15.4	21.2	27 E	20*	7*
3 7	0 34.39	+ 8 57.2	2.557	1.712	14.3	21.2	25 E	19*	6*
3 12	0 46.84	+10 12.4	2.604	1.739	13.2	21.3	24 E	17*	5*
3 17	0 59.13	+11 25.0	2.650	1.766	12.1	21.3	22 E	16*	4*
3 22	1 11.27	+12 35.0	2.695	1.793	11.1	21.3	20 E	14*	3*
3 27	1 23.26	+13 42.2	2.739	1.820	10.0	21.3	18 E	12*	2*
4 1	1 35.13	+14 46.6	2.782	1.846	8.9	21.4	17 E	10*	1*
4 6	1 46.87	+15 48.2	2.823	1.873	7.8	21.4	15 E	9*	—
4 11	1 58.49	+16 46.9	2.863	1.900	6.8	21.4	13 E	7*	—
4 16	2 10.00	+17 42.7	2.902	1.926	5.7	21.4	11 E	5*	—
4 21	2 21.41	+18 35.5	2.938	1.952	4.7	21.4	9 E	3*	—
4 26	2 32.72	+19 25.5	2.972	1.978	3.7	21.4	7 E	1*	—
5 1	2 43.93	+20 12.5	3.004	2.004	2.9	21.4	6 E	—	—
5 6	2 55.04	+20 56.6	3.034	2.030	2.2	21.4	4 E	—	—
5 11	3 6.05	+21 37.7	3.062	2.055	2.0	21.4	4 W	—	—
5 16	3 16.96	+22 16.0	3.086	2.080	2.3	21.5	5 W	—	—

52387 Huitzilopochtli

12 23	20 56.35	− 2 57.1	1.949	1.462	29.3	21.4	47 E	35*	23*
1 2	21 20.65	− 0 30.5	1.987	1.444	28.0	21.3	44 E	34*	17*
1 12	21 45.47	+ 2 5.2	2.017	1.424	26.8	21.3	41 E	33*	13*
1 22	22 10.93	+ 4 49.1	2.040	1.402	25.6	21.3	38 E	32*	9*
2 1	22 37.18	+ 7 40.0	2.055	1.378	24.6	21.2	36 E	30*	5*
2 11	23 4.36	+10 35.9	2.064	1.353	23.6	21.1	33 E	27*	3*

52387 Huitzilopochtli *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 21	23 32.69	+13 34.3	2.068	1.326	22.8	21.1	31 E	25*	1*
3 2	0 2.40	+16 31.7	2.067	1.298	22.0	21.0	29 E	23*	—
3 12	0 33.68	+19 23.8	2.062	1.270	21.3	20.9	28 E	21*	—
3 22	1 6.76	+22 5.3	2.055	1.240	20.7	20.9	26 E	20*	—
4 1	1 41.81	+24 30.1	2.046	1.211	20.1	20.8	25 E	18*	—
4 11	2 18.86	+26 31.1	2.036	1.182	19.5	20.7	23 E	17*	—
4 21	2 57.82	+28 1.0	2.026	1.154	18.8	20.6	22 E	16*	—
5 1	3 38.39	+28 53.3	2.016	1.128	18.1	20.5	20 E	14*	1*
5 11	4 20.02	+29 2.1	2.007	1.104	17.4	20.4	19 E	13*	2*
5 16	4 41.03	+28 49.0	2.003	1.093	17.1	20.4	19 E	12*	3*
5 21	5 2.06	+28 24.1	1.999	1.083	16.8	20.4	18 E	11*	4*
5 26	5 23.02	+27 47.3	1.996	1.073	16.5	20.3	17 E	10*	5*
5 31	5 43.82	+26 58.7	1.992	1.065	16.2	20.3	17 E	8*	6*
6 5	6 4.39	+25 58.7	1.989	1.058	16.0	20.3	17 E	7*	7*
6 10	6 24.67	+24 47.9	1.986	1.051	15.8	20.3	16 E	6*	7*
6 15	6 44.63	+23 26.7	1.983	1.046	15.7	20.2	16 E	4*	8*
6 20	7 4.23	+21 56.0	1.981	1.043	15.6	20.2	16 E	3*	9*
6 25	7 23.47	+20 16.5	1.979	1.040	15.6	20.2	16 E	1*	9*
6 30	7 42.33	+18 29.0	1.977	1.039	15.7	20.2	16 E	—	10*
7 5	8 0.83	+16 34.4	1.976	1.039	15.8	20.2	16 E	—	10*
7 10	8 18.98	+14 33.6	1.975	1.040	16.0	20.2	16 E	—	10*
7 15	8 36.83	+12 27.4	1.975	1.043	16.3	20.2	17 E	—	11*
7 20	8 54.41	+10 16.8	1.975	1.047	16.5	20.3	17 E	—	11*
7 25	9 11.74	+ 8 2.5	1.976	1.052	16.8	20.3	17 E	—	11*
7 30	9 28.88	+ 5 45.5	1.978	1.058	17.1	20.3	18 E	—	11*
8 4	9 45.85	+ 3 26.5	1.981	1.066	17.4	20.3	18 E	—	11*
8 9	10 2.72	+ 1 6.5	1.984	1.074	17.6	20.4	19 E	—	11*
8 14	10 19.51	− 1 13.7	1.989	1.084	17.8	20.4	19 E	—	11*
8 19	10 36.27	− 3 33.5	1.995	1.094	18.0	20.4	19 E	—	11*
8 24	10 53.04	− 5 51.9	2.002	1.105	18.0	20.5	20 E	—	11*
8 29	11 9.85	− 8 8.3	2.010	1.117	18.1	20.5	20 E	—	10*
9 3	11 26.73	−10 21.8	2.020	1.129	18.0	20.5	20 E	—	10*
9 8	11 43.72	−12 31.7	2.031	1.142	17.9	20.6	20 E	—	10*
9 13	12 0.83	−14 37.4	2.043	1.156	17.8	20.6	21 E	—	10*
9 18	12 18.10	−16 38.1	2.057	1.170	17.5	20.6	20 E	—	10*
9 23	12 35.54	−18 33.2	2.072	1.184	17.2	20.7	20 E	—	10*
9 28	12 53.15	−20 22.0	2.087	1.198	16.8	20.7	20 E	—	10*
10 3	13 10.93	−22 4.1	2.104	1.213	16.3	20.7	20 E	—	9*
10 8	13 28.89	−23 38.9	2.122	1.227	15.8	20.7	20 E	—	9*
10 13	13 47.02	−25 5.9	2.141	1.242	15.3	20.8	19 E	—	9*
10 18	14 5.29	−26 24.9	2.160	1.257	14.6	20.8	19 E	—	9*
10 23	14 23.70	−27 35.4	2.180	1.271	14.0	20.8	18 E	—	8*
10 28	14 42.19	−28 37.3	2.200	1.286	13.2	20.8	17 E	—	8*
11 2	15 0.75	−29 30.2	2.221	1.300	12.5	20.8	16 E	—	7*
11 7	15 19.32	−30 14.2	2.241	1.314	11.7	20.9	16 E	—	7*
11 12	15 37.87	−30 49.3	2.262	1.328	10.9	20.9	15 E	—	6*
11 17	15 56.35	−31 15.4	2.282	1.341	10.0	20.9	14 E	—	5*
11 22	16 14.72	−31 32.8	2.301	1.355	9.2	20.9	13 E	—	4*
11 27	16 32.91	−31 41.5	2.320	1.367	8.3	20.9	12 E	—	3*
12 2	16 50.90	−31 41.9	2.337	1.380	7.5	20.9	11 E	—	2*
12 7	17 8.63	−31 34.2	2.354	1.392	6.7	20.9	9 E	—	1*
12 12	17 26.09	−31 18.7	2.370	1.403	5.9	20.9	8 E	—	—
12 17	17 43.23	−30 55.8	2.384	1.415	5.3	20.9	8 E	—	—
12 22	18 0.03	−30 25.8	2.397	1.425	4.8	20.9	7 W	—	—
12 27	18 16.47	−29 49.2	2.408	1.436	4.6	20.9	7 W	—	—
1 1	18 32.54	−29 6.2	2.417	1.445	4.6	20.9	7 W	—	—
1 6	18 48.24	−28 17.4	2.425	1.455	4.9	21.0	7 W	—	1*
1 11	19 3.56	−27 23.0	2.430	1.463	5.4	21.0	8 W	—	2*
1 16	19 18.50	−26 23.4	2.434	1.471	6.1	21.0	9 W	—	3*

237442 1999 TA_{10}

12 23	20 57.48	− 6 6.8	1.694	1.225	34.9	21.1	45 E	32*	24*
1 2	21 34.86	− 4 46.9	1.749	1.253	33.3	21.2	44 E	32*	22*
1 12	22 10.90	− 3 15.2	1.811	1.283	31.6	21.3	43 E	32*	21*
1 22	22 45.52	− 1 35.4	1.881	1.315	29.7	21.4	41 E	31*	19*
2 1	23 18.75	+ 0 9.1	1.955	1.349	27.7	21.4	39 E	30*	18*

436671 2011 SV_{71}

12 23	20 58.01	−26 33.2	1.927	1.329	28.2	21.3	40 E	13*	32*
12 28	21 17.87	−25 18.9	1.977	1.367	27.1	21.4	39 E	14*	31*
1 2	21 36.71	−23 58.5	2.030	1.406	26.0	21.5	39 E	15*	30*
1 7	21 54.56	−22 33.7	2.085	1.446	24.8	21.5	38 E	16*	29*
1 12	22 11.48	−21 5.9	2.143	1.486	23.7	21.6	37 E	16*	28*

