19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
401857 2000 PG_3									
12 23	17 22.33	−14 1.6	0.619	0.407	146.1	20.8	13 W	7*	—
12 24	17 16.31	−15 3.3	0.628	0.408	142.6	20.4	15 W	8*	—
12 25	17 10.71	−16 5.8	0.638	0.410	138.5	19.8	16 W	9*	3*
12 26	17 5.60	−17 8.5	0.650	0.413	134.0	19.4	18 W	9*	6*
12 27	17 1.01	−18 10.8	0.664	0.418	129.3	19.0	19 W	10*	8*
12 28	16 56.97	−19 12.1	0.678	0.424	124.5	18.6	21 W	10*	10*
12 29	16 53.48	−20 12.0	0.694	0.432	119.8	18.3	22 W	10*	12*
12 30	16 50.53	−21 10.4	0.711	0.441	115.3	18.1	24 W	10*	14*
12 31	16 48.09	−22 6.8	0.728	0.451	110.9	17.9	25 W	10*	16*
1 1	16 46.15	−23 1.3	0.746	0.461	106.7	17.8	27 W	10*	18*
1 2	16 44.66	−23 53.7	0.764	0.473	102.8	17.7	28 W	10*	20*
1 4	16 42.90	−25 32.3	0.800	0.499	95.6	17.5	30 W	10*	23*
1 6	16 42.52	−27 2.9	0.837	0.527	89.3	17.5	32 W	9*	25*
1 8	16 43.23	−28 25.9	0.873	0.557	83.8	17.5	34 W	9*	27*
1 10	16 44.81	−29 42.1	0.908	0.588	79.0	17.5	36 W	8*	29*
1 12	16 47.06	−30 52.1	0.942	0.621	74.9	17.5	38 W	8*	31*
1 14	16 49.82	−31 56.6	0.975	0.654	71.2	17.6	39 W	7*	33*
1 16	16 52.96	−32 56.2	1.006	0.687	68.1	17.7	40 W	6*	34*
1 18	16 56.40	−33 51.5	1.036	0.721	65.3	17.8	42 W	6*	36*
1 20	17 0.04	−34 43.0	1.064	0.755	62.8	17.9	43 W	5*	37*
1 22	17 3.84	−35 31.0	1.091	0.788	60.6	17.9	44 W	5*	38*
1 27	17 13.65	−37 18.6	1.152	0.873	56.2	18.1	47 W	4*	41*
2 1	17 23.53	−38 52.0	1.205	0.955	52.7	18.3	51 W	2*	44*
2 6	17 33.16	−40 14.9	1.251	1.037	50.0	18.5	54 W	1*	47*
2 11	17 42.33	−41 29.9	1.289	1.116	47.8	18.7	57 W	—	49*
2 16	17 50.89	−42 39.4	1.321	1.193	45.9	18.8	60 W	—	52*
2 21	17 58.74	−43 45.2	1.347	1.269	44.3	19.0	64 W	—	54*
2 26	18 5.77	−44 48.5	1.367	1.343	42.8	19.1	67 W	—	57*
3 2	18 11.89	−45 50.6	1.383	1.415	41.5	19.2	71 W	—	59*
3 7	18 17.00	−46 52.3	1.394	1.485	40.2	19.3	75 W	—	61*
3 12	18 21.03	−47 54.4	1.401	1.553	38.9	19.3	79 W	—	62*
3 17	18 23.86	−48 57.3	1.406	1.620	37.6	19.4	83 W	—	64*
3 22	18 25.37	−50 1.2	1.407	1.686	36.2	19.5	87 W	—	64*
3 27	18 25.41	−51 6.1	1.407	1.750	34.7	19.5	92 W	—	65*
4 1	18 23.83	−52 11.6	1.405	1.812	33.2	19.5	96 W	—	64
4 6	18 20.51	−53 16.8	1.403	1.874	31.6	19.5	101 W	—	63
4 11	18 15.29	−54 20.4	1.401	1.934	29.9	19.6	106 W	—	62
4 16	18 8.07	−55 20.9	1.400	1.993	28.1	19.6	111 W	—	61
4 21	17 58.76	−56 16.0	1.402	2.050	26.2	19.6	116 W	—	60
4 26	17 47.40	−57 3.2	1.406	2.107	24.2	19.6	121 W	—	59
5 1	17 34.17	−57 39.6	1.413	2.163	22.2	19.6	126 W	—	58
5 6	17 19.41	−58 2.9	1.426	2.217	20.3	19.6	130 W	—	58
5 11	17 3.60	−58 11.1	1.443	2.271	18.4	19.6	135 W	—	58
5 13	16 57.12	−58 9.8	1.451	2.292	17.7	19.6	136 W	—	58
5 15	16 50.61	−58 5.9	1.461	2.313	17.0	19.6	138 W	—	58
5 17	16 44.12	−57 59.4	1.471	2.333	16.4	19.7	139 W	—	58
5 19	16 37.67	−57 50.3	1.483	2.354	15.8	19.7	141 W	—	58
5 21	16 31.33	−57 38.7	1.495	2.375	15.3	19.7	142 W	—	58
5 23	16 25.11	−57 24.7	1.509	2.395	14.8	19.7	143 W	—	59
5 25	16 19.06	−57 8.4	1.523	2.415	14.4	19.7	144 W	—	59
5 27	16 13.22	−56 50.0	1.539	2.435	14.0	19.8	144 E	—	59
5 29	16 7.59	−56 29.6	1.555	2.455	13.7	19.8	145 E	—	60
5 31	16 2.21	−56 7.4	1.573	2.475	13.5	19.8	145 E	—	60
6 5	15 49.94	−55 5.3	1.623	2.524	13.2	19.9	145 E	—	61
6 10	15 39.44	−53 56.3	1.678	2.573	13.3	20.0	144 E	—	62
6 15	15 30.72	−52 43.3	1.741	2.620	13.7	20.2	142 E	—	63
6 20	15 23.72	−51 28.6	1.809	2.667	14.3	20.3	140 E	—	65
6 25	15 18.32	−50 14.4	1.884	2.713	15.0	20.5	136 E	—	66
6 30	15 14.38	−49 2.5	1.964	2.758	15.7	20.6	133 E	—	67
7 5	15 11.72	−47 53.9	2.048	2.802	16.4	20.8	129 E	—	68
7 10	15 10.20	−46 49.5	2.138	2.846	17.0	20.9	125 E	—	69
7 15	15 9.68	−45 49.6	2.231	2.889	17.5	21.1	121 E	—	70
7 20	15 10.03	−44 54.5	2.327	2.932	18.0	21.2	117 E	—	71
7 25	15 11.14	−44 4.4	2.427	2.973	18.3	21.3	113 E	—	72
7 30	15 12.93	−43 19.0	2.529	3.015	18.6	21.5	109 E	—	73
152637 1997 NC_1									
12 23	17 22.52	−19 30.5	1.931	0.978	10.1	19.9	10 W	3*	—
1 2	18 2.28	−21 0.3	1.953	1.002	10.3	20.0	11 W	2*	2*
1 12	18 41.89	−21 54.1	1.967	1.021	10.9	20.1	11 W	1*	4*
1 22	19 21.32	−22 12.2	1.974	1.035	11.8	20.2	12 W	—	6*
2 1	20 0.51	−21 55.2	1.974	1.043	12.8	20.2	14 W	—	7*
2 11	20 39.38	−21 4.1	1.968	1.045	14.0	20.3	15 W	—	9*
2 21	21 17.91	−19 40.4	1.955	1.042	15.3	20.3	16 W	—	10*
3 2	21 56.13	−17 45.6	1.937	1.033	16.5	20.3	17 W	—	11*
3 12	22 34.10	−15 21.8	1.915	1.019	17.7	20.3	18 W	—	11*
3 22	23 12.00	−12 30.9	1.891	0.999	18.6	20.2	19 W	—	12*
4 1	23 50.02	− 9 15.2	1.864	0.975	19.4	20.2	19 W	—	12*
4 11	0 28.45	− 5 37.6	1.838	0.945	19.9	20.1	19 W	—	11*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
152637 1997 NC_1 *(continuation)*									
4 21	1 7.64	− 1 41.4	1.812	0.912	20.0	20.0	18 W	—	11*
5 1	1 48.00	+ 2 28.7	1.789	0.875	19.5	19.9	17 W	—	10*
5 6	2 8.77	+ 4 37.1	1.778	0.856	19.0	19.8	16 W	—	9*
5 11	2 30.01	+ 6 46.5	1.769	0.836	18.4	19.7	15 W	—	8*
5 16	2 51.80	+ 8 55.8	1.760	0.817	17.5	19.6	14 W	—	7*
5 21	3 14.21	+11 3.8	1.752	0.797	16.4	19.5	13 W	—	6*
5 26	3 37.31	+13 8.8	1.744	0.778	15.0	19.4	11 W	—	5*
5 31	4 1.15	+15 9.3	1.738	0.760	13.4	19.3	10 W	—	4*
6 5	4 25.77	+17 3.2	1.731	0.743	11.5	19.2	8 W	—	2*
6 10	4 51.23	+18 48.6	1.726	0.727	9.3	19.0	7 W	—	1*
6 15	5 17.52	+20 23.0	1.720	0.713	6.9	18.9	5 W	—	—
6 20	5 44.61	+21 44.2	1.715	0.702	4.3	18.7	3 W	—	—
6 25	6 12.44	+22 49.7	1.709	0.693	1.4	18.5	1 W	—	—
6 30	6 40.86	+23 37.4	1.704	0.688	1.6	18.5	1 E	—	—
7 5	7 9.70	+24 5.4	1.698	0.685	4.7	18.6	3 E	—	—
7 10	7 38.75	+24 12.3	1.692	0.686	7.8	18.8	5 E	—	—
7 15	8 7.79	+23 57.5	1.686	0.690	10.8	18.9	7 E	—	—
7 20	8 36.56	+23 21.0	1.680	0.697	13.6	19.0	9 E	2*	1*
7 25	9 4.83	+22 23.4	1.675	0.707	16.3	19.1	11 E	3*	2*
7 30	9 32.43	+21 6.4	1.670	0.719	18.7	19.3	13 E	4*	4*
8 4	9 59.22	+19 31.7	1.666	0.734	20.9	19.4	15 E	5*	6*
8 9	10 25.10	+17 41.6	1.664	0.750	22.7	19.5	17 E	6*	8*
8 14	10 50.06	+15 38.7	1.663	0.768	24.3	19.6	18 E	7*	9*
8 19	11 14.10	+13 25.3	1.664	0.787	25.5	19.7	20 E	8*	11*
8 24	11 37.26	+11 4.0	1.666	0.806	26.5	19.7	21 E	8*	13*
8 29	11 59.60	+ 8 37.0	1.670	0.826	27.3	19.8	22 E	9*	14*
9 3	12 21.21	+ 6 6.7	1.676	0.845	27.8	19.9	23 E	9*	15*
9 8	12 42.17	+ 3 34.7	1.684	0.865	28.2	20.0	24 E	9*	16*
9 13	13 2.58	+ 1 2.9	1.693	0.884	28.3	20.0	25 E	9*	17*
9 18	13 22.52	− 1 27.4	1.703	0.902	28.3	20.1	25 E	9*	18*
9 23	13 42.10	− 3 54.7	1.715	0.920	28.2	20.1	26 E	9*	18*
9 28	14 1.38	− 6 18.0	1.728	0.937	28.0	20.2	26 E	9*	19*
10 3	14 20.44	− 8 36.3	1.741	0.952	27.6	20.2	26 E	9*	19*
10 8	14 39.35	−10 48.9	1.755	0.967	27.3	20.3	26 E	8*	19*
10 13	14 58.19	−12 54.9	1.770	0.981	26.8	20.3	26 E	8*	20*
10 18	15 17.01	−14 53.9	1.784	0.993	26.3	20.3	26 E	8*	19*
10 28	15 54.78	−18 28.5	1.812	1.014	25.2	20.4	26 E	7*	19*
11 7	16 32.95	−21 29.1	1.838	1.030	24.1	20.4	25 E	6*	18*
11 17	17 11.73	−23 52.9	1.860	1.040	22.9	20.4	24 E	6*	17*
11 27	17 51.16	−25 37.4	1.877	1.045	21.8	20.4	23 E	5*	16*
12 7	18 31.17	−26 40.8	1.888	1.044	20.9	20.4	22 E	5*	15*
12 17	19 11.61	−27 1.6	1.892	1.037	20.1	20.4	21 E	4*	14*
12 27	19 52.24	−26 39.1	1.889	1.025	19.5	20.3	20 E	4*	13*
1 6	20 32.80	−25 33.2	1.878	1.008	19.2	20.3	20 E	4*	13*
1 16	21 13.12	−23 44.3	1.860	0.985	19.1	20.2	19 E	4*	12*
311154 2004 TF_3									
12 23	17 22.55	−27 31.3	2.651	1.690	5.7	21.2	10 W	—	4*
1 2	17 53.79	−27 29.7	2.601	1.657	7.5	21.2	13 W	—	7*
1 12	18 25.60	−27 3.1	2.550	1.625	9.4	21.2	16 W	—	10*
1 22	18 57.71	−26 10.1	2.498	1.596	11.3	21.2	18 W	1*	12*
2 1	19 29.82	−24 50.5	2.447	1.569	13.1	21.2	21 W	2*	15*
2 11	20 1.65	−23 4.8	2.396	1.545	14.9	21.2	24 W	2*	18*
2 21	20 32.98	−20 54.6	2.347	1.524	16.7	21.2	26 W	3*	20*
3 2	21 3.64	−18 22.1	2.300	1.507	18.4	21.1	29 W	4*	23*
3 12	21 33.52	−15 30.4	2.256	1.494	20.0	21.1	31 W	5*	25*
3 22	22 2.61	−12 22.8	2.214	1.484	21.6	21.1	33 W	6*	27*
4 1	22 30.91	− 9 3.3	2.175	1.479	23.0	21.1	35 W	7*	29*
4 11	22 58.45	− 5 35.5	2.139	1.478	24.5	21.1	38 W	8*	31*
4 21	23 25.34	− 2 3.3	2.105	1.481	25.8	21.1	40 W	10*	34*
5 1	23 51.64	+ 1 29.6	2.072	1.488	27.0	21.2	42 W	12*	35*
5 11	0 17.42	+ 4 59.9	2.041	1.499	28.2	21.2	45 W	14*	37*
5 21	0 42.76	+ 8 24.5	2.010	1.515	29.3	21.2	47 W	17*	38*
5 31	1 7.70	+11 40.9	1.978	1.534	30.3	21.2	50 W	20*	39*
6 10	1 32.25	+14 46.6	1.945	1.556	31.3	21.2	53 W	24*	40*
6 20	1 56.40	+17 40.1	1.911	1.581	32.1	21.3	56 W	29*	40*
6 30	2 20.09	+20 20.0	1.873	1.609	32.8	21.3	59 W	34*	39*
7 10	2 43.21	+22 45.6	1.833	1.639	33.5	21.3	63 W	40*	38*
7 20	3 5.61	+24 56.7	1.788	1.672	33.9	21.3	67 W	46*	37*
7 30	3 27.06	+26 53.3	1.739	1.706	34.3	21.3	71 W	52*	36*
8 9	3 47.32	+28 36.3	1.686	1.741	34.4	21.3	76 W	59*	35*
8 19	4 6.06	+30 6.9	1.628	1.778	34.2	21.2	81 W	65*	34*
8 29	4 22.86	+31 26.4	1.567	1.815	33.7	21.2	87 W	71*	33*
9 8	4 37.28	+32 36.4	1.503	1.853	32.9	21.1	93 W	76*	31
9 18	4 48.79	+33 38.6	1.436	1.892	31.5	21.0	100 W	79	30
9 28	4 56.77	+34 33.9	1.371	1.931	29.6	20.9	108 W	80	29
10 8	5 0.65	+35 22.0	1.309	1.969	27.0	20.8	117 W	80	29
10 18	4 59.89	+36 0.8	1.253	2.008	23.6	20.6	126 W	81	28
10 28	4 54.26	+36 25.9	1.208	2.047	19.5	20.5	136 W	81	28

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
311154 2004 TF_3 *(continuation)*									
11 2	4 49.72	+36 31.3	1.192	2.066	17.2	20.4	142 W	82	27
11 7	4 44.18	+36 30.9	1.180	2.085	14.8	20.3	147 W	82	27
11 12	4 37.79	+36 23.9	1.173	2.103	12.4	20.2	153 W	81	28
11 17	4 30.79	+36 9.8	1.172	2.122	10.0	20.1	158 W	81	28
11 22	4 23.47	+35 48.8	1.177	2.141	7.9	20.1	163 W	81	28
11 27	4 16.12	+35 21.1	1.189	2.159	6.5	20.0	166 W	80	29
12 2	4 9.02	+34 47.8	1.208	2.178	6.3	20.1	166 E	80	29
12 7	4 2.41	+34 10.1	1.233	2.196	7.3	20.2	164 E	79	30
12 12	3 56.51	+33 29.3	1.264	2.214	9.0	20.3	159 E	78	31
12 17	3 51.47	+32 47.0	1.302	2.231	10.9	20.5	155 E	78	31
12 22	3 47.41	+32 4.8	1.346	2.249	12.9	20.7	149 E	77	32
12 27	3 44.35	+31 23.8	1.396	2.266	14.8	20.8	144 E	76	33
1 1	3 42.32	+30 45.2	1.451	2.283	16.5	21.0	139 E	76	33
1 6	3 41.27	+30 9.5	1.510	2.300	18.1	21.1	134 E	75	34
1 11	3 41.17	+29 37.2	1.573	2.317	19.4	21.3	128 E	75	34
1 16	3 41.96	+29 8.6	1.640	2.334	20.5	21.4	124 E	74	35
325620 2009 SV_{242}									
12 23	17 22.68	−22 2.9	2.848	1.884	4.8	20.8	9 W	1*	1*
1 2	17 49.69	−21 56.7	2.797	1.854	7.0	20.8	13 W	3*	5*
1 12	18 17.09	−21 32.3	2.743	1.825	9.1	20.8	17 W	5*	9*
1 22	18 44.75	−20 48.8	2.684	1.799	11.2	20.8	21 W	7*	13*
2 1	19 12.49	−19 46.0	2.624	1.774	13.3	20.8	24 W	8*	17*
2 11	19 40.14	−18 24.1	2.561	1.751	15.3	20.8	28 W	9*	21*
2 21	20 7.57	−16 44.0	2.498	1.730	17.2	20.8	31 W	10*	24*
3 2	20 34.67	−14 46.9	2.434	1.712	19.2	20.8	35 W	11*	28*
3 12	21 1.33	−12 34.7	2.370	1.696	21.0	20.8	38 W	12*	31*
3 22	21 27.52	−10 9.3	2.307	1.683	22.8	20.7	41 W	13*	34*
4 1	21 53.20	− 7 33.2	2.244	1.673	24.4	20.7	44 W	14*	37*
4 11	22 18.34	− 4 49.1	2.183	1.667	26.0	20.7	47 W	16*	40*
4 21	22 42.97	− 1 59.6	2.123	1.663	27.5	20.7	50 W	17*	42*
5 1	23 7.09	+ 0 52.4	2.063	1.662	28.9	20.6	53 W	19*	45*
5 11	23 30.71	+ 3 44.3	2.004	1.665	30.2	20.6	56 W	21*	47*
5 21	23 53.83	+ 6 33.5	1.946	1.671	31.3	20.6	59 W	24*	48*
5 31	0 16.42	+ 9 17.4	1.887	1.680	32.4	20.6	62 W	27*	49*
6 10	0 38.44	+11 53.8	1.828	1.691	33.2	20.5	66 W	31*	49*
6 20	0 59.81	+14 20.7	1.767	1.706	34.0	20.5	70 W	36*	48*
6 30	1 20.41	+16 36.3	1.705	1.724	34.5	20.5	74 W	42*	47*
7 10	1 40.05	+18 39.1	1.642	1.743	34.8	20.4	78 W	48*	45*
7 20	1 58.52	+20 28.1	1.576	1.766	34.8	20.4	83 W	54*	44
7 30	2 15.49	+22 2.1	1.509	1.790	34.5	20.3	88 W	60*	42
8 9	2 30.60	+23 20.3	1.441	1.816	33.8	20.2	94 W	65*	41
8 19	2 43.41	+24 22.1	1.373	1.844	32.7	20.1	100 W	69*	40
8 29	2 53.40	+25 6.2	1.305	1.873	31.0	20.0	107 W	70	39
9 8	3 0.07	+25 31.6	1.241	1.904	28.6	19.8	115 W	71	38
9 18	3 2.96	+25 36.2	1.182	1.936	25.4	19.7	124 W	71	38
9 28	3 1.80	+25 17.6	1.133	1.968	21.4	19.5	134 W	70	39
10 8	2 56.75	+24 34.1	1.098	2.002	16.5	19.3	145 W	70	39
10 13	2 52.96	+24 2.9	1.087	2.019	13.8	19.2	151 W	69	40
10 18	2 48.50	+23 25.6	1.081	2.036	11.0	19.1	157 W	68	41
10 23	2 43.58	+22 43.0	1.080	2.053	8.1	19.0	163 W	68	41
10 28	2 38.40	+21 56.2	1.086	2.070	5.3	18.9	169 W	67	42
11 2	2 33.19	+21 6.4	1.098	2.087	3.1	18.8	174 W	66	43
11 7	2 28.15	+20 15.1	1.117	2.105	3.0	18.9	174 E	65	44
11 12	2 23.48	+19 23.9	1.142	2.122	5.1	19.0	169 E	64	45
11 17	2 19.34	+18 34.3	1.173	2.139	7.6	19.2	163 E	64	45
11 22	2 15.86	+17 47.6	1.211	2.157	10.1	19.4	157 E	63	46
11 27	2 13.14	+17 5.0	1.254	2.174	12.4	19.6	152 E	62	47
12 7	2 10.09	+15 54.9	1.357	2.209	16.4	20.0	141 E	61	48
12 17	2 10.23	+15 6.8	1.478	2.244	19.6	20.3	130 E	60	49
12 27	2 13.32	+14 40.4	1.614	2.278	21.8	20.6	121 E	60	49
1 6	2 18.99	+14 33.0	1.760	2.312	23.3	20.8	112 E	60	49*
1 16	2 26.83	+14 41.2	1.915	2.346	24.1	21.1	103 E	60	48*
417211 2005 XL_{80}									
12 23	17 23.28	−25 7.2	1.998	1.039	8.6	20.6	9 W	—	3*
12 28	17 45.01	−25 50.3	2.028	1.070	8.6	20.7	9 W	—	3*
1 2	18 6.28	−26 20.5	2.059	1.103	8.7	20.8	10 W	—	4*
1 7	18 27.01	−26 38.7	2.090	1.137	8.9	20.9	10 W	—	4*
1 12	18 47.15	−26 45.9	2.122	1.172	9.3	21.0	11 W	—	5*
1 17	19 6.65	−26 43.0	2.153	1.207	9.7	21.1	12 W	—	6*
1 22	19 25.48	−26 31.2	2.184	1.243	10.1	21.2	13 W	—	7*
1 27	19 43.63	−26 11.6	2.214	1.280	10.6	21.3	14 W	—	8*
2 1	20 1.08	−25 45.2	2.243	1.316	11.2	21.4	15 W	—	9*
395289 2011 BJ_2									
12 23	17 23.37	+31 57.4	0.762	0.845	75.3	20.0	56 W	39*	—
12 28	17 23.18	+29 52.2	0.801	0.842	73.5	20.0	55 W	42*	—
1 2	17 23.35	+27 43.0	0.833	0.843	71.8	20.0	55 W	44*	—
1 7	17 23.92	+25 29.2	0.859	0.848	70.4	20.1	54 W	46*	—
1 12	17 24.93	+23 10.4	0.878	0.856	69.1	20.1	54 W	48*	1*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
395289 2011 BJ_2 *(continuation)*									
1 22	17 28.33	+18 17.5	0.897	0.881	67.2	20.2	56 W	49*	12*
2 1	17 33.40	+13 3.3	0.891	0.918	66.0	20.2	58 W	49*	23*
2 11	17 39.81	+ 7 23.6	0.863	0.963	65.1	20.2	62 W	47*	35*
2 16	17 43.40	+ 4 21.7	0.843	0.988	64.7	20.2	65 W	45*	41*
2 21	17 47.16	+ 1 9.7	0.818	1.013	64.3	20.2	67 W	42*	46*
2 26	17 51.02	− 2 14.5	0.791	1.040	63.8	20.1	70 W	40*	52*
3 2	17 54.88	− 5 53.3	0.761	1.067	63.0	20.1	74 W	37*	58*
3 7	17 58.67	− 9 49.7	0.730	1.095	62.1	20.0	77 W	33*	64*
3 12	18 2.27	−14 6.9	0.698	1.123	60.9	19.9	81 W	30*	70*
3 17	18 5.58	−18 48.1	0.667	1.151	59.5	19.9	85 W	25*	77*
3 22	18 8.38	−23 56.3	0.637	1.179	57.7	19.8	90 W	20*	83*
3 27	18 10.43	−29 33.6	0.610	1.207	55.5	19.7	94 W	15*	86*
4 1	18 11.37	−35 39.9	0.587	1.234	53.1	19.5	99 W	9*	80
4 6	18 10.70	−42 12.2	0.569	1.261	50.5	19.5	104 W	3*	74
4 11	18 7.59	−49 3.1	0.558	1.288	47.8	19.4	108 W	—	67
4 13	18 5.39	−51 50.2	0.556	1.299	46.7	19.4	110 W	—	64
4 15	18 2.46	−54 37.5	0.555	1.309	45.7	19.3	111 W	—	61
4 17	17 58.64	−57 23.9	0.555	1.319	44.7	19.3	112 W	—	59
4 19	17 53.73	−60 8.2	0.556	1.329	43.8	19.3	114 W	—	56
4 21	17 47.46	−62 49.0	0.559	1.340	42.9	19.3	115 W	—	53
4 22	17 43.72	−64 7.7	0.561	1.345	42.5	19.3	115 W	—	52
4 23	17 39.50	−65 25.0	0.563	1.350	42.1	19.3	116 W	—	51
4 24	17 34.74	−66 40.7	0.566	1.355	41.8	19.4	116 W	—	49
4 25	17 29.39	−67 54.6	0.569	1.360	41.4	19.4	117 W	—	48
4 26	17 23.37	−69 6.4	0.572	1.364	41.1	19.4	117 W	—	47
4 27	17 16.59	−70 16.0	0.575	1.369	40.8	19.4	117 W	—	46
4 28	17 8.97	−71 23.0	0.579	1.374	40.5	19.4	118 W	—	45
4 29	17 0.39	−72 27.2	0.583	1.379	40.2	19.4	118 W	—	44
4 30	16 50.76	−73 28.2	0.588	1.384	40.0	19.4	118 W	—	43
5 1	16 39.97	−74 25.7	0.592	1.389	39.8	19.5	118 W	—	42
5 2	16 27.92	−75 19.4	0.597	1.393	39.6	19.5	118 W	—	41
5 3	16 14.50	−76 8.8	0.602	1.398	39.4	19.5	118 W	—	40
5 4	15 59.66	−76 53.4	0.608	1.403	39.3	19.5	118 W	—	39
5 5	15 43.39	−77 33.0	0.614	1.407	39.1	19.5	118 W	—	38
5 6	15 25.73	−78 7.0	0.620	1.412	39.0	19.6	118 W	—	38
5 7	15 6.82	−78 35.1	0.626	1.417	38.9	19.6	118 W	—	37
5 8	14 46.90	−78 57.0	0.632	1.421	38.8	19.6	118 E	—	37
5 9	14 26.29	−79 12.5	0.639	1.426	38.7	19.6	118 E	—	37
5 10	14 5.40	−79 21.8	0.646	1.430	38.6	19.7	118 E	—	37
5 11	13 44.66	−79 24.8	0.653	1.435	38.6	19.7	118 E	—	37
5 12	13 24.49	−79 22.1	0.661	1.439	38.5	19.7	117 E	—	37
5 13	13 5.24	−79 14.2	0.668	1.444	38.5	19.8	117 E	—	37
5 14	12 47.18	−79 1.6	0.676	1.448	38.5	19.8	117 E	—	37
5 15	12 30.49	−78 44.9	0.684	1.453	38.5	19.8	117 E	—	37
5 16	12 15.24	−78 24.9	0.692	1.457	38.4	19.9	116 E	—	38
5 17	12 1.44	−78 2.2	0.700	1.461	38.4	19.9	116 E	—	38
5 18	11 49.04	−77 37.3	0.708	1.465	38.4	19.9	116 E	—	38
5 19	11 37.95	−77 10.7	0.717	1.470	38.4	20.0	115 E	—	39
5 20	11 28.07	−76 42.9	0.725	1.474	38.5	20.0	115 E	—	39
5 21	11 19.30	−76 14.2	0.734	1.478	38.5	20.0	115 E	—	40
5 22	11 11.52	−75 44.9	0.743	1.482	38.5	20.0	114 E	—	40
5 23	11 4.63	−75 15.2	0.752	1.486	38.5	20.1	114 E	—	41
5 24	10 58.54	−74 45.5	0.761	1.490	38.5	20.1	114 E	—	41
5 25	10 53.15	−74 15.8	0.770	1.495	38.5	20.1	113 E	—	42
5 26	10 48.40	−73 46.4	0.780	1.499	38.6	20.2	113 E	—	42
5 27	10 44.22	−73 17.2	0.789	1.503	38.6	20.2	112 E	—	43
5 28	10 40.53	−72 48.5	0.798	1.507	38.6	20.2	112 E	—	43
5 29	10 37.30	−72 20.2	0.808	1.510	38.6	20.3	112 E	—	44
5 30	10 34.46	−71 52.5	0.818	1.514	38.6	20.3	111 E	—	44
5 31	10 31.99	−71 25.4	0.827	1.518	38.7	20.3	111 E	—	45
6 1	10 29.84	−70 59.0	0.837	1.522	38.7	20.4	110 E	—	45
6 2	10 27.98	−70 33.1	0.847	1.526	38.7	20.4	110 E	—	45
6 3	10 26.39	−70 8.0	0.857	1.530	38.7	20.4	109 E	—	46*
6 4	10 25.03	−69 43.6	0.867	1.533	38.7	20.5	109 E	—	46*
6 5	10 23.90	−69 19.8	0.876	1.537	38.8	20.5	109 E	—	47*
6 6	10 22.96	−68 56.8	0.886	1.541	38.8	20.5	108 E	—	47*
6 7	10 22.21	−68 34.5	0.896	1.544	38.8	20.6	108 E	—	47*
6 8	10 21.62	−68 12.8	0.906	1.548	38.8	20.6	107 E	—	48*
6 9	10 21.18	−67 51.9	0.916	1.552	38.8	20.6	107 E	—	48*
6 10	10 20.89	−67 31.6	0.927	1.555	38.8	20.6	106 E	—	48*
6 12	10 20.69	−66 53.2	0.947	1.562	38.8	20.7	105 E	—	49*
6 14	10 20.94	−66 17.5	0.967	1.569	38.8	20.8	105 E	—	49*
6 16	10 21.58	−65 44.4	0.987	1.576	38.8	20.8	104 E	—	49*
6 18	10 22.58	−65 13.9	1.007	1.582	38.8	20.9	103 E	—	49*
6 20	10 23.88	−64 45.9	1.028	1.589	38.7	20.9	102 E	—	50*
6 22	10 25.45	−64 20.2	1.048	1.595	38.7	21.0	101 E	—	50*
6 24	10 27.27	−63 56.9	1.068	1.601	38.6	21.0	100 E	—	50*
6 26	10 29.31	−63 35.7	1.088	1.607	38.6	21.1	100 E	—	50*
6 28	10 31.55	−63 16.8	1.108	1.613	38.5	21.1	99 E	—	49*
6 30	10 33.97	−62 59.9	1.127	1.619	38.5	21.1	98 E	—	49*

395289 2011 BJ_2 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 5	10 40.75	−62 26.0	1.176	1.633	38.3	21.3	96 E	—	49*
7 10	10 48.45	−62 3.1	1.224	1.646	38.0	21.3	94 E	—	48*
7 15	10 56.98	−61 50.0	1.270	1.658	37.8	21.4	92 E	—	47*
7 20	11 6.29	−61 45.8	1.315	1.669	37.5	21.5	91 E	—	46*

144753 2004 HF_1

12 23	17 23.38	− 7 58.8	4.074	3.154	5.6	21.4	18 W	12*	—
1 2	17 37.31	− 8 23.0	4.045	3.156	6.8	21.4	22 W	16*	2*
1 12	17 51.05	− 8 39.2	3.998	3.157	8.2	21.5	27 W	19*	9*
1 22	18 4.52	− 8 47.8	3.935	3.157	9.8	21.5	33 W	22*	17*
2 1	18 17.59	− 8 49.3	3.857	3.156	11.4	21.5	39 W	24*	25*

1036 Ganymed

12 23	17 23.48	−11 15.5	2.824	1.893	7.9	13.5	15 W	9*	—
1 2	17 48.77	−10 41.9	2.732	1.826	9.8	13.5	19 W	12*	—
1 12	18 15.21	− 9 50.4	2.636	1.760	11.9	13.4	22 W	15*	4*
1 22	18 42.79	− 8 39.4	2.540	1.695	14.0	13.3	25 W	17*	8*
2 1	19 11.50	− 7 7.6	2.444	1.632	16.0	13.2	27 W	18*	12*
2 11	19 41.31	− 5 14.7	2.352	1.570	18.0	13.1	29 W	19*	15*
2 21	20 12.20	− 3 1.5	2.266	1.510	19.9	12.9	31 W	20*	18*
3 2	20 44.14	− 0 29.8	2.188	1.454	21.5	12.8	33 W	21*	20*
3 12	21 17.07	+ 2 16.8	2.120	1.403	23.0	12.7	33 W	21*	21*
3 17	21 33.90	+ 3 44.2	2.091	1.379	23.6	12.7	34 W	21*	21*
3 22	21 50.97	+ 5 13.4	2.064	1.357	24.2	12.6	34 W	21*	22*
3 27	22 8.25	+ 6 43.5	2.041	1.336	24.7	12.6	34 W	21*	22*
4 1	22 25.74	+ 8 13.6	2.020	1.317	25.1	12.5	34 W	21*	22*
4 6	22 43.42	+ 9 42.8	2.003	1.300	25.5	12.5	34 W	20*	22*
4 11	23 1.29	+11 10.1	1.988	1.285	25.8	12.5	34 W	20*	22*
4 16	23 19.31	+12 34.7	1.977	1.273	26.1	12.4	34 W	20*	22*
4 21	23 37.47	+13 55.7	1.968	1.262	26.2	12.4	34 W	19*	22*
4 26	23 55.74	+15 12.2	1.961	1.254	26.4	12.4	34 W	19*	22*
5 1	0 14.08	+16 23.4	1.957	1.248	26.5	12.4	34 W	18*	22*
5 6	0 32.46	+17 28.7	1.955	1.245	26.6	12.4	34 W	18*	22*
5 11	0 50.84	+18 27.5	1.954	1.244	26.6	12.4	34 W	18*	22*
5 21	1 27.46	+20 4.2	1.958	1.251	26.8	12.4	34 W	17*	23*
5 31	2 3.56	+21 11.0	1.965	1.267	27.0	12.4	35 W	17*	23*
6 10	2 38.78	+21 47.3	1.974	1.293	27.3	12.5	36 W	17*	24*
6 20	3 12.80	+21 54.0	1.983	1.326	27.7	12.6	37 W	18*	25*
6 30	3 45.30	+21 32.6	1.990	1.368	28.2	12.7	39 W	20*	27*
7 10	4 16.06	+20 45.6	1.994	1.415	28.8	12.8	42 W	22*	29*
7 20	4 44.90	+19 35.7	1.995	1.468	29.4	12.8	45 W	25*	31*
7 30	5 11.70	+18 5.4	1.990	1.525	30.0	12.9	49 W	28*	34*
8 9	5 36.38	+16 17.5	1.980	1.585	30.6	13.0	53 W	32*	36*
8 19	5 58.90	+14 14.2	1.964	1.647	31.0	13.1	57 W	36*	39*
8 29	6 19.19	+11 57.7	1.942	1.712	31.3	13.2	62 W	39*	43*
9 8	6 37.20	+ 9 29.9	1.913	1.777	31.4	13.2	67 W	42*	46*
9 18	6 52.86	+ 6 52.7	1.880	1.843	31.3	13.3	72 W	45*	50*
9 28	7 6.02	+ 4 7.7	1.841	1.909	30.9	13.3	78 W	46*	54*
10 8	7 16.55	+ 1 17.0	1.799	1.976	30.2	13.3	85 W	46*	59*
10 18	7 24.25	− 1 37.0	1.754	2.042	29.2	13.3	92 W	43	64*
10 28	7 28.88	− 4 31.0	1.711	2.107	27.8	13.3	99 W	40	68*
11 2	7 29.97	− 5 56.6	1.690	2.140	26.9	13.2	103 W	39	70
11 7	7 30.24	− 7 20.4	1.671	2.172	25.9	13.2	107 W	38	71
11 12	7 29.64	− 8 41.6	1.653	2.205	24.9	13.2	111 W	36	73
11 17	7 28.18	− 9 59.3	1.637	2.237	23.7	13.2	115 W	35	74
11 22	7 25.87	−11 12.3	1.624	2.268	22.5	13.2	119 W	34	75
11 27	7 22.74	−12 19.6	1.615	2.300	21.2	13.2	122 W	33	76
12 2	7 18.86	−13 20.2	1.609	2.331	19.9	13.1	126 W	32	77
12 7	7 14.30	−14 13.0	1.607	2.362	18.7	13.1	130 W	31	78
12 12	7 9.15	−14 56.9	1.610	2.393	17.5	13.1	133 W	30	79
12 17	7 3.55	−15 31.2	1.618	2.424	16.4	13.1	136 W	29	80
12 22	6 57.65	−15 55.3	1.631	2.454	15.5	13.2	138 W	29	80
12 27	6 51.63	−16 8.9	1.649	2.484	14.8	13.2	140 W	29	80
1 1	6 45.64	−16 12.3	1.674	2.514	14.3	13.2	141 E	29	80
1 6	6 39.84	−16 5.9	1.704	2.543	14.1	13.3	141 E	29	80
1 11	6 34.38	−15 50.3	1.740	2.572	14.2	13.4	140 E	29	80
1 16	6 29.38	−15 26.4	1.782	2.601	14.5	13.5	138 E	30	79

86829 2000 GR_{146}

12 23	17 24.19	−22 57.7	2.863	1.897	4.6	20.0	9 W	—	1*
1 2	17 45.89	−23 36.9	2.889	1.949	7.0	20.2	14 W	3*	7*
1 12	18 6.94	−24 4.7	2.898	1.998	9.4	20.3	19 W	5*	12*
1 22	18 27.33	−24 22.4	2.892	2.042	11.7	20.5	25 W	6*	18*
2 1	18 47.00	−24 31.6	2.869	2.083	14.0	20.6	31 W	7*	24*
2 11	19 5.90	−24 33.9	2.830	2.120	16.1	20.7	37 W	8*	30*
2 21	19 23.99	−24 30.7	2.775	2.153	18.1	20.7	43 W	9*	36*
3 2	19 41.19	−24 24.0	2.706	2.183	19.9	20.8	49 W	10*	43*
3 12	19 57.43	−24 15.6	2.623	2.210	21.6	20.8	55 W	11*	49*
3 22	20 12.63	−24 7.4	2.528	2.233	23.1	20.8	62 W	11*	56*
4 1	20 26.68	−24 1.8	2.421	2.253	24.3	20.7	68 W	12*	62*

86829 2000 GR_{146} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	20 39.43	−24 1.1	2.306	2.270	25.3	20.7	75 W	13*	69*
4 21	20 50.73	−24 8.0	2.183	2.283	25.9	20.6	83 W	14*	77*
5 1	21 0.31	−24 25.5	2.055	2.293	26.1	20.5	90 W	15*	84*
5 11	21 7.91	−24 56.9	1.924	2.300	25.8	20.3	98 W	16*	89
5 21	21 13.13	−25 45.3	1.795	2.304	24.9	20.1	107 W	16*	90
5 31	21 15.49	−26 53.9	1.670	2.304	23.3	19.9	116 W	17*	89
6 10	21 14.42	−28 24.2	1.553	2.301	20.9	19.7	126 W	16*	88
6 20	21 9.32	−30 15.9	1.449	2.295	17.8	19.4	136 W	15	86
6 25	21 5.08	−31 18.3	1.404	2.291	15.9	19.3	142 W	14	85
6 30	20 59.68	−32 23.7	1.364	2.286	13.9	19.2	147 W	13	84
7 5	20 53.12	−33 30.5	1.330	2.280	11.9	19.0	152 W	11	82
7 10	20 45.44	−34 36.9	1.302	2.274	10.0	18.9	157 W	10	81
7 15	20 36.77	−35 40.6	1.281	2.266	8.4	18.8	161 W	9	80
7 20	20 27.26	−36 39.4	1.267	2.258	7.7	18.7	163 W	8	79
7 25	20 17.19	−37 31.4	1.261	2.249	8.0	18.7	162 E	7	78
7 30	20 6.87	−38 14.9	1.261	2.239	9.3	18.8	159 E	7	78
8 4	19 56.62	−38 48.8	1.269	2.228	11.2	18.9	155 E	6	77
8 9	19 46.78	−39 13.0	1.283	2.217	13.4	18.9	150 E	6	77
8 14	19 37.64	−39 27.7	1.303	2.205	15.6	19.0	144 E	6	77
8 19	19 29.46	−39 33.7	1.328	2.191	17.8	19.1	138 E	5	76
8 24	19 22.44	−39 32.1	1.359	2.177	19.9	19.3	133 E	5	76
8 29	19 16.68	−39 24.4	1.393	2.162	21.7	19.3	128 E	6	77
9 3	19 12.24	−39 11.6	1.431	2.146	23.4	19.4	122 E	6	77
9 8	19 9.10	−38 55.1	1.472	2.130	24.9	19.5	117 E	6	77
9 13	19 7.24	−38 35.7	1.515	2.112	26.2	19.6	112 E	6	77
9 18	19 6.59	−38 14.2	1.559	2.094	27.2	19.7	108 E	7	78
9 23	19 7.09	−37 51.1	1.603	2.074	28.1	19.8	103 E	7	78
9 28	19 8.66	−37 26.9	1.648	2.054	28.8	19.8	99 E	8	79
10 3	19 11.20	−37 1.7	1.693	2.033	29.4	19.9	94 E	8	79
10 8	19 14.63	−36 35.6	1.737	2.011	29.8	19.9	90 E	8	79*
10 13	19 18.88	−36 8.7	1.780	1.988	30.1	19.9	87 E	9	77*
10 18	19 23.88	−35 40.8	1.822	1.964	30.2	20.0	83 E	9*	75*
10 23	19 29.58	−35 11.9	1.861	1.939	30.3	20.0	79 E	10*	72*
10 28	19 35.91	−34 41.8	1.899	1.913	30.2	20.0	76 E	10*	69*
11 7	19 50.23	−33 37.3	1.967	1.858	29.9	20.0	69 E	11*	63*
11 17	20 6.50	−32 25.6	2.023	1.799	29.2	20.0	63 E	12*	57*
11 27	20 24.45	−31 4.9	2.067	1.736	28.4	19.9	57 E	13*	50*
12 7	20 43.84	−29 33.4	2.097	1.669	27.4	19.8	51 E	14*	44*
12 17	21 4.52	−27 49.2	2.112	1.597	26.4	19.7	46 E	14*	38*
12 27	21 26.38	−25 50.4	2.112	1.521	25.3	19.6	41 E	15*	33*
1 6	21 49.37	−23 35.0	2.097	1.440	24.3	19.4	37 E	14*	28*
1 16	22 13.50	−21 0.7	2.067	1.355	23.4	19.2	33 E	14*	24*

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12 23	17 24.21	−18 24.6	3.450	2.488	4.0	20.1	10 W	4*	—
1 2	17 43.51	−18 40.5	3.390	2.456	6.1	20.2	15 W	7*	5*
1 12	18 3.09	−18 46.7	3.319	2.424	8.3	20.2	21 W	9*	11*
1 22	18 22.87	−18 43.2	3.235	2.391	10.4	20.2	26 W	11*	17*
2 1	18 42.79	−18 29.7	3.141	2.357	12.6	20.2	31 W	13*	23*
2 11	19 2.76	−18 6.2	3.037	2.323	14.7	20.2	37 W	14*	29*
2 21	19 22.72	−17 33.1	2.925	2.288	16.8	20.1	42 W	15*	35*
3 2	19 42.60	−16 50.7	2.805	2.253	18.8	20.1	47 W	16*	40*
3 12	20 2.32	−15 59.6	2.679	2.217	20.8	20.0	52 W	17*	46*
3 22	20 21.87	−15 0.6	2.548	2.181	22.7	19.9	57 W	18*	51*
4 1	20 41.17	−13 54.4	2.413	2.144	24.4	19.8	63 W	19*	56*
4 11	21 0.19	−12 42.2	2.276	2.107	26.1	19.7	68 W	21*	60*
4 21	21 18.91	−11 25.3	2.137	2.071	27.6	19.6	73 W	22*	65*
5 1	21 37.26	−10 4.9	1.997	2.034	28.9	19.4	78 W	24*	68*
5 11	21 55.22	− 8 42.9	1.858	1.997	30.1	19.3	83 W	26*	71*
5 21	22 12.75	− 7 20.9	1.722	1.961	31.0	19.1	88 W	28*	71*
5 31	22 29.76	− 6 1.3	1.588	1.926	31.7	18.9	93 W	31*	70
6 10	22 46.17	− 4 46.6	1.457	1.890	32.1	18.7	98 W	34*	69
6 20	23 1.84	− 3 39.7	1.332	1.856	32.1	18.4	104 W	37*	68
6 30	23 16.59	− 2 44.3	1.212	1.823	31.7	18.2	109 W	40*	67
7 10	23 30.17	− 2 4.4	1.099	1.791	30.8	17.9	116 W	42*	66
7 20	23 42.28	− 1 44.5	0.995	1.761	29.2	17.6	122 W	43	66
7 30	23 52.49	− 1 49.7	0.899	1.732	26.9	17.3	129 W	43	66
8 9	0 0.39	− 2 24.5	0.815	1.705	23.7	16.9	137 W	43	66
8 19	0 5.52	− 3 31.9	0.743	1.681	19.6	16.6	146 W	41	68
8 29	0 7.61	− 5 11.3	0.686	1.659	14.6	16.2	156 W	40	69
9 3	0 7.55	− 6 10.9	0.664	1.649	11.9	16.0	160 W	39	70
9 8	0 6.82	− 7 15.1	0.646	1.640	9.2	15.8	165 W	38	71
9 13	0 5.50	− 8 21.8	0.632	1.631	6.8	15.7	169 W	37	72
9 18	0 3.76	− 9 28.6	0.624	1.624	5.7	15.6	171 W	36	73
9 23	0 1.77	−10 32.6	0.620	1.617	6.6	15.6	169 W	34	75
9 28	23 59.76	−11 31.1	0.620	1.610	8.8	15.7	166 E	33	76
10 3	23 57.94	−12 21.8	0.626	1.605	11.7	15.8	161 E	33	76
10 8	23 56.49	−13 3.0	0.635	1.601	14.6	16.0	156 E	32	77
10 13	23 55.58	−13 33.3	0.649	1.597	17.5	16.1	151 E	31	78
10 18	23 55.36	−13 52.1	0.666	1.595	20.2	16.2	146 E	31	78

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		23983 1999 NS_{11} *(continuation)*							
	h m	° ′			°	m	°	°	°
10 28	23 57.39	−13 54.7	0.711	1.592	24.9	16.5	138 E	31	78
11 7	0 2.84	−13 14.6	0.767	1.593	28.7	16.8	129 E	32	77
11 17	0 11.51	−11 58.7	0.834	1.597	31.6	17.1	122 E	33	76
11 22	0 16.94	−11 9.6	0.870	1.601	32.7	17.2	119 E	34	75
11 27	0 23.02	−10 14.3	0.909	1.605	33.6	17.3	116 E	35	74
12 2	0 29.68	− 9 13.9	0.949	1.610	34.4	17.4	113 E	36	73
12 7	0 36.85	− 8 9.0	0.991	1.617	35.0	17.6	110 E	37	72
12 12	0 44.49	− 7 0.6	1.035	1.623	35.4	17.7	107 E	38	71
12 17	0 52.55	− 5 49.1	1.080	1.631	35.8	17.8	104 E	39	70*
12 22	1 0.98	− 4 35.3	1.127	1.640	36.0	17.9	102 E	40	68*
12 27	1 9.74	− 3 19.8	1.175	1.649	36.1	18.0	99 E	42	66*
1 1	1 18.80	− 2 3.2	1.225	1.659	36.1	18.1	97 E	43	64*
1 6	1 28.11	− 0 46.0	1.275	1.670	36.0	18.2	94 E	44	61*
1 11	1 37.66	+ 0 31.3	1.328	1.681	35.8	18.3	92 E	46	59*
1 16	1 47.43	+ 1 48.4	1.381	1.693	35.5	18.4	90 E	47	57*
		47648 2000 CA_{40}							
12 23	17 24.39	− 6 56.7	3.584	2.673	6.8	20.6	19 W	12*	—
1 2	17 41.70	− 7 8.0	3.528	2.645	8.1	20.6	22 W	16*	—
1 12	17 59.13	− 7 9.2	3.460	2.617	9.6	20.6	26 W	19*	7*
1 22	18 16.62	− 7 0.2	3.379	2.587	11.3	20.6	31 W	22*	14*
2 1	18 34.07	− 6 41.1	3.288	2.557	13.1	20.6	36 W	24*	20*
2 11	18 51.41	− 6 12.2	3.186	2.527	14.9	20.6	41 W	26*	27*
2 21	19 8.55	− 5 33.7	3.076	2.495	16.6	20.5	46 W	27*	33*
3 2	19 25.41	− 4 46.3	2.956	2.463	18.3	20.5	51 W	29*	39*
3 12	19 41.91	− 3 50.7	2.830	2.431	20.0	20.4	57 W	30*	44*
3 22	19 57.98	− 2 47.8	2.698	2.398	21.5	20.3	62 W	32*	50*
4 1	20 13.51	− 1 38.6	2.561	2.364	23.0	20.2	67 W	33*	54*
4 11	20 28.43	− 0 24.6	2.420	2.329	24.3	20.1	73 W	35*	58*
4 21	20 42.65	+ 0 52.9	2.276	2.295	25.4	20.0	78 W	37*	60*
5 1	20 56.04	+ 2 11.9	2.130	2.260	26.3	19.8	84 W	39*	61*
5 11	21 8.47	+ 3 30.3	1.985	2.224	27.0	19.6	90 W	42*	60
5 21	21 19.78	+ 4 45.4	1.840	2.188	27.4	19.4	96 W	45*	59
5 31	21 29.76	+ 5 53.9	1.698	2.153	27.4	19.2	102 W	48*	58
6 10	21 38.20	+ 6 51.5	1.559	2.117	27.0	19.0	109 W	50*	57
6 15	21 41.75	+ 7 14.8	1.491	2.099	26.6	18.9	112 W	52*	57
6 20	21 44.80	+ 7 33.3	1.425	2.081	26.1	18.7	116 W	52*	56
6 25	21 47.30	+ 7 46.1	1.361	2.063	25.3	18.6	120 W	53	56
6 30	21 49.24	+ 7 52.2	1.299	2.046	24.5	18.5	124 W	53	56
7 5	21 50.56	+ 7 50.7	1.240	2.028	23.4	18.3	128 W	53	56
7 10	21 51.25	+ 7 40.4	1.183	2.010	22.1	18.1	132 W	53	56
7 15	21 51.27	+ 7 20.3	1.130	1.993	20.6	18.0	136 W	52	57
7 20	21 50.60	+ 6 49.0	1.079	1.976	18.9	17.8	141 W	52	57
7 25	21 49.26	+ 6 5.5	1.033	1.959	16.9	17.6	146 W	51	58
7 30	21 47.29	+ 5 9.0	0.991	1.942	14.8	17.4	151 W	50	59
8 9	21 41.74	+ 2 35.5	0.923	1.908	10.2	17.1	160 W	48	61
8 19	21 34.77	− 0 48.6	0.876	1.876	6.9	16.8	167 E	44	65
8 29	21 27.75	− 4 49.6	0.854	1.845	8.8	16.8	164 E	40	69
9 3	21 24.72	− 6 56.7	0.852	1.830	11.3	16.9	159 E	38	71
9 8	21 22.24	− 9 3.9	0.856	1.815	14.1	17.0	154 E	36	73
9 13	21 20.48	−11 8.1	0.865	1.801	17.0	17.1	148 E	34	75
9 18	21 19.58	−13 6.5	0.880	1.787	19.8	17.2	143 E	32	77
9 23	21 19.62	−14 56.9	0.899	1.774	22.5	17.3	138 E	30	79
9 28	21 20.68	−16 37.7	0.923	1.761	24.9	17.4	132 E	28	81
10 3	21 22.77	−18 7.9	0.950	1.749	27.0	17.5	127 E	27	82
10 8	21 25.87	−19 27.0	0.980	1.737	28.9	17.6	123 E	26	83
10 18	21 34.99	−21 31.7	1.047	1.715	32.0	17.8	114 E	23	86
10 28	21 47.66	−22 53.0	1.121	1.696	34.2	18.0	106 E	22	87
11 7	22 3.31	−23 34.5	1.199	1.679	35.6	18.2	100 E	21	88
11 12	22 12.06	−23 41.6	1.239	1.672	36.0	18.3	97 E	21	88*
11 17	22 21.34	−23 40.2	1.279	1.665	36.3	18.3	94 E	21	86*
11 22	22 31.10	−23 30.7	1.320	1.659	36.5	18.4	91 E	21	83*
11 27	22 41.26	−23 13.8	1.360	1.654	36.6	18.4	88 E	22	80*
12 2	22 51.77	−22 49.8	1.401	1.650	36.6	18.5	86 E	22	77*
12 7	23 2.56	−22 19.3	1.441	1.647	36.4	18.6	83 E	23	74*
12 12	23 13.61	−21 42.7	1.481	1.644	36.2	18.6	81 E	23	71*
12 17	23 24.87	−21 0.4	1.522	1.643	36.0	18.7	79 E	24	68*
12 22	23 36.32	−20 12.9	1.561	1.642	35.7	18.7	77 E	25	65*
12 27	23 47.90	−19 20.7	1.601	1.642	35.3	18.7	75 E	26	63*
1 1	23 59.61	−18 24.1	1.640	1.642	34.9	18.8	73 E	27	60*
1 6	0 11.42	−17 23.8	1.680	1.644	34.4	18.8	71 E	28	58*
1 11	0 23.30	−16 20.0	1.719	1.646	33.9	18.9	69 E	29*	56*
1 16	0 35.26	−15 13.3	1.758	1.650	33.4	18.9	67 E	30*	54*
		256412 2007 BT_2							
12 23	17 24.49	−35 23.2	2.426	1.494	9.5	20.3	15 W	—	7*
1 2	17 59.95	−36 46.3	2.437	1.525	10.9	20.4	17 W	—	10*
1 12	18 35.64	−37 36.2	2.445	1.556	12.3	20.5	20 W	—	12*
1 22	19 11.08	−37 54.1	2.450	1.587	13.7	20.6	23 W	—	14*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		256412 2007 BT_2 *(continuation)*							
	h m	° ′			°	m	°	°	°
2 1	19 45.79	−37 42.2	2.451	1.617	15.1	20.7	25 W	—	17*
2 11	20 19.34	−37 4.0	2.448	1.647	16.5	20.8	28 W	—	19*
2 21	20 51.44	−36 3.5	2.440	1.677	17.9	20.9	31 W	—	21*
3 2	21 21.92	−34 44.9	2.428	1.705	19.2	21.0	34 W	—	24*
3 12	21 50.68	−33 12.8	2.409	1.733	20.5	21.0	38 W	—	27*
3 22	22 17.76	−31 31.0	2.385	1.760	21.8	21.1	41 W	—	30*
4 1	22 43.22	−29 43.4	2.354	1.786	23.1	21.1	45 W	—	33*
4 11	23 7.12	−27 53.2	2.317	1.810	24.4	21.1	48 W	—	37*
4 21	23 29.59	−26 3.3	2.273	1.833	25.6	21.2	52 W	—	41*
5 1	23 50.70	−24 16.2	2.221	1.855	26.7	21.2	56 W	—	46*
5 11	0 10.51	−22 34.0	2.162	1.875	27.8	21.2	60 W	—	51*
5 21	0 29.06	−20 58.4	2.097	1.894	28.8	21.2	64 W	—	57*
5 31	0 46.35	−19 31.3	2.024	1.911	29.7	21.1	69 W	1*	62*
6 10	1 2.32	−18 13.9	1.944	1.927	30.4	21.1	74 W	5*	68*
6 20	1 16.90	−17 7.6	1.858	1.942	30.9	21.0	79 W	9*	73*
6 30	1 29.91	−16 13.7	1.767	1.954	31.2	20.9	85 W	14*	77*
7 10	1 41.13	−15 32.9	1.672	1.965	31.1	20.8	91 W	19*	79*
7 20	1 50.26	−15 6.2	1.573	1.975	30.7	20.7	97 W	24*	79
7 30	1 56.85	−14 54.0	1.473	1.983	29.8	20.5	104 W	28*	79
8 9	2 0.39	−14 55.7	1.375	1.989	28.2	20.3	112 W	30*	79
8 19	2 0.28	−15 10.0	1.281	1.994	26.0	20.1	120 W	30	79
8 24	1 58.64	−15 20.7	1.237	1.995	24.6	20.0	125 W	30	79
8 29	1 55.86	−15 32.9	1.195	1.997	22.9	19.9	130 W	29	80
9 3	1 51.88	−15 45.4	1.156	1.997	21.1	19.8	134 W	29	80
9 8	1 46.68	−15 57.3	1.122	1.998	19.1	19.6	139 W	29	80
9 13	1 40.27	−16 7.0	1.091	1.998	17.0	19.5	144 W	29	80
9 18	1 32.72	−16 13.0	1.066	1.997	14.9	19.4	149 W	29	80
9 23	1 24.16	−16 13.6	1.047	1.997	12.9	19.3	154 W	29	80
9 28	1 14.82	−16 7.0	1.034	1.995	11.2	19.2	157 W	29	80
10 3	1 4.96	−15 52.2	1.027	1.994	10.4	19.1	159 W	29	80
10 8	0 54.89	−15 28.4	1.028	1.992	10.5	19.1	159 W	30	79
10 13	0 44.93	−14 55.3	1.035	1.989	11.6	19.2	156 E	30	79
10 18	0 35.40	−14 13.2	1.049	1.986	13.4	19.3	152 E	31	78
10 23	0 26.60	−13 22.8	1.070	1.983	15.6	19.4	148 E	32	77
10 28	0 18.75	−12 25.3	1.097	1.979	17.8	19.5	142 E	33	76
11 2	0 11.97	−11 22.0	1.129	1.975	20.0	19.6	137 E	34	75
11 7	0 6.36	−10 14.3	1.166	1.971	22.0	19.8	132 E	35	74
11 12	0 1.94	− 9 3.1	1.208	1.966	23.9	19.9	127 E	36	73
11 17	23 58.70	− 7 49.4	1.253	1.960	25.5	20.0	121 E	37	72
11 27	23 55.56	− 5 17.4	1.352	1.948	28.0	20.2	112 E	40	69
12 7	23 56.36	− 2 42.0	1.458	1.935	29.7	20.4	103 E	42	66*
12 17	0 0.47	− 0 5.1	1.567	1.920	30.7	20.6	95 E	45	61*
12 27	0 7.36	+ 2 32.8	1.677	1.903	31.1	20.8	87 E	48	53*
1 6	0 16.54	+ 5 11.6	1.783	1.885	30.9	20.9	80 E	50	46*
1 16	0 27.67	+ 7 51.4	1.885	1.866	30.4	20.9	74 E	52*	39*
		6386 Keithnoll							
12 23	17 24.59	−18 56.9	3.525	2.562	3.8	17.7	10 W	3*	—
1 2	17 43.22	−19 18.6	3.469	2.534	5.9	17.8	15 W	6*	5*
1 12	18 2.07	−19 31.6	3.400	2.505	8.0	17.8	21 W	9*	11*
1 22	18 21.09	−19 35.7	3.318	2.475	10.2	17.8	26 W	11*	18*
2 1	18 40.19	−19 31.1	3.224	2.445	12.3	17.8	32 W	13*	24*
2 11	18 59.29	−19 17.9	3.119	2.414	14.4	17.8	38 W	14*	30*
2 21	19 18.33	−18 56.6	3.005	2.381	16.5	17.8	43 W	15*	36*
3 2	19 37.23	−18 27.6	2.883	2.349	18.5	17.7	49 W	16*	42*
3 12	19 55.90	−17 51.8	2.753	2.315	20.4	17.6	54 W	17*	48*
3 22	20 14.32	−17 10.0	2.617	2.281	22.1	17.5	60 W	17*	53*
4 1	20 32.40	−16 23.4	2.476	2.247	23.8	17.4	65 W	18*	59*
4 11	20 50.08	−15 33.3	2.332	2.212	25.3	17.3	71 W	19*	64*
4 21	21 7.32	−14 41.2	2.186	2.177	26.6	17.2	76 W	21*	69*
5 1	21 24.03	−13 48.8	2.038	2.141	27.8	17.0	82 W	22*	73*
5 11	21 40.13	−12 58.2	1.892	2.105	28.6	16.9	87 W	24*	76*
5 21	21 55.55	−12 11.8	1.747	2.069	29.2	16.7	93 W	26*	76
5 31	22 10.12	−11 32.3	1.605	2.033	29.5	16.5	99 W	28*	76
6 10	22 23.70	−11 3.0	1.468	1.997	29.3	16.2	106 W	30*	75
6 20	22 36.07	−10 47.5	1.336	1.962	28.6	16.0	112 W	32*	75
6 30	22 46.91	−10 50.3	1.212	1.926	27.4	15.7	119 W	34*	75
7 10	22 55.92	−11 15.7	1.098	1.892	25.5	15.4	127 W	34	75
7 20	23 2.67	−12 7.9	0.994	1.858	22.7	15.0	135 W	33	76
7 30	23 6.71	−13 30.0	0.904	1.825	19.1	14.7	144 W	32	77
8 9	23 7.74	−15 21.1	0.829	1.793	14.8	14.3	153 W	30	79
8 14	23 7.08	−16 25.9	0.798	1.778	12.5	14.1	158 W	29	80
8 19	23 5.66	−17 35.2	0.772	1.763	10.2	13.9	162 W	27	82
8 24	23 3.56	−18 47.0	0.751	1.748	8.4	13.8	165 W	26	83
8 29	23 0.91	−19 58.7	0.735	1.734	7.5	13.7	167 W	25	84
9 3	22 57.87	−21 8.0	0.724	1.721	8.0	13.6	166 W	24	85
9 8	22 54.63	−22 12.2	0.718	1.707	9.8	13.7	163 E	23	86
9 13	22 51.40	−23 9.0	0.716	1.695	12.3	13.8	159 E	22	87
9 18	22 48.42	−23 56.5	0.720	1.683	15.0	13.8	154 E	21	88
9 23	22 45.93	−24 33.1	0.727	1.671	17.8	14.0	149 E	20	89