101742 1999 FO_7

12 23	20 58.79	−25 23.3	3.126	2.456	14.9	20.1	40 E	14*	31*
1 2	21 14.94	−23 20.0	3.171	2.418	13.1	20.0	34 E	14*	25*
1 12	21 31.42	−21 11.3	3.203	2.380	11.2	19.9	28 E	12*	19*
1 22	21 48.16	−18 56.9	3.222	2.342	9.2	19.8	22 E	9*	14*
2 1	22 5.12	−16 36.7	3.228	2.303	7.1	19.7	17 E	6*	9*
2 11	22 22.25	−14 10.4	3.222	2.263	4.9	19.5	11 E	2*	4*

101742 1999 FO_7 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 21	22 39.54	−11 38.1	3.203	2.223	2.8	19.4	6 E	—	—
3 2	22 57.01	− 8 59.8	3.172	2.182	1.0	19.2	2 E	—	—
3 12	23 14.65	− 6 15.7	3.131	2.142	2.2	19.2	5 W	—	—
3 22	23 32.51	− 3 25.8	3.079	2.101	4.4	19.2	9 W	—	3*
4 1	23 50.66	− 0 30.3	3.017	2.060	6.6	19.3	14 W	—	8*
4 11	0 9.13	+ 2 30.5	2.947	2.020	8.9	19.3	18 W	2*	12*
4 21	0 28.04	+ 5 36.4	2.870	1.980	11.2	19.3	23 W	5*	16*
5 1	0 47.49	+ 8 47.0	2.787	1.940	13.5	19.2	27 W	7*	20*
5 11	1 7.59	+12 1.6	2.699	1.901	15.7	19.2	31 W	10*	23*
5 21	1 28.50	+15 19.7	2.608	1.862	17.9	19.2	34 W	14*	25*
5 31	1 50.40	+18 40.1	2.514	1.825	20.0	19.1	38 W	17*	27*
6 10	2 13.48	+22 1.2	2.420	1.789	22.0	19.0	41 W	22*	28*
6 20	2 37.98	+25 21.2	2.326	1.755	24.0	19.0	45 W	26*	28*
6 25	2 50.83	+27 0.0	2.280	1.739	25.0	18.9	46 W	29*	28*
6 30	3 4.13	+28 37.3	2.234	1.723	25.9	18.9	48 W	31*	27*
7 5	3 17.90	+30 12.8	2.189	1.708	26.8	18.9	49 W	34*	27*
7 10	3 32.17	+31 46.0	2.145	1.693	27.6	18.8	51 W	37*	26*
7 15	3 46.98	+33 16.2	2.102	1.679	28.5	18.8	52 W	39*	25*
7 20	4 2.34	+34 42.9	2.060	1.665	29.3	18.8	53 W	42*	24*
7 25	4 18.26	+36 5.4	2.019	1.653	30.1	18.7	55 W	44*	23*
7 30	4 34.75	+37 23.0	1.979	1.641	30.8	18.7	56 W	46*	22*
8 4	4 51.80	+38 34.9	1.940	1.629	31.5	18.6	57 W	48*	21*
8 9	5 9.39	+39 40.5	1.903	1.619	32.2	18.6	58 W	50*	20*
8 14	5 27.50	+40 39.0	1.867	1.609	32.8	18.6	59 W	52*	19*
8 19	5 46.05	+41 29.9	1.832	1.601	33.4	18.5	61 W	54*	18*
8 24	6 4.96	+42 12.5	1.799	1.593	34.0	18.5	62 W	55*	17*
8 29	6 24.16	+42 46.4	1.766	1.586	34.5	18.5	63 W	57*	16*
9 3	6 43.52	+43 11.2	1.735	1.580	35.0	18.4	64 W	58*	15*
9 8	7 2.95	+43 26.9	1.705	1.575	35.5	18.4	65 W	59*	14*
9 13	7 22.30	+43 33.6	1.676	1.571	35.9	18.4	66 W	60*	14*
9 18	7 41.45	+43 31.4	1.648	1.569	36.3	18.3	68 W	62*	13*
9 23	8 0.27	+43 20.8	1.620	1.567	36.7	18.3	69 W	63*	13*
9 28	8 18.65	+43 2.3	1.593	1.566	37.0	18.3	70 W	64*	13*
10 3	8 36.49	+42 36.7	1.567	1.566	37.2	18.3	71 W	65*	13*
10 8	8 53.72	+42 4.6	1.541	1.567	37.5	18.2	73 W	67*	13*
10 13	9 10.26	+41 27.1	1.515	1.570	37.7	18.2	74 W	68*	13*
10 18	9 26.06	+40 45.1	1.489	1.573	37.9	18.2	76 W	70*	14*
10 28	9 55.27	+39 11.0	1.437	1.582	38.0	18.1	79 W	73*	15*
11 7	10 21.17	+37 29.3	1.383	1.596	38.0	18.0	83 W	76*	17*
11 17	10 43.64	+35 46.5	1.328	1.613	37.7	18.0	87 W	79*	20*
11 27	11 2.53	+34 8.3	1.270	1.634	37.1	17.9	92 W	79	23*
12 7	11 17.67	+32 38.6	1.210	1.658	36.1	17.8	98 W	78	27*
12 17	11 28.72	+31 20.9	1.149	1.684	34.5	17.7	104 W	76	30*
12 27	11 35.23	+30 16.3	1.089	1.714	32.3	17.5	111 W	75	33*
1 1	11 36.62	+29 48.7	1.060	1.729	30.9	17.4	116 W	75	34*
1 6	11 36.69	+29 23.8	1.032	1.745	29.2	17.4	120 W	74	35
1 11	11 35.36	+29 0.9	1.006	1.762	27.3	17.3	125 W	74	35
1 16	11 32.60	+28 39.3	0.982	1.779	25.2	17.2	130 W	74	35

503960 2004 QF_1

12 23	20 58.83	+25 56.8	0.411	0.893	90.0	19.3	65 E	59*	8*
12 28	20 59.60	+25 43.5	0.393	0.869	94.8	19.4	62 E	56*	4*
1 2	20 59.12	+25 7.7	0.371	0.846	100.4	19.4	58 E	51*	—
1 7	20 57.01	+23 58.1	0.348	0.824	106.8	19.6	53 E	46*	—
1 12	20 52.91	+21 59.1	0.323	0.805	114.4	19.8	48 E	40*	—
1 14	20 50.66	+20 53.3	0.314	0.797	117.8	20.0	46 E	37*	—
1 16	20 48.07	+19 35.2	0.304	0.790	121.4	20.2	43 E	34*	—
1 18	20 45.14	+18 3.4	0.295	0.784	125.2	20.4	41 E	30*	—
1 20	20 41.90	+16 16.7	0.286	0.778	129.3	20.7	38 E	27*	—
1 22	20 38.36	+14 14.1	0.278	0.772	133.5	21.0	35 E	23*	—
1 27	20 28.59	+ 7 55.4	0.261	0.760	144.4	22.3	27 W	14*	—
2 1	20 18.38	+ 0 4.2	0.253	0.752	153.9	23.9	20 W	13*	—
2 6	20 9.20	− 8 37.2	0.255	0.747	156.3	24.5	18 W	10*	5*
2 11	20 2.54	−17 5.3	0.268	0.746	149.6	23.2	22 W	7*	15*

162510 2000 QW_{69}

12 23	20 59.14	−22 13.4	2.145	1.537	24.6	21.2	41 E	17*	31*
1 2	21 22.46	−18 22.4	2.249	1.573	21.9	21.3	37 E	19*	25*
1 12	21 44.19	−14 36.8	2.346	1.606	19.2	21.4	32 E	19*	19*
1 22	22 4.74	−10 56.2	2.435	1.636	16.5	21.4	28 E	18*	14*
2 1	22 24.40	− 7 19.9	2.515	1.664	13.9	21.4	24 E	16*	9*
2 11	22 43.42	− 3 47.1	2.584	1.689	11.4	21.4	20 E	13*	4*
2 21	23 1.97	− 0 17.1	2.640	1.711	9.1	21.4	16 E	10*	—
3 2	23 20.25	+ 3 10.9	2.685	1.731	7.1	21.4	13 E	6*	—
3 12	23 38.37	+ 6 37.4	2.717	1.748	5.8	21.3	10 E	3*	—
3 22	23 56.49	+10 2.8	2.736	1.762	5.5	21.4	10 W	2*	—
4 1	0 14.74	+13 27.7	2.743	1.774	6.3	21.4	11 W	5*	—
4 11	0 33.25	+16 52.0	2.738	1.782	7.8	21.5	14 W	8*	—