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	6386 Keithnoll							*(continuation)*	
	h m	° ′			°	m	°	°	°
9 28	22 44.12	−24 58.0	0.739	1.660	20.4	14.1	145 E	20	89
10 3	22 43.14	−25 11.1	0.754	1.650	23.0	14.2	140 E	20	89
10 8	22 43.09	−25 12.5	0.772	1.641	25.3	14.3	135 E	20	89
10 13	22 44.02	−25 2.7	0.793	1.632	27.4	14.4	131 E	20	89
10 18	22 45.96	−24 42.4	0.816	1.624	29.4	14.5	127 E	20	89
10 23	22 48.90	−24 12.2	0.842	1.617	31.0	14.6	123 E	21	88
10 28	22 52.79	−23 33.2	0.869	1.610	32.5	14.7	119 E	21	88
11 2	22 57.57	−22 46.0	0.898	1.604	33.8	14.8	116 E	22	87
11 7	23 3.15	−21 51.6	0.929	1.600	34.8	14.9	113 E	23	86
11 12	23 9.46	−20 50.6	0.961	1.596	35.7	15.0	110 E	24	85
11 17	23 16.44	−19 43.6	0.994	1.592	36.5	15.1	107 E	25	84
11 22	23 24.02	−18 31.3	1.029	1.590	37.0	15.2	104 E	26	83
11 27	23 32.12	−17 14.2	1.064	1.589	37.5	15.3	101 E	28	81
12 2	23 40.68	−15 53.1	1.101	1.588	37.8	15.3	99 E	29	80*
12 7	23 49.64	−14 28.4	1.138	1.588	38.0	15.4	97 E	31	77*
12 12	23 58.94	−13 0.7	1.177	1.590	38.1	15.5	94 E	32	74*
12 17	0 8.57	−11 30.4	1.216	1.592	38.2	15.6	92 E	33	71*
12 22	0 18.47	− 9 58.1	1.257	1.595	38.1	15.6	90 E	35	68*
12 27	0 28.62	− 8 24.3	1.298	1.599	37.9	15.7	88 E	37	65*
1 1	0 38.98	− 6 49.5	1.340	1.603	37.7	15.8	86 E	38	62*
1 6	0 49.53	− 5 14.1	1.383	1.609	37.4	15.8	84 E	40	59*
1 11	1 0.26	− 3 38.6	1.428	1.615	37.1	15.9	82 E	41	57*
1 16	1 11.15	− 2 3.3	1.473	1.622	36.7	16.0	80 E	43	54*
	79571 1998 QG_{92}								
12 23	17 25.03	−21 23.6	3.028	2.061	4.2	20.3	9 W	1*	—
1 2	17 49.43	−21 46.0	2.969	2.025	6.4	20.3	13 W	4*	5*
1 12	18 14.43	−21 54.3	2.903	1.988	8.6	20.3	18 W	5*	10*
1 22	18 39.95	−21 47.7	2.831	1.953	10.8	20.3	22 W	7*	14*
2 1	19 5.88	−21 25.5	2.754	1.918	13.0	20.3	26 W	8*	19*
2 11	19 32.09	−20 47.5	2.672	1.884	15.2	20.2	30 W	8*	23*
2 21	19 58.50	−19 53.7	2.588	1.851	17.3	20.2	34 W	9*	27*
3 2	20 24.99	−18 44.7	2.502	1.819	19.4	20.2	38 W	9*	31*
3 12	20 51.47	−17 21.1	2.414	1.789	21.4	20.1	41 W	10*	35*
3 22	21 17.88	−15 44.0	2.327	1.761	23.4	20.1	45 W	10*	38*
4 1	21 44.16	−13 55.0	2.239	1.735	25.3	20.0	48 W	11*	42*
4 11	22 10.26	−11 55.8	2.154	1.711	27.1	19.9	51 W	11*	45*
4 21	22 36.17	− 9 48.4	2.069	1.689	28.8	19.9	54 W	12*	48*
5 1	23 1.86	− 7 35.2	1.988	1.671	30.4	19.8	57 W	14*	51*
5 11	23 27.32	− 5 18.6	1.908	1.655	31.9	19.8	60 W	15*	53*
5 21	23 52.53	− 3 1.1	1.831	1.643	33.3	19.7	63 W	17*	55*
5 31	0 17.46	− 0 45.5	1.757	1.634	34.6	19.6	66 W	20*	57*
6 10	0 42.03	+ 1 25.6	1.685	1.628	35.6	19.6	69 W	23*	58*
6 20	1 6.19	+ 3 29.6	1.615	1.626	36.6	19.5	72 W	27*	58*
6 30	1 29.80	+ 5 24.0	1.546	1.627	37.3	19.4	76 W	32*	58*
7 10	1 52.69	+ 7 6.7	1.480	1.632	37.7	19.3	79 W	37*	57*
7 20	2 14.65	+ 8 36.0	1.414	1.640	38.0	19.3	83 W	42*	55*
7 30	2 35.39	+ 9 50.5	1.349	1.651	37.9	19.2	87 W	47*	54
8 9	2 54.59	+10 49.3	1.284	1.666	37.5	19.1	92 W	52*	53
8 19	3 11.83	+11 32.3	1.221	1.684	36.6	19.0	97 W	55*	52
8 29	3 26.62	+11 59.4	1.159	1.704	35.2	18.8	103 W	57*	52
9 8	3 38.48	+12 11.6	1.099	1.727	33.2	18.7	110 W	57	52
9 18	3 46.82	+12 10.1	1.043	1.753	30.5	18.5	118 W	57	52
9 28	3 51.14	+11 56.7	0.993	1.781	26.9	18.3	126 W	57	52
10 8	3 51.13	+11 34.2	0.952	1.810	22.5	18.2	136 W	57	52
10 18	3 46.82	+11 5.9	0.925	1.841	17.2	18.0	147 W	56	53
10 23	3 43.22	+10 51.0	0.917	1.857	14.4	17.9	152 W	56	53
10 28	3 38.85	+10 36.5	0.915	1.874	11.4	17.8	158 W	56	53
11 2	3 33.89	+10 23.2	0.918	1.890	8.5	17.7	164 W	55	54
11 7	3 28.57	+10 11.6	0.926	1.907	5.9	17.6	169 W	55	54
11 12	3 23.11	+10 2.5	0.940	1.925	4.3	17.6	172 W	55	54
11 17	3 17.75	+ 9 56.5	0.960	1.942	4.8	17.7	171 E	55	54
11 22	3 12.73	+ 9 54.2	0.986	1.960	6.9	17.8	166 E	55	54
11 27	3 8.23	+ 9 55.7	1.018	1.978	9.3	18.0	161 E	55	54
12 7	3 1.36	+10 11.0	1.099	2.014	14.1	18.4	150 E	55	54
12 17	2 57.79	+10 41.5	1.199	2.050	18.1	18.8	140 E	56	53
12 27	2 57.67	+11 25.5	1.317	2.087	21.2	19.1	130 E	56	53
1 6	3 0.75	+12 19.6	1.448	2.124	23.5	19.4	121 E	57	52
1 16	3 6.62	+13 20.8	1.589	2.161	24.9	19.7	112 E	58	51
	468507 2005 NB_6								
12 23	17 25.05	−29 48.8	3.216	2.256	4.6	21.0	11 W	—	4*
1 2	17 48.38	−29 23.4	3.159	2.221	6.4	21.0	15 W	—	9*
1 12	18 11.85	−28 44.4	3.091	2.185	8.5	21.0	19 W	—	13*
1 22	18 35.35	−27 50.9	3.013	2.149	10.6	21.0	24 W	2*	18*
2 1	18 58.77	−26 42.3	2.927	2.114	12.8	21.0	28 W	4*	22*
2 11	19 21.97	−25 18.2	2.834	2.078	15.0	21.0	33 W	6*	27*
2 21	19 44.89	−23 38.4	2.734	2.043	17.2	20.9	38 W	8*	32*
3 2	20 7.44	−21 42.7	2.628	2.008	19.4	20.9	42 W	9*	36*
3 12	20 29.55	−19 31.3	2.518	1.974	21.5	20.8	47 W	11*	41*
3 22	20 51.21	−17 4.0	2.405	1.940	23.5	20.8	51 W	13*	45*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	468507 2005 NB_6							*(continuation)*	
	h m	° ′			°	m	°	°	°
4 1	21 12.37	−14 21.2	2.291	1.908	25.5	20.7	55 W	15*	49*
4 11	21 33.04	−11 23.0	2.175	1.876	27.4	20.6	59 W	17*	53*
4 21	21 53.22	− 8 9.6	2.060	1.846	29.2	20.5	64 W	20*	56*
5 1	22 12.92	− 4 41.4	1.947	1.817	30.8	20.4	67 W	23*	59*
5 11	22 32.15	− 0 58.9	1.836	1.790	32.3	20.3	71 W	27*	60*
5 21	22 50.94	+ 2 57.2	1.730	1.765	33.6	20.1	75 W	32*	59*
5 31	23 9.29	+ 7 6.1	1.627	1.743	34.8	20.0	79 W	37*	57*
6 10	23 27.18	+11 26.2	1.531	1.722	35.8	19.9	82 W	43*	53
6 20	23 44.59	+15 55.9	1.440	1.704	36.5	19.7	86 W	49*	48
6 30	0 1.43	+20 32.6	1.355	1.689	37.0	19.6	90 W	57*	43
7 5	0 9.60	+22 52.5	1.315	1.682	37.2	19.5	91 W	61*	41
7 10	0 17.59	+25 12.9	1.277	1.676	37.3	19.5	93 W	65*	39
7 15	0 25.35	+27 33.4	1.241	1.671	37.3	19.4	95 W	69*	36
7 20	0 32.84	+29 53.3	1.206	1.667	37.2	19.3	97 W	73*	34
7 25	0 40.03	+32 12.0	1.173	1.664	37.1	19.3	99 W	76*	32
7 30	0 46.86	+34 28.8	1.141	1.661	36.9	19.2	101 W	79*	30
8 4	0 53.28	+36 42.9	1.112	1.659	36.7	19.1	102 W	82	27
8 9	0 59.22	+38 53.8	1.083	1.658	36.3	19.1	104 W	84	25
8 14	1 4.59	+41 0.4	1.057	1.658	35.9	19.0	106 W	86	23
8 19	1 9.29	+43 2.0	1.031	1.659	35.3	18.9	109 W	88	21
8 24	1 13.21	+44 57.3	1.008	1.660	34.7	18.9	111 W	90	19
8 29	1 16.28	+46 45.3	0.985	1.662	34.0	18.8	113 W	88	17
9 3	1 18.39	+48 24.8	0.965	1.665	33.3	18.7	115 W	87	16
9 8	1 19.45	+49 54.7	0.946	1.669	32.4	18.7	117 W	85	14
9 13	1 19.40	+51 13.3	0.929	1.674	31.5	18.6	120 W	84	13
9 18	1 18.20	+52 19.1	0.913	1.679	30.4	18.5	122 W	83	12
9 23	1 15.91	+53 10.4	0.899	1.686	29.3	18.5	125 W	82	11
9 28	1 12.67	+53 45.9	0.888	1.693	28.2	18.4	127 W	81	10
10 3	1 8.70	+54 4.6	0.879	1.700	27.0	18.4	129 W	81	10
10 8	1 4.25	+54 5.5	0.872	1.709	25.9	18.3	132 W	81	10
10 13	0 59.65	+53 48.3	0.868	1.718	24.8	18.3	134 E	81	10
10 18	0 55.27	+53 13.2	0.867	1.727	23.7	18.3	136 E	82	11
10 23	0 51.46	+52 21.5	0.870	1.738	22.8	18.3	137 E	83	12
10 28	0 48.49	+51 14.9	0.876	1.748	22.1	18.3	138 E	84	13
11 2	0 46.57	+49 55.9	0.886	1.760	21.7	18.3	139 E	85	14
11 7	0 45.78	+48 27.1	0.900	1.772	21.5	18.4	139 E	87	16
11 12	0 46.17	+46 51.3	0.918	1.784	21.5	18.4	139 E	88	17
11 17	0 47.73	+45 11.3	0.940	1.797	21.8	18.5	137 E	90	19
11 22	0 50.41	+43 29.8	0.966	1.811	22.3	18.6	136 E	88	21
11 27	0 54.10	+41 49.5	0.997	1.825	23.0	18.7	134 E	87	22
12 2	0 58.69	+40 12.1	1.032	1.839	23.7	18.8	131 E	85	24
12 7	1 4.08	+38 39.3	1.071	1.854	24.5	18.9	129 E	84	25
12 12	1 10.17	+37 12.1	1.115	1.869	25.3	19.1	126 E	82	27
12 17	1 16.87	+35 51.2	1.161	1.885	26.1	19.2	123 E	81	28
12 22	1 24.10	+34 37.3	1.212	1.900	26.8	19.3	120 E	80	29
12 27	1 31.78	+33 30.5	1.266	1.916	27.4	19.4	116 E	79	30*
1 1	1 39.83	+32 30.6	1.323	1.933	27.9	19.6	113 E	78	31*
1 6	1 48.21	+31 37.3	1.382	1.949	28.3	19.7	110 E	77	32*
1 11	1 56.85	+30 50.2	1.444	1.966	28.6	19.8	107 E	76	32*
1 16	2 5.74	+30 9.0	1.509	1.983	28.9	19.9	103 E	75	32*
	154144 2002 FA_5								
12 23	17 25.22	− 9 21.5	2.293	1.380	11.8	20.6	17 W	10*	—
1 2	17 59.61	− 9 32.5	2.259	1.354	12.7	20.6	18 W	12*	—
1 12	18 34.59	− 9 23.9	2.230	1.332	13.4	20.5	18 W	12*	—
1 22	19 9.92	− 8 55.7	2.207	1.315	14.0	20.5	19 W	12*	2*
2 1	19 45.30	− 8 8.9	2.190	1.302	14.5	20.5	19 W	12*	5*
2 11	20 20.43	− 7 5.6	2.178	1.293	14.9	20.5	20 W	12*	7*
2 21	20 55.12	− 5 48.4	2.172	1.290	15.3	20.5	20 W	11*	9*
3 2	21 29.19	− 4 20.6	2.170	1.293	15.8	20.5	21 W	10*	11*
3 12	22 2.50	− 2 45.7	2.171	1.300	16.4	20.5	22 W	10*	13*
3 22	22 35.03	− 1 7.2	2.174	1.313	17.1	20.6	23 W	9*	15*
4 1	23 6.75	+ 0 31.6	2.177	1.330	17.9	20.6	24 W	8*	17*
4 11	23 37.65	+ 2 7.5	2.180	1.351	18.9	20.7	26 W	7*	19*
4 21	0 7.79	+ 3 38.0	2.181	1.377	20.0	20.8	28 W	7*	21*
5 1	0 37.19	+ 5 0.7	2.180	1.406	21.2	20.9	30 W	6*	24*
5 11	1 5.85	+ 6 13.3	2.176	1.437	22.5	21.0	33 W	7*	27*
5 21	1 33.81	+ 7 14.3	2.167	1.471	23.7	21.0	36 W	7*	29*
5 31	2 1.04	+ 8 2.0	2.154	1.507	25.0	21.1	39 W	8*	32*
6 10	2 27.51	+ 8 35.3	2.136	1.544	26.2	21.2	42 W	10*	35*
6 20	2 53.19	+ 8 53.1	2.113	1.582	27.4	21.2	46 W	13*	38*
6 30	3 17.98	+ 8 54.8	2.085	1.621	28.5	21.3	50 W	16*	41*
7 10	3 41.81	+ 8 39.8	2.051	1.661	29.5	21.3	53 W	20*	44*
7 20	4 4.56	+ 8 7.9	2.011	1.700	30.3	21.4	58 W	24*	46*
7 30	4 26.09	+ 7 19.0	1.966	1.739	31.0	21.4	62 W	29*	49*
8 9	4 46.26	+ 6 13.3	1.916	1.778	31.6	21.4	67 W	33*	52*
8 19	5 4.90	+ 4 51.1	1.861	1.816	31.9	21.4	72 W	37*	54*
8 29	5 21.81	+ 3 13.0	1.802	1.854	32.0	21.4	77 W	40*	57*
9 8	5 36.77	+ 1 19.9	1.739	1.891	31.9	21.3	82 W	42*	61*
9 18	5 49.52	− 0 47.1	1.674	1.927	31.4	21.3	88 W	43*	64*
9 28	5 59.73	− 3 6.1	1.608	1.961	30.6	21.2	95 W	42*	67*

154144 2002 FA_5 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 8	6 7.08	− 5 34.2	1.543	1.995	29.4	21.1	101 W	39	70
10 18	6 11.20	− 8 7.7	1.481	2.027	27.8	21.0	108 W	37	72
10 28	6 11.74	−10 40.1	1.426	2.059	25.8	20.9	115 W	34	75
11 7	6 8.51	−13 3.0	1.380	2.088	23.5	20.8	123 W	32	77
11 17	6 1.54	−15 5.7	1.346	2.117	21.1	20.7	129 W	30	79
11 27	5 51.35	−16 36.1	1.329	2.144	19.0	20.6	135 W	28	81
12 7	5 39.00	−17 23.8	1.331	2.170	17.5	20.6	139 W	28	81
12 17	5 25.95	−17 23.1	1.353	2.194	17.1	20.7	139 E	28	81
12 27	5 13.82	−16 34.9	1.397	2.217	17.7	20.8	137 E	28	81
1 6	5 3.97	−15 7.0	1.460	2.238	19.2	20.9	132 E	30	79
1 16	4 57.19	−13 10.3	1.542	2.258	20.8	21.1	125 E	32	77

173444 2000 LG_3

12 23	17 25.34	−34 8.2	2.796	1.853	7.1	19.5	13 W	—	6*
1 2	17 55.21	−33 25.4	2.753	1.824	8.2	19.5	15 W	—	9*
1 12	18 24.91	−32 19.4	2.704	1.795	9.7	19.5	18 W	—	12*
1 22	18 54.21	−30 50.1	2.651	1.767	11.5	19.5	21 W	—	15*
2 1	19 22.90	−28 57.6	2.594	1.741	13.3	19.4	24 W	—	18*
2 11	19 50.81	−26 42.7	2.533	1.717	15.3	19.4	27 W	1*	21*
2 21	20 17.85	−24 6.4	2.469	1.695	17.3	19.4	31 W	3*	25*
3 2	20 43.97	−21 10.0	2.403	1.675	19.3	19.4	34 W	5*	28*
3 12	21 9.16	−17 55.2	2.335	1.657	21.3	19.4	37 W	7*	31*
3 22	21 33.48	−14 23.4	2.266	1.642	23.2	19.4	41 W	9*	34*
4 1	21 57.00	−10 36.4	2.196	1.629	25.1	19.3	44 W	11*	38*
4 11	22 19.78	− 6 36.0	2.127	1.619	26.9	19.3	47 W	14*	40*
4 21	22 41.97	− 2 24.0	2.059	1.613	28.6	19.3	50 W	17*	43*
5 1	23 3.63	+ 1 57.6	1.992	1.609	30.2	19.2	53 W	21*	45*
5 11	23 24.88	+ 6 26.5	1.928	1.608	31.6	19.2	57 W	24*	46*
5 21	23 45.82	+11 0.5	1.865	1.611	32.8	19.2	60 W	29*	46*
5 31	0 6.52	+15 37.1	1.806	1.617	33.9	19.1	63 W	34*	44*
6 10	0 27.04	+20 13.6	1.749	1.625	34.8	19.1	66 W	39*	42*
6 20	0 47.43	+24 47.5	1.694	1.637	35.5	19.1	69 W	45*	39*
6 25	0 57.57	+27 2.5	1.668	1.644	35.7	19.1	71 W	49*	37*
6 30	1 7.66	+29 15.9	1.642	1.651	36.0	19.0	72 W	52*	35*
7 5	1 17.70	+31 27.3	1.617	1.659	36.1	19.0	74 W	56*	33*
7 10	1 27.68	+33 36.5	1.592	1.668	36.2	19.0	76 W	59*	30
7 15	1 37.58	+35 43.2	1.568	1.677	36.3	19.0	78 W	63*	28
7 20	1 47.36	+37 47.1	1.544	1.687	36.3	19.0	80 W	67*	26
7 25	1 56.98	+39 48.0	1.520	1.698	36.3	18.9	81 W	70*	24
7 30	2 6.42	+41 45.6	1.497	1.709	36.2	18.9	83 W	74*	22
8 4	2 15.61	+43 39.8	1.473	1.720	36.0	18.9	85 W	78*	20
8 9	2 24.51	+45 30.4	1.450	1.732	35.8	18.9	87 W	81*	18
8 14	2 33.03	+47 17.4	1.427	1.745	35.5	18.8	90 W	84*	17
8 19	2 41.08	+49 0.4	1.405	1.758	35.1	18.8	92 W	85*	15
8 24	2 48.55	+50 39.4	1.382	1.771	34.7	18.8	94 W	84	13
8 29	2 55.33	+52 14.1	1.360	1.785	34.2	18.7	97 W	83	12
9 3	3 1.29	+53 44.2	1.338	1.799	33.6	18.7	99 W	81	10
9 8	3 6.29	+55 9.6	1.316	1.813	33.0	18.7	102 W	80	9
9 13	3 10.15	+56 29.7	1.295	1.827	32.2	18.6	104 W	79	8
9 18	3 12.71	+57 43.9	1.274	1.842	31.4	18.6	107 W	77	6
9 23	3 13.81	+58 51.4	1.255	1.857	30.5	18.6	110 W	76	5
9 28	3 13.31	+59 51.1	1.236	1.873	29.5	18.5	113 W	75	4
10 3	3 11.12	+60 41.9	1.219	1.888	28.4	18.5	116 W	74	3
10 8	3 7.22	+61 22.1	1.204	1.904	27.2	18.4	119 W	74	3
10 13	3 1.67	+61 50.3	1.191	1.920	26.0	18.4	122 W	73	2
10 18	2 54.66	+62 4.6	1.180	1.936	24.8	18.3	125 W	73	2
10 20	2 51.52	+62 6.2	1.176	1.942	24.3	18.3	127 W	73	2
10 22	2 48.23	+62 5.1	1.173	1.949	23.8	18.3	128 W	73	2
10 24	2 44.83	+62 1.5	1.171	1.955	23.3	18.3	129 W	73	2
10 26	2 41.34	+61 55.3	1.169	1.961	22.8	18.3	130 W	73	2
10 28	2 37.80	+61 46.4	1.167	1.968	22.4	18.3	131 W	73	2
10 30	2 34.25	+61 34.9	1.166	1.974	21.9	18.3	132 W	73	2
11 1	2 30.70	+61 20.8	1.166	1.981	21.5	18.3	133 W	74	3
11 3	2 27.21	+61 4.0	1.166	1.987	21.1	18.3	134 E	74	3
11 5	2 23.79	+60 44.7	1.167	1.994	20.7	18.3	135 E	74	3
11 7	2 20.48	+60 23.0	1.169	2.000	20.3	18.3	136 E	75	4
11 9	2 17.31	+59 58.9	1.171	2.007	20.0	18.3	136 E	75	4
11 11	2 14.30	+59 32.6	1.174	2.014	19.6	18.3	137 E	75	4
11 13	2 11.46	+59 4.1	1.178	2.020	19.4	18.3	137 E	76	5
11 15	2 8.83	+58 33.6	1.182	2.027	19.2	18.3	138 E	76	5
11 17	2 6.41	+58 1.3	1.187	2.033	19.0	18.3	138 E	77	6
11 22	2 1.37	+56 33.8	1.204	2.050	18.7	18.3	138 E	78	7
11 27	1 57.81	+54 59.0	1.225	2.066	18.7	18.4	138 E	80	9
12 2	1 55.72	+53 19.7	1.252	2.082	18.9	18.4	137 E	82	11
12 7	1 55.03	+51 38.3	1.284	2.099	19.4	18.5	135 E	83	12
12 12	1 55.61	+49 57.3	1.320	2.115	20.0	18.6	133 E	85	14
12 17	1 57.35	+48 18.5	1.361	2.131	20.7	18.7	130 E	87	16
12 22	2 0.13	+46 43.5	1.407	2.147	21.5	18.8	127 E	88	17
12 27	2 3.82	+45 13.6	1.457	2.163	22.2	19.0	124 E	90	19
1 1	2 8.29	+43 49.3	1.511	2.179	22.9	19.1	120 E	89	20

173444 2000 LG_3 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 6	2 13.44	+42 31.2	1.568	2.195	23.6	19.2	117 E	88	21*
1 11	2 19.17	+41 19.3	1.629	2.211	24.1	19.3	113 E	86	22*
1 16	2 25.43	+40 13.7	1.693	2.227	24.6	19.4	110 E	85	23*

88254 2001 FM_{129}

12 23	17 26.06	−23 27.4	2.630	1.663	4.9	21.2	8 W	—	1*
1 2	17 51.77	−23 37.2	2.551	1.606	7.7	21.2	13 W	2*	5*
1 12	18 18.75	−23 30.5	2.459	1.542	10.5	21.2	17 W	3*	9*
1 22	18 47.18	−23 4.4	2.355	1.472	13.4	21.1	20 W	5*	13*
2 1	19 17.27	−22 15.7	2.242	1.395	16.3	21.0	23 W	5*	17*
2 11	19 49.26	−21 0.1	2.123	1.310	19.3	20.8	26 W	6*	20*
2 21	20 23.52	−19 12.3	2.000	1.218	22.4	20.6	28 W	6*	22*
3 2	21 0.50	−16 45.6	1.877	1.117	25.4	20.4	29 W	6*	23*
3 7	21 20.18	−15 15.5	1.817	1.063	26.8	20.2	29 W	6*	23*
3 12	21 40.77	−13 32.8	1.760	1.008	28.2	20.1	29 W	5*	23*
3 17	22 2.36	−11 36.5	1.705	0.950	29.5	19.9	28 W	5*	22*
3 22	22 25.09	− 9 25.9	1.654	0.890	30.5	19.8	27 W	4*	21*
4 1	23 14.41	− 4 20.2	1.567	0.765	31.6	19.3	24 W	3*	18*
4 11	0 10.01	+ 1 41.9	1.505	0.637	29.6	18.8	18 W	1*	12*
4 21	1 13.58	+ 8 22.2	1.470	0.520	21.5	18.1	11 W	—	5*
4 26	1 48.89	+11 43.8	1.460	0.475	13.9	17.6	7 W	—	—
5 1	2 26.56	+14 55.0	1.452	0.446	3.8	17.0	2 W	—	—
5 6	3 6.14	+17 44.6	1.442	0.439	7.9	17.2	3 E	—	—
5 11	3 46.74	+20 2.2	1.430	0.455	19.0	17.6	8 E	1*	—
5 16	4 27.32	+21 41.3	1.418	0.492	28.1	18.1	13 E	4*	4*
5 21	5 7.03	+22 40.6	1.412	0.543	34.5	18.4	18 E	7*	8*
5 26	5 45.20	+23 2.5	1.413	0.601	38.5	18.8	22 E	10*	12*
5 31	6 21.40	+22 51.5	1.422	0.664	40.6	19.1	25 E	11*	15*
6 5	6 55.32	+22 13.2	1.440	0.728	41.3	19.3	28 E	12*	18*
6 10	7 26.82	+21 13.5	1.468	0.792	41.1	19.5	31 E	13*	21*
6 15	7 55.91	+19 58.0	1.503	0.854	40.4	19.7	33 E	13*	23*
6 20	8 22.67	+18 31.6	1.544	0.915	39.2	19.9	35 E	13*	25*
6 25	8 47.27	+16 58.2	1.592	0.974	37.8	20.1	36 E	13*	27*
6 30	9 9.90	+15 21.0	1.644	1.031	36.3	20.2	37 E	12*	28*
7 5	9 30.78	+13 42.1	1.700	1.086	34.7	20.4	37 E	12*	29*
7 10	9 50.12	+12 3.4	1.759	1.139	33.1	20.5	38 E	11*	30*
7 15	10 8.12	+10 25.8	1.820	1.189	31.5	20.6	38 E	10*	30*
7 20	10 24.95	+ 8 50.1	1.882	1.238	29.8	20.7	37 E	9*	30*
7 25	10 40.78	+ 7 16.6	1.945	1.284	28.2	20.8	37 E	8*	30*
7 30	10 55.73	+ 5 45.7	2.009	1.329	26.7	20.9	36 E	8*	29*
8 4	11 9.92	+ 4 17.5	2.072	1.371	25.1	21.0	35 E	7*	29*
8 9	11 23.46	+ 2 52.0	2.135	1.412	23.6	21.1	34 E	6*	28*
8 14	11 36.44	+ 1 29.1	2.197	1.450	22.1	21.2	33 E	5*	27*
8 19	11 48.94	+ 0 8.8	2.257	1.487	20.7	21.3	31 E	5*	25*
8 24	12 1.03	− 1 9.1	2.316	1.523	19.2	21.3	30 E	4*	24*
8 29	12 12.76	− 2 24.5	2.373	1.556	17.8	21.4	28 E	3*	22*
9 3	12 24.17	− 3 37.5	2.428	1.588	16.4	21.4	26 E	3*	20*
9 8	12 35.33	− 4 48.3	2.480	1.618	15.0	21.5	24 E	2*	18*
9 13	12 46.26	− 5 56.8	2.530	1.647	13.6	21.5	23 E	1*	17*

302531 2002 LL_{58}

12 23	17 26.25	−25 19.7	3.072	2.104	3.9	20.2	8 W	—	2*
1 2	17 51.19	−25 42.6	3.005	2.058	6.1	20.2	13 W	—	6*
1 12	18 16.93	−25 50.9	2.931	2.013	8.4	20.2	17 W	2*	11*
1 22	18 43.36	−25 43.2	2.851	1.969	10.6	20.2	22 W	3*	15*
2 1	19 10.36	−25 18.7	2.766	1.925	12.8	20.2	26 W	4*	19*
2 11	19 37.77	−24 36.6	2.679	1.883	14.9	20.1	29 W	4*	23*
2 21	20 5.47	−23 36.4	2.590	1.843	17.1	20.1	33 W	5*	27*
3 2	20 33.32	−22 18.4	2.500	1.805	19.1	20.0	37 W	5*	31*
3 12	21 1.18	−20 43.0	2.411	1.768	21.2	20.0	40 W	6*	34*
3 22	21 28.96	−18 51.1	2.323	1.735	23.1	19.9	43 W	6*	37*
4 1	21 56.56	−16 44.4	2.237	1.704	25.0	19.9	46 W	7*	40*
4 11	22 23.91	−14 24.6	2.155	1.677	26.8	19.8	49 W	7*	43*
4 21	22 50.98	−11 54.0	2.076	1.653	28.5	19.7	52 W	8*	46*
5 1	23 17.71	− 9 15.2	2.001	1.633	30.1	19.7	54 W	10*	48*
5 11	23 44.07	− 6 31.0	1.930	1.617	31.5	19.6	57 W	12*	51*
5 21	0 10.07	− 3 44.4	1.863	1.605	32.9	19.6	59 W	14*	53*
5 31	0 35.63	− 0 58.4	1.800	1.599	34.1	19.5	62 W	17*	54*
6 10	1 0.71	+ 1 44.0	1.739	1.597	35.1	19.5	65 W	20*	55*
6 20	1 25.26	+ 4 20.2	1.681	1.599	36.0	19.4	68 W	25*	55*
6 30	1 49.13	+ 6 47.7	1.625	1.606	36.7	19.4	71 W	30*	55*
7 10	2 12.20	+ 9 4.8	1.569	1.618	37.2	19.3	74 W	35*	54*
7 20	2 34.27	+11 9.9	1.514	1.634	37.4	19.3	78 W	41*	52*
7 30	2 55.08	+13 2.2	1.459	1.655	37.4	19.2	82 W	47*	51*
8 9	3 14.35	+14 41.7	1.403	1.679	37.1	19.2	86 W	53*	49
8 19	3 31.71	+16 8.6	1.346	1.707	36.3	19.1	92 W	58*	48
8 29	3 46.71	+17 23.8	1.289	1.738	35.2	19.0	97 W	62*	47
9 8	3 58.89	+18 28.5	1.233	1.772	33.5	18.9	104 W	63	46
9 18	4 7.72	+19 24.1	1.178	1.808	31.1	18.8	112 W	64	45
9 28	4 12.65	+20 11.5	1.128	1.847	28.0	18.6	120 W	65	44

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		302531 2002 LL_{58} *(continuation)*							
	h m	° ′			°	m	°	°	°
10 8	4 13.32	+20 51.2	1.086	1.887	24.0	18.5	130 W	66	43
10 18	4 9.58	+21 22.6	1.055	1.929	19.2	18.3	140 W	66	43
10 28	4 1.84	+21 44.0	1.040	1.973	13.7	18.1	152 W	67	42
11 2	3 56.80	+21 50.7	1.040	1.995	10.7	18.1	158 W	67	42
11 7	3 51.21	+21 54.6	1.045	2.017	7.6	18.0	164 W	67	42
11 12	3 45.31	+21 55.8	1.057	2.040	4.6	17.9	171 W	67	42
11 17	3 39.33	+21 54.7	1.075	2.063	1.8	17.7	176 W	67	42
11 22	3 33.53	+21 51.8	1.099	2.085	2.1	17.8	176 E	67	42
11 27	3 28.13	+21 47.7	1.130	2.108	4.8	18.1	170 E	67	42
12 2	3 23.31	+21 43.3	1.167	2.132	7.4	18.3	164 E	67	42
12 7	3 19.19	+21 39.0	1.210	2.155	9.9	18.5	158 E	67	42
12 17	3 13.44	+21 33.6	1.314	2.201	14.3	18.9	146 E	67	42
12 27	3 11.20	+21 35.2	1.437	2.248	17.8	19.3	136 E	67	42
1 6	3 12.32	+21 45.1	1.576	2.295	20.3	19.6	126 E	67	42
1 16	3 16.43	+22 3.1	1.728	2.342	22.0	19.9	117 E	67	42
		120414 4880 *P–L*							
12 23	17 26.36	−29 46.5	2.681	1.722	5.8	20.5	10 W	—	4*
1 2	17 58.26	−30 11.9	2.644	1.700	7.5	20.5	13 W	—	7*
1 12	18 30.74	−30 11.8	2.606	1.681	9.2	20.5	16 W	—	10*
1 22	19 3.44	−29 45.2	2.567	1.665	10.9	20.5	19 W	—	13*
2 1	19 35.98	−28 52.3	2.529	1.652	12.6	20.6	21 W	—	15*
2 11	20 8.00	−27 34.2	2.492	1.643	14.3	20.6	24 W	—	18*
2 21	20 39.22	−25 53.0	2.455	1.636	15.9	20.6	27 W	—	21*
3 2	21 9.42	−23 51.5	2.419	1.634	17.5	20.6	30 W	—	23*
3 12	21 38.46	−21 33.2	2.383	1.635	19.0	20.6	32 W	—	26*
3 22	22 6.29	−19 1.5	2.348	1.639	20.6	20.6	35 W	—	29*
4 1	22 32.89	−16 20.1	2.313	1.647	22.0	20.7	38 W	1*	32*
4 11	22 58.29	−13 32.4	2.277	1.659	23.4	20.7	41 W	3*	35*
4 21	23 22.55	−10 41.4	2.240	1.673	24.8	20.7	44 W	4*	38*
5 1	23 45.72	− 7 49.9	2.200	1.691	26.0	20.7	47 W	6*	41*
5 11	0 7.84	− 5 0.4	2.159	1.712	27.3	20.8	51 W	9*	45*
5 21	0 28.97	− 2 14.8	2.114	1.735	28.4	20.8	55 W	12*	48*
5 31	0 49.09	+ 0 25.2	2.065	1.760	29.4	20.8	58 W	15*	51*
6 10	1 8.19	+ 2 58.4	2.013	1.788	30.2	20.8	63 W	20*	53*
6 20	1 26.23	+ 5 23.8	1.957	1.818	31.0	20.8	67 W	25*	54*
6 30	1 43.08	+ 7 40.7	1.896	1.849	31.5	20.8	72 W	31*	54*
7 10	1 58.61	+ 9 48.9	1.831	1.882	31.7	20.7	77 W	38*	54*
7 20	2 12.62	+11 48.1	1.762	1.916	31.7	20.7	83 W	45*	52*
7 30	2 24.82	+13 38.3	1.690	1.951	31.3	20.6	89 W	52*	50
8 9	2 34.90	+15 19.6	1.617	1.987	30.5	20.5	95 W	58*	49
8 19	2 42.45	+16 52.2	1.543	2.024	29.2	20.4	103 W	62*	47
8 29	2 47.03	+18 15.4	1.471	2.061	27.2	20.3	111 W	63	46
9 8	2 48.23	+19 28.5	1.405	2.099	24.6	20.2	120 W	64	45
9 18	2 45.71	+20 29.7	1.348	2.136	21.2	20.0	130 W	65	44
9 28	2 39.41	+21 16.1	1.304	2.174	17.0	19.9	141 W	66	43
10 8	2 29.79	+21 44.8	1.279	2.211	12.2	19.7	152 W	67	42
10 13	2 24.01	+21 51.8	1.274	2.230	9.7	19.6	158 W	67	42
10 18	2 17.81	+21 53.9	1.276	2.249	7.2	19.5	163 W	67	42
10 23	2 11.41	+21 51.2	1.284	2.268	5.1	19.4	168 W	67	42
10 28	2 5.02	+21 44.5	1.299	2.286	3.8	19.4	171 E	67	42
11 2	1 58.85	+21 34.5	1.321	2.305	4.3	19.5	170 E	67	42
11 7	1 53.09	+21 22.0	1.350	2.323	6.0	19.7	166 E	66	43
11 12	1 47.89	+21 8.0	1.385	2.342	8.1	19.8	161 E	66	43
11 17	1 43.38	+20 53.6	1.427	2.360	10.2	20.0	155 E	66	43
11 22	1 39.65	+20 39.8	1.474	2.378	12.2	20.2	149 E	66	43
11 27	1 36.76	+20 27.4	1.528	2.396	14.1	20.3	144 E	65	44
12 7	1 33.50	+20 9.1	1.648	2.432	17.2	20.6	133 E	65	44
12 17	1 33.47	+20 1.9	1.786	2.467	19.5	20.9	123 E	65	44
12 27	1 36.36	+20 7.0	1.935	2.501	21.1	21.2	114 E	65	44*
1 6	1 41.74	+20 23.8	2.093	2.535	22.0	21.4	105 E	65	42*
		164725 1998 QF_{98}							
12 23	17 26.65	−14 47.6	3.399	2.446	4.8	20.4	12 W	6*	—
1 2	17 46.47	−15 1.3	3.330	2.403	6.6	20.4	16 W	9*	3*
1 12	18 6.72	−15 4.4	3.250	2.359	8.6	20.4	21 W	12*	9*
1 22	18 27.35	−14 56.6	3.161	2.315	10.6	20.4	26 W	14*	14*
2 1	18 48.28	−14 37.5	3.063	2.270	12.7	20.4	31 W	16*	20*
2 11	19 9.44	−14 7.0	2.957	2.226	14.8	20.3	35 W	17*	26*
2 21	19 30.79	−13 25.3	2.846	2.182	16.9	20.3	40 W	18*	31*
3 2	19 52.26	−12 32.6	2.729	2.139	19.0	20.2	45 W	19*	36*
3 12	20 13.81	−11 29.5	2.608	2.095	21.0	20.1	49 W	20*	41*
3 22	20 35.41	−10 16.6	2.484	2.053	22.9	20.0	53 W	21*	46*
4 1	20 57.04	− 8 55.0	2.359	2.011	24.8	19.9	58 W	22*	50*
4 11	21 18.67	− 7 25.8	2.233	1.970	26.6	19.8	62 W	23*	54*
4 21	21 40.33	− 5 50.4	2.108	1.930	28.4	19.7	66 W	24*	57*
5 1	22 2.00	− 4 10.6	1.984	1.892	30.0	19.6	70 W	25*	60*
5 11	22 23.70	− 2 28.3	1.863	1.855	31.5	19.4	74 W	27*	62*
5 21	22 45.43	− 0 45.7	1.744	1.821	32.9	19.3	78 W	29*	63*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		164725 1998 QF_{98} *(continuation)*							
	h m	° ′			°	m	°	°	°
5 31	23 7.18	+ 0 54.6	1.629	1.788	34.1	19.1	82 W	32*	63*
6 10	23 28.94	+ 2 29.4	1.518	1.759	35.1	19.0	85 W	35*	62
6 20	23 50.64	+ 3 55.6	1.412	1.732	35.9	18.8	89 W	39*	60
6 30	0 12.16	+ 5 9.4	1.311	1.708	36.4	18.6	94 W	42*	59
7 10	0 33.35	+ 6 6.7	1.215	1.688	36.6	18.4	98 W	46*	58
7 15	0 43.74	+ 6 27.9	1.169	1.679	36.6	18.4	100 W	48*	58
7 20	0 53.95	+ 6 43.3	1.125	1.671	36.4	18.3	102 W	49*	57
7 25	1 3.91	+ 6 52.4	1.082	1.664	36.2	18.2	105 W	50*	57
7 30	1 13.58	+ 6 54.7	1.041	1.658	35.8	18.0	107 W	51*	57
8 9	1 31.80	+ 6 37.0	0.965	1.649	34.5	17.8	113 W	52	57
8 19	1 48.04	+ 5 47.0	0.896	1.644	32.6	17.6	119 W	51	58
8 29	2 1.63	+ 4 22.8	0.836	1.644	30.0	17.4	126 W	49	60
9 8	2 11.97	+ 2 26.0	0.786	1.648	26.6	17.2	133 W	47	62
9 13	2 15.75	+ 1 17.0	0.766	1.651	24.6	17.1	137 W	46	63
9 18	2 18.53	+ 0 2.3	0.749	1.656	22.5	16.9	141 W	45	64
9 23	2 20.30	− 1 16.4	0.736	1.661	20.3	16.8	145 W	44	65
9 28	2 21.10	− 2 36.9	0.727	1.668	18.0	16.8	149 W	42	67
10 3	2 21.00	− 3 57.0	0.722	1.675	15.9	16.7	153 W	41	68
10 8	2 20.08	− 5 14.1	0.721	1.683	14.0	16.6	156 W	40	69
10 13	2 18.48	− 6 25.7	0.725	1.693	12.5	16.6	158 W	39	70
10 18	2 16.38	− 7 29.5	0.733	1.703	11.8	16.6	160 W	38	71
10 23	2 13.98	− 8 23.3	0.747	1.714	11.8	16.7	159 W	37	72
10 28	2 11.49	− 9 5.6	0.765	1.726	12.6	16.7	158 W	36	73
11 2	2 9.12	− 9 35.7	0.788	1.739	13.9	16.9	155 E	35	74
11 7	2 7.04	− 9 53.3	0.815	1.752	15.5	17.0	152 E	35	74
11 17	2 4.29	− 9 52.7	0.883	1.781	18.9	17.3	144 E	35	74
11 27	2 4.06	− 9 10.0	0.966	1.813	22.0	17.7	136 E	36	73
12 7	2 6.61	− 7 55.1	1.064	1.847	24.6	18.0	129 E	37	72
12 12	2 8.90	− 7 8.5	1.117	1.865	25.6	18.2	125 E	38	71
12 17	2 11.82	− 6 17.3	1.173	1.883	26.5	18.3	121 E	39	70
12 22	2 15.35	− 5 22.5	1.232	1.902	27.2	18.5	118 E	40	69
12 27	2 19.44	− 4 24.9	1.294	1.921	27.8	18.6	114 E	41	68
1 1	2 24.05	− 3 25.4	1.357	1.941	28.2	18.8	111 E	42	67
1 6	2 29.12	− 2 24.5	1.423	1.961	28.5	18.9	108 E	43	66
1 11	2 34.61	− 1 22.9	1.490	1.981	28.7	19.0	105 E	44	65*
1 16	2 40.51	− 0 21.1	1.559	2.001	28.8	19.1	101 E	45	64*
		307240 2002 JU_{67}							
12 23	17 26.71	−17 28.5	2.820	1.861	5.4	20.1	10 W	4*	—
1 2	17 51.27	−16 38.9	2.840	1.904	7.4	20.3	15 W	7*	2*
1 12	18 14.82	−15 35.7	2.852	1.948	9.4	20.4	19 W	10*	7*
1 22	18 37.33	−14 20.0	2.855	1.992	11.4	20.6	24 W	13*	12*
2 1	18 58.74	−12 52.8	2.849	2.037	13.3	20.7	28 W	16*	17*
2 11	19 19.01	−11 15.3	2.833	2.081	15.1	20.8	33 W	18*	23*
2 21	19 38.12	− 9 28.6	2.809	2.124	16.8	20.9	38 W	20*	28*
3 2	19 56.03	− 7 34.0	2.775	2.168	18.4	20.9	44 W	22*	34*
3 12	20 12.68	− 5 32.4	2.732	2.211	19.8	21.0	49 W	25*	39*
3 22	20 28.05	− 3 25.2	2.680	2.253	21.1	21.0	55 W	27*	44*
4 1	20 42.06	− 1 13.3	2.621	2.295	22.2	21.1	60 W	30*	49*
4 11	20 54.63	+ 1 2.1	2.555	2.336	23.1	21.1	66 W	33*	53*
4 21	21 5.66	+ 3 19.7	2.482	2.376	23.7	21.1	72 W	36*	56*
5 1	21 15.02	+ 5 38.3	2.405	2.416	24.1	21.0	79 W	40*	57*
5 11	21 22.53	+ 7 56.1	2.324	2.454	24.2	21.0	85 W	44*	56*
5 21	21 28.03	+10 11.2	2.242	2.492	23.9	21.0	92 W	49*	54
5 31	21 31.29	+12 21.0	2.161	2.529	23.3	20.9	99 W	54*	52
6 10	21 32.13	+14 22.1	2.084	2.565	22.3	20.8	107 W	58*	50
6 20	21 30.40	+16 10.3	2.013	2.599	20.9	20.7	114 W	61*	48
6 30	21 26.05	+17 40.4	1.951	2.633	19.1	20.6	122 W	63	46
7 10	21 19.28	+18 46.7	1.903	2.666	17.2	20.5	129 W	64	45
7 20	21 10.50	+19 24.3	1.871	2.698	15.1	20.5	136 W	64	45
7 30	21 0.43	+19 29.3	1.859	2.728	13.4	20.4	142 W	64	45
8 4	20 55.23	+19 19.4	1.861	2.743	12.7	20.4	143 E	64	45
8 9	20 50.06	+19 1.5	1.869	2.758	12.3	20.4	145 E	64	45
8 14	20 45.08	+18 36.3	1.882	2.772	12.2	20.4	145 E	64	45
8 19	20 40.38	+18 4.3	1.902	2.786	12.3	20.5	144 E	63	46
8 24	20 36.09	+17 26.5	1.927	2.800	12.6	20.5	143 E	62	47
8 29	20 32.29	+16 44.1	1.958	2.814	13.1	20.6	141 E	62	47
9 3	20 29.05	+15 58.1	1.994	2.827	13.8	20.6	138 E	61	48
9 8	20 26.42	+15 9.6	2.036	2.840	14.5	20.7	135 E	60	49
9 13	20 24.42	+14 19.7	2.082	2.853	15.2	20.8	132 E	59	50
9 18	20 23.07	+13 29.3	2.133	2.865	16.0	20.9	128 E	58	51
9 23	20 22.37	+12 39.3	2.188	2.878	16.7	21.0	124 E	58	51
9 28	20 22.32	+11 50.5	2.247	2.890	17.4	21.1	121 E	57	52
10 3	20 22.87	+11 3.5	2.309	2.901	17.9	21.2	117 E	56	53
10 8	20 24.01	+10 18.9	2.374	2.913	18.4	21.2	113 E	55	54
10 13	20 25.71	+ 9 37.0	2.442	2.924	18.8	21.3	109 E	55	54
10 18	20 27.92	+ 8 58.1	2.512	2.935	19.1	21.4	105 E	54	55
10 23	20 30.63	+ 8 22.4	2.583	2.945	19.3	21.5	101 E	53	56*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
417264 2006 AT_2									
12 23	17 26.86	−11 15.3	2.383	1.454	10.0	20.5	15 W	9*	—
1 2	17 57.03	−11 43.5	2.447	1.529	10.4	20.7	16 W	10*	—
1 12	18 25.33	−11 53.3	2.507	1.605	11.2	20.9	18 W	12*	3*
1 22	18 51.80	−11 47.3	2.562	1.683	12.2	21.1	21 W	13*	8*
2 1	19 16.49	−11 28.3	2.609	1.761	13.4	21.3	25 W	14*	13*
2 11	19 39.44	−10 58.8	2.645	1.839	14.8	21.5	28 W	15*	18*
174784 2003 WN_{98}									
12 23	17 28.36	−26 58.4	3.329	2.361	3.5	20.3	8 W	—	2*
1 2	17 49.02	−26 33.8	3.342	2.397	5.5	20.5	14 W	—	7*
1 12	18 8.93	−25 59.8	3.341	2.433	7.6	20.6	19 W	3*	13*
1 22	18 28.02	−25 17.3	3.327	2.469	9.7	20.7	25 W	5*	18*
2 1	18 46.20	−24 26.9	3.298	2.503	11.6	20.8	31 W	8*	24*
2 11	19 3.39	−23 29.5	3.256	2.537	13.5	20.9	37 W	10*	30*
2 21	19 19.52	−22 26.0	3.200	2.571	15.3	20.9	43 W	12*	37*
3 2	19 34.50	−21 17.2	3.132	2.603	16.9	21.0	50 W	14*	43*
3 12	19 48.25	−20 4.2	3.053	2.635	18.3	21.0	56 W	15*	50*
3 22	20 0.66	−18 47.9	2.963	2.666	19.5	21.0	63 W	17*	57*
4 1	20 11.61	−17 29.3	2.864	2.695	20.4	21.0	70 W	20*	64*
4 11	20 20.96	−16 9.5	2.758	2.725	21.1	20.9	78 W	22*	70*
4 21	20 28.56	−14 49.5	2.647	2.753	21.3	20.9	85 W	25*	76*
5 1	20 34.23	−13 30.5	2.533	2.780	21.2	20.8	93 W	27*	78
5 11	20 37.77	−12 13.7	2.420	2.807	20.6	20.7	102 W	30*	76
5 21	20 38.99	−11 0.4	2.311	2.832	19.5	20.6	111 W	33*	75
5 31	20 37.73	− 9 52.3	2.210	2.857	17.9	20.4	120 W	35*	74
6 10	20 33.93	− 8 50.9	2.120	2.880	15.7	20.3	130 W	36	73
6 20	20 27.66	− 7 58.0	2.047	2.903	12.9	20.1	140 W	37	72
6 30	20 19.22	− 7 15.1	1.996	2.925	9.8	20.0	151 W	38	71
7 10	20 9.21	− 6 43.4	1.969	2.946	6.7	19.8	160 W	38	71
7 20	19 58.41	− 6 23.4	1.970	2.965	4.8	19.7	166 W	39	70
7 30	19 47.78	− 6 14.6	2.000	2.984	5.8	19.8	163 E	39	70
8 9	19 38.24	− 6 15.2	2.057	3.002	8.5	20.0	154 E	39	70
8 19	19 30.51	− 6 23.2	2.140	3.019	11.3	20.3	144 E	39	70
8 29	19 25.05	− 6 35.8	2.245	3.035	13.8	20.5	134 E	38	71
9 8	19 22.06	− 6 50.4	2.368	3.050	15.9	20.7	124 E	38	71
9 18	19 21.50	− 7 4.7	2.504	3.064	17.3	20.8	115 E	38	71
9 28	19 23.25	− 7 16.8	2.650	3.077	18.3	21.0	106 E	38	71
10 8	19 27.05	− 7 25.1	2.801	3.090	18.7	21.1	97 E	38	71*
10 18	19 32.66	− 7 28.5	2.955	3.101	18.7	21.3	89 E	38	69*
10 28	19 39.84	− 7 25.8	3.107	3.111	18.4	21.4	81 E	38*	63*
11 7	19 48.32	− 7 16.6	3.255	3.120	17.7	21.5	73 E	37*	55*
296318 2009 EN_2									
12 23	17 29.35	− 1 9.2	1.661	0.857	27.4	20.5	24 W	16*	—
12 28	17 55.76	− 2 38.7	1.661	0.833	26.0	20.4	22 W	14*	—
1 2	18 22.20	− 4 9.3	1.668	0.813	24.1	20.3	20 W	12*	—
1 7	18 48.53	− 5 39.4	1.680	0.799	21.8	20.2	18 W	10*	—
1 12	19 14.60	− 7 7.6	1.697	0.791	19.0	20.1	15 W	7*	—
1 17	19 40.33	− 8 32.0	1.718	0.788	15.9	20.0	13 W	5*	—
1 22	20 5.62	− 9 51.1	1.741	0.792	12.7	20.0	10 W	3*	—
1 27	20 30.42	−11 3.5	1.767	0.802	9.5	19.9	8 W	—	—
2 1	20 54.68	−12 8.2	1.794	0.818	6.3	19.8	5 W	—	—
2 11	21 41.52	−13 51.4	1.851	0.865	1.8	19.7	2 E	—	—
2 21	22 26.07	−14 58.1	1.908	0.927	5.3	20.2	5 E	—	—
3 2	23 8.33	−15 30.6	1.964	0.999	9.1	20.6	9 E	—	1*
3 12	23 48.33	−15 33.9	2.021	1.077	12.1	20.9	13 E	—	4*
3 22	0 26.16	−15 14.4	2.077	1.158	14.3	21.2	17 E	—	6*
4 1	1 1.95	−14 38.9	2.134	1.241	15.8	21.5	20 E	—	7*
159927 2005 CL_{57}									
12 23	17 29.70	−22 9.7	3.376	2.405	3.1	20.1	8 W	—	—
1 2	17 50.61	−22 13.1	3.311	2.364	5.4	20.1	13 W	3*	5*
1 12	18 11.93	−22 5.6	3.236	2.322	7.6	20.1	18 W	6*	10*
1 22	18 33.60	−21 46.3	3.150	2.280	9.9	20.1	23 W	8*	16*
2 1	18 55.51	−21 14.9	3.055	2.238	12.1	20.1	28 W	9*	21*
2 11	19 17.59	−20 31.0	2.952	2.196	14.3	20.1	33 W	10*	26*
2 21	19 39.77	−19 34.6	2.843	2.154	16.5	20.0	38 W	12*	32*
3 2	20 1.98	−18 25.6	2.729	2.113	18.6	20.0	43 W	13*	36*
3 12	20 24.15	−17 4.4	2.611	2.071	20.7	19.9	47 W	14*	41*
3 22	20 46.25	−15 31.4	2.489	2.031	22.7	19.8	52 W	15*	46*
4 1	21 8.25	−13 47.0	2.367	1.991	24.6	19.7	56 W	16*	50*
4 11	21 30.11	−11 52.2	2.243	1.952	26.5	19.6	60 W	17*	54*
4 21	21 51.84	− 9 47.9	2.121	1.914	28.3	19.5	64 W	19*	57*
5 1	22 13.43	− 7 35.0	2.000	1.877	29.9	19.4	68 W	21*	60*
5 11	22 34.88	− 5 15.1	1.881	1.842	31.5	19.2	72 W	23*	63*
5 21	22 56.20	− 2 49.5	1.766	1.809	32.9	19.1	76 W	26*	64*
5 31	23 17.35	− 0 20.0	1.654	1.778	34.1	19.0	80 W	29*	63*
6 10	23 38.34	+ 2 11.4	1.546	1.750	35.2	18.8	83 W	33*	62*
6 20	23 59.11	+ 4 42.5	1.444	1.724	36.1	18.7	87 W	38*	59
6 30	0 19.54	+ 7 10.7	1.346	1.701	36.7	18.5	91 W	43*	57
7 10	0 39.51	+ 9 33.2	1.253	1.682	37.0	18.3	95 W	48*	54