219275 2000 BL_{11}

12 23	20 59.56	−13 52.2	2.294	1.710	23.0	21.3	43 E	25*	28*
1 2	21 24.75	−11 49.0	2.338	1.693	21.5	21.2	39 E	25*	23*
1 12	21 50.07	− 9 33.6	2.378	1.679	19.9	21.2	36 E	24*	19*
1 22	22 15.49	− 7 7.4	2.416	1.668	18.3	21.2	32 E	23*	15*
2 1	22 40.96	− 4 32.4	2.452	1.660	16.7	21.1	29 E	21*	11*
2 11	23 6.47	− 1 50.9	2.486	1.654	15.0	21.1	26 E	18*	9*
2 21	23 32.04	+ 0 54.8	2.519	1.652	13.3	21.1	23 E	16*	6*
3 2	23 57.71	+ 3 42.2	2.551	1.652	11.7	21.0	20 E	13*	4*
3 12	0 23.49	+ 6 28.6	2.582	1.656	10.0	21.0	17 E	11*	2*
3 22	0 49.43	+ 9 11.4	2.613	1.662	8.3	21.0	14 E	8*	—
4 1	1 15.57	+11 48.1	2.642	1.672	6.6	20.9	11 E	5*	—
4 11	1 41.93	+14 16.2	2.669	1.684	4.9	20.9	8 E	2*	—
4 21	2 8.52	+16 33.5	2.696	1.699	3.3	20.8	6 E	—	—
5 1	2 35.32	+18 38.1	2.720	1.716	2.1	20.8	4 E	—	—
5 11	3 2.28	+20 28.2	2.743	1.735	2.0	20.8	4 W	—	—
5 21	3 29.35	+22 2.4	2.762	1.757	3.2	20.9	6 W	—	—
5 31	3 56.42	+23 19.8	2.778	1.781	4.8	21.1	8 W	—	1*
6 10	4 23.38	+24 19.6	2.790	1.806	6.5	21.2	12 W	2*	3*
6 20	4 50.10	+25 1.8	2.797	1.833	8.2	21.3	15 W	4*	6*
6 30	5 16.42	+25 26.7	2.798	1.861	9.9	21.4	18 W	7*	9*

148433 2000 XW

12 23	20 59.58	−34 2.6	3.042	2.373	15.4	21.4	40 E	6*	34*
1 2	21 19.95	−32 42.5	3.117	2.379	13.7	21.4	35 E	6*	29*
1 12	21 40.20	−31 15.8	3.180	2.384	12.0	21.4	30 E	4*	24*
1 22	22 0.27	−29 43.3	3.232	2.388	10.4	21.4	26 E	2*	20*
2 1	22 20.13	−28 6.0	3.273	2.391	9.0	21.4	22 E	—	16*
2 11	22 39.73	−26 24.8	3.302	2.393	7.8	21.3	19 E	—	13*
2 21	22 59.07	−24 40.8	3.319	2.394	7.1	21.3	17 E	—	10*
3 2	23 18.15	−22 55.1	3.325	2.394	6.9	21.3	17 E	—	7*
3 12	23 36.97	−21 8.7	3.319	2.393	7.3	21.3	18 E	—	4*
3 22	23 55.55	−19 22.7	3.302	2.391	8.3	21.4	20 W	—	5*
4 1	0 13.89	−17 38.0	3.274	2.388	9.5	21.4	23 W	—	10*
4 11	0 32.00	−15 55.8	3.235	2.384	10.9	21.4	27 W	—	15*
4 21	0 49.90	−14 17.0	3.186	2.379	12.5	21.4	31 W	—	20*
5 1	1 7.59	−12 42.5	3.128	2.374	14.1	21.5	35 W	—	25*
5 11	1 25.06	−11 13.4	3.060	2.367	15.7	21.5	39 W	—	31*
5 21	1 42.30	− 9 50.4	2.983	2.359	17.3	21.4	44 W	—	36*
5 31	1 59.28	− 8 34.5	2.899	2.350	18.8	21.4	48 W	—	42*
6 10	2 15.97	− 7 26.4	2.807	2.341	20.3	21.4	53 W	1*	47*
6 20	2 32.31	− 6 26.9	2.707	2.330	21.7	21.4	58 W	5*	52*
6 30	2 48.22	− 5 36.7	2.602	2.318	22.9	21.3	63 W	11*	56*
7 10	3 3.60	− 4 56.4	2.490	2.306	24.1	21.2	68 W	16*	60*
7 20	3 18.34	− 4 26.4	2.374	2.293	25.1	21.1	73 W	22*	63*
7 30	3 32.26	− 4 7.3	2.253	2.279	25.9	21.0	78 W	28*	66*
8 9	3 45.16	− 3 59.0	2.130	2.264	26.5	20.9	84 W	33*	67*
8 19	3 56.82	− 4 1.6	2.004	2.248	26.8	20.8	90 W	37*	68*
8 29	4 6.90	− 4 14.7	1.878	2.231	26.7	20.6	97 W	40*	68
9 8	4 15.06	− 4 37.0	1.753	2.214	26.3	20.4	103 W	40*	69
9 18	4 20.86	− 5 7.0	1.631	2.196	25.4	20.2	111 W	40	69
9 28	4 23.82	− 5 41.7	1.515	2.177	23.9	20.0	118 W	39	70
10 3	4 24.08	− 5 59.4	1.460	2.167	23.0	19.9	122 W	39	70
10 8	4 23.45	− 6 16.4	1.407	2.157	21.8	19.8	127 W	39	70
10 13	4 21.89	− 6 31.9	1.358	2.147	20.6	19.6	131 W	38	71
10 18	4 19.35	− 6 44.9	1.311	2.137	19.2	19.5	135 W	38	71
10 23	4 15.82	− 6 54.1	1.269	2.127	17.7	19.4	140 W	38	71
10 28	4 11.34	− 6 58.2	1.232	2.116	16.1	19.3	144 W	38	71
11 2	4 5.97	− 6 56.1	1.199	2.105	14.6	19.1	148 W	38	71
11 7	3 59.80	− 6 46.6	1.172	2.095	13.2	19.0	151 W	38	71
11 12	3 52.98	− 6 28.6	1.150	2.084	12.2	18.9	154 W	39	70
11 17	3 45.70	− 6 1.4	1.135	2.073	11.8	18.9	155 W	39	70
11 27	3 30.70	− 4 37.9	1.125	2.051	12.9	18.9	152 E	40	69
12 7	3 16.75	− 2 38.5	1.139	2.028	16.1	19.0	145 E	42	67
12 17	3 5.46	− 0 10.9	1.178	2.005	20.0	19.2	136 E	45	64
12 22	3 1.18	+ 1 10.5	1.204	1.993	21.9	19.3	131 E	46	63
12 27	2 57.91	+ 2 35.3	1.235	1.982	23.6	19.4	126 E	48	61
1 1	2 55.67	+ 4 2.4	1.270	1.970	25.2	19.5	121 E	49	60
1 6	2 54.46	+ 5 30.8	1.308	1.958	26.6	19.5	117 E	51	58
1 11	2 54.25	+ 6 59.9	1.348	1.946	27.9	19.6	112 E	52	57
1 16	2 55.02	+ 8 29.1	1.391	1.935	28.9	19.7	108 E	53	55*