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
159927 2005 CL_{57} *(continuation)*									
7 20	0 58.82	+11 47.3	1.165	1.666	37.0	18.1	99 W	54*	52
7 30	1 17.11	+13 49.6	1.083	1.653	36.6	18.0	104 W	58*	50
8 4	1 25.77	+14 45.4	1.044	1.649	36.2	17.9	106 W	59*	49
8 9	1 34.02	+15 37.1	1.006	1.645	35.6	17.8	109 W	61*	48
8 14	1 41.80	+16 24.3	0.970	1.642	35.0	17.7	112 W	61	48
8 19	1 49.01	+17 6.6	0.935	1.640	34.1	17.5	115 W	62	47
8 24	1 55.59	+17 43.5	0.902	1.639	33.1	17.4	118 W	63	46
8 29	2 1.45	+18 14.7	0.871	1.639	31.8	17.3	121 W	63	46
9 3	2 6.52	+18 39.8	0.842	1.641	30.4	17.2	125 W	64	45
9 8	2 10.73	+18 58.5	0.815	1.643	28.7	17.1	128 W	64	45
9 18	2 16.25	+19 15.0	0.767	1.650	24.7	16.9	137 W	64	45
9 28	2 17.72	+19 2.0	0.732	1.661	19.6	16.6	146 W	64	45
10 8	2 15.47	+18 20.5	0.711	1.676	13.6	16.4	157 W	63	46
10 13	2 13.21	+17 50.2	0.707	1.685	10.4	16.2	162 W	63	46
10 18	2 10.43	+17 14.9	0.707	1.694	7.1	16.1	168 W	62	47
10 23	2 7.37	+16 35.9	0.713	1.705	3.8	16.0	173 W	62	47
10 28	2 4.26	+15 55.2	0.723	1.716	1.8	15.9	177 E	61	48
11 2	2 1.34	+15 14.4	0.739	1.728	3.9	16.1	173 E	60	49
11 7	1 58.80	+14 35.3	0.760	1.741	6.9	16.3	168 E	60	49
11 12	1 56.79	+13 59.3	0.786	1.754	9.9	16.5	162 E	59	50
11 17	1 55.46	+13 27.6	0.816	1.768	12.8	16.8	157 E	58	51
11 22	1 54.90	+13 1.4	0.852	1.783	15.4	17.0	151 E	58	51
11 27	1 55.15	+12 41.1	0.892	1.798	17.7	17.2	146 E	58	51
12 7	1 58.05	+12 18.5	0.984	1.831	21.6	17.5	137 E	57	52
12 17	2 3.96	+12 18.6	1.091	1.865	24.6	17.9	128 E	57	52
12 27	2 12.54	+12 38.2	1.210	1.901	26.7	18.2	120 E	58	51
1 6	2 23.32	+13 12.7	1.339	1.938	28.0	18.5	112 E	58	51*
1 16	2 35.91	+13 58.0	1.476	1.977	28.7	18.8	105 E	59	49*
99967 1979 OG_8									
12 23	17 30.69	−11 34.6	3.424	2.481	5.5	20.6	14 W	8*	—
1 2	17 49.36	−12 9.4	3.365	2.445	6.9	20.6	17 W	11*	1*
1 12	18 8.37	−12 34.8	3.294	2.408	8.7	20.6	22 W	14*	7*
1 22	18 27.66	−12 51.0	3.212	2.370	10.6	20.6	26 W	16*	14*
2 1	18 47.17	−12 58.1	3.119	2.332	12.6	20.6	31 W	17*	20*
2 11	19 6.84	−12 56.5	3.017	2.294	14.7	20.5	36 W	18*	26*
2 21	19 26.63	−12 46.7	2.906	2.255	16.7	20.5	41 W	19*	32*
3 2	19 46.49	−12 29.5	2.786	2.215	18.8	20.4	46 W	20*	38*
3 12	20 6.38	−12 6.0	2.661	2.176	20.8	20.3	51 W	20*	43*
3 22	20 26.29	−11 37.3	2.530	2.136	22.7	20.2	56 W	21*	48*
4 1	20 46.20	−11 4.8	2.395	2.096	24.6	20.1	61 W	21*	53*
4 11	21 6.09	−10 30.3	2.257	2.056	26.3	20.0	66 W	22*	58*
4 21	21 26.01	− 9 55.8	2.117	2.017	28.0	19.9	70 W	22*	63*
5 1	21 45.94	− 9 23.5	1.976	1.978	29.5	19.7	75 W	23*	67*
5 11	22 5.91	− 8 56.2	1.837	1.939	30.9	19.6	80 W	24*	70*
5 21	22 25.96	− 8 37.0	1.699	1.901	32.0	19.4	85 W	25*	72*
5 31	22 46.09	− 8 29.8	1.565	1.865	32.9	19.2	90 W	27*	72
6 10	23 6.31	− 8 38.7	1.435	1.829	33.6	19.0	95 W	28*	73
6 20	23 26.60	− 9 8.7	1.312	1.795	33.9	18.8	100 W	30*	73
6 30	23 46.89	−10 5.3	1.196	1.762	33.8	18.5	105 W	31*	74
7 10	0 7.06	−11 34.0	1.090	1.732	33.3	18.3	111 W	31*	76
7 20	0 26.89	−13 39.9	0.994	1.703	32.5	18.0	116 W	31*	78
7 30	0 45.99	−16 26.2	0.911	1.678	31.2	17.8	121 W	29*	80
8 4	0 55.13	−18 4.4	0.875	1.666	30.5	17.6	124 W	27	82
8 9	1 3.90	−19 52.0	0.842	1.655	29.8	17.5	126 W	25	84
8 14	1 12.20	−21 48.1	0.813	1.644	29.0	17.4	128 W	23	86
8 19	1 19.94	−23 51.2	0.788	1.635	28.3	17.3	130 W	21	88
8 24	1 27.00	−25 59.4	0.767	1.626	27.6	17.2	132 W	19	90
8 29	1 33.30	−28 9.9	0.750	1.618	27.1	17.1	133 W	17	88
9 3	1 38.74	−30 20.2	0.736	1.611	26.7	17.1	134 W	15	86
9 8	1 43.24	−32 27.2	0.727	1.605	26.5	17.0	135 W	13	84
9 13	1 46.72	−34 27.8	0.721	1.600	26.4	17.0	135 W	11	82
9 18	1 49.13	−36 19.0	0.719	1.596	26.5	17.0	135 W	9	80
9 23	1 50.49	−37 57.6	0.720	1.592	26.8	17.0	134 W	7	78
9 28	1 50.86	−39 21.0	0.724	1.590	27.2	17.0	134 W	6	77
10 3	1 50.36	−40 27.4	0.731	1.589	27.7	17.1	132 W	5	76
10 8	1 49.14	−41 15.2	0.741	1.588	28.2	17.1	131 W	4	75
10 13	1 47.40	−41 43.6	0.752	1.589	28.8	17.2	130 W	3	74
10 18	1 45.35	−41 51.9	0.767	1.591	29.4	17.2	128 W	3	74
10 23	1 43.26	−41 40.4	0.783	1.593	30.0	17.3	127 E	3	74
10 28	1 41.37	−41 9.9	0.801	1.597	30.5	17.3	125 E	4	75
11 2	1 39.86	−40 21.6	0.822	1.601	31.0	17.4	124 E	5	76
11 7	1 38.87	−39 17.0	0.844	1.607	31.5	17.5	122 E	6	77
11 12	1 38.52	−37 57.6	0.868	1.613	31.9	17.6	120 E	7	78
11 17	1 38.87	−36 25.3	0.894	1.621	32.3	17.7	119 E	9	80
11 22	1 39.98	−34 41.7	0.922	1.629	32.7	17.8	117 E	10	81
11 27	1 41.83	−32 48.9	0.952	1.638	33.0	17.9	115 E	12	83
12 2	1 44.41	−30 48.5	0.985	1.648	33.3	17.9	113 E	14	85
12 7	1 47.67	−28 42.3	1.019	1.658	33.5	18.0	112 E	16	87

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		99967 1979 OG_8 *(continuation)*							
	h m	° ′			°	m	°	°	°
12 12	1 51.56	−26 31.6	1.056	1.670	33.7	18.1	110 E	18	89
12 17	1 56.06	−24 17.9	1.094	1.682	33.8	18.2	108 E	21	88
12 22	2 1.10	−22 2.3	1.136	1.695	33.9	18.3	106 E	23	86
12 27	2 6.66	−19 46.2	1.179	1.708	34.0	18.4	104 E	25	84
1 1	2 12.66	−17 30.6	1.224	1.722	34.0	18.5	102 E	27	82
1 6	2 19.08	−15 16.2	1.272	1.737	33.9	18.6	100 E	30	79*
1 11	2 25.87	−13 3.8	1.322	1.752	33.8	18.7	98 E	32	76*
1 16	2 33.01	−10 54.1	1.374	1.768	33.6	18.8	96 E	34	73*
		162913 2001 MT_{18}							
12 23	17 30.72	−19 4.7	1.875	0.914	9.2	20.0	9 W	2*	—
12 28	17 52.19	−19 7.0	1.921	0.960	8.9	20.1	9 W	2*	—
1 2	18 12.66	−19 0.4	1.966	1.007	8.7	20.3	9 W	2*	—
1 7	18 32.16	−18 46.3	2.010	1.052	8.7	20.4	9 W	2*	—
1 12	18 50.76	−18 25.5	2.052	1.097	8.9	20.6	10 W	3*	1*
1 17	19 8.51	−17 58.9	2.092	1.141	9.2	20.7	11 W	3*	2*
1 22	19 25.46	−17 27.4	2.131	1.183	9.6	20.8	12 W	3*	3*
1 27	19 41.66	−16 51.7	2.166	1.225	10.2	21.0	13 W	4*	4*
2 1	19 57.17	−16 12.3	2.199	1.265	10.8	21.1	14 W	4*	6*
2 6	20 12.02	−15 29.9	2.230	1.305	11.5	21.2	15 W	5*	7*
2 11	20 26.27	−14 45.0	2.257	1.343	12.2	21.3	17 W	5*	9*
2 16	20 39.96	−13 58.0	2.282	1.379	13.0	21.5	18 W	6*	11*
		37384 2001 WU_1							
12 23	17 31.58	−28 18.4	3.884	2.915	2.9	20.4	8 W	—	2*
1 2	17 48.20	−28 54.8	3.915	2.973	4.7	20.5	14 W	—	8*
1 12	18 4.34	−29 25.6	3.929	3.031	6.6	20.7	21 W	1*	15*
1 22	18 19.91	−29 51.9	3.926	3.087	8.5	20.8	28 W	3*	21*
2 1	18 34.81	−30 14.8	3.906	3.142	10.2	20.9	34 W	4*	28*
2 11	18 48.92	−30 35.5	3.870	3.197	11.8	21.0	41 W	5*	35*
2 21	19 2.13	−30 55.4	3.818	3.251	13.2	21.0	49 W	6*	43*
3 2	19 14.33	−31 15.8	3.753	3.303	14.4	21.1	56 W	7*	50*
3 12	19 25.35	−31 38.3	3.675	3.355	15.4	21.1	64 W	7*	57*
3 22	19 35.08	−32 4.3	3.587	3.406	16.1	21.1	72 W	8*	64*
4 1	19 43.34	−32 35.3	3.492	3.456	16.5	21.1	80 W	8*	72*
4 11	19 49.94	−33 12.3	3.392	3.504	16.6	21.1	88 W	9*	78*
4 21	19 54.69	−33 56.5	3.290	3.552	16.3	21.0	97 W	9*	82*
5 1	19 57.39	−34 48.1	3.191	3.599	15.6	21.0	106 W	9*	81
5 11	19 57.84	−35 46.7	3.099	3.646	14.5	20.9	115 W	9*	80
5 21	19 55.92	−36 51.0	3.018	3.691	13.0	20.8	125 W	8*	79
5 31	19 51.55	−37 58.2	2.953	3.735	11.2	20.7	135 W	7	78
6 10	19 44.86	−39 4.4	2.909	3.779	9.1	20.6	144 W	6	77
6 20	19 36.16	−40 5.0	2.888	3.821	6.9	20.5	153 W	5	76
6 30	19 26.02	−40 55.3	2.894	3.863	5.3	20.5	159 W	4	75
7 5	19 20.66	−41 15.5	2.908	3.883	4.9	20.5	161 W	4	75
7 10	19 15.24	−41 31.8	2.930	3.904	4.9	20.5	161 E	3	74
7 15	19 9.88	−41 44.3	2.958	3.924	5.3	20.6	159 E	3	74
7 20	19 4.68	−41 52.9	2.994	3.943	6.0	20.6	156 E	3	74
7 25	18 59.76	−41 57.6	3.036	3.963	6.9	20.7	152 E	3	74
7 30	18 55.20	−41 58.8	3.085	3.983	7.8	20.8	148 E	3	74
8 4	18 51.07	−41 56.7	3.140	4.002	8.7	20.9	144 E	3	74
8 9	18 47.44	−41 51.8	3.202	4.021	9.5	21.0	139 E	3	74
8 14	18 44.35	−41 44.5	3.268	4.040	10.4	21.1	134 E	3	74
8 19	18 41.83	−41 35.0	3.339	4.058	11.1	21.2	129 E	3	74
8 24	18 39.89	−41 23.9	3.415	4.076	11.8	21.2	125 E	4	75
8 29	18 38.53	−41 11.5	3.495	4.095	12.3	21.3	120 E	4	75
9 3	18 37.76	−40 58.1	3.577	4.113	12.8	21.4	115 E	4	75
9 8	18 37.54	−40 44.0	3.663	4.130	13.2	21.5	111 E	4	75
		249772 2000 VF_{62}							
12 23	17 31.82	−42 44.6	3.930	3.027	6.5	21.4	20 W	—	9*
1 2	17 51.98	−42 54.9	3.914	3.033	7.3	21.4	23 W	—	13*
1 12	18 11.95	−43 0.5	3.882	3.037	8.4	21.4	27 W	—	18*
1 22	18 31.61	−43 1.8	3.836	3.040	9.7	21.5	31 W	—	23*
2 1	18 50.84	−42 59.5	3.775	3.043	11.2	21.5	37 W	—	28*
		85274 1994 GH							
12 23	17 33.02	−19 36.5	2.684	1.715	4.5	20.7	8 W	1*	—
1 2	18 1.98	−19 47.9	2.650	1.695	6.3	20.7	11 W	3*	2*
1 12	18 31.31	−19 39.7	2.614	1.677	8.2	20.8	14 W	5*	5*
1 22	19 0.83	−19 11.5	2.576	1.661	10.0	20.8	17 W	6*	9*
2 1	19 30.33	−18 23.6	2.537	1.648	11.9	20.8	20 W	7*	12*
2 11	19 59.64	−17 16.9	2.497	1.637	13.7	20.8	23 W	7*	16*
2 21	20 28.60	−15 52.9	2.457	1.628	15.5	20.9	26 W	8*	19*
3 2	20 57.08	−14 13.5	2.416	1.623	17.3	20.9	29 W	8*	23*
3 12	21 24.99	−12 21.2	2.374	1.620	19.0	20.9	32 W	9*	26*
3 22	21 52.30	−10 18.5	2.333	1.619	20.6	20.9	35 W	9*	29*
4 1	22 18.96	− 8 8.3	2.290	1.622	22.2	20.9	38 W	10*	32*
4 11	22 44.96	− 5 53.3	2.247	1.627	23.8	20.9	41 W	11*	35*
4 21	23 10.33	− 3 36.3	2.203	1.635	25.2	20.9	44 W	11*	38*
5 1	23 35.07	− 1 20.0	2.158	1.646	26.6	21.0	47 W	13*	40*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		85274 1994 GH *(continuation)*							
	h m	° ′			°	m	°	°	°
5 11	23 59.20	+ 0 53.1	2.110	1.659	27.9	21.0	50 W	14*	43*
5 21	0 22.71	+ 3 0.9	2.061	1.674	29.2	21.0	54 W	17*	46*
5 31	0 45.59	+ 5 1.1	2.009	1.692	30.3	21.0	57 W	19*	48*
6 10	1 7.78	+ 6 51.9	1.954	1.712	31.3	21.0	61 W	23*	50*
6 20	1 29.24	+ 8 31.8	1.896	1.733	32.1	20.9	65 W	27*	51*
6 30	1 49.83	+ 9 59.2	1.835	1.756	32.8	20.9	69 W	32*	52*
7 10	2 9.41	+11 13.1	1.770	1.780	33.3	20.9	74 W	37*	52*
7 20	2 27.80	+12 12.7	1.702	1.806	33.5	20.8	79 W	43*	52*
7 30	2 44.73	+12 57.0	1.630	1.833	33.4	20.8	84 W	48*	51
8 9	2 59.92	+13 25.6	1.557	1.860	33.0	20.7	90 W	53*	51
8 19	3 13.00	+13 38.3	1.482	1.889	32.2	20.6	97 W	57*	50
8 29	3 23.53	+13 34.8	1.407	1.918	30.8	20.5	104 W	59*	50
9 8	3 31.11	+13 15.3	1.335	1.947	28.7	20.3	112 W	58	51
9 18	3 35.26	+12 40.3	1.267	1.977	26.0	20.2	120 W	58	51
9 28	3 35.64	+11 50.6	1.208	2.007	22.4	20.0	130 W	57	52
10 8	3 32.15	+10 48.9	1.162	2.036	18.1	19.8	141 W	56	53
10 13	3 29.03	+10 14.7	1.145	2.051	15.6	19.7	146 W	55	54
10 18	3 25.08	+ 9 39.2	1.132	2.066	13.0	19.6	152 W	55	54
10 23	3 20.44	+ 9 3.2	1.126	2.081	10.4	19.5	158 W	54	55
10 28	3 15.27	+ 8 27.8	1.125	2.096	7.8	19.4	163 W	53	56
11 2	3 9.77	+ 7 54.1	1.130	2.111	5.6	19.3	168 W	53	56
11 7	3 4.14	+ 7 23.1	1.142	2.125	4.5	19.3	170 W	52	57
11 12	2 58.57	+ 6 55.7	1.160	2.140	5.1	19.4	169 E	52	57
11 17	2 53.27	+ 6 32.7	1.185	2.154	6.9	19.6	165 E	52	57
11 27	2 44.16	+ 6 2.3	1.253	2.183	11.4	19.9	154 E	51	58
12 7	2 37.78	+ 5 53.9	1.344	2.211	15.6	20.2	143 E	51	58
12 17	2 34.56	+ 6 6.4	1.454	2.239	18.9	20.5	132 E	51	58
12 27	2 34.53	+ 6 36.9	1.579	2.266	21.4	20.8	123 E	52	57
1 6	2 37.41	+ 7 21.5	1.715	2.292	23.2	21.1	114 E	52	57
1 16	2 42.85	+ 8 16.6	1.860	2.318	24.2	21.3	105 E	53	55*
		5332 Davidaguilar							
12 23	17 33.22	− 5 46.6	4.020	3.107	5.9	20.6	19 W	12*	—
1 2	17 47.06	− 5 58.5	4.004	3.117	6.9	20.7	22 W	16*	—
1 12	18 0.66	− 6 1.6	3.972	3.126	8.2	20.7	27 W	20*	6*
1 22	18 13.92	− 5 56.3	3.922	3.134	9.6	20.8	32 W	23*	14*
2 1	18 26.76	− 5 43.0	3.856	3.140	11.2	20.8	38 W	26*	21*
2 11	18 39.03	− 5 22.1	3.775	3.145	12.6	20.8	44 W	28*	29*
2 21	18 50.65	− 4 54.5	3.680	3.148	14.1	20.8	51 W	30*	37*
3 2	19 1.47	− 4 20.6	3.572	3.151	15.4	20.8	57 W	32*	44*
3 12	19 11.37	− 3 41.6	3.452	3.152	16.5	20.8	64 W	34*	51*
3 22	19 20.19	− 2 58.3	3.323	3.151	17.4	20.7	71 W	36*	57*
4 1	19 27.76	− 2 12.0	3.187	3.149	18.1	20.6	79 W	38*	62*
4 11	19 33.91	− 1 24.2	3.045	3.146	18.5	20.6	86 W	40*	65*
4 21	19 38.45	− 0 36.5	2.901	3.141	18.6	20.5	94 W	42*	65
5 1	19 41.16	+ 0 8.9	2.757	3.135	18.3	20.3	103 W	44*	64
5 11	19 41.86	+ 0 49.6	2.618	3.128	17.5	20.2	111 W	46*	63
5 21	19 40.36	+ 1 22.7	2.487	3.120	16.3	20.0	120 W	46	63
5 31	19 36.58	+ 1 44.9	2.368	3.110	14.6	19.9	129 W	47	62
6 10	19 30.55	+ 1 52.6	2.265	3.098	12.6	19.7	138 W	47	62
6 20	19 22.51	+ 1 42.8	2.183	3.085	10.3	19.5	147 W	47	62
6 30	19 12.91	+ 1 13.3	2.125	3.071	8.3	19.4	154 W	46	63
7 10	19 2.48	+ 0 23.8	2.094	3.056	7.4	19.3	157 E	45	64
7 20	18 52.06	− 0 44.0	2.091	3.039	8.3	19.3	154 E	44	65
7 30	18 42.54	− 2 6.3	2.115	3.020	10.4	19.4	147 E	43	66
8 4	18 38.36	− 2 51.4	2.138	3.011	11.7	19.5	143 E	42	67
8 9	18 34.67	− 3 38.1	2.166	3.001	12.9	19.5	138 E	41	68
8 14	18 31.52	− 4 26.0	2.199	2.990	14.2	19.6	134 E	41	68
8 19	18 28.96	− 5 14.3	2.238	2.980	15.3	19.7	129 E	40	69
8 29	18 25.72	− 6 50.5	2.327	2.957	17.3	19.8	119 E	38	71
9 8	18 25.01	− 8 23.1	2.430	2.933	18.8	19.9	110 E	37	72
9 18	18 26.74	− 9 49.9	2.541	2.908	19.8	20.0	101 E	35	74
9 28	18 30.77	−11 9.1	2.656	2.881	20.3	20.1	93 E	34*	75*
10 8	18 36.86	−12 19.8	2.772	2.853	20.4	20.2	84 E	32*	71*
10 18	18 44.81	−13 21.4	2.885	2.823	20.1	20.3	76 E	31*	65*
10 28	18 54.40	−14 13.6	2.993	2.792	19.4	20.3	69 E	29*	58*
11 7	19 5.43	−14 56.2	3.092	2.759	18.4	20.3	61 E	28*	50*
11 17	19 17.72	−15 29.1	3.181	2.725	17.1	20.3	54 E	26*	42*
11 27	19 31.10	−15 52.2	3.259	2.690	15.7	20.3	47 E	24*	35*
12 7	19 45.42	−16 5.7	3.323	2.653	14.0	20.2	41 E	22*	28*
12 17	20 0.56	−16 9.7	3.372	2.614	12.1	20.2	34 E	19*	21*
12 27	20 16.40	−16 4.4	3.407	2.575	10.2	20.1	27 E	16*	14*
1 6	20 32.84	−15 50.2	3.425	2.533	8.1	20.0	21 E	12*	9*
1 16	20 49.81	−15 27.5	3.427	2.490	5.9	19.8	15 E	7*	4*
		385343 2002 LV							
12 23	17 33.36	− 7 40.5	2.587	1.673	10.0	20.4	17 W	10*	—
1 2	18 0.60	− 8 54.8	2.495	1.588	11.0	20.3	18 W	12*	—
1 12	18 29.73	− 9 58.4	2.400	1.503	12.2	20.1	19 W	13*	1*
1 22	19 0.93	−10 49.9	2.304	1.417	13.5	20.0	20 W	12*	5*

385343 2002 *LV* *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 1	19 34.36	−11 27.4	2.210	1.332	14.9	19.8	20 W	11*	9*
2 11	20 10.17	−11 48.8	2.120	1.248	16.4	19.6	21 W	10*	11*
2 21	20 48.51	−11 51.9	2.036	1.168	17.7	19.4	21 W	8*	13*
3 2	21 29.41	−11 33.7	1.961	1.093	18.8	19.2	21 W	5*	14*
3 12	22 12.78	−10 51.5	1.899	1.027	19.7	19.0	20 W	2*	14*
3 22	22 58.33	− 9 42.9	1.852	0.973	20.2	18.9	20 W	—	14*
4 1	23 45.50	− 8 6.7	1.822	0.935	20.3	18.8	19 W	—	12*
4 11	0 33.47	− 6 5.2	1.812	0.916	20.1	18.7	18 W	—	10*
4 16	0 57.45	− 4 56.4	1.815	0.915	19.8	18.7	18 W	—	9*
4 21	1 21.27	− 3 43.7	1.823	0.918	19.5	18.7	18 W	—	9*
4 26	1 44.79	− 2 28.2	1.835	0.927	19.2	18.7	18 W	—	8*
5 1	2 7.92	− 1 11.5	1.853	0.941	18.7	18.8	17 W	—	7*
5 6	2 30.57	+ 0 5.1	1.875	0.960	18.2	18.8	17 W	—	6*
5 11	2 52.64	+ 1 20.4	1.901	0.983	17.7	18.9	17 W	—	6*
5 16	3 14.11	+ 2 33.1	1.931	1.009	17.1	19.0	17 W	—	5*
5 21	3 34.92	+ 3 42.2	1.964	1.039	16.5	19.0	17 W	—	5*
5 26	3 55.06	+ 4 46.9	2.001	1.072	15.9	19.1	17 W	—	5*
5 31	4 14.50	+ 5 46.5	2.039	1.107	15.3	19.2	17 W	—	5*
6 10	4 51.30	+ 7 29.6	2.121	1.183	14.0	19.4	16 W	—	6*
6 20	5 25.44	+ 8 50.2	2.207	1.264	13.0	19.6	16 W	—	7*
6 30	5 57.05	+ 9 49.4	2.293	1.348	12.3	19.8	16 W	—	9*
7 10	6 26.32	+10 29.1	2.374	1.433	12.0	20.0	17 W	—	10*
7 20	6 53.44	+10 52.0	2.449	1.519	12.2	20.2	18 W	—	12*
7 30	7 18.59	+11 0.7	2.515	1.605	12.8	20.4	21 W	1*	14*
8 9	7 41.93	+10 57.9	2.571	1.689	13.8	20.6	23 W	6*	16*
8 19	8 3.62	+10 46.2	2.613	1.772	15.0	20.8	27 W	11*	19*
8 29	8 23.74	+10 28.0	2.642	1.854	16.4	20.9	31 W	17*	21*
9 8	8 42.38	+10 5.5	2.656	1.933	17.8	21.1	36 W	22*	23*
9 18	8 59.62	+ 9 40.8	2.655	2.011	19.2	21.2	41 W	28*	26*
9 28	9 15.45	+ 9 16.1	2.638	2.087	20.5	21.3	47 W	34*	28*
10 8	9 29.86	+ 8 53.7	2.606	2.161	21.7	21.4	53 W	39*	31*
10 18	9 42.82	+ 8 35.7	2.560	2.233	22.7	21.5	60 W	45*	35*

30800 1989 *ST*

12 23	17 33.47	−24 50.9	2.788	1.815	3.7	18.5	7 W	—	—
1 2	18 2.01	−24 47.6	2.747	1.789	5.7	18.5	10 W	—	4*
1 12	18 30.91	−24 24.0	2.702	1.764	7.7	18.5	14 W	1*	7*
1 22	18 59.99	−23 39.6	2.655	1.741	9.8	18.6	17 W	2*	11*
2 1	19 29.02	−22 34.4	2.605	1.721	11.8	18.6	21 W	3*	14*
2 11	19 57.82	−21 9.0	2.554	1.702	13.7	18.6	24 W	4*	18*
2 21	20 26.24	−19 24.5	2.502	1.686	15.6	18.6	27 W	5*	21*
3 2	20 54.14	−17 22.8	2.449	1.673	17.5	18.6	30 W	6*	24*
3 12	21 21.44	−15 6.0	2.396	1.662	19.3	18.6	34 W	7*	27*
3 22	21 48.10	−12 36.3	2.344	1.654	21.0	18.6	37 W	8*	31*
4 1	22 14.09	− 9 56.6	2.291	1.649	22.7	18.6	40 W	9*	33*
4 11	22 39.42	− 7 9.4	2.238	1.647	24.3	18.6	43 W	10*	36*
4 21	23 4.14	− 4 17.6	2.186	1.648	25.8	18.6	46 W	12*	39*
5 1	23 28.24	− 1 23.7	2.133	1.652	27.3	18.6	49 W	14*	42*
5 11	23 51.77	+ 1 29.6	2.081	1.659	28.6	18.5	52 W	16*	44*
5 21	0 14.74	+ 4 20.1	2.027	1.668	29.8	18.5	55 W	19*	46*
5 31	0 37.16	+ 7 5.6	1.972	1.681	30.9	18.5	58 W	22*	48*
6 10	0 58.98	+ 9 44.0	1.916	1.696	31.9	18.5	62 W	26*	48*
6 20	1 20.17	+12 14.0	1.857	1.713	32.8	18.5	66 W	31*	49*
6 30	1 40.61	+14 33.9	1.797	1.733	33.4	18.5	70 W	37*	48*
7 10	2 0.18	+16 42.9	1.734	1.755	33.9	18.4	74 W	43*	47*
7 20	2 18.67	+18 40.2	1.669	1.779	34.1	18.4	79 W	49*	45*
7 30	2 35.82	+20 25.3	1.601	1.804	34.0	18.3	84 W	56*	44
8 9	2 51.31	+21 57.9	1.531	1.831	33.6	18.2	90 W	62*	42
8 19	3 4.74	+23 18.1	1.460	1.860	32.8	18.1	96 W	67*	41
8 29	3 15.63	+24 25.5	1.389	1.889	31.4	18.0	103 W	69	40
9 8	3 23.48	+25 19.9	1.319	1.919	29.5	17.9	110 W	70	39
9 18	3 27.76	+26 0.4	1.254	1.950	26.8	17.7	119 W	71	38
9 28	3 28.02	+26 24.8	1.197	1.982	23.3	17.6	128 W	71	38
10 8	3 24.14	+26 30.8	1.151	2.014	19.0	17.4	139 W	72	37
10 18	3 16.42	+26 15.3	1.121	2.047	14.0	17.2	150 W	71	38
10 23	3 11.41	+25 59.0	1.114	2.063	11.3	17.1	156 W	71	38
10 28	3 5.88	+25 37.2	1.112	2.079	8.6	17.0	162 W	71	38
11 2	3 0.04	+25 10.6	1.116	2.095	6.0	16.9	167 W	70	39
11 7	2 54.13	+24 39.7	1.127	2.112	4.0	16.8	172 W	70	39
11 12	2 48.38	+24 5.8	1.144	2.128	3.7	16.9	172 E	69	40
11 17	2 42.99	+23 30.1	1.167	2.144	5.4	17.0	168 E	69	40
11 22	2 38.17	+22 54.0	1.197	2.161	7.7	17.2	163 E	68	41
11 27	2 34.06	+22 18.8	1.233	2.177	10.1	17.4	157 E	67	42
12 2	2 30.75	+21 45.7	1.275	2.193	12.3	17.6	152 E	67	42
12 7	2 28.29	+21 15.5	1.323	2.209	14.4	17.7	146 E	66	43
12 17	2 25.97	+20 26.6	1.432	2.241	18.0	18.1	135 E	65	44
12 27	2 27.03	+19 54.7	1.558	2.273	20.7	18.4	125 E	65	44
1 6	2 31.09	+19 39.7	1.696	2.304	22.6	18.6	116 E	65	44
1 16	2 37.71	+19 39.5	1.844	2.335	23.7	18.9	107 E	65	44*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	17 33.94	−25 44.7	2.571	1.598	4.2	19.9	7 W	—	1*
1 2	18 6.46	−25 54.8	2.537	1.576	6.0	20.0	10 W	—	3*
1 12	18 39.44	−25 38.6	2.503	1.557	7.7	20.0	12 W	—	6*
1 22	19 12.56	−24 55.5	2.470	1.540	9.5	20.0	15 W	—	9*
2 1	19 45.48	−23 46.0	2.438	1.527	11.2	20.0	17 W	—	11*
2 11	20 17.89	−22 11.5	2.408	1.518	12.8	20.1	20 W	1*	14*
2 21	20 49.58	−20 14.6	2.379	1.512	14.4	20.1	22 W	1*	16*
3 2	21 20.35	−17 58.3	2.352	1.510	16.0	20.1	25 W	2*	19*
3 12	21 50.13	−15 26.3	2.326	1.512	17.5	20.1	27 W	2*	21*
3 22	22 18.88	−12 42.4	2.301	1.518	19.0	20.2	30 W	3*	24*
4 1	22 46.62	− 9 50.3	2.278	1.527	20.4	20.2	32 W	4*	26*
4 11	23 13.39	− 6 53.8	2.254	1.540	21.8	20.3	35 W	5*	29*
4 21	23 39.27	− 3 56.0	2.230	1.557	23.1	20.3	37 W	6*	31*
5 1	0 4.31	− 1 0.0	2.204	1.576	24.4	20.3	40 W	8*	34*
5 11	0 28.58	+ 1 51.7	2.177	1.598	25.6	20.4	43 W	10*	37*
5 21	0 52.14	+ 4 37.0	2.147	1.623	26.8	20.4	46 W	13*	39*
5 31	1 14.99	+ 7 14.0	2.114	1.651	27.9	20.5	50 W	16*	41*
6 10	1 37.14	+ 9 41.4	2.077	1.680	29.0	20.5	53 W	20*	43*
6 20	1 58.57	+11 58.2	2.035	1.711	29.9	20.5	57 W	24*	44*
6 30	2 19.18	+14 3.7	1.988	1.743	30.7	20.5	61 W	30*	45*
7 10	2 38.89	+15 57.6	1.936	1.777	31.4	20.5	66 W	36*	45*
7 20	2 57.55	+17 39.9	1.879	1.811	31.9	20.5	70 W	42*	45*
7 30	3 14.93	+19 10.8	1.816	1.847	32.2	20.5	76 W	49*	44*
8 9	3 30.80	+20 30.8	1.749	1.882	32.2	20.4	81 W	55*	43*
8 19	3 44.84	+21 40.8	1.678	1.919	31.8	20.4	87 W	61*	42
8 29	3 56.67	+22 41.5	1.603	1.955	31.0	20.3	94 W	66*	41
9 8	4 5.85	+23 33.9	1.528	1.991	29.7	20.2	102 W	69	40
9 18	4 11.90	+24 18.4	1.454	2.027	27.8	20.1	110 W	69	40
9 28	4 14.32	+24 54.8	1.384	2.063	25.2	19.9	119 W	70	39
10 8	4 12.74	+25 22.4	1.322	2.099	21.8	19.8	129 W	70	39
10 18	4 7.03	+25 38.7	1.273	2.134	17.5	19.6	140 W	71	38
10 28	3 57.55	+25 40.9	1.242	2.168	12.5	19.4	152 W	71	38
11 2	3 51.69	+25 36.1	1.234	2.185	9.8	19.3	158 W	71	38
11 7	3 45.33	+25 27.3	1.233	2.202	7.1	19.2	164 W	70	39
11 12	3 38.68	+25 14.6	1.238	2.219	4.5	19.1	170 W	70	39
11 17	3 31.97	+24 58.5	1.250	2.236	2.7	19.0	174 W	70	39
11 22	3 25.44	+24 39.7	1.269	2.252	3.2	19.1	173 E	70	39
11 27	3 19.32	+24 19.2	1.295	2.268	5.4	19.3	167 E	69	40
12 2	3 13.78	+23 58.0	1.327	2.284	7.8	19.5	162 E	69	40
12 7	3 8.96	+23 37.1	1.366	2.300	10.2	19.6	156 E	69	40
12 12	3 4.96	+23 17.2	1.411	2.315	12.4	19.8	150 E	68	41
12 17	3 1.83	+22 59.3	1.462	2.331	14.4	20.0	144 E	68	41
12 22	2 59.62	+22 43.9	1.518	2.346	16.2	20.1	138 E	68	41
12 27	2 58.31	+22 31.3	1.578	2.361	17.7	20.3	133 E	68	41
1 1	2 57.86	+22 21.9	1.642	2.375	19.1	20.4	128 E	67	42
1 6	2 58.24	+22 15.6	1.710	2.390	20.2	20.6	123 E	67	42
1 11	2 59.40	+22 12.4	1.780	2.404	21.2	20.7	118 E	67	42
1 16	3 1.28	+22 12.2	1.853	2.418	21.9	20.8	113 E	67	42*