222205 2000 DV_{117}

12 23	20 59.94	−18 35.2	2.561	1.938	19.7	21.1	42 E	21*	30*
1 2	21 21.48	−16 34.5	2.599	1.905	18.0	21.0	37 E	20*	24*
1 12	21 43.37	−14 22.7	2.629	1.874	16.3	20.9	32 E	19*	19*
1 22	22 5.55	−12 0.4	2.653	1.843	14.5	20.9	28 E	17*	15*
2 1	22 28.01	− 9 28.2	2.670	1.814	12.7	20.8	24 E	15*	11*
2 11	22 50.72	− 6 47.4	2.681	1.786	10.9	20.7	20 E	12*	7*
2 21	23 13.72	− 3 59.2	2.687	1.760	9.1	20.6	16 E	9*	4*
3 2	23 37.03	− 1 5.1	2.688	1.735	7.3	20.5	13 E	6*	1*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
222205 2000 DV_{117} *(continuation)*									
3 12	0 0.71	+ 1 53.1	2.686	1.713	5.5	20.4	9 E	3*	—
3 22	0 24.83	+ 4 53.4	2.680	1.694	3.8	20.2	6 E	—	—
4 1	0 49.47	+ 7 53.7	2.672	1.676	2.3	20.1	4 E	—	—
4 11	1 14.69	+10 51.3	2.662	1.662	1.6	20.0	3 W	—	—
4 21	1 40.58	+13 43.7	2.651	1.650	2.5	20.1	4 W	—	—
5 1	2 7.21	+16 28.2	2.639	1.642	4.0	20.1	6 W	—	—
5 11	2 34.59	+19 1.8	2.626	1.637	5.5	20.2	9 W	1*	1*
5 21	3 2.75	+21 21.8	2.614	1.634	7.1	20.3	12 W	2*	4*
5 31	3 31.64	+23 25.4	2.600	1.636	8.7	20.3	14 W	4*	6*
6 10	4 1.14	+25 10.3	2.587	1.640	10.2	20.4	17 W	6*	7*
6 20	4 31.13	+26 34.4	2.572	1.647	11.7	20.5	19 W	8*	9*
6 30	5 1.39	+27 36.4	2.557	1.658	13.2	20.5	22 W	11*	10*
7 10	5 31.65	+28 15.7	2.541	1.672	14.7	20.6	25 W	14*	11*
7 20	6 1.66	+28 32.3	2.522	1.688	16.2	20.6	28 W	18*	12*
7 30	6 31.12	+28 27.1	2.501	1.707	17.6	20.7	31 W	21*	13*
8 9	6 59.79	+28 1.7	2.477	1.728	19.0	20.7	34 W	25*	14*
8 19	7 27.46	+27 18.3	2.449	1.752	20.4	20.8	37 W	29*	16*
8 29	7 53.95	+26 19.4	2.417	1.778	21.7	20.8	41 W	33*	17*
9 8	8 19.14	+25 7.8	2.379	1.805	23.0	20.9	45 W	37*	18*
9 18	8 42.95	+23 46.2	2.336	1.834	24.3	20.9	49 W	41*	20*
9 28	9 5.30	+22 17.5	2.287	1.864	25.4	20.9	53 W	45*	22*
10 8	9 26.16	+20 44.6	2.231	1.896	26.5	20.9	58 W	49*	24*
10 18	9 45.50	+19 10.0	2.169	1.928	27.3	20.9	63 W	53*	27*
10 28	10 3.21	+17 36.5	2.100	1.961	28.1	20.9	68 W	56*	30*
11 7	10 19.24	+16 6.5	2.026	1.995	28.5	20.9	74 W	59*	34*
11 17	10 33.43	+14 42.4	1.946	2.029	28.7	20.8	80 W	59*	38*
11 27	10 45.61	+13 26.8	1.862	2.063	28.5	20.8	87 W	58	43*
12 7	10 55.54	+12 21.9	1.775	2.098	27.9	20.7	95 W	57	47*
12 17	11 2.92	+11 30.0	1.687	2.133	26.7	20.6	103 W	56	51*
12 27	11 7.42	+10 53.2	1.603	2.167	24.9	20.5	112 W	56	53*
1 6	11 8.72	+10 33.1	1.524	2.202	22.4	20.3	121 W	56	53
1 16	11 6.57	+10 30.1	1.455	2.236	19.1	20.1	132 W	55	54
503892 2001 UF_{18}									
12 23	21 0.33	−32 59.2	1.326	0.854	47.8	21.2	40 E	7*	34*
12 25	21 13.28	−31 53.7	1.340	0.877	47.2	21.2	41 E	9*	34*
12 27	21 25.59	−30 45.0	1.355	0.901	46.5	21.3	42 E	10*	35*
12 29	21 37.28	−29 33.8	1.372	0.924	45.8	21.4	42 E	11*	35*
12 31	21 48.38	−28 20.8	1.390	0.947	45.0	21.4	43 E	13*	35*
1 2	21 58.92	−27 6.6	1.409	0.969	44.2	21.5	43 E	14*	36*
1 7	22 23.08	−23 58.8	1.461	1.024	42.2	21.6	44 E	17*	36*
1 12	22 44.51	−20 52.3	1.519	1.077	40.2	21.8	45 E	19*	35*
1 17	23 3.69	−17 51.0	1.581	1.128	38.2	21.9	45 E	22*	34*
1 22	23 21.06	−14 56.7	1.647	1.177	36.2	22.0	45 E	24*	33*
204309 2004 RQ_3									
12 23	21 1.24	−19 48.0	2.645	2.017	18.9	20.7	42 E	20*	30*
1 2	21 22.74	−18 20.1	2.681	1.981	17.2	20.6	37 E	19*	25*
1 12	21 44.72	−16 40.3	2.709	1.946	15.5	20.6	32 E	17*	20*
1 22	22 7.11	−14 48.9	2.730	1.912	13.8	20.5	28 E	15*	16*
2 1	22 29.84	−12 46.9	2.743	1.880	12.0	20.4	23 E	13*	12*
2 11	22 52.87	−10 35.3	2.750	1.848	10.2	20.3	19 E	10*	9*
2 21	23 16.19	− 8 15.3	2.752	1.819	8.4	20.2	16 E	7*	6*
3 2	23 39.81	− 5 48.4	2.749	1.791	6.6	20.1	12 E	3*	4*
3 12	0 3.75	− 3 16.4	2.741	1.765	4.9	19.9	9 E	—	2*
3 22	0 28.04	− 0 41.1	2.730	1.741	3.3	19.8	6 E	—	—
4 1	0 52.73	+ 1 55.4	2.716	1.720	2.2	19.7	4 E	—	—
4 11	1 17.84	+ 4 30.8	2.701	1.702	2.2	19.7	4 W	—	—
4 21	1 43.45	+ 7 2.8	2.684	1.687	3.4	19.7	6 W	—	—
5 1	2 9.56	+ 9 28.9	2.666	1.674	4.9	19.8	8 W	—	2*
5 11	2 36.18	+11 46.7	2.648	1.665	6.4	19.8	11 W	—	5*
5 21	3 3.32	+13 53.7	2.629	1.660	8.0	19.9	13 W	—	7*
5 31	3 30.92	+15 47.7	2.611	1.658	9.6	19.9	16 W	—	10*
6 10	3 58.90	+17 26.6	2.592	1.659	11.1	20.0	18 W	1*	12*
6 20	4 27.16	+18 48.8	2.572	1.664	12.6	20.0	21 W	3*	14*
6 30	4 55.55	+19 53.0	2.552	1.672	14.1	20.1	24 W	7*	16*
7 10	5 23.89	+20 38.7	2.531	1.683	15.6	20.1	26 W	10*	17*
7 20	5 52.00	+21 5.9	2.508	1.698	17.1	20.2	29 W	14*	19*
7 30	6 19.68	+21 14.9	2.483	1.716	18.5	20.2	32 W	18*	20*
8 9	6 46.73	+21 7.0	2.455	1.736	19.9	20.2	36 W	23*	21*
8 19	7 13.00	+20 43.8	2.423	1.759	21.3	20.3	39 W	27*	22*
8 29	7 38.33	+20 7.2	2.387	1.784	22.6	20.3	43 W	31*	24*
9 8	8 2.59	+19 19.5	2.346	1.812	23.9	20.4	47 W	36*	25*
9 18	8 25.69	+18 23.1	2.300	1.841	25.1	20.4	51 W	40*	27*
9 28	8 47.53	+17 20.7	2.248	1.872	26.2	20.4	55 W	44*	28*
10 8	9 8.04	+16 15.0	2.190	1.904	27.1	20.4	60 W	48*	31*
10 18	9 27.13	+15 8.6	2.127	1.938	27.9	20.4	65 W	52*	33*