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12 23	17 34.07	−31 50.4	2.639	1.681	6.1	19.5	10 W	—	4*
1 2	18 6.85	−32 57.1	2.606	1.664	7.8	19.5	13 W	—	7*
1 12	18 40.75	−33 37.3	2.571	1.650	9.5	19.6	16 W	—	9*
1 22	19 15.39	−33 48.8	2.537	1.638	11.3	19.6	19 W	—	12*
2 1	19 50.31	−33 30.9	2.504	1.630	12.9	19.6	22 W	—	14*
2 11	20 25.00	−32 44.0	2.472	1.625	14.5	19.6	24 W	—	16*
2 21	20 59.02	−31 29.8	2.442	1.623	16.0	19.7	27 W	—	18*
3 2	21 32.01	−29 51.5	2.414	1.625	17.4	19.7	29 W	—	20*
3 12	22 3.68	−27 53.0	2.387	1.630	18.8	19.7	32 W	—	23*
3 22	22 33.92	−25 38.5	2.362	1.639	20.1	19.7	34 W	—	25*
4 1	23 2.65	−23 12.6	2.337	1.650	21.3	19.8	37 W	—	27*
4 11	23 29.88	−20 39.6	2.313	1.665	22.5	19.8	39 W	—	30*
4 21	23 55.68	−18 3.2	2.287	1.682	23.6	19.8	42 W	—	33*
5 1	0 20.12	−15 26.9	2.260	1.702	24.7	19.9	45 W	—	37*
5 11	0 43.26	−12 53.6	2.230	1.725	25.8	19.9	48 W	—	41*
5 21	1 5.19	−10 25.4	2.197	1.750	26.8	19.9	51 W	—	45*
5 31	1 25.92	− 8 4.2	2.159	1.776	27.7	20.0	55 W	3*	49*
6 10	1 45.48	− 5 51.3	2.116	1.805	28.6	20.0	58 W	7*	52*
6 20	2 3.86	− 3 47.4	2.067	1.835	29.4	20.0	63 W	12*	56*
6 30	2 20.98	− 1 53.3	2.012	1.866	30.1	20.0	67 W	18*	58*
7 10	2 36.75	− 0 8.9	1.952	1.899	30.6	20.0	72 W	24*	60*
7 20	2 51.03	+ 1 25.9	1.885	1.932	30.8	19.9	77 W	31*	61*
7 30	3 3.59	+ 2 51.5	1.813	1.966	30.8	19.9	83 W	37*	61*
8 9	3 14.19	+ 4 8.8	1.736	2.001	30.4	19.8	89 W	43*	60
8 19	3 22.48	+ 5 18.8	1.657	2.036	29.6	19.7	96 W	48*	59
8 29	3 28.05	+ 6 22.6	1.577	2.071	28.2	19.6	104 W	51*	58
9 8	3 30.51	+ 7 22.0	1.499	2.106	26.1	19.5	113 W	52	57
9 18	3 29.41	+ 8 18.0	1.426	2.142	23.3	19.3	123 W	53	56
9 28	3 24.46	+ 9 12.1	1.365	2.177	19.6	19.2	133 W	54	55
10 8	3 15.71	+10 4.9	1.319	2.212	15.1	19.0	145 W	55	54
10 18	3 3.64	+10 56.3	1.294	2.247	9.8	18.8	157 W	56	53
10 28	2 49.41	+11 45.8	1.296	2.282	4.2	18.5	170 W	57	52

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
216722 2005 EC_{286} *(continuation)*									
11 2	2 41.98	+12 9.8	1.308	2.299	1.7	18.4	176 W	57	52
11 7	2 34.64	+12 33.4	1.327	2.316	2.2	18.5	175 E	58	51
11 12	2 27.59	+12 56.5	1.353	2.333	4.7	18.7	169 E	58	51
11 17	2 21.03	+13 19.5	1.387	2.349	7.2	18.9	163 E	58	51
11 27	2 9.97	+14 5.9	1.475	2.382	11.9	19.2	150 E	59	50
12 7	2 2.24	+14 54.6	1.587	2.415	15.7	19.6	139 E	60	49
12 17	1 58.01	+15 47.0	1.718	2.447	18.6	19.9	128 E	61	48
12 27	1 57.16	+16 44.2	1.864	2.478	20.6	20.1	118 E	62	47
1 6	1 59.29	+17 46.1	2.020	2.508	21.9	20.4	108 E	63	46*
1 16	2 4.00	+18 52.3	2.182	2.538	22.5	20.6	100 E	64	43*
306517 1999 WY									
12 23	17 34.09	−31 29.0	3.732	2.769	3.6	19.9	10 W	—	3*
1 2	17 52.88	−31 2.2	3.667	2.726	5.2	19.9	14 W	—	8*
1 12	18 11.75	−30 27.4	3.588	2.682	7.1	19.9	20 W	—	14*
1 22	18 30.61	−29 43.9	3.494	2.638	9.2	19.9	25 W	1*	19*
2 1	18 49.36	−28 51.3	3.387	2.593	11.3	19.9	31 W	4*	25*
2 11	19 7.90	−27 49.0	3.268	2.547	13.4	19.9	37 W	5*	31*
2 21	19 26.16	−26 36.7	3.138	2.500	15.5	19.8	43 W	7*	37*
3 2	19 44.04	−25 14.1	2.998	2.453	17.6	19.8	48 W	9*	42*
3 12	20 1.47	−23 40.7	2.850	2.405	19.5	19.7	54 W	11*	48*
3 22	20 18.38	−21 56.2	2.695	2.356	21.4	19.6	60 W	13*	54*
4 1	20 34.69	−20 0.2	2.535	2.308	23.2	19.4	65 W	15*	59*
4 11	20 50.31	−17 51.8	2.372	2.258	24.8	19.3	71 W	17*	65*
4 21	21 5.18	−15 30.2	2.208	2.209	26.3	19.1	77 W	20*	70*
5 1	21 19.18	−12 54.3	2.043	2.159	27.6	19.0	83 W	23*	73*
5 11	21 32.20	−10 2.7	1.881	2.110	28.6	18.8	88 W	27*	74*
5 21	21 44.10	− 6 53.4	1.722	2.060	29.3	18.5	94 W	32*	71
5 31	21 54.66	− 3 24.3	1.570	2.011	29.8	18.3	100 W	37*	67
6 10	22 3.65	+ 0 26.8	1.425	1.963	29.8	18.0	106 W	43*	64
6 20	22 10.74	+ 4 42.2	1.291	1.915	29.6	17.8	112 W	49*	59
6 30	22 15.51	+ 9 22.6	1.168	1.868	28.9	17.5	117 W	54*	55
7 10	22 17.49	+14 26.9	1.061	1.823	28.0	17.2	123 W	59	50
7 15	22 17.26	+17 6.5	1.013	1.801	27.5	17.0	125 W	62	47
7 20	22 16.11	+19 49.4	0.969	1.779	27.0	16.9	127 W	65	44
7 25	22 13.98	+22 33.8	0.930	1.758	26.6	16.8	129 W	68	41
7 30	22 10.84	+25 17.6	0.896	1.737	26.3	16.7	131 W	70	39
8 4	22 6.69	+27 58.2	0.866	1.717	26.2	16.6	132 W	73	36
8 9	22 1.53	+30 32.6	0.841	1.698	26.2	16.5	132 W	76	33
8 14	21 55.43	+32 57.8	0.820	1.679	26.4	16.4	132 W	78	31
8 19	21 48.53	+35 10.6	0.804	1.662	26.9	16.3	132 E	80	29
8 24	21 41.05	+37 8.5	0.792	1.644	27.6	16.3	131 E	82	27
8 29	21 33.28	+38 49.5	0.784	1.628	28.4	16.3	130 E	84	25
9 3	21 25.57	+40 12.8	0.778	1.613	29.3	16.3	129 E	85	24
9 8	21 18.24	+41 18.1	0.776	1.599	30.3	16.3	127 E	86	23
9 13	21 11.65	+42 6.0	0.776	1.585	31.3	16.3	125 E	87	22
9 18	21 6.12	+42 37.8	0.779	1.573	32.3	16.3	123 E	88	21
9 23	21 1.95	+42 55.5	0.783	1.562	33.2	16.3	121 E	88	21
9 28	20 59.32	+43 1.2	0.788	1.552	34.1	16.4	120 E	88	21
10 3	20 58.35	+42 57.3	0.795	1.543	34.9	16.4	118 E	88	21
10 8	20 59.08	+42 45.4	0.802	1.535	35.6	16.4	117 E	88	21
10 13	21 1.54	+42 27.4	0.811	1.529	36.2	16.4	115 E	87	22
10 18	21 5.70	+42 4.7	0.820	1.524	36.7	16.5	114 E	87	22
10 23	21 11.53	+41 38.5	0.829	1.521	37.2	16.5	113 E	87	22
10 28	21 18.93	+41 10.0	0.840	1.518	37.5	16.5	112 E	86	23
11 2	21 27.81	+40 39.7	0.851	1.517	37.8	16.6	111 E	86	23
11 7	21 38.06	+40 8.0	0.864	1.518	38.0	16.6	110 E	85	24*
11 12	21 49.57	+39 35.1	0.877	1.519	38.1	16.7	109 E	85	24*
11 17	22 2.24	+39 1.3	0.893	1.523	38.2	16.7	108 E	84	24*
11 22	22 15.93	+38 26.7	0.909	1.527	38.2	16.7	107 E	83	25*
11 27	22 30.51	+37 51.5	0.928	1.533	38.2	16.8	106 E	83	25*
12 2	22 45.81	+37 15.7	0.949	1.540	38.1	16.9	105 E	82	25*
12 7	23 1.71	+36 39.2	0.973	1.548	38.0	16.9	105 E	82	25*
12 12	23 18.06	+36 2.1	0.999	1.558	37.9	17.0	104 E	81	25*
12 17	23 34.73	+35 24.8	1.028	1.568	37.8	17.1	102 E	80	26*
12 22	23 51.60	+34 47.5	1.060	1.580	37.6	17.1	101 E	80	26*
12 27	0 8.54	+34 10.4	1.095	1.593	37.4	17.2	100 E	79	26*
1 1	0 25.45	+33 33.7	1.134	1.607	37.2	17.3	99 E	79	26*
1 6	0 42.23	+32 57.5	1.175	1.622	37.0	17.4	97 E	78	26*
1 11	0 58.82	+32 22.2	1.220	1.638	36.7	17.5	95 E	77	26*
1 16	1 15.18	+31 47.9	1.268	1.655	36.4	17.6	94 E	77	27*
23250 2000 WQ_{181}									
12 23	17 34.81	− 6 27.4	3.808	2.890	6.1	20.7	18 W	11*	—
1 2	17 50.32	− 6 36.5	3.801	2.906	7.1	20.7	21 W	15*	—
1 12	18 5.55	− 6 36.4	3.778	2.922	8.3	20.8	26 W	19*	5*
1 22	18 20.41	− 6 27.2	3.742	2.937	9.8	20.8	31 W	22*	12*
2 1	18 34.79	− 6 9.5	3.690	2.951	11.3	20.9	36 W	24*	20*
2 11	18 48.59	− 5 44.0	3.624	2.964	12.8	20.9	42 W	27*	27*
2 21	19 1.72	− 5 11.3	3.546	2.975	14.3	20.9	48 W	29*	34*
3 2	19 14.04	− 4 32.2	3.455	2.986	15.6	20.9	54 W	31*	41*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
23250 2000 WQ_{181} *(continuation)*									
3 12	19 25.44	− 3 47.8	3.353	2.996	16.8	20.9	61 W	32*	48*
3 22	19 35.80	− 2 59.1	3.241	3.005	17.8	20.9	68 W	34*	54*
4 1	19 44.96	− 2 7.4	3.122	3.013	18.6	20.8	75 W	36*	59*
4 11	19 52.77	− 1 14.3	2.996	3.020	19.2	20.8	82 W	38*	63*
4 21	19 59.05	− 0 21.3	2.867	3.026	19.4	20.7	89 W	41*	64*
5 1	20 3.61	+ 0 29.4	2.737	3.031	19.3	20.6	97 W	43*	64
5 11	20 6.27	+ 1 15.4	2.609	3.035	18.7	20.5	105 W	45*	63
5 21	20 6.86	+ 1 54.1	2.485	3.038	17.7	20.3	114 W	47*	62
5 31	20 5.23	+ 2 22.2	2.371	3.040	16.3	20.2	123 W	47	62
6 10	20 1.38	+ 2 36.4	2.270	3.042	14.4	20.0	132 W	48	61
6 20	19 55.43	+ 2 33.5	2.185	3.042	12.2	19.8	141 W	48	61
6 30	19 47.68	+ 2 10.8	2.122	3.041	9.8	19.7	149 W	47	62
7 10	19 38.71	+ 1 27.5	2.083	3.039	7.9	19.6	156 W	46	63
7 20	19 29.27	+ 0 24.8	2.071	3.036	7.3	19.5	158 E	45	64
7 30	19 20.20	− 0 54.3	2.087	3.033	8.4	19.6	154 E	44	65
8 4	19 16.07	− 1 38.4	2.105	3.030	9.4	19.6	151 E	43	66
8 9	19 12.32	− 2 24.6	2.129	3.028	10.6	19.7	147 E	43	66
8 14	19 9.01	− 3 12.3	2.160	3.025	11.8	19.8	142 E	42	67
8 19	19 6.22	− 4 0.7	2.196	3.022	13.0	19.9	138 E	41	68
8 29	19 2.35	− 5 37.2	2.284	3.016	15.2	20.0	128 E	39	70
9 8	19 0.87	− 7 10.0	2.388	3.008	17.0	20.2	119 E	38	71
9 18	19 1.76	− 8 36.1	2.505	2.999	18.4	20.3	110 E	36	73
9 28	19 4.93	− 9 53.6	2.631	2.990	19.2	20.5	101 E	35	74
10 8	19 10.17	−11 1.2	2.761	2.979	19.6	20.6	93 E	34	74*
10 18	19 17.24	−11 58.4	2.893	2.968	19.5	20.7	84 E	33*	70*
10 28	19 25.95	−12 45.0	3.022	2.955	19.1	20.7	77 E	32*	63*
11 7	19 36.05	−13 21.0	3.147	2.942	18.3	20.8	69 E	31*	56*
11 17	19 47.34	−13 46.5	3.264	2.927	17.3	20.8	62 E	30*	48*
11 27	19 59.66	−14 1.8	3.372	2.912	16.0	20.8	54 E	28*	41*
12 7	20 12.80	−14 7.2	3.469	2.896	14.5	20.8	47 E	26*	33*
12 17	20 26.65	−14 3.2	3.554	2.878	12.9	20.8	41 E	24*	26*
12 27	20 41.06	−13 50.3	3.624	2.860	11.0	20.8	34 E	21*	19*
1 6	20 55.90	−13 29.1	3.680	2.841	9.1	20.7	27 E	17*	13*
1 16	21 11.11	−13 0.2	3.719	2.821	7.1	20.6	21 E	13*	7*
334055 2001 OK_{21}									
12 23	17 35.14	−27 5.9	2.835	1.863	3.8	20.9	7 W	—	1*
1 2	18 3.65	−26 59.8	2.787	1.829	5.7	20.9	11 W	—	4*
1 12	18 32.64	−26 33.2	2.735	1.796	7.6	20.9	14 W	—	8*
1 22	19 1.92	−25 45.1	2.679	1.765	9.6	20.9	17 W	—	11*
2 1	19 31.26	−24 35.2	2.622	1.737	11.6	20.9	21 W	2*	15*
2 11	20 0.45	−23 3.8	2.563	1.710	13.6	20.9	24 W	3*	18*
2 21	20 29.32	−21 11.7	2.504	1.686	15.5	20.9	27 W	3*	21*
3 2	20 57.73	−19 0.5	2.445	1.665	17.4	20.9	30 W	4*	24*
3 12	21 25.58	−16 32.1	2.387	1.647	19.2	20.8	33 W	5*	27*
3 22	21 52.82	−13 49.1	2.330	1.632	21.0	20.8	36 W	6*	30*
4 1	22 19.43	−10 54.0	2.275	1.621	22.7	20.8	39 W	8*	33*
4 11	22 45.41	− 7 49.8	2.221	1.613	24.3	20.8	41 W	9*	35*
4 21	23 10.82	− 4 39.4	2.169	1.609	25.8	20.8	44 W	11*	38*
5 1	23 35.67	− 1 25.8	2.118	1.609	27.2	20.8	47 W	13*	40*
5 11	24 0.00	+ 1 48.1	2.068	1.613	28.6	20.8	50 W	15*	42*
5 21	0 23.86	+ 4 59.7	2.019	1.620	29.8	20.8	53 W	18*	44*
5 31	0 47.24	+ 8 6.5	1.970	1.631	30.9	20.8	56 W	21*	45*
6 10	1 10.15	+11 6.1	1.920	1.646	31.9	20.8	59 W	25*	46*
6 20	1 32.55	+13 57.0	1.870	1.664	32.8	20.7	62 W	30*	46*
6 30	1 54.33	+16 37.5	1.818	1.685	33.5	20.7	66 W	36*	45*
7 10	2 15.40	+19 6.5	1.764	1.708	34.0	20.7	70 W	42*	44*
7 20	2 35.57	+21 23.5	1.707	1.735	34.3	20.7	74 W	49*	42*
7 30	2 54.58	+23 28.1	1.649	1.764	34.4	20.6	79 W	55*	40*
8 9	3 12.15	+25 20.6	1.587	1.795	34.2	20.6	84 W	62*	39
8 19	3 27.90	+27 1.5	1.524	1.827	33.6	20.5	90 W	68*	37
8 29	3 41.36	+28 31.2	1.459	1.861	32.6	20.4	96 W	73*	35
9 8	3 52.03	+29 50.4	1.395	1.897	31.2	20.3	103 W	75	34
9 13	3 56.14	+30 26.1	1.363	1.915	30.2	20.3	107 W	75	34
9 18	3 59.34	+30 59.0	1.332	1.933	29.1	20.2	111 W	76	33
9 23	4 1.54	+31 29.1	1.302	1.952	27.8	20.2	115 W	76	33
9 28	4 2.70	+31 56.0	1.274	1.971	26.3	20.1	119 W	77	32
10 8	4 1.75	+32 38.8	1.224	2.009	22.7	19.9	129 W	78	31
10 18	3 56.38	+33 3.2	1.186	2.047	18.5	19.8	139 W	78	31
10 28	3 47.11	+33 4.1	1.165	2.086	13.7	19.6	150 W	78	31
11 2	3 41.40	+32 54.7	1.162	2.106	11.2	19.5	156 W	78	31
11 7	3 35.25	+32 38.6	1.165	2.125	8.9	19.5	161 W	78	31
11 12	3 28.89	+32 16.1	1.174	2.145	7.0	19.4	165 W	77	32
11 17	3 22.59	+31 47.9	1.190	2.165	5.9	19.4	167 E	77	32
11 22	3 16.60	+31 15.2	1.212	2.184	6.1	19.5	166 E	76	33
11 27	3 11.14	+30 39.4	1.240	2.204	7.4	19.6	163 E	76	33
12 2	3 6.37	+30 1.8	1.275	2.223	9.2	19.8	159 E	75	34
12 7	3 2.40	+29 23.9	1.316	2.243	11.2	19.9	154 E	74	35
12 12	2 59.31	+28 47.0	1.363	2.262	13.1	20.1	149 E	74	35

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	334055 2001 OK_{21} *(continuation)*								
	h m	° ′			°	m	°	°	°
12 17	2 57.14	+28 12.0	1.415	2.281	14.9	20.3	143 E	73	36
12 22	2 55.89	+27 39.9	1.472	2.300	16.6	20.4	138 E	73	36
12 27	2 55.54	+27 11.2	1.533	2.320	18.0	20.6	133 E	72	37
1 1	2 56.03	+26 46.3	1.599	2.339	19.3	20.7	128 E	72	37
1 6	2 57.33	+26 25.1	1.668	2.358	20.4	20.9	123 E	71	38
1 11	2 59.35	+26 7.7	1.740	2.376	21.3	21.0	119 E	71	38
1 16	3 2.07	+25 54.0	1.815	2.395	22.0	21.2	114 E	71	38*
	392211 2009 TG_{10}								
12 23	17 35.30	− 5 20.8	2.117	1.232	15.3	20.5	19 W	12*	—
1 2	18 11.32	− 3 15.1	2.135	1.273	16.5	20.7	22 W	14*	—
1 12	18 46.19	− 0 58.5	2.161	1.319	17.3	20.8	23 W	17*	—
1 22	19 19.72	+ 1 25.5	2.195	1.369	17.7	20.9	25 W	19*	—
2 1	19 51.79	+ 3 53.9	2.235	1.422	17.9	21.0	26 W	20*	—
2 11	20 22.31	+ 6 23.6	2.280	1.477	18.0	21.2	28 W	21*	1*
2 21	20 51.27	+ 8 52.0	2.326	1.533	18.0	21.3	29 W	23*	4*
3 2	21 18.70	+11 17.4	2.373	1.590	18.0	21.4	30 W	24*	6*
	52689 1998 FF_2								
12 23	17 35.59	−28 58.1	2.074	1.109	7.2	21.2	8 W	—	2*
12 28	17 58.31	−29 11.1	2.070	1.106	7.4	21.2	8 W	—	2*
1 2	18 21.11	−29 10.1	2.068	1.105	7.5	21.2	8 W	—	2*
1 7	18 43.83	−28 55.0	2.068	1.106	7.6	21.2	9 W	—	2*
1 12	19 6.33	−28 26.2	2.071	1.108	7.6	21.3	9 W	—	2*
1 17	19 28.49	−27 44.3	2.075	1.112	7.7	21.3	9 W	—	2*
1 22	19 50.20	−26 50.1	2.081	1.118	7.7	21.3	9 W	—	2*
1 27	20 11.36	−25 44.6	2.088	1.126	7.7	21.3	9 W	—	2*
2 1	20 31.91	−24 29.1	2.098	1.135	7.7	21.3	9 W	—	2*
2 6	20 51.80	−23 4.8	2.108	1.145	7.8	21.4	9 W	—	2*
2 11	21 11.02	−21 32.9	2.120	1.157	7.8	21.4	9 W	—	2*
2 16	21 29.58	−19 54.8	2.133	1.170	7.9	21.4	9 W	—	3*
2 21	21 47.48	−18 11.6	2.148	1.185	8.1	21.5	10 W	—	3*
	259461 2003 SN_{101}								
12 23	17 36.07	−23 17.2	2.780	1.805	3.3	21.2	6 W	—	—
1 2	18 4.28	−23 3.5	2.738	1.777	5.4	21.3	10 W	—	3*
1 12	18 32.84	−22 29.8	2.692	1.750	7.5	21.3	13 W	2*	6*
1 22	19 1.57	−21 35.6	2.643	1.725	9.5	21.3	17 W	4*	10*
2 1	19 30.31	−20 20.9	2.592	1.702	11.6	21.3	20 W	5*	13*
2 11	19 58.85	−18 46.2	2.540	1.682	13.5	21.3	23 W	6*	17*
2 21	20 27.09	−16 52.8	2.487	1.663	15.5	21.3	27 W	7*	20*
3 2	20 54.91	−14 42.3	2.434	1.647	17.3	21.3	30 W	8*	23*
3 12	21 22.23	−12 16.9	2.381	1.634	19.1	21.3	33 W	9*	26*
3 22	21 49.04	− 9 38.9	2.328	1.624	20.9	21.3	36 W	10*	29*
4 1	22 15.31	− 6 51.1	2.277	1.617	22.5	21.3	38 W	11*	32*
4 11	22 41.06	− 3 56.4	2.227	1.613	24.1	21.3	41 W	13*	35*
4 21	23 6.33	− 0 57.5	2.177	1.612	25.6	21.3	44 W	14*	37*
5 1	23 31.15	+ 2 2.6	2.128	1.615	27.1	21.3	47 W	16*	39*
5 11	23 55.55	+ 5 1.1	2.079	1.620	28.4	21.3	50 W	18*	41*
5 21	0 19.56	+ 7 55.5	2.030	1.629	29.6	21.3	53 W	21*	43*
5 31	0 43.17	+10 43.4	1.980	1.641	30.7	21.3	56 W	24*	44*
6 10	1 6.36	+13 22.6	1.929	1.655	31.7	21.3	59 W	28*	44*
6 20	1 29.10	+15 51.4	1.877	1.672	32.6	21.3	63 W	32*	44*
6 30	1 51.26	+18 8.2	1.822	1.692	33.4	21.2	66 W	37*	44*
7 10	2 12.71	+20 11.8	1.765	1.714	33.9	21.2	70 W	43*	43*
7 20	2 33.28	+22 1.5	1.704	1.738	34.3	21.2	75 W	49*	42*
7 30	2 52.69	+23 36.9	1.641	1.764	34.5	21.1	79 W	56*	40*
8 9	3 10.65	+24 57.9	1.575	1.791	34.3	21.1	85 W	62*	39
8 19	3 26.77	+26 4.6	1.507	1.820	33.8	21.0	90 W	67*	38
8 29	3 40.59	+26 57.3	1.437	1.850	32.8	20.9	97 W	71*	37
9 8	3 51.63	+27 36.3	1.367	1.881	31.3	20.8	104 W	73	36
9 18	3 59.32	+28 1.5	1.299	1.913	29.2	20.7	112 W	73	36
9 28	4 3.13	+28 11.9	1.235	1.945	26.4	20.5	120 W	73	36
10 8	4 2.71	+28 6.0	1.179	1.978	22.7	20.3	130 W	73	36
10 18	3 57.98	+27 41.5	1.136	2.012	18.1	20.1	141 W	73	36
10 23	3 54.13	+27 21.5	1.121	2.028	15.5	20.0	147 W	72	37
10 28	3 49.46	+26 56.2	1.110	2.045	12.8	19.9	153 W	72	37
11 2	3 44.13	+26 25.9	1.105	2.062	9.9	19.8	159 W	71	38
11 7	3 38.36	+25 50.9	1.106	2.079	7.1	19.7	165 W	71	38
11 12	3 32.36	+25 11.9	1.113	2.096	4.3	19.6	171 W	70	39
11 17	3 26.39	+24 30.1	1.126	2.112	2.6	19.6	174 E	70	39
11 22	3 20.69	+23 46.8	1.146	2.129	3.6	19.7	172 E	69	40
11 27	3 15.46	+23 3.3	1.173	2.146	6.0	19.9	167 E	68	41
12 2	3 10.86	+22 21.0	1.207	2.162	8.6	20.1	161 E	67	42
12 7	3 7.02	+21 41.0	1.246	2.179	11.0	20.3	155 E	67	42
12 12	3 4.01	+21 4.3	1.291	2.195	13.3	20.4	149 E	66	43
12 17	3 1.87	+20 31.7	1.342	2.212	15.3	20.6	144 E	66	43
12 22	3 0.62	+20 3.6	1.397	2.228	17.2	20.8	138 E	65	44
12 27	3 0.23	+19 40.3	1.457	2.244	18.8	20.9	133 E	65	44
1 1	3 0.68	+19 21.6	1.520	2.260	20.1	21.1	128 E	64	45
1 6	3 1.90	+19 7.5	1.587	2.276	21.3	21.2	123 E	64	45

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	259461 2003 SN_{101} *(continuation)*								
	h m	° ′			°	m	°	°	°
1 11	3 3.85	+18 57.6	1.657	2.292	22.2	21.4	118 E	64	45
1 16	3 6.48	+18 51.7	1.730	2.308	23.0	21.5	114 E	64	45
	74998 1999 TV_{276}								
12 23	17 36.49	−23 47.8	3.061	2.085	2.8	19.5	6 W	—	—
1 2	18 0.17	−23 50.2	3.079	2.121	4.9	19.7	11 W	—	4*
1 12	18 23.20	−23 39.7	3.087	2.156	7.1	19.8	16 W	3*	9*
1 22	18 45.49	−23 17.3	3.085	2.192	9.1	20.0	21 W	5*	14*
2 1	19 6.94	−22 44.5	3.072	2.228	11.1	20.1	26 W	6*	19*
2 11	19 27.46	−22 2.6	3.049	2.264	13.1	20.2	31 W	8*	25*
2 21	19 47.00	−21 13.1	3.014	2.299	14.9	20.2	37 W	9*	30*
3 2	20 5.48	−20 17.6	2.968	2.334	16.6	20.3	42 W	11*	36*
3 12	20 22.84	−19 17.8	2.912	2.368	18.2	20.3	48 W	12*	42*
3 22	20 39.03	−18 15.3	2.846	2.402	19.6	20.4	54 W	13*	48*
4 1	20 53.96	−17 11.8	2.770	2.435	20.9	20.4	60 W	15*	54*
4 11	21 7.55	−16 8.9	2.685	2.468	21.9	20.4	67 W	17*	61*
4 21	21 19.71	−15 8.3	2.594	2.501	22.7	20.3	73 W	19*	67*
5 1	21 30.30	−14 11.7	2.496	2.532	23.1	20.3	80 W	21*	73*
5 11	21 39.17	−13 21.1	2.394	2.563	23.2	20.2	88 W	23*	77*
5 21	21 46.15	−12 38.1	2.290	2.593	22.9	20.2	96 W	26*	77
5 31	21 51.02	−12 4.7	2.187	2.623	22.0	20.1	104 W	29*	76
6 10	21 53.57	−11 42.5	2.087	2.651	20.7	19.9	113 W	32*	76
6 20	21 53.62	−11 32.9	1.995	2.679	18.7	19.8	122 W	33*	76
6 30	21 51.06	−11 36.9	1.914	2.706	16.1	19.6	132 W	33	76
7 10	21 45.93	−11 54.2	1.849	2.732	12.9	19.5	143 W	33	76
7 20	21 38.51	−12 23.2	1.805	2.758	9.1	19.3	155 W	33	76
7 30	21 29.37	−13 0.8	1.785	2.782	4.9	19.1	166 W	32	77
8 4	21 24.41	−13 21.5	1.785	2.794	2.8	19.0	172 W	32	77
8 9	21 19.36	−13 42.7	1.792	2.806	0.8	18.8	178 W	31	78
8 14	21 14.33	−14 3.7	1.807	2.817	1.8	19.0	175 E	31	78
8 19	21 9.47	−14 24.0	1.828	2.828	3.9	19.1	169 E	31	78
8 29	21 0.69	−15 0.7	1.892	2.850	7.8	19.4	157 E	30	79
9 8	20 53.81	−15 29.7	1.980	2.871	11.3	19.7	146 E	30	79
9 18	20 49.27	−15 49.7	2.091	2.891	14.2	19.9	135 E	29	80
9 28	20 47.29	−16 0.1	2.220	2.910	16.4	20.1	125 E	29	80
10 8	20 47.80	−16 1.1	2.362	2.929	18.0	20.3	115 E	29	80
10 18	20 50.60	−15 53.0	2.513	2.946	19.0	20.5	106 E	29	80
10 28	20 55.45	−15 36.3	2.670	2.962	19.4	20.7	97 E	29	79*
11 7	21 2.04	−15 11.5	2.829	2.978	19.4	20.8	89 E	30	74*
11 17	21 10.11	−14 39.1	2.988	2.992	19.0	20.9	81 E	30	67*
11 27	21 19.39	−13 59.3	3.143	3.006	18.3	21.0	73 E	31	58*
12 7	21 29.66	−13 12.7	3.292	3.019	17.3	21.1	65 E	31*	50*
12 17	21 40.73	−12 19.7	3.432	3.030	16.0	21.2	58 E	31*	42*
12 27	21 52.43	−11 20.8	3.563	3.041	14.6	21.2	51 E	30*	34*
1 6	22 4.61	−10 16.4	3.681	3.051	12.9	21.2	44 E	28*	27*
1 16	22 17.17	− 9 7.3	3.787	3.060	11.2	21.2	37 E	25*	20*
	260141 2004 QT_{24}								
12 23	17 36.53	−30 42.0	2.316	1.355	6.7	21.3	9 W	—	3*
1 2	18 10.98	−31 31.3	2.323	1.374	8.3	21.4	12 W	—	5*
1 12	18 45.42	−31 49.9	2.323	1.391	10.0	21.5	14 W	—	8*
1 22	19 19.60	−31 38.7	2.316	1.403	11.7	21.6	17 W	—	10*
2 1	19 53.29	−30 59.3	2.301	1.412	13.5	21.6	20 W	—	13*
	74789 1999 SY_5								
12 23	17 36.54	−10 1.6	3.755	2.815	5.1	19.8	15 W	8*	—
1 2	17 52.64	−10 26.3	3.710	2.792	6.3	19.9	18 W	12*	—
1 12	18 8.82	−10 42.6	3.650	2.767	7.8	19.9	23 W	15*	6*
1 22	18 25.02	−10 50.6	3.576	2.742	9.6	19.9	28 W	18*	13*
2 1	18 41.15	−10 50.7	3.488	2.716	11.4	19.9	33 W	20*	20*
2 11	18 57.11	−10 43.3	3.388	2.690	13.3	19.9	39 W	21*	27*
2 21	19 12.83	−10 29.2	3.275	2.662	15.1	19.8	45 W	23*	34*
3 2	19 28.22	−10 9.2	3.151	2.633	16.9	19.8	50 W	24*	41*
3 12	19 43.19	− 9 44.4	3.018	2.603	18.5	19.7	56 W	25*	47*
3 22	19 57.65	− 9 15.9	2.876	2.573	20.1	19.6	63 W	26*	53*
4 1	20 11.51	− 8 45.2	2.727	2.542	21.5	19.6	69 W	27*	59*
4 11	20 24.64	− 8 14.0	2.573	2.510	22.7	19.4	75 W	29*	65*
4 21	20 36.94	− 7 44.3	2.415	2.477	23.7	19.3	82 W	30*	69*
5 1	20 48.24	− 7 18.6	2.254	2.443	24.3	19.1	88 W	32*	71*
5 11	20 58.38	− 6 59.7	2.094	2.409	24.7	19.0	95 W	33*	71
5 21	21 7.15	− 6 51.1	1.935	2.374	24.6	18.8	103 W	35*	71
5 31	21 14.28	− 6 56.9	1.780	2.338	23.9	18.5	111 W	36*	71
6 10	21 19.49	− 7 21.9	1.631	2.302	22.7	18.3	119 W	37*	71
6 15	21 21.27	− 7 43.3	1.560	2.284	21.8	18.1	124 W	37*	72
6 20	21 22.43	− 8 11.5	1.492	2.266	20.7	18.0	128 W	37	72
6 25	21 22.94	− 8 47.3	1.427	2.247	19.3	17.8	133 W	36	73
6 30	21 22.75	− 9 31.2	1.366	2.228	17.8	17.6	138 W	35	74
7 10	21 20.23	−11 25.2	1.257	2.191	13.9	17.3	149 W	34	75
7 20	21 14.77	−13 54.4	1.168	2.153	9.1	16.9	161 W	31	78
7 30	21 6.69	−16 53.9	1.104	2.115	3.4	16.5	173 W	28	81

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
74789 1999 SY_5 *(continuation)*									
8 4	21 1.92	−18 31.4	1.082	2.096	0.8	16.2	178 W	26	83
8 9	20 56.85	−20 11.4	1.067	2.077	3.1	16.3	174 E	25	84
8 14	20 51.68	−21 51.6	1.058	2.058	6.2	16.5	167 E	23	86
8 19	20 46.59	−23 29.7	1.056	2.039	9.4	16.6	161 E	22	87
8 24	20 41.83	−25 3.4	1.061	2.020	12.5	16.7	154 E	20	89
8 29	20 37.59	−26 31.1	1.071	2.002	15.4	16.8	148 E	18	89
9 3	20 34.05	−27 51.5	1.086	1.983	18.1	16.9	142 E	17	88
9 8	20 31.37	−29 3.7	1.107	1.964	20.7	17.0	137 E	16	87
9 13	20 29.64	−30 7.4	1.131	1.946	23.0	17.1	131 E	15	86
9 18	20 28.97	−31 2.6	1.158	1.927	25.0	17.2	126 E	14	85
9 28	20 30.90	−32 28.0	1.221	1.891	28.4	17.4	116 E	13	84
10 8	20 37.13	−33 22.5	1.290	1.856	30.9	17.5	108 E	12	83
10 18	20 47.32	−33 49.1	1.363	1.821	32.6	17.6	100 E	11	82
10 23	20 53.77	−33 52.6	1.399	1.805	33.2	17.7	96 E	11	82
10 28	21 1.01	−33 49.8	1.435	1.788	33.7	17.8	93 E	11	82*
11 2	21 8.99	−33 41.1	1.471	1.772	34.0	17.8	90 E	11	81*
11 7	21 17.63	−33 26.4	1.506	1.757	34.3	17.8	87 E	12	80*
11 12	21 26.86	−33 5.9	1.541	1.742	34.4	17.9	84 E	12	78*
11 17	21 36.64	−32 39.7	1.574	1.727	34.5	17.9	81 E	12	75*
11 22	21 46.89	−32 7.8	1.607	1.713	34.4	17.9	79 E	13	73*
11 27	21 57.57	−31 30.3	1.639	1.700	34.3	17.9	76 E	13	70*
12 2	22 8.60	−30 47.4	1.669	1.687	34.2	18.0	74 E	14	68*
12 7	22 19.95	−29 59.2	1.699	1.675	33.9	18.0	72 E	15	65*
12 12	22 31.57	−29 5.8	1.727	1.663	33.7	18.0	70 E	16	63*
12 17	22 43.43	−28 7.2	1.755	1.652	33.4	18.0	68 E	17	60*
12 22	22 55.49	−27 3.7	1.782	1.642	33.1	18.0	66 E	18*	58*
12 27	23 7.72	−25 55.6	1.808	1.633	32.7	18.0	64 E	19*	55*
1 1	23 20.08	−24 43.0	1.833	1.624	32.3	18.0	62 E	20*	53*
1 6	23 32.56	−23 26.2	1.857	1.616	31.9	18.0	60 E	21*	51*
1 11	23 45.13	−22 5.5	1.881	1.609	31.5	18.0	59 E	22*	49*
1 16	23 57.80	−20 41.1	1.905	1.603	31.1	18.1	57 E	23*	47*
508918 2004 BG_{86}									
12 23	17 36.55	−10 44.2	1.437	0.539	26.4	19.8	14 W	8*	—
12 28	18 13.63	−12 24.5	1.453	0.524	21.4	19.7	11 W	4*	—
1 2	18 50.52	−14 2.5	1.474	0.526	17.0	19.5	9 E	1*	—
1 7	19 26.68	−15 32.2	1.498	0.543	14.9	19.6	8 E	2*	—
1 12	20 1.66	−16 48.4	1.525	0.574	15.3	19.8	9 E	3*	—
1 17	20 35.18	−17 47.1	1.555	0.616	17.1	20.0	11 E	3*	1*
1 22	21 7.06	−18 26.8	1.588	0.665	19.1	20.3	13 E	4*	4*
2 1	22 5.64	−18 50.9	1.663	0.774	21.6	20.8	17 E	4*	10*
2 11	22 57.46	−18 14.8	1.749	0.889	22.4	21.2	20 E	4*	13*
2 21	23 43.19	−16 57.5	1.843	1.002	22.1	21.6	22 E	4*	16*
3 2	0 23.74	−15 15.9	1.942	1.110	21.2	21.9	24 E	4*	18*
53789 2000 ED_{104}									
12 23	17 36.88	+ 1 8.3	2.465	1.632	15.0	21.2	25 W	16*	—
1 2	18 4.42	+ 1 34.2	2.424	1.607	15.9	21.1	27 W	19*	—
1 12	18 32.56	+ 2 13.7	2.380	1.580	16.9	21.1	28 W	21*	—
1 22	19 1.28	+ 3 6.4	2.335	1.550	17.9	21.0	29 W	23*	—
2 1	19 30.53	+ 4 11.4	2.290	1.519	18.9	21.0	30 W	24*	3*
2 11	20 0.27	+ 5 27.0	2.244	1.485	19.9	20.9	31 W	25*	6*
2 21	20 30.51	+ 6 51.2	2.200	1.449	20.8	20.8	31 W	25*	9*
3 2	21 1.23	+ 8 21.2	2.156	1.412	21.6	20.8	32 W	24*	12*
3 12	21 32.47	+ 9 53.7	2.112	1.373	22.5	20.7	32 W	24*	14*
3 22	22 4.31	+11 25.2	2.069	1.333	23.3	20.6	32 W	23*	16*
4 1	22 36.83	+12 52.0	2.026	1.293	24.2	20.5	32 W	22*	17*
4 11	23 10.15	+14 10.0	1.983	1.252	25.1	20.4	32 W	20*	19*
4 21	23 44.44	+15 15.0	1.938	1.211	26.1	20.3	32 W	19*	20*
5 1	0 19.82	+16 3.0	1.894	1.171	27.3	20.3	32 W	17*	21*
5 11	0 56.43	+16 29.7	1.848	1.133	28.5	20.2	32 W	15*	22*
5 21	1 34.39	+16 31.4	1.803	1.098	29.9	20.1	33 W	13*	24*
5 31	2 13.73	+16 4.6	1.760	1.067	31.4	20.0	33 W	12*	25*
6 10	2 54.39	+15 6.7	1.720	1.041	32.8	19.9	34 W	10*	26*
6 20	3 36.22	+13 37.2	1.686	1.021	34.1	19.9	34 W	8*	27*
6 30	4 18.88	+11 37.1	1.660	1.008	35.1	19.9	35 W	7*	28*
7 5	4 40.39	+10 26.7	1.652	1.004	35.4	19.9	35 W	6*	28*
7 10	5 1.94	+ 9 10.5	1.646	1.002	35.7	19.8	35 W	6*	29*
7 15	5 23.47	+ 7 49.3	1.644	1.002	35.8	19.8	35 W	6*	29*
7 20	5 44.89	+ 6 24.1	1.644	1.004	35.8	19.9	35 W	5*	29*
7 25	6 6.15	+ 4 55.9	1.649	1.008	35.6	19.9	35 W	5*	29*
7 30	6 27.17	+ 3 26.0	1.656	1.014	35.3	19.9	35 W	5*	29*
8 4	6 47.90	+ 1 55.4	1.667	1.022	34.9	19.9	35 W	5*	29*
8 9	7 8.29	+ 0 25.1	1.680	1.032	34.4	19.9	35 W	5*	29*
8 14	7 28.29	− 1 4.0	1.696	1.043	33.8	19.9	35 W	5*	29*
8 19	7 47.86	− 2 31.2	1.714	1.055	33.2	20.0	35 W	5*	29*
8 29	8 25.65	− 5 17.6	1.756	1.085	31.7	20.0	34 W	5*	28*
9 8	9 1.55	− 7 50.4	1.801	1.118	30.3	20.1	34 W	6*	28*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
53789 2000 ED_{104} *(continuation)*									
9 18	9 35.59	−10 8.5	1.845	1.155	29.0	20.2	34 W	7*	28*
9 28	10 7.86	−12 11.5	1.886	1.194	27.9	20.3	34 W	9*	28*
10 8	10 38.51	−13 59.6	1.921	1.234	27.3	20.4	34 W	11*	28*
10 18	11 7.72	−15 33.3	1.946	1.275	27.1	20.5	36 W	13*	28*
10 28	11 35.63	−16 52.9	1.959	1.316	27.3	20.6	37 W	15*	29*
11 7	12 2.41	−17 58.4	1.961	1.357	27.9	20.7	40 W	17*	31*
11 17	12 28.18	−18 49.6	1.949	1.396	28.8	20.7	43 W	19*	33*
11 27	12 53.02	−19 25.6	1.922	1.434	29.9	20.8	46 W	21*	36*
12 7	13 17.00	−19 45.1	1.882	1.470	31.2	20.8	51 W	23*	40*
12 17	13 40.13	−19 46.6	1.829	1.505	32.5	20.9	55 W	24*	44*
12 27	14 2.36	−19 27.8	1.763	1.537	33.8	20.9	60 W	25*	49*
1 6	14 23.63	−18 45.9	1.686	1.568	34.9	20.9	66 W	26*	54*
1 16	14 43.81	−17 37.7	1.600	1.596	35.9	20.8	72 W	27*	60*
69274 1989 UZ_1									
12 23	17 37.03	−20 43.2	3.108	2.133	3.0	19.7	6 W	—	—
1 2	18 0.15	−20 31.3	3.051	2.095	5.2	19.8	11 W	3*	2*
1 12	18 23.69	−20 5.4	2.986	2.057	7.4	19.8	16 W	5*	7*
1 22	18 47.58	−19 24.7	2.913	2.018	9.7	19.8	20 W	8*	12*
2 1	19 11.73	−18 28.6	2.833	1.980	11.9	19.8	25 W	9*	17*
2 11	19 36.04	−17 16.9	2.747	1.941	14.2	19.7	29 W	11*	21*
2 21	20 0.46	−15 49.5	2.657	1.904	16.4	19.7	33 W	12*	26*
3 2	20 24.93	−14 6.7	2.564	1.867	18.5	19.7	37 W	13*	30*
3 12	20 49.40	−12 9.0	2.468	1.830	20.6	19.6	40 W	14*	34*
3 22	21 13.86	− 9 57.1	2.372	1.795	22.7	19.5	44 W	15*	37*
4 1	21 38.32	− 7 32.3	2.276	1.761	24.7	19.5	47 W	17*	40*
4 11	22 2.78	− 4 56.0	2.181	1.728	26.6	19.4	51 W	18*	43*
4 21	22 27.29	− 2 9.8	2.088	1.698	28.5	19.3	54 W	20*	46*
5 1	22 51.90	+ 0 44.1	1.998	1.669	30.2	19.2	57 W	22*	48*
5 11	23 16.66	+ 3 43.3	1.911	1.643	31.9	19.1	59 W	24*	49*
5 21	23 41.64	+ 6 45.1	1.827	1.620	33.5	19.1	62 W	26*	50*
5 31	0 6.88	+ 9 46.4	1.747	1.599	34.9	19.0	65 W	29*	49*
6 10	0 32.41	+12 43.7	1.671	1.582	36.2	18.9	67 W	33*	49*
6 15	0 45.29	+14 9.9	1.634	1.574	36.9	18.8	68 W	35*	48*
6 20	0 58.25	+15 33.8	1.598	1.568	37.4	18.8	70 W	37*	47*
6 25	1 11.27	+16 55.0	1.563	1.562	38.0	18.8	71 W	40*	46*
6 30	1 24.34	+18 13.0	1.529	1.558	38.5	18.7	72 W	42*	45*
7 5	1 37.45	+19 27.4	1.495	1.554	38.9	18.7	74 W	45*	44*
7 10	1 50.58	+20 37.8	1.462	1.551	39.3	18.6	75 W	47*	43*
7 15	2 3.72	+21 43.8	1.429	1.549	39.6	18.6	77 W	50*	42*
7 20	2 16.81	+22 45.1	1.397	1.549	39.9	18.6	78 W	53*	41*
7 25	2 29.83	+23 41.4	1.366	1.549	40.2	18.5	80 W	55*	40*
7 30	2 42.74	+24 32.3	1.335	1.550	40.3	18.5	81 W	58*	39
8 4	2 55.48	+25 17.6	1.304	1.552	40.4	18.4	83 W	60*	39
8 9	3 8.01	+25 57.2	1.273	1.556	40.5	18.4	85 W	63*	38
8 14	3 20.26	+26 31.0	1.243	1.560	40.4	18.3	87 W	65*	37
8 19	3 32.17	+26 58.9	1.212	1.565	40.3	18.3	89 W	68*	37
8 24	3 43.65	+27 20.8	1.182	1.571	40.1	18.2	91 W	69*	37
8 29	3 54.65	+27 36.7	1.152	1.578	39.7	18.2	93 W	71*	36
9 3	4 5.07	+27 46.8	1.122	1.585	39.3	18.1	96 W	72*	36
9 8	4 14.85	+27 51.2	1.093	1.594	38.7	18.0	99 W	73*	36
9 13	4 23.89	+27 50.0	1.063	1.604	37.9	18.0	102 W	73	36
9 18	4 32.10	+27 43.3	1.034	1.614	37.0	17.9	105 W	73	36
9 23	4 39.39	+27 31.3	1.006	1.625	36.0	17.8	108 W	73	36
9 28	4 45.67	+27 14.2	0.978	1.637	34.7	17.8	111 W	72	37
10 3	4 50.88	+26 52.2	0.951	1.649	33.3	17.7	115 W	72	37
10 8	4 54.93	+26 25.3	0.926	1.662	31.6	17.6	119 W	71	38
10 18	4 59.30	+25 17.8	0.880	1.690	27.5	17.4	128 W	70	39
10 28	4 58.54	+23 52.7	0.843	1.720	22.4	17.2	139 W	69	40
11 7	4 53.03	+22 12.8	0.821	1.752	16.3	17.0	150 W	67	42
11 12	4 48.79	+21 18.7	0.817	1.769	13.0	16.9	156 W	66	43
11 17	4 43.82	+20 23.0	0.818	1.786	9.6	16.8	163 W	65	44
11 22	4 38.41	+19 27.0	0.824	1.803	6.1	16.6	169 W	64	45
11 27	4 32.82	+18 32.1	0.836	1.821	3.0	16.5	174 W	64	45
12 2	4 27.35	+17 39.8	0.854	1.839	2.4	16.5	175 E	63	46
12 7	4 22.22	+16 51.4	0.878	1.857	5.1	16.8	170 E	62	47
12 12	4 17.65	+16 7.8	0.908	1.875	8.1	17.0	164 E	61	48
12 17	4 13.81	+15 30.1	0.944	1.894	11.0	17.2	158 E	61	48
12 22	4 10.83	+14 58.7	0.985	1.912	13.7	17.5	153 E	60	49
12 27	4 8.76	+14 33.6	1.031	1.931	16.1	17.7	147 E	60	49
1 1	4 7.62	+14 14.8	1.081	1.950	18.2	17.9	142 E	59	50
1 6	4 7.40	+14 1.8	1.136	1.969	20.1	18.1	137 E	59	50
1 11	4 8.05	+13 54.2	1.194	1.989	21.7	18.2	132 E	59	50
1 16	4 9.55	+13 51.3	1.256	2.008	23.1	18.4	127 E	59	50
435159 2007 LQ_{19}									
12 23	17 37.09	−18 19.6	2.161	1.194	6.4	19.6	8 W	2*	—
12 28	17 57.15	−19 7.4	2.124	1.157	6.5	19.5	8 W	1*	—
1 2	18 18.03	−19 47.9	2.090	1.122	6.5	19.4	7 W	1*	—
1 7	18 39.70	−20 19.7	2.059	1.090	6.4	19.3	7 W	—	—

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
435159 2007 LQ_{19} *(continuation)*									
1 12	19 2.11	−20 41.9	2.031	1.060	6.2	19.2	7 W	—	—
1 17	19 25.17	−20 53.2	2.006	1.034	6.0	19.2	6 W	—	—
1 22	19 48.78	−20 52.8	1.985	1.011	5.7	19.1	6 W	—	—
1 27	20 12.81	−20 39.9	1.968	0.992	5.4	19.0	5 W	—	—
2 1	20 37.10	−20 14.2	1.955	0.978	5.1	18.9	5 W	—	—
2 6	21 1.49	−19 35.4	1.946	0.968	5.0	18.9	5 W	—	—
2 11	21 25.81	−18 44.1	1.942	0.963	5.0	18.9	5 W	—	—
2 16	21 49.91	−17 40.9	1.943	0.963	5.3	18.9	5 W	—	—
2 21	22 13.65	−16 27.0	1.947	0.968	5.6	18.9	6 W	—	—
2 26	22 36.90	−15 3.8	1.957	0.978	6.1	19.0	6 E	—	—
3 2	22 59.57	−13 32.8	1.970	0.993	6.6	19.1	7 E	—	—
3 7	23 21.58	−11 56.0	1.988	1.011	7.0	19.1	7 E	—	—
3 12	23 42.89	−10 15.1	2.010	1.034	7.4	19.2	8 E	—	—
3 17	0 3.49	− 8 31.7	2.036	1.061	7.7	19.3	8 E	—	1*
3 22	0 23.37	− 6 47.4	2.066	1.091	7.9	19.4	9 E	—	1*
3 27	0 42.54	− 5 3.7	2.098	1.123	7.9	19.5	9 E	—	2*
4 1	1 1.02	− 3 21.7	2.133	1.158	7.9	19.6	9 E	—	2*
4 6	1 18.84	− 1 42.5	2.171	1.194	7.8	19.7	9 E	—	2*
4 11	1 36.03	− 0 6.9	2.210	1.233	7.7	19.8	9 E	—	2*
4 21	2 8.68	+ 2 51.5	2.294	1.313	7.3	20.0	10 E	—	1*
5 1	2 39.22	+ 5 30.5	2.380	1.397	7.0	20.2	10 E	—	—
5 11	3 7.88	+ 7 48.9	2.466	1.483	6.9	20.4	10 W	—	—
5 21	3 34.88	+ 9 46.8	2.550	1.569	7.2	20.6	11 W	—	2*
5 31	4 0.35	+11 25.3	2.628	1.655	7.9	20.9	13 W	—	6*
6 10	4 24.41	+12 45.5	2.698	1.741	9.0	21.1	16 W	—	9*
6 20	4 47.16	+13 49.2	2.760	1.826	10.3	21.3	19 W	—	13*
6 30	5 8.64	+14 38.0	2.810	1.910	11.7	21.5	22 W	1*	16*
477796 2011 CQ_{46}									
12 23	17 37.25	−39 50.0	2.769	1.853	9.1	21.3	17 W	—	7*
1 2	18 9.15	−39 16.7	2.804	1.895	9.3	21.3	18 W	—	9*
1 12	18 39.26	−38 22.4	2.833	1.938	9.9	21.4	20 W	—	12*
1 22	19 7.44	−37 10.9	2.855	1.982	10.9	21.5	22 W	—	15*
2 1	19 33.62	−35 45.8	2.868	2.027	12.2	21.7	26 W	—	18*
317350 2002 LV_{38}									
12 23	17 37.58	−20 40.5	2.688	1.714	3.7	20.8	6 W	—	—
1 2	18 7.03	−20 39.5	2.657	1.695	5.5	20.8	10 W	2*	1*
1 12	18 36.74	−20 17.8	2.625	1.680	7.4	20.9	13 W	3*	4*
1 22	19 6.49	−19 35.5	2.592	1.666	9.2	20.9	16 W	5*	8*
2 1	19 36.08	−18 33.0	2.558	1.656	11.1	20.9	19 W	6*	11*
2 11	20 5.31	−17 11.6	2.524	1.649	12.8	21.0	22 W	6*	15*
2 21	20 34.02	−15 33.1	2.489	1.645	14.6	21.0	25 W	7*	18*
3 2	21 2.09	−13 39.9	2.455	1.644	16.3	21.0	28 W	8*	21*
3 12	21 29.44	−11 34.6	2.420	1.646	18.0	21.0	31 W	9*	24*
3 22	21 56.04	− 9 20.0	2.384	1.652	19.6	21.1	34 W	9*	27*
4 1	22 21.87	− 6 59.0	2.348	1.660	21.2	21.1	37 W	10*	30*
4 11	22 46.92	− 4 34.5	2.311	1.672	22.7	21.1	40 W	11*	34*
4 21	23 11.23	− 2 9.0	2.272	1.686	24.1	21.1	43 W	12*	37*
5 1	23 34.80	+ 0 14.8	2.230	1.703	25.4	21.2	47 W	14*	40*
5 11	23 57.64	+ 2 34.8	2.187	1.722	26.7	21.2	50 W	16*	42*
5 21	0 19.76	+ 4 48.8	2.140	1.744	27.9	21.2	54 W	18*	45*
5 31	0 41.12	+ 6 55.1	2.090	1.768	29.0	21.2	58 W	22*	47*
6 10	1 1.67	+ 8 52.0	2.036	1.794	29.9	21.2	62 W	25*	49*
6 20	1 21.34	+10 38.4	1.978	1.821	30.7	21.2	66 W	30*	50*
6 30	1 40.00	+12 13.0	1.916	1.850	31.3	21.2	71 W	35*	50*
7 10	1 57.49	+13 34.9	1.849	1.880	31.6	21.2	76 W	41*	50*
7 20	2 13.61	+14 43.4	1.779	1.911	31.7	21.1	81 W	47*	49*
7 30	2 28.06	+15 37.7	1.706	1.944	31.4	21.0	87 W	53*	48
8 9	2 40.54	+16 17.3	1.631	1.976	30.8	21.0	94 W	58*	48
8 19	2 50.69	+16 41.7	1.554	2.010	29.6	20.9	101 W	61*	47
8 29	2 58.07	+16 50.2	1.480	2.044	27.9	20.7	109 W	62	47
9 8	3 2.30	+16 42.3	1.409	2.078	25.4	20.6	118 W	62	47
9 18	3 3.05	+16 17.4	1.346	2.112	22.2	20.4	127 W	61	48
9 28	3 0.17	+15 35.6	1.294	2.146	18.2	20.3	138 W	61	48
10 8	2 53.92	+14 38.2	1.260	2.180	13.5	20.1	149 W	60	49
10 13	2 49.73	+14 4.7	1.250	2.197	10.9	20.0	155 W	59	50
10 18	2 44.98	+13 28.9	1.246	2.214	8.1	19.9	162 W	58	51
10 23	2 39.87	+12 51.5	1.248	2.231	5.4	19.8	168 W	58	51
10 28	2 34.56	+12 13.8	1.257	2.248	2.7	19.6	174 W	57	52
11 2	2 29.26	+11 36.8	1.273	2.265	1.4	19.6	177 E	57	52
11 7	2 24.13	+11 1.5	1.296	2.281	3.5	19.8	172 E	56	53
11 12	2 19.34	+10 28.9	1.325	2.298	6.0	20.0	166 E	55	54
11 17	2 15.04	+ 9 59.9	1.361	2.314	8.5	20.2	160 E	55	54
11 27	2 8.33	+ 9 15.1	1.451	2.347	12.9	20.5	148 E	54	55
12 7	2 4.51	+ 8 49.8	1.562	2.379	16.4	20.8	137 E	54	55
12 17	2 3.64	+ 8 43.8	1.691	2.410	19.2	21.1	127 E	54	55
12 27	2 5.58	+ 8 55.3	1.833	2.441	21.1	21.4	117 E	54	55