10 28	9 44.69	+14 4.5	2.057	1.973	28.4	20.4	71 W	55*	36*
11 7	10 0.60	+13 5.4	1.982	2.008	28.8	20.4	77 W	57*	39*
11 17	10 14.70	+12 14.3	1.902	2.044	28.7	20.3	84 W	57*	43*
11 27	10 26.75	+11 34.2	1.820	2.081	28.3	20.2	91 W	57	47*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
204309 2004 RQ_3 *(continuation)*									
12 7	10 36.53	+11 8.3	1.735	2.118	27.4	20.2	98 W	56	50*
12 17	10 43.72	+10 59.3	1.652	2.156	25.9	20.0	107 W	56	53*
12 27	10 48.00	+11 9.9	1.573	2.193	23.7	19.9	116 W	56	53
1 6	10 49.09	+11 41.5	1.503	2.230	20.8	19.8	126 W	57	52
1 16	10 46.84	+12 33.7	1.445	2.268	17.1	19.6	137 W	58	51
1863 Antinous									
12 23	21 1.97	−18 10.1	1.938	1.377	28.6	18.9	42 E	21*	30*
12 28	21 18.35	−16 15.8	2.002	1.421	27.2	19.0	41 E	23*	28*
1 2	21 33.77	−14 22.7	2.068	1.464	25.8	19.1	40 E	24*	26*
1 7	21 48.34	−12 31.5	2.136	1.508	24.3	19.2	39 E	24*	24*
1 12	22 2.16	−10 42.6	2.205	1.551	22.9	19.3	38 E	25*	22*
1 22	22 27.89	− 7 12.5	2.343	1.637	20.1	19.5	35 E	24*	18*
2 1	22 51.55	− 3 53.3	2.482	1.722	17.4	19.6	32 E	23*	14*
2 11	23 13.57	− 0 44.9	2.617	1.805	14.8	19.7	28 E	20*	10*
2 21	23 34.28	+ 2 13.1	2.747	1.886	12.2	19.8	24 E	17*	6*
3 2	23 53.95	+ 5 1.6	2.869	1.965	9.8	19.9	20 E	14*	2*
3 12	0 12.75	+ 7 41.0	2.982	2.041	7.5	20.0	15 E	9*	—
3 22	0 30.83	+10 12.1	3.084	2.116	5.4	20.1	11 E	5*	—
4 1	0 48.31	+12 35.4	3.173	2.189	3.7	20.1	8 E	1*	—
4 11	1 5.23	+14 51.2	3.250	2.259	3.2	20.2	7 W	1*	—
4 21	1 21.68	+17 0.2	3.312	2.328	4.2	20.4	10 W	3*	—
5 1	1 37.66	+19 2.6	3.359	2.394	5.8	20.5	14 W	6*	4*
5 11	1 53.19	+20 58.7	3.392	2.458	7.6	20.7	19 W	9*	9*
5 21	2 8.25	+22 49.1	3.409	2.520	9.5	20.8	24 W	12*	13*
5 31	2 22.82	+24 34.0	3.410	2.580	11.3	21.0	30 W	16*	18*
6 10	2 36.82	+26 13.9	3.396	2.638	13.0	21.1	36 W	20*	21*
6 20	2 50.20	+27 49.1	3.368	2.694	14.5	21.1	42 W	26*	24*
6 30	3 2.85	+29 20.2	3.324	2.749	15.9	21.2	48 W	32*	27*
7 10	3 14.63	+30 47.8	3.268	2.801	17.2	21.3	54 W	39*	28*
7 20	3 25.39	+32 12.3	3.199	2.851	18.2	21.3	61 W	47*	29*
7 30	3 34.91	+33 34.2	3.119	2.900	19.0	21.3	68 W	55*	29*
8 9	3 42.96	+34 54.1	3.030	2.947	19.5	21.3	76 W	63*	29*
8 19	3 49.25	+36 12.2	2.935	2.992	19.6	21.2	83 W	72*	28
8 29	3 53.44	+37 28.3	2.835	3.035	19.4	21.2	92 W	80*	27
9 8	3 55.17	+38 41.7	2.735	3.077	18.8	21.1	100 W	84	25
9 18	3 54.09	+39 50.8	2.639	3.117	17.7	21.0	109 W	85	24
9 28	3 49.90	+40 52.3	2.550	3.156	16.2	20.9	119 W	86	23
10 8	3 42.51	+41 42.3	2.475	3.192	14.2	20.8	128 W	87	22
10 18	3 32.09	+42 15.4	2.417	3.227	11.9	20.7	138 W	87	22
10 28	3 19.28	+42 26.4	2.382	3.261	9.5	20.6	147 W	87	22
11 7	3 5.16	+42 12.3	2.374	3.293	7.6	20.6	154 W	87	22
11 17	2 51.05	+41 33.5	2.396	3.323	7.0	20.6	156 E	87	22
11 27	2 38.29	+40 34.6	2.448	3.352	7.9	20.7	152 E	86	23
12 7	2 27.87	+39 23.2	2.528	3.380	9.7	20.8	145 E	84	25
12 17	2 20.33	+38 7.6	2.634	3.406	11.7	21.0	135 E	83	26
12 27	2 15.83	+36 55.2	2.762	3.430	13.5	21.2	126 E	82	27
1 6	2 14.21	+35 51.4	2.907	3.453	14.8	21.4	116 E	81	28*
25362 1999 TH_{24}									
12 23	21 2.47	− 6 16.9	3.373	2.789	14.8	20.4	46 E	32*	25*
1 2	21 16.77	− 5 55.8	3.449	2.768	13.2	20.4	40 E	29*	19*
1 12	21 31.57	− 5 25.2	3.511	2.746	11.4	20.3	34 E	25*	13*
1 22	21 46.75	− 4 45.9	3.560	2.723	9.5	20.3	27 E	20*	7*
2 1	22 2.25	− 3 58.8	3.594	2.699	7.6	20.2	21 E	15*	3*
2 11	22 18.00	− 3 4.9	3.612	2.674	5.6	20.1	15 E	9*	—
2 21	22 33.96	− 2 5.0	3.616	2.648	3.8	20.0	10 E	4*	—
3 2	22 50.09	− 1 0.2	3.604	2.621	2.4	19.8	6 W	—	—
3 12	23 6.35	+ 0 8.6	3.578	2.594	2.5	19.8	7 W	—	—
3 22	23 22.75	+ 1 20.3	3.537	2.565	4.2	19.9	11 W	2*	3*
4 1	23 39.28	+ 2 33.9	3.482	2.536	6.2	19.9	16 W	4*	9*
4 11	23 55.92	+ 3 48.2	3.414	2.505	8.3	19.9	21 W	5*	14*
4 21	0 12.70	+ 5 2.4	3.334	2.474	10.4	19.9	26 W	7*	20*
5 1	0 29.61	+ 6 15.1	3.242	2.442	12.5	19.9	32 W	9*	25*
5 11	0 46.66	+ 7 25.3	3.139	2.409	14.6	19.9	37 W	11*	30*
5 21	1 3.86	+ 8 31.7	3.027	2.376	16.6	19.9	42 W	13*	34*
5 31	1 21.21	+ 9 32.9	2.906	2.342	18.6	19.8	47 W	16*	39*
6 10	1 38.69	+10 27.6	2.777	2.307	20.5	19.7	53 W	20*	42*
6 20	1 56.31	+11 14.3	2.643	2.271	22.3	19.7	58 W	24*	45*
6 30	2 14.02	+11 51.2	2.503	2.235	23.9	19.6	63 W	29*	48*
7 10	2 31.78	+12 16.6	2.359	2.199	25.5	19.4	68 W	34*	49*
7 20	2 49.51	+12 28.6	2.213	2.162	26.8	19.3	74 W	40*	50*
7 30	3 7.09	+12 24.7	2.066	2.125	28.0	19.2	79 W	45*	51*
8 9	3 24.41	+12 2.9	1.920	2.088	28.9	19.0	85 W	49*	52*
8 19	3 41.28	+11 20.4	1.775	2.051	29.6	18.8	90 W	53*	53
8 29	3 57.43	+10 14.5	1.634	2.013	29.9	18.6	96 W	54*	54
9 8	4 12.61	+ 8 42.7	1.497	1.976	29.9	18.4	102 W	54*	55
9 18	4 26.45	+ 6 42.2	1.368	1.939	29.4	18.1	109 W	52	57
9 28	4 38.51	+ 4 11.4	1.248	1.903	28.5	17.8	115 W	49	60
10 8	4 48.34	+ 1 9.9	1.139	1.868	27.1	17.6	122 W	46	63
10 18	4 55.40	− 2 19.9	1.043	1.833	25.4	17.3	128 W	43	66

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
25362 1999 TH_{24} *(continuation)*									
10 23	4 57.74	− 4 13.3	1.001	1.816	24.4	17.1	131 W	41	68
10 28	4 59.22	− 6 10.7	0.963	1.799	23.5	17.0	134 W	39	70
11 2	4 59.82	− 8 10.2	0.929	1.783	22.6	16.9	136 W	37	72
11 7	4 59.52	−10 9.7	0.900	1.767	21.9	16.8	138 W	35	74
11 12	4 58.33	−12 6.4	0.875	1.752	21.4	16.7	140 W	33	76
11 17	4 56.31	−13 57.5	0.854	1.736	21.1	16.6	141 W	31	78
11 22	4 53.55	−15 39.9	0.838	1.722	21.2	16.5	141 W	29	80
11 27	4 50.22	−17 10.8	0.826	1.708	21.5	16.5	141 W	28	81
12 2	4 46.48	−18 27.8	0.819	1.694	22.2	16.5	139 W	27	82
12 7	4 42.54	−19 29.0	0.815	1.681	23.2	16.5	138 E	26	83
12 12	4 38.62	−20 12.9	0.815	1.668	24.3	16.5	136 E	25	84
12 17	4 34.96	−20 39.0	0.819	1.657	25.6	16.5	133 E	24	85
12 22	4 31.79	−20 47.2	0.825	1.645	27.0	16.6	131 E	24	85
12 27	4 29.31	−20 38.5	0.834	1.635	28.3	16.6	128 E	24	85
1 1	4 27.66	−20 14.1	0.846	1.625	29.6	16.7	125 E	25	84
1 6	4 26.94	−19 35.4	0.859	1.616	30.9	16.7	122 E	25	84
1 11	4 27.21	−18 44.1	0.875	1.608	32.1	16.8	120 E	26	83
1 16	4 28.53	−17 41.8	0.892	1.601	33.2	16.9	117 E	27	82
275310 2010 TR_{36}									
12 23	21 2.53	−17 7.4	2.163	1.584	24.8	21.4	43 E	22*	30*
1 2	21 31.96	−15 30.5	2.236	1.605	23.0	21.5	40 E	22*	26*
1 12	22 0.53	−13 39.4	2.309	1.628	21.1	21.5	37 E	22*	23*
1 22	22 28.21	−11 37.3	2.383	1.653	19.1	21.5	33 E	21*	20*
2 1	22 55.03	− 9 27.3	2.457	1.680	17.2	21.6	30 E	19*	17*
257851 2000 OA_{13}									
12 23	21 2.83	−18 44.3	2.233	1.642	23.7	21.3	42 E	21*	30*
1 2	21 30.64	−16 47.5	2.291	1.646	22.0	21.3	39 E	21*	26*
1 12	21 57.95	−14 37.0	2.350	1.653	20.3	21.4	36 E	21*	22*
1 22	22 24.73	−12 15.5	2.407	1.662	18.5	21.4	32 E	20*	19*
2 1	22 50.97	− 9 45.7	2.464	1.674	16.7	21.4	29 E	18*	16*
2 11	23 16.68	− 7 10.3	2.519	1.688	14.8	21.4	26 E	16*	13*
2 21	23 41.92	− 4 32.0	2.574	1.704	12.9	21.4	23 E	14*	11*
3 2	0 6.74	− 1 53.1	2.626	1.722	11.0	21.4	19 E	11*	8*
3 12	0 31.20	+ 0 43.9	2.675	1.742	9.1	21.4	16 E	8*	6*
3 22	0 55.37	+ 3 17.0	2.722	1.764	7.1	21.3	13 E	5*	4*
4 1	1 19.30	+ 5 44.4	2.766	1.787	5.2	21.3	9 E	1*	2*
4 11	1 43.04	+ 8 4.3	2.805	1.812	3.3	21.3	6 E	—	—
4 21	2 6.63	+10 15.4	2.840	1.837	1.7	21.2	3 E	—	—
5 1	2 30.10	+12 16.5	2.870	1.864	1.6	21.2	3 W	—	—
5 11	2 53.43	+14 6.6	2.893	1.892	3.1	21.4	6 W	—	—
182002 1999 XV_7									
12 23	21 2.88	−20 5.0	2.348	1.743	22.1	20.5	42 E	20*	31*
1 2	21 27.89	−17 49.1	2.389	1.723	20.6	20.5	38 E	20*	26*
1 12	21 52.91	−15 20.3	2.426	1.706	18.9	20.4	34 E	19*	22*
1 22	22 17.88	−12 40.2	2.460	1.690	17.3	20.4	31 E	18*	18*
2 1	22 42.79	− 9 50.3	2.492	1.677	15.6	20.4	27 E	17*	14*
2 11	23 7.64	− 6 53.0	2.521	1.667	13.9	20.3	24 E	15*	11*
2 21	23 32.46	− 3 50.3	2.548	1.660	12.1	20.3	21 E	13*	8*
3 2	23 57.31	− 0 44.6	2.574	1.656	10.4	20.2	17 E	10*	6*
3 12	0 22.22	+ 2 21.6	2.598	1.654	8.6	20.2	14 E	7*	3*
3 22	0 47.27	+ 5 25.8	2.620	1.655	6.9	20.1	11 E	5*	1*
4 1	1 12.53	+ 8 25.7	2.642	1.660	5.1	20.0	9 E	2*	—
4 11	1 38.04	+11 18.6	2.661	1.667	3.4	20.0	6 E	—	—
4 21	2 3.85	+14 2.4	2.680	1.677	1.8	19.9	3 E	—	—
5 1	2 29.99	+16 34.9	2.697	1.690	1.0	19.9	2 W	—	—
5 11	2 56.45	+18 54.0	2.712	1.705	2.3	20.0	4 W	—	—
5 21	3 23.21	+20 58.2	2.724	1.723	4.0	20.1	7 W	—	—
5 31	3 50.20	+22 46.0	2.733	1.743	5.7	20.2	10 W	1*	2*
6 10	4 17.32	+24 16.3	2.740	1.765	7.4	20.4	13 W	3*	5*
6 20	4 44.47	+25 28.6	2.742	1.788	9.1	20.5	16 W	6*	7*
6 30	5 11.48	+26 22.9	2.740	1.814	10.8	20.6	20 W	9*	9*
7 10	5 38.20	+26 59.3	2.732	1.841	12.5	20.7	23 W	12*	11*
7 20	6 4.46	+27 18.6	2.720	1.869	14.2	20.7	27 W	16*	13*
7 30	6 30.10	+27 22.0	2.701	1.898	15.8	20.8	31 W	21*	14*
8 9	6 54.95	+27 11.1	2.675	1.928	17.4	20.9	35 W	25*	16*
8 19	7 18.91	+26 47.6	2.642	1.959	18.9	20.9	39 W	30*	17*
8 29	7 41.83	+26 13.5	2.601	1.990	20.4	21.0	43 W	35*	19*
9 8	8 3.63	+25 31.0	2.553	2.022	21.7	21.0	48 W	40*	21*
9 18	8 24.22	+24 42.4	2.497	2.054	23.0	21.0	53 W	45*	22*
9 28	8 43.51	+23 50.0	2.432	2.087	24.1	21.1	58 W	50*	25*
10 8	9 1.41	+22 56.3	2.361	2.119	25.0	21.1	64 W	54*	27*
10 18	9 17.82	+22 3.7	2.281	2.152	25.8	21.0	70 W	59*	29*
10 28	9 32.58	+21 14.8	2.196	2.184	26.2	21.0	76 W	63*	32*
11 7	9 45.55	+20 32.2	2.105	2.216	26.4	20.9	83 W	65*	35*
11 17	9 56.51	+19 58.5	2.011	2.248	26.1	20.9	90 W	65	39*
11 27	10 5.18	+19 36.4	1.915	2.279	25.4	20.8	98 W	65	42*
12 7	10 11.27	+19 27.9	1.820	2.310	24.1	20.6	107 W	64	44*
12 17	10 14.43	+19 35.1	1.730	2.340	22.1	20.5	116 W	65	44
12 27	10 14.35	+19 58.2	1.648	2.370	19.5	20.3	127 W	65	44

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
182002 1999 XV_7 *(continuation)*									
1 6	10 10.87	+20 36.0	1.580	2.399	16.1	20.2	138 W	66	43
1 16	10 4.05	+21 24.5	1.531	2.428	12.0	20.0	149 W	66	43
12538 1998 OH									
12 23	21 3.24	+ 1 11.6	2.533	2.051	21.7	20.4	50 E	39*	22*
1 2	21 22.94	+ 1 45.8	2.643	2.074	19.7	20.5	45 E	37*	17*
1 12	21 42.45	+ 2 30.7	2.745	2.095	17.7	20.5	40 E	33*	12*
1 22	22 1.76	+ 3 24.9	2.837	2.113	15.6	20.5	35 E	29*	7*
2 1	22 20.90	+ 4 27.1	2.918	2.128	13.6	20.5	30 E	24*	3*
2 11	22 39.85	+ 5 35.9	2.988	2.141	11.5	20.5	26 E	19*	—
2 21	22 58.65	+ 6 50.0	3.046	2.152	9.4	20.5	21 E	14*	—
3 2	23 17.31	+ 8 8.2	3.091	2.159	7.5	20.5	17 E	9*	—
3 12	23 35.85	+ 9 29.2	3.122	2.165	5.9	20.4	13 E	4*	—
3 22	23 54.32	+10 51.9	3.139	2.167	4.9	20.4	11 W	3*	—
4 1	0 12.74	+12 15.3	3.142	2.167	4.9	20.4	11 W	5*	—
4 11	0 31.15	+13 38.1	3.131	2.165	5.9	20.4	13 W	6*	2*
4 21	0 49.58	+14 59.3	3.105	2.160	7.5	20.5	16 W	7*	7*
5 1	1 8.06	+16 18.0	3.066	2.152	9.5	20.5	21 W	9*	12*
5 11	1 26.62	+17 33.0	3.013	2.142	11.5	20.6	25 W	11*	16*
5 21	1 45.30	+18 43.3	2.947	2.130	13.7	20.6	30 W	13*	20*
5 31	2 4.09	+19 47.9	2.869	2.114	15.8	20.6	35 W	16*	24*
6 10	2 23.02	+20 45.5	2.778	2.097	17.9	20.6	39 W	19*	27*
6 20	2 42.11	+21 35.1	2.677	2.076	20.0	20.5	44 W	23*	30*
6 30	3 1.32	+22 15.4	2.565	2.053	22.1	20.5	49 W	28*	33*
7 10	3 20.64	+22 45.0	2.444	2.027	24.1	20.4	54 W	33*	35*
7 20	3 40.05	+23 2.4	2.314	1.999	26.0	20.3	59 W	39*	37*
7 30	3 59.48	+23 5.9	2.177	1.968	27.8	20.2	65 W	44*	38*
8 9	4 18.86	+22 53.7	2.035	1.934	29.5	20.1	70 W	50*	39*
8 19	4 38.12	+22 23.4	1.888	1.898	31.0	19.9	75 W	55*	40*
8 24	4 47.66	+22 0.7	1.813	1.879	31.7	19.8	78 W	57*	41*
8 29	4 57.12	+21 32.4	1.738	1.859	32.4	19.7	80 W	59*	42*
9 3	5 6.48	+20 58.0	1.662	1.839	33.0	19.6	83 W	60*	42*
9 8	5 15.73	+20 17.2	1.586	1.818	33.6	19.5	86 W	62*	43*
9 13	5 24.85	+19 29.2	1.511	1.796	34.1	19.4	89 W	62*	44*
9 18	5 33.80	+18 33.6	1.436	1.774	34.5	19.3	91 W	63*	45*
9 23	5 42.56	+17 29.6	1.361	1.751	34.9	19.1	94 W	62*	46*
9 28	5 51.11	+16 16.3	1.287	1.727	35.2	19.0	97 W	61	48*
10 3	5 59.41	+14 52.9	1.215	1.703	35.4	18.8	100 W	60	49
10 8	6 7.45	+13 18.3	1.144	1.678	35.5	18.7	103 W	58	51
10 13	6 15.17	+11 31.4	1.074	1.652	35.6	18.5	106 W	57	52
10 18	6 22.53	+ 9 30.7	1.007	1.626	35.5	18.3	108 W	55	54
10 23	6 29.50	+ 7 15.0	0.942	1.599	35.4	18.1	111 W	52	57
10 28	6 36.02	+ 4 42.8	0.880	1.572	35.3	18.0	114 W	50	59
11 2	6 42.06	+ 1 52.6	0.822	1.544	35.1	17.8	116 W	47	62
11 7	6 47.56	− 1 17.2	0.766	1.516	35.0	17.6	119 W	44	65
11 12	6 52.44	− 4 47.7	0.715	1.487	35.0	17.4	121 W	40	69
11 17	6 56.64	− 8 39.5	0.668	1.458	35.1	17.2	122 W	36	73
11 22	7 0.09	−12 52.5	0.626	1.428	35.5	17.0	123 W	32	77
11 27	7 2.73	−17 25.3	0.589	1.398	36.2	16.9	123 W	28	81
12 2	7 4.48	−22 15.4	0.556	1.368	37.5	16.7	122 W	23	86
12 7	7 5.26	−27 18.9	0.529	1.337	39.2	16.6	121 W	18	89
12 12	7 4.97	−32 30.5	0.507	1.306	41.4	16.5	119 W	12	83
12 17	7 3.51	−37 43.4	0.490	1.276	44.0	16.5	116 W	7	78
12 22	7 0.84	−42 51.4	0.476	1.245	47.0	16.4	112 W	2	73
12 27	6 56.88	−47 48.9	0.466	1.214	50.2	16.4	108 W	—	68
1 1	6 51.56	−52 31.8	0.459	1.184	53.5	16.4	104 W	—	63
1 6	6 44.72	−56 57.9	0.453	1.154	56.9	16.5	100 E	—	59
1 11	6 36.16	−61 6.3	0.449	1.125	60.3	16.5	96 E	—	55
1 16	6 25.55	−64 57.6	0.444	1.097	63.6	16.5	92 E	—	51
331471 1984 QY_1									
12 23	21 4.26	−18 54.7	2.531	1.923	20.2	20.0	42 E	21*	31*
1 2	21 18.67	−18 6.2	2.501	1.798	18.7	19.8	36 E	19*	24*
1 12	21 34.83	−17 6.2	2.449	1.666	17.0	19.6	30 E	16*	18*
1 22	21 52.83	−15 53.3	2.373	1.527	15.2	19.2	24 E	12*	13*
2 1	22 12.89	−14 25.1	2.273	1.379	13.4	18.9	19 E	9*	9*
2 11	22 35.38	−12 38.2	2.150	1.221	11.8	18.4	15 E	5*	6*
2 16	22 47.72	−11 36.2	2.079	1.138	11.2	18.2	13 E	4*	5*
2 21	23 0.95	−10 27.3	2.002	1.051	10.8	17.9	11 E	2*	4*
2 26	23 15.19	− 9 10.4	1.919	0.962	10.7	17.6	10 E	1*	3*
3 2	23 30.65	− 7 43.9	1.829	0.868	11.0	17.3	10 E	—	3*
3 7	23 47.55	− 6 5.6	1.733	0.770	11.9	16.9	9 E	—	3*
3 12	0 6.20	− 4 12.7	1.628	0.667	13.9	16.6	9 E	—	3*
3 17	0 26.99	− 2 1.1	1.514	0.561	17.8	16.2	10 E	1*	3*
3 22	0 50.28	+ 0 35.4	1.387	0.452	25.2	15.7	11 E	2*	4*
3 27	1 15.96	+ 3 45.5	1.238	0.349	40.3	15.4	13 E	4*	5*
4 1	1 41.09	+ 7 37.8	1.058	0.275	70.2	15.4	15 E	7*	6*
4 3	1 48.87	+ 9 20.9	0.978	0.264	87.0	15.7	15 E	7*	5*
4 5	1 54.01	+11 6.5	0.898	0.268	104.8	16.4	15 E	8*	4*
4 7	1 56.03	+12 51.6	0.822	0.286	121.3	17.4	14 E	7*	3*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		331471 1984 QY_1 *(continuation)*							
	h m	° ′			°	m	°	°	°
4 9	1 55.01	+14 35.0	0.752	0.315	135.3	18.8	13 E	6*	1*
4 11	1 51.38	+16 16.4	0.691	0.351	146.1	20.3	11 E	5*	—
		337555 2001 SM_{261}							
12 23	21 4.36	−13 16.2	2.238	1.679	24.1	21.4	44 E	26*	29*
1 2	21 31.74	−11 30.1	2.316	1.699	22.2	21.4	41 E	26*	24*
1 12	21 58.43	− 9 33.3	2.395	1.723	20.3	21.5	38 E	25*	21*
1 22	22 24.42	− 7 28.4	2.474	1.748	18.4	21.5	34 E	24*	17*
2 1	22 49.73	− 5 17.9	2.553	1.776	16.4	21.6	31 E	21*	14*
		219315 2000 ET_{118}							
12 23	21 4.43	−26 44.4	3.195	2.537	14.8	20.7	41 E	14*	33*
1 2	21 20.19	−24 42.6	3.250	2.508	13.0	20.6	35 E	13*	27*
1 12	21 36.22	−22 36.7	3.292	2.479	11.1	20.5	29 E	11*	21*
1 22	21 52.44	−20 26.3	3.322	2.448	9.1	20.5	23 E	9*	15*
2 1	22 8.80	−18 11.5	3.338	2.417	7.1	20.4	18 E	5*	10*
2 11	22 25.25	−15 52.3	3.341	2.385	5.0	20.2	12 E	1*	5*
2 21	22 41.78	−13 28.6	3.331	2.353	3.0	20.1	7 E	—	1*
3 2	22 58.38	−11 0.7	3.307	2.320	1.8	19.9	4 E	—	—
3 12	23 15.04	− 8 28.6	3.272	2.286	2.7	20.0	6 W	—	—
3 22	23 31.79	− 5 52.4	3.224	2.253	4.7	20.0	11 W	—	4*
4 1	23 48.65	− 3 12.4	3.166	2.218	6.9	20.0	15 W	—	9*
4 11	0 5.65	− 0 28.8	3.097	2.184	9.1	20.1	20 W	—	14*
4 21	0 22.84	+ 2 18.4	3.018	2.149	11.4	20.1	25 W	3*	19*
5 1	0 40.28	+ 5 9.1	2.932	2.114	13.6	20.0	30 W	6*	23*
5 11	0 58.03	+ 8 2.9	2.838	2.079	15.8	20.0	34 W	9*	27*
5 21	1 16.17	+10 59.9	2.737	2.045	17.9	20.0	38 W	13*	31*
5 31	1 34.78	+13 59.9	2.632	2.010	20.0	19.9	43 W	17*	33*
6 10	1 53.97	+17 2.5	2.523	1.976	22.1	19.9	47 W	22*	35*
6 20	2 13.86	+20 7.5	2.411	1.942	24.0	19.8	51 W	27*	36*
6 30	2 34.56	+23 14.5	2.298	1.909	25.9	19.7	55 W	33*	35*
7 10	2 56.25	+26 22.6	2.185	1.877	27.7	19.6	59 W	40*	34*
7 20	3 19.08	+29 31.1	2.072	1.846	29.3	19.5	63 W	46*	32*
7 30	3 43.22	+32 38.5	1.962	1.816	30.9	19.4	67 W	53*	30*
8 4	3 55.84	+34 11.2	1.907	1.802	31.6	19.3	68 W	56*	29*
8 9	4 8.86	+35 43.0	1.854	1.788	32.3	19.3	70 W	59*	27*
8 14	4 22.30	+37 13.6	1.802	1.774	32.9	19.2	72 W	62*	26*
8 19	4 36.19	+38 42.6	1.751	1.761	33.5	19.1	74 W	65*	24*
8 24	4 50.52	+40 9.6	1.700	1.749	34.1	19.1	76 W	68*	23*
8 29	5 5.31	+41 34.3	1.652	1.736	34.6	19.0	77 W	70*	22*
9 3	5 20.57	+42 56.2	1.604	1.725	35.0	19.0	79 W	72*	20*
9 8	5 36.30	+44 14.9	1.558	1.714	35.5	18.9	81 W	75*	19*
9 13	5 52.48	+45 30.0	1.514	1.703	35.8	18.8	82 W	76*	18*
9 18	6 9.08	+46 41.2	1.470	1.693	36.2	18.8	84 W	78*	16*
9 23	6 26.04	+47 47.9	1.429	1.684	36.5	18.7	86 W	79*	15*
9 28	6 43.32	+48 49.9	1.388	1.676	36.7	18.6	87 W	81*	14*
10 3	7 0.83	+49 46.9	1.350	1.668	36.9	18.6	89 W	81*	13*
10 8	7 18.49	+50 38.8	1.312	1.661	37.0	18.5	91 W	82*	12*
10 13	7 36.19	+51 25.7	1.276	1.654	37.1	18.4	93 W	82*	11*
10 18	7 53.78	+52 7.7	1.242	1.648	37.1	18.4	94 W	82*	10*
10 23	8 11.13	+52 45.0	1.208	1.643	37.0	18.3	96 W	82*	10*
10 28	8 28.08	+53 17.9	1.176	1.639	36.9	18.2	98 W	82	9*
11 2	8 44.50	+53 47.1	1.145	1.636	36.7	18.2	100 W	81	9*
11 7	9 0.23	+54 13.3	1.115	1.633	36.5	18.1	102 W	81	8*
11 12	9 15.11	+54 37.1	1.086	1.632	36.2	18.0	104 W	80	8*
11 17	9 28.97	+54 59.4	1.058	1.631	35.7	17.9	106 W	80	8*
11 22	9 41.65	+55 20.9	1.031	1.630	35.2	17.9	108 W	80	8*
11 27	9 53.00	+55 42.2	1.005	1.631	34.7	17.8	110 W	79	7*
12 2	10 2.86	+56 3.9	0.981	1.633	34.0	17.7	112 W	79	7*
12 7	10 11.07	+56 26.4	0.957	1.635	33.2	17.7	115 W	79	7*
12 12	10 17.45	+56 49.9	0.934	1.638	32.3	17.6	117 W	78	7*
12 17	10 21.80	+57 14.0	0.913	1.642	31.3	17.5	120 W	78	7*
12 22	10 23.95	+57 37.8	0.893	1.647	30.2	17.4	123 W	77	6
12 27	10 23.76	+58 0.0	0.875	1.652	29.0	17.4	125 W	77	6
1 1	10 21.14	+58 18.6	0.860	1.658	27.8	17.3	128 W	77	6
1 6	10 16.07	+58 31.1	0.846	1.665	26.5	17.2	131 W	76	5
1 11	10 8.64	+58 34.5	0.836	1.673	25.2	17.2	134 W	76	5
1 16	9 59.14	+58 25.3	0.829	1.681	24.0	17.1	136 W	77	6
		151364 2002 DN_3							
12 23	21 4.44	−26 30.3	2.412	1.792	21.2	21.2	41 E	14*	33*
1 2	21 29.14	−23 53.9	2.493	1.809	19.2	21.2	37 E	14*	28*
1 12	21 52.86	−21 10.9	2.569	1.825	17.1	21.3	33 E	14*	24*
1 22	22 15.70	−18 23.0	2.641	1.841	15.0	21.3	29 E	13*	19*
2 1	22 37.77	−15 31.7	2.706	1.857	12.8	21.3	25 E	12*	15*
2 11	22 59.17	−12 38.6	2.765	1.873	10.6	21.2	20 E	9*	12*
2 21	23 20.02	− 9 44.7	2.817	1.887	8.4	21.2	16 E	6*	8*
3 2	23 40.41	− 6 51.1	2.860	1.902	6.2	21.2	12 E	3*	5*
3 12	0 0.42	− 3 58.9	2.895	1.916	4.1	21.1	8 E	—	1*
3 22	0 20.16	− 1 8.8	2.921	1.929	2.1	21.0	4 E	—	—
4 1	0 39.70	+ 1 38.3	2.938	1.941	1.5	21.0	3 W	—	—

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		151364 2002 DN_3 *(continuation)*							
	h m	° ′			°	m	°	°	°
4 11	0 59.10	+ 4 21.9	2.946	1.953	3.2	21.1	6 W	—	—
4 21	1 18.44	+ 7 1.2	2.944	1.963	5.3	21.2	10 W	—	4*
5 1	1 37.78	+ 9 35.9	2.932	1.973	7.4	21.3	15 W	—	9*
5 11	1 57.15	+12 5.2	2.910	1.983	9.6	21.4	19 W	2*	13*
		170172 2003 HV_7							
12 23	21 4.70	−17 29.4	2.218	1.641	24.1	20.4	43 E	22*	30*
1 2	21 32.22	−15 19.1	2.286	1.653	22.3	20.5	40 E	23*	26*
1 12	21 59.07	−12 57.5	2.353	1.667	20.5	20.5	36 E	22*	22*
1 22	22 25.25	−10 27.2	2.420	1.684	18.6	20.5	33 E	21*	18*
2 1	22 50.80	− 7 50.9	2.486	1.703	16.7	20.5	30 E	20*	15*
2 11	23 15.74	− 5 11.2	2.551	1.723	14.7	20.5	26 E	17*	12*
2 21	23 40.16	− 2 30.3	2.614	1.746	12.7	20.5	23 E	15*	9*
3 2	0 4.12	+ 0 9.6	2.674	1.770	10.7	20.6	19 E	12*	7*
3 12	0 27.70	+ 2 46.6	2.731	1.795	8.7	20.5	16 E	9*	4*
3 22	0 50.97	+ 5 18.8	2.784	1.822	6.7	20.5	12 E	5*	2*
4 1	1 13.98	+ 7 44.9	2.832	1.850	4.6	20.5	9 E	2*	—
4 11	1 36.79	+10 3.4	2.875	1.878	2.6	20.4	5 E	—	—
4 21	1 59.44	+12 13.3	2.912	1.907	0.5	20.3	1 E	—	—
5 1	2 21.95	+14 13.6	2.942	1.937	1.5	20.5	3 W	—	—
5 11	2 44.33	+16 3.5	2.966	1.967	3.5	20.7	7 W	—	1*
5 21	3 6.57	+17 42.4	2.981	1.997	5.5	20.8	11 W	—	5*
5 31	3 28.65	+19 9.9	2.989	2.028	7.5	21.0	15 W	1*	8*
6 10	3 50.51	+20 25.6	2.988	2.058	9.4	21.1	19 W	4*	12*
6 20	4 12.13	+21 29.6	2.977	2.088	11.3	21.2	24 W	8*	15*
6 30	4 33.41	+22 22.0	2.957	2.118	13.2	21.3	28 W	12*	18*
7 10	4 54.26	+23 3.1	2.928	2.148	14.9	21.3	33 W	17*	21*
7 20	5 14.61	+23 33.3	2.889	2.178	16.6	21.4	38 W	22*	24*
7 30	5 34.33	+23 53.5	2.839	2.207	18.2	21.4	43 W	28*	26*
8 9	5 53.30	+24 4.4	2.780	2.235	19.7	21.5	48 W	34*	28*
8 19	6 11.41	+24 7.3	2.712	2.263	21.1	21.5	54 W	40*	30*
8 29	6 28.50	+24 3.2	2.634	2.290	22.3	21.5	59 W	46*	31*
9 8	6 44.42	+23 53.9	2.548	2.317	23.3	21.5	65 W	52*	33*
9 18	6 58.99	+23 40.8	2.454	2.343	24.0	21.4	72 W	58*	35*
9 28	7 12.00	+23 25.8	2.354	2.368	24.5	21.4	79 W	63*	37*
10 8	7 23.22	+23 10.8	2.248	2.393	24.6	21.3	86 W	67*	38*
10 18	7 32.38	+22 58.0	2.140	2.417	24.3	21.2	94 W	68	40*
10 28	7 39.13	+22 49.5	2.031	2.440	23.5	21.1	102 W	68	41*
11 7	7 43.17	+22 47.1	1.925	2.462	22.1	20.9	111 W	68	41
11 17	7 44.13	+22 52.3	1.825	2.483	20.0	20.8	121 W	68	41
11 27	7 41.76	+23 5.5	1.737	2.503	17.1	20.6	132 W	68	41
12 7	7 36.01	+23 26.0	1.665	2.523	13.6	20.4	143 W	68	41
12 17	7 27.12	+23 51.0	1.614	2.541	9.3	20.2	155 W	69	40
12 22	7 21.71	+24 4.0	1.598	2.550	7.0	20.1	162 W	69	40
12 27	7 15.85	+24 16.7	1.589	2.559	4.6	19.9	168 W	69	40
1 1	7 9.70	+24 28.4	1.587	2.568	2.2	19.8	174 W	69	40
1 6	7 3.43	+24 38.8	1.593	2.576	0.9	19.7	178 E	70	39
1 11	6 57.23	+24 47.5	1.606	2.584	3.0	19.9	172 E	70	39
1 16	6 51.29	+24 54.4	1.627	2.592	5.4	20.1	166 E	70	39
		303250 2004 RU_{10}							
12 23	21 4.82	−24 36.7	1.882	1.317	29.6	21.4	41 E	16*	33*
12 28	21 20.04	−23 44.2	1.940	1.345	28.1	21.4	40 E	16*	31*
1 2	21 34.56	−22 48.8	1.996	1.371	26.5	21.5	38 E	16*	29*
1 7	21 48.47	−21 51.0	2.049	1.394	25.0	21.5	37 E	16*	27*
1 12	22 1.85	−20 51.2	2.100	1.414	23.6	21.6	35 E	16*	26*
		137304 1999 SK_{12}							
12 23	21 5.22	−16 12.2	2.209	1.640	24.3	20.4	43 E	24*	30*
1 2	21 32.38	−13 48.2	2.277	1.652	22.6	20.5	40 E	24*	25*
1 12	21 58.89	−11 14.4	2.345	1.667	20.8	20.5	37 E	24*	21*
1 22	22 24.76	− 8 33.4	2.413	1.685	18.9	20.5	34 E	23*	17*
2 1	22 50.04	− 5 47.6	2.480	1.705	17.0	20.5	30 E	21*	14*
2 11	23 14.76	− 2 59.5	2.546	1.727	15.1	20.6	27 E	19*	11*
2 21	23 39.00	− 0 11.3	2.611	1.751	13.1	20.6	24 E	16*	8*
3 2	0 2.83	+ 2 34.9	2.674	1.777	11.1	20.6	20 E	13*	5*
3 12	0 26.32	+ 5 17.4	2.734	1.805	9.1	20.6	17 E	10*	3*
3 22	0 49.54	+ 7 54.4	2.790	1.834	7.1	20.6	13 E	7*	1*
4 1	1 12.54	+10 24.5	2.842	1.864	5.1	20.5	10 E	3*	—
4 11	1 35.38	+12 46.5	2.888	1.895	3.2	20.5	6 E	—	—
4 21	1 58.08	+14 59.4	2.929	1.927	1.7	20.5	3 E	—	—
5 1	2 20.68	+17 2.2	2.964	1.959	1.9	20.5	4 W	—	—
5 11	2 43.15	+18 54.2	2.991	1.992	3.5	20.7	7 W	—	—
5 21	3 5.51	+20 35.0	3.010	2.025	5.4	20.9	11 W	1*	3*
5 31	3 27.71	+22 4.1	3.022	2.059	7.3	21.0	15 W	4*	7*
6 10	3 49.71	+23 21.4	3.024	2.092	9.2	21.1	19 W	7*	11*
6 20	4 11.44	+24 26.9	3.017	2.126	11.1	21.2	24 W	10*	14*
6 30	4 32.82	+25 20.8	3.001	2.159	12.9	21.3	28 W	14*	17*
7 10	4 53.76	+26 3.5	2.974	2.192	14.6	21.4	33 W	19*	19*
7 20	5 14.15	+26 35.6	2.938	2.225	16.3	21.5	38 W	24*	21*