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
124200 2001 OM_{81}									
12 23	17 37.99	−17 11.3	4.073	3.104	2.7	21.1	8 W	2*	—
1 2	17 53.10	−17 19.3	4.027	3.081	4.4	21.2	14 W	7*	2*
1 12	18 8.24	−17 20.6	3.964	3.057	6.3	21.2	20 W	10*	9*
1 22	18 23.34	−17 15.0	3.884	3.033	8.2	21.2	26 W	13*	16*
2 1	18 38.30	−17 2.9	3.790	3.007	10.2	21.2	33 W	15*	23*
2 11	18 53.02	−16 44.4	3.681	2.980	12.0	21.2	39 W	17*	31*
2 21	19 7.40	−16 20.1	3.559	2.953	13.8	21.2	46 W	18*	38*
3 2	19 21.34	−15 50.4	3.425	2.925	15.5	21.2	52 W	20*	45*
3 12	19 34.72	−15 16.3	3.281	2.895	17.1	21.1	59 W	21*	51*
3 22	19 47.45	−14 38.5	3.129	2.865	18.5	21.0	66 W	23*	58*
4 1	19 59.37	−13 58.0	2.970	2.834	19.6	20.9	72 W	24*	65*
4 11	20 10.36	−13 16.2	2.806	2.802	20.6	20.8	80 W	26*	71*
4 21	20 20.25	−12 34.5	2.639	2.769	21.2	20.7	87 W	27*	75*
5 1	20 28.84	−11 54.4	2.471	2.736	21.6	20.5	94 W	29*	76
5 11	20 35.93	−11 17.9	2.305	2.701	21.5	20.3	102 W	31*	75
5 21	20 41.27	−10 47.2	2.142	2.666	20.9	20.1	110 W	33*	75
5 31	20 44.58	−10 24.9	1.987	2.630	19.8	19.9	119 W	34*	74
6 10	20 45.60	−10 13.5	1.842	2.593	18.0	19.6	128 W	35	74
6 20	20 44.09	−10 15.8	1.711	2.555	15.5	19.4	138 W	35	74
6 30	20 39.91	−10 33.9	1.596	2.517	12.4	19.1	148 W	34	75
7 10	20 33.20	−11 8.9	1.502	2.478	8.5	18.7	159 W	34	75
7 20	20 24.38	−11 59.9	1.432	2.438	4.4	18.4	169 W	33	76
7 25	20 19.41	−12 30.7	1.407	2.418	3.0	18.3	173 W	32	77
7 30	20 14.27	−13 4.0	1.388	2.398	3.3	18.2	172 E	32	77
8 4	20 9.10	−13 39.3	1.376	2.378	5.1	18.3	168 E	31	78
8 9	20 4.07	−14 15.8	1.370	2.357	7.4	18.4	163 E	31	78
8 14	19 59.32	−14 52.7	1.371	2.337	9.8	18.5	157 E	30	79
8 19	19 55.02	−15 29.3	1.378	2.316	12.2	18.6	151 E	30	79
8 24	19 51.30	−16 4.9	1.390	2.295	14.5	18.6	145 E	29	80
8 29	19 48.28	−16 39.0	1.407	2.275	16.6	18.7	140 E	28	81
9 8	19 44.63	−17 40.8	1.454	2.233	20.4	18.9	129 E	27	82
9 18	19 44.42	−18 32.3	1.515	2.191	23.6	19.0	119 E	26	83
9 28	19 47.73	−19 12.0	1.585	2.148	25.9	19.1	110 E	26	83
10 8	19 54.35	−19 39.0	1.660	2.106	27.7	19.2	102 E	25	84
10 18	20 3.97	−19 52.8	1.737	2.064	28.8	19.3	94 E	25	83*
10 28	20 16.27	−19 52.8	1.814	2.023	29.4	19.4	87 E	25	77*
11 7	20 30.85	−19 38.4	1.888	1.981	29.6	19.5	80 E	25	71*
11 17	20 47.41	−19 9.2	1.960	1.941	29.4	19.5	74 E	26	64*
11 27	21 5.66	−18 24.9	2.026	1.901	28.9	19.5	69 E	27*	57*
12 7	21 25.29	−17 25.4	2.087	1.863	28.2	19.5	63 E	27*	51*
12 17	21 46.10	−16 10.9	2.142	1.825	27.2	19.5	58 E	28*	44*
12 27	22 7.90	−14 41.6	2.192	1.790	26.2	19.5	53 E	28*	39*
1 6	22 30.52	−12 58.5	2.236	1.756	25.0	19.4	49 E	28*	34*
1 16	22 53.85	−11 2.6	2.276	1.724	23.7	19.4	45 E	27*	29*
41223 1999 XD_{16}									
12 23	17 38.04	−30 1.1	3.345	2.377	3.5	18.4	9 W	—	2*
1 2	18 0.80	−30 20.3	3.285	2.335	5.3	18.5	13 W	—	7*
1 12	18 24.18	−30 28.4	3.213	2.293	7.3	18.5	17 W	—	11*
1 22	18 48.08	−30 24.6	3.133	2.250	9.4	18.5	22 W	—	16*
2 1	19 12.40	−30 8.2	3.044	2.208	11.5	18.4	27 W	—	21*
2 11	19 37.00	−29 38.8	2.948	2.166	13.7	18.4	31 W	—	25*
2 21	20 1.81	−28 56.3	2.846	2.124	15.8	18.4	36 W	1*	29*
3 2	20 26.71	−28 0.8	2.740	2.083	17.9	18.3	40 W	2*	34*
3 12	20 51.59	−26 52.4	2.630	2.042	19.9	18.2	44 W	2*	38*
3 22	21 16.39	−25 31.7	2.518	2.002	21.9	18.2	49 W	3*	42*
4 1	21 41.04	−23 59.4	2.405	1.964	23.8	18.1	52 W	3*	46*
4 11	22 5.48	−22 16.5	2.292	1.926	25.7	18.0	56 W	4*	50*
4 21	22 29.68	−20 23.8	2.179	1.890	27.4	17.9	60 W	5*	53*
5 1	22 53.59	−18 22.6	2.068	1.856	29.1	17.8	64 W	6*	57*
5 11	23 17.18	−16 14.3	1.960	1.823	30.7	17.7	67 W	8*	61*
5 21	23 40.44	−14 0.2	1.854	1.793	32.2	17.6	71 W	11*	65*
5 31	0 3.30	−11 41.9	1.752	1.766	33.5	17.5	74 W	14*	67*
6 10	0 25.72	− 9 20.9	1.653	1.741	34.7	17.3	77 W	17*	69*
6 20	0 47.62	− 6 58.6	1.557	1.719	35.7	17.2	81 W	22*	69*
6 30	1 8.88	− 4 36.7	1.465	1.700	36.5	17.1	84 W	27*	68*
7 10	1 29.35	− 2 16.3	1.377	1.685	37.1	16.9	88 W	32*	66
7 20	1 48.83	+ 0 1.4	1.292	1.674	37.3	16.8	92 W	38*	64
7 30	2 7.03	+ 2 15.7	1.211	1.666	37.3	16.6	97 W	43*	62
8 9	2 23.63	+ 4 26.5	1.133	1.663	36.7	16.5	101 W	48*	60
8 19	2 38.17	+ 6 33.7	1.060	1.663	35.6	16.3	107 W	51*	57
8 29	2 50.11	+ 8 37.8	0.990	1.667	33.9	16.1	113 W	54	55
9 8	2 58.86	+10 40.0	0.927	1.676	31.4	15.9	120 W	56	53
9 18	3 3.75	+12 40.7	0.872	1.688	28.0	15.7	128 W	58	51
9 28	3 4.23	+14 39.3	0.826	1.703	23.6	15.5	137 W	60	49
10 8	3 0.13	+16 33.8	0.794	1.722	18.1	15.2	148 W	62	47
10 13	2 56.46	+17 28.1	0.784	1.733	15.1	15.1	153 W	62	47
10 18	2 51.87	+18 19.3	0.778	1.745	12.0	15.0	159 W	63	46
10 23	2 46.56	+19 6.9	0.778	1.757	8.7	14.9	164 W	64	45
10 28	2 40.80	+19 50.2	0.783	1.770	5.6	14.8	170 W	65	44

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	41223 1999 XD_{16}							*(continuation)*	
	h m	° ′			°	m	°	°	°
11 2	2 34.86	+20 29.0	0.794	1.784	3.3	14.7	174 W	65	44
11 7	2 29.03	+21 3.1	0.810	1.798	3.7	14.8	173 E	66	43
11 12	2 23.57	+21 32.8	0.832	1.813	6.2	15.0	169 E	67	42
11 17	2 18.73	+21 58.6	0.860	1.829	9.0	15.2	163 E	67	42
11 22	2 14.72	+22 21.4	0.893	1.845	11.8	15.4	158 E	67	42
11 27	2 11.65	+22 42.0	0.931	1.861	14.4	15.6	152 E	68	41
12 2	2 9.60	+23 1.2	0.974	1.879	16.7	15.8	147 E	68	41
12 7	2 8.58	+23 19.8	1.021	1.896	18.7	16.0	142 E	68	41
12 17	2 9.56	+23 57.1	1.128	1.932	22.1	16.4	132 E	69	40
12 27	2 14.28	+24 37.3	1.248	1.970	24.6	16.7	124 E	70	39
1 6	2 22.17	+25 21.3	1.379	2.009	26.2	17.0	116 E	70	39*
1 16	2 32.70	+26 8.8	1.519	2.049	27.2	17.3	108 E	71	37*
	114534 2003 BT_{19}								
12 23	17 38.06	−23 33.6	3.927	2.950	1.9	19.1	6 W	—	—
1 2	17 54.72	−23 57.1	3.859	2.904	4.0	19.2	12 W	1*	5*
1 12	18 11.72	−24 14.7	3.775	2.858	6.2	19.2	18 W	4*	11*
1 22	18 29.02	−24 26.4	3.676	2.811	8.4	19.2	25 W	6*	18*
2 1	18 46.54	−24 32.1	3.563	2.763	10.5	19.2	31 W	7*	24*
2 11	19 4.21	−24 32.2	3.437	2.714	12.6	19.2	37 W	9*	31*
2 21	19 21.96	−24 27.1	3.301	2.664	14.7	19.1	43 W	10*	37*
3 2	19 39.74	−24 17.2	3.154	2.614	16.6	19.1	49 W	10*	43*
3 12	19 57.47	−24 3.4	3.000	2.563	18.5	19.0	55 W	11*	49*
3 22	20 15.13	−23 46.5	2.839	2.511	20.3	18.9	61 W	12*	55*
4 1	20 32.65	−23 27.7	2.673	2.459	21.9	18.7	67 W	12*	61*
4 11	20 49.99	−23 8.4	2.504	2.406	23.4	18.6	73 W	13*	67*
4 21	21 7.11	−22 50.1	2.334	2.353	24.8	18.4	79 W	13*	73*
5 1	21 23.94	−22 34.7	2.164	2.299	25.9	18.3	85 W	14*	79*
5 11	21 40.44	−22 24.5	1.996	2.245	26.7	18.1	91 W	15*	84*
5 21	21 56.55	−22 21.9	1.832	2.191	27.3	17.8	97 W	16*	86
5 31	22 12.16	−22 29.9	1.673	2.137	27.6	17.6	103 W	17*	86
6 10	22 27.14	−22 51.7	1.521	2.083	27.5	17.3	109 W	19*	87
6 20	22 41.33	−23 30.8	1.378	2.030	27.0	17.0	115 W	20*	88
6 30	22 54.47	−24 30.9	1.245	1.977	26.0	16.7	122 W	20*	89
7 10	23 6.27	−25 54.7	1.123	1.925	24.6	16.4	128 W	19*	90
7 20	23 16.31	−27 44.1	1.015	1.874	22.7	16.1	135 W	17	88
7 25	23 20.50	−28 48.2	0.967	1.849	21.7	15.9	138 W	16	87
7 30	23 24.07	−29 57.7	0.922	1.824	20.7	15.7	141 W	15	86
8 4	23 26.95	−31 11.7	0.881	1.800	19.7	15.6	143 W	14	85
8 9	23 29.08	−32 28.9	0.845	1.776	18.8	15.4	146 W	13	84
8 14	23 30.41	−33 47.7	0.812	1.753	18.1	15.3	147 W	11	82
8 19	23 30.91	−35 5.9	0.784	1.731	17.7	15.2	149 W	10	81
8 24	23 30.58	−36 20.7	0.760	1.709	17.6	15.1	149 W	9	80
8 29	23 29.49	−37 29.3	0.741	1.688	18.0	15.0	149 W	8	79
9 3	23 27.76	−38 29.0	0.725	1.668	18.8	15.0	148 W	7	78
9 8	23 25.51	−39 17.2	0.713	1.648	19.9	14.9	146 W	6	77
9 13	23 22.95	−39 51.6	0.705	1.630	21.3	14.9	144 E	5	76
9 18	23 20.31	−40 10.3	0.700	1.612	22.9	15.0	141 E	5	76
9 23	23 17.87	−40 12.0	0.698	1.595	24.6	15.0	139 E	5	76
9 28	23 15.89	−39 56.2	0.699	1.580	26.3	15.0	136 E	5	76
10 3	23 14.58	−39 23.3	0.703	1.565	28.0	15.1	133 E	6	77
10 8	23 14.08	−38 33.8	0.710	1.552	29.6	15.1	130 E	6	77
10 13	23 14.53	−37 28.7	0.718	1.540	31.2	15.2	127 E	8	79
10 18	23 15.97	−36 9.1	0.729	1.530	32.6	15.2	124 E	9	80
10 23	23 18.45	−34 36.4	0.742	1.521	33.9	15.3	122 E	10	81
10 28	23 21.93	−32 52.2	0.756	1.513	35.1	15.3	119 E	12	83
11 2	23 26.34	−30 57.8	0.773	1.506	36.1	15.4	117 E	14	85
11 7	23 31.60	−28 54.7	0.792	1.501	37.0	15.5	114 E	16	87
11 12	23 37.64	−26 44.3	0.812	1.498	37.7	15.5	112 E	18	89
11 17	23 44.38	−24 27.7	0.835	1.496	38.4	15.6	110 E	21	88
11 22	23 51.75	−22 6.3	0.859	1.496	38.9	15.7	108 E	23	86
11 27	23 59.68	−19 41.3	0.886	1.497	39.3	15.8	106 E	25	84
12 2	0 8.08	−17 14.0	0.914	1.500	39.6	15.9	104 E	28	81
12 7	0 16.90	−14 45.5	0.945	1.504	39.8	15.9	102 E	30	79
12 12	0 26.08	−12 16.6	0.978	1.510	39.9	16.0	101 E	33	76*
12 17	0 35.60	− 9 48.5	1.014	1.517	39.9	16.1	99 E	35	73*
12 22	0 45.42	− 7 21.8	1.052	1.526	39.8	16.2	97 E	38	70*
12 27	0 55.50	− 4 57.5	1.092	1.536	39.6	16.3	95 E	40	66*
1 1	1 5.82	− 2 36.2	1.134	1.547	39.4	16.4	94 E	42	63*
1 6	1 16.34	− 0 18.5	1.179	1.560	39.1	16.5	92 E	45	60*
1 11	1 27.06	+ 1 55.0	1.226	1.574	38.7	16.6	90 E	47	56*
1 16	1 37.97	+ 4 4.0	1.275	1.589	38.2	16.7	88 E	49	53*
	153415 2001 QP_{153}								
12 23	17 38.71	−43 11.3	1.578	0.740	27.6	18.7	20 W	—	8*
12 25	17 52.87	−42 45.8	1.593	0.745	26.4	18.7	20 W	—	7*
12 27	18 6.57	−42 13.3	1.609	0.751	25.3	18.7	19 W	—	6*
12 29	18 19.76	−41 34.6	1.624	0.758	24.2	18.7	18 W	—	5*
12 31	18 32.44	−40 50.3	1.640	0.765	23.0	18.7	18 W	—	4*
1 2	18 44.59	−40 1.1	1.656	0.771	21.9	18.7	17 W	—	3*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	153415 2001 QP_{153}							*(continuation)*	
	h m	° ′			°	m	°	°	°
1 7	19 12.70	−37 40.0	1.695	0.790	19.0	18.7	15 E	—	3*
1 12	19 37.78	−34 59.7	1.733	0.809	16.2	18.7	13 E	—	2*
1 17	20 0.18	−32 6.4	1.770	0.828	13.5	18.7	11 E	—	1*
1 22	20 20.34	−29 5.0	1.804	0.848	10.8	18.7	9 E	—	—
1 27	20 38.64	−25 58.6	1.835	0.868	8.3	18.7	7 E	—	—
2 1	20 55.43	−22 49.6	1.863	0.888	6.0	18.7	5 E	—	—
2 6	21 11.00	−19 39.3	1.888	0.907	4.2	18.6	4 W	—	—
2 11	21 25.60	−16 28.7	1.909	0.926	3.4	18.7	3 W	—	—
2 16	21 39.46	−13 18.3	1.927	0.944	4.0	18.8	4 W	—	—
2 21	21 52.75	−10 8.2	1.941	0.961	5.5	18.9	5 W	—	—
3 2	22 18.22	− 3 49.6	1.959	0.993	9.1	19.2	9 W	2*	—
3 12	22 43.00	+ 2 27.4	1.964	1.020	12.6	19.4	13 W	6*	2*
3 22	23 7.97	+ 8 43.1	1.959	1.043	15.7	19.5	16 W	10*	3*
4 1	23 33.94	+14 57.1	1.946	1.061	18.6	19.6	20 W	13*	4*
4 11	0 1.72	+21 6.8	1.927	1.073	21.0	19.7	23 W	16*	5*
4 16	0 16.60	+24 8.7	1.917	1.077	22.0	19.7	24 W	17*	5*
4 21	0 32.30	+27 7.4	1.906	1.080	23.0	19.8	25 W	19*	4*
4 26	0 48.97	+30 1.8	1.896	1.082	23.8	19.8	26 W	20*	4*
5 1	1 6.75	+32 50.2	1.886	1.082	24.6	19.8	27 W	20*	3*
5 6	1 25.78	+35 31.0	1.876	1.081	25.2	19.8	27 W	21*	2*
5 11	1 46.21	+38 1.9	1.867	1.078	25.7	19.8	28 W	22*	1*
5 16	2 8.15	+40 20.6	1.860	1.075	26.0	19.8	28 W	22*	—
5 21	2 31.68	+42 24.4	1.853	1.069	26.3	19.8	28 W	22*	—
5 26	2 56.78	+44 10.2	1.848	1.063	26.4	19.8	28 W	22*	—
5 31	3 23.35	+45 35.4	1.844	1.055	26.4	19.7	28 W	21*	—
6 5	3 51.16	+46 37.1	1.841	1.046	26.2	19.7	27 W	21*	—
6 10	4 19.84	+47 13.2	1.840	1.036	25.9	19.7	26 W	20*	—
6 15	4 48.96	+47 22.3	1.840	1.024	25.5	19.6	26 W	19*	—
6 20	5 17.99	+47 3.9	1.840	1.011	24.9	19.6	25 W	17*	—
6 25	5 46.42	+46 18.4	1.841	0.997	24.2	19.5	24 W	16*	—
6 30	6 13.84	+45 7.2	1.842	0.982	23.3	19.5	22 W	14*	—
7 5	6 39.93	+43 32.1	1.843	0.966	22.2	19.4	21 W	13*	—
7 10	7 4.52	+41 35.3	1.844	0.949	21.0	19.3	20 W	11*	—
7 15	7 27.57	+39 19.1	1.844	0.932	19.6	19.3	18 W	10*	—
7 20	7 49.10	+36 45.7	1.843	0.913	18.1	19.2	16 W	8*	—
7 25	8 9.24	+33 57.0	1.841	0.894	16.4	19.1	14 W	6*	—
7 30	8 28.12	+30 54.5	1.837	0.874	14.6	18.9	13 W	5*	—
8 4	8 45.93	+27 39.7	1.830	0.854	12.8	18.8	11 W	4*	—
8 9	9 2.85	+24 13.3	1.821	0.834	10.9	18.7	9 W	2*	—
8 14	9 19.10	+20 36.3	1.809	0.815	9.1	18.6	7 W	1*	—
8 19	9 34.86	+16 49.1	1.794	0.795	7.8	18.4	6 W	—	—
8 24	9 50.36	+12 52.3	1.777	0.777	7.3	18.3	6 W	—	—
8 29	10 5.79	+ 8 46.5	1.756	0.760	8.2	18.3	6 W	—	—
9 3	10 21.40	+ 4 32.3	1.733	0.744	10.1	18.3	7 W	—	1*
9 8	10 37.45	+ 0 10.6	1.707	0.730	12.7	18.3	9 W	—	3*
9 13	10 54.21	− 4 17.0	1.680	0.719	15.6	18.4	11 W	—	4*
9 18	11 11.98	− 8 48.7	1.651	0.710	18.8	18.4	13 W	—	6*
9 23	11 31.11	−13 21.3	1.622	0.704	21.9	18.4	15 W	—	6*
9 28	11 51.96	−17 51.0	1.593	0.701	24.9	18.5	17 W	—	7*
10 3	12 14.88	−22 12.3	1.567	0.701	27.7	18.5	19 W	—	7*
10 8	12 40.23	−26 18.6	1.544	0.705	30.1	18.6	21 W	—	6*
10 13	13 8.26	−30 2.3	1.525	0.712	32.2	18.6	22 W	—	5*
10 18	13 39.02	−33 14.8	1.512	0.721	33.8	18.7	24 E	—	6*
10 23	14 12.26	−35 48.0	1.504	0.733	34.9	18.7	25 E	—	10*
10 28	14 47.37	−37 35.1	1.502	0.747	35.5	18.8	26 E	—	13*
10 30	15 1.73	−38 4.2	1.504	0.753	35.6	18.8	26 E	—	14*
11 1	15 16.17	−38 25.1	1.506	0.760	35.6	18.9	26 E	—	15*
11 3	15 30.61	−38 38.0	1.509	0.767	35.6	18.9	27 E	—	16*
11 5	15 44.97	−38 43.0	1.513	0.774	35.5	18.9	27 E	—	17*
11 7	15 59.19	−38 40.4	1.518	0.781	35.4	18.9	27 E	—	18*
11 9	16 13.20	−38 30.4	1.524	0.788	35.2	18.9	27 E	—	18*
11 11	16 26.93	−38 13.5	1.531	0.795	35.0	19.0	27 E	—	19*
11 13	16 40.35	−37 50.1	1.538	0.803	34.7	19.0	28 E	—	20*
11 15	16 53.40	−37 20.8	1.546	0.811	34.4	19.0	28 E	—	20*
11 17	17 6.07	−36 46.0	1.555	0.819	34.0	19.0	28 E	—	21*
11 22	17 35.89	−34 58.4	1.579	0.838	33.0	19.1	28 E	—	21*
11 27	18 3.04	−32 47.6	1.607	0.858	31.8	19.1	27 E	—	21*
12 2	18 27.64	−30 20.5	1.636	0.878	30.5	19.2	27 E	3*	21*
12 7	18 49.95	−27 42.6	1.666	0.898	29.2	19.3	26 E	6*	20*
12 12	19 10.27	−24 58.1	1.696	0.917	28.0	19.3	26 E	8*	18*
12 17	19 28.91	−22 10.0	1.725	0.935	26.7	19.3	25 E	10*	16*
12 22	19 46.16	−19 20.3	1.753	0.953	25.6	19.4	25 E	12*	14*
12 27	20 2.26	−16 30.4	1.780	0.970	24.5	19.4	24 E	14*	12*
1 1	20 17.44	−13 41.1	1.804	0.986	23.6	19.5	24 E	15*	9*
1 6	20 31.88	−10 52.7	1.825	1.000	22.8	19.5	23 E	16*	6*
1 11	20 45.77	− 8 5.4	1.844	1.014	22.2	19.5	23 E	16*	4*
1 16	20 59.23	− 5 19.3	1.860	1.027	21.8	19.6	23 E	17*	1*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
470990 2009 SU_{108}									
12 23	17 38.71	−28 18.5	2.762	1.790	4.0	21.1	7 W	—	1*
1 2	18 8.54	−28 4.4	2.710	1.750	5.6	21.1	10 W	—	4*
1 12	18 38.95	−27 27.3	2.654	1.711	7.4	21.1	13 W	—	7*
1 22	19 9.72	−26 25.9	2.597	1.673	9.3	21.1	16 W	—	10*
2 1	19 40.59	−24 59.5	2.539	1.638	11.2	21.1	19 W	—	13*
2 11	20 11.32	−23 8.5	2.481	1.606	13.1	21.1	22 W	1*	16*
2 21	20 41.73	−20 53.7	2.424	1.577	15.0	21.0	24 W	2*	18*
3 2	21 11.67	−18 17.1	2.369	1.551	16.8	21.0	27 W	3*	21*
3 12	21 41.05	−15 21.1	2.317	1.529	18.5	21.0	29 W	4*	23*
3 22	22 9.83	−12 8.7	2.268	1.511	20.1	21.0	31 W	5*	25*
4 1	22 38.03	− 8 43.3	2.223	1.497	21.7	21.0	34 W	6*	28*
4 11	23 5.68	− 5 8.8	2.181	1.488	23.2	21.0	36 W	8*	30*
4 21	23 32.86	− 1 28.9	2.143	1.484	24.6	21.0	38 W	9*	32*
5 1	23 59.63	+ 2 12.6	2.107	1.485	25.9	21.0	40 W	11*	33*
5 11	0 26.07	+ 5 51.7	2.075	1.491	27.1	21.0	42 W	13*	35*
5 21	0 52.25	+ 9 25.2	2.044	1.502	28.2	21.0	45 W	16*	36*
5 31	1 18.20	+12 49.8	2.015	1.517	29.3	21.0	47 W	19*	37*
6 10	1 43.94	+16 2.9	1.986	1.537	30.2	21.0	50 W	23*	37*
6 20	2 9.45	+19 2.4	1.956	1.560	31.1	21.1	52 W	27*	37*
6 30	2 34.65	+21 46.6	1.925	1.588	31.8	21.1	55 W	32*	37*
7 10	2 59.42	+24 14.5	1.891	1.618	32.5	21.1	59 W	38*	36*
7 20	3 23.62	+26 25.9	1.854	1.652	33.1	21.1	62 W	44*	35*
7 30	3 47.00	+28 21.0	1.813	1.688	33.5	21.1	66 W	50*	34*
8 9	4 9.32	+30 0.6	1.768	1.726	33.7	21.1	71 W	56*	33*
8 19	4 30.26	+31 26.3	1.719	1.766	33.7	21.1	76 W	62*	32*
8 29	4 49.44	+32 39.9	1.664	1.807	33.5	21.1	81 W	68*	31*
9 8	5 6.47	+33 43.7	1.606	1.849	33.0	21.0	87 W	74*	30*
9 18	5 20.86	+34 40.1	1.545	1.892	32.0	21.0	93 W	79*	29*
9 28	5 32.08	+35 31.1	1.483	1.936	30.6	20.9	101 W	81	28
10 8	5 39.59	+36 18.2	1.421	1.980	28.6	20.8	109 W	81	28
10 18	5 42.81	+37 1.3	1.362	2.025	25.9	20.7	117 W	82	27
10 28	5 41.28	+37 38.2	1.311	2.069	22.5	20.5	127 W	83	26
11 7	5 34.92	+38 4.2	1.273	2.113	18.4	20.4	138 W	83	26
11 12	5 30.04	+38 11.0	1.259	2.135	16.2	20.3	143 W	83	26
11 17	5 24.19	+38 12.4	1.251	2.157	13.8	20.2	149 W	83	26
11 22	5 17.58	+38 7.7	1.248	2.179	11.5	20.2	154 W	83	26
11 27	5 10.44	+37 56.5	1.251	2.201	9.3	20.1	159 W	83	26
12 2	5 3.05	+37 38.6	1.261	2.223	7.4	20.1	163 W	83	26
12 7	4 55.68	+37 14.4	1.277	2.244	6.4	20.1	165 W	82	27
12 12	4 48.62	+36 44.7	1.300	2.266	6.5	20.1	165 E	82	27
12 17	4 42.09	+36 10.4	1.330	2.287	7.6	20.3	162 E	81	28
12 22	4 36.31	+35 33.1	1.366	2.308	9.2	20.4	158 E	81	28
12 27	4 31.40	+34 54.0	1.409	2.329	11.0	20.6	153 E	80	29
1 1	4 27.46	+34 14.5	1.458	2.349	12.9	20.7	148 E	79	30
1 6	4 24.52	+33 35.7	1.512	2.370	14.6	20.9	143 E	79	30
1 11	4 22.56	+32 58.5	1.572	2.390	16.2	21.0	137 E	78	31
1 16	4 21.58	+32 23.4	1.636	2.411	17.6	21.2	132 E	77	32
171819 2001 FZ_6									
12 23	17 39.52	−28 31.4	2.291	1.321	5.4	21.1	7 W	—	1*
1 2	18 17.67	−28 47.2	2.266	1.303	6.6	21.2	9 W	—	3*
1 12	18 56.35	−28 24.6	2.243	1.287	7.8	21.2	10 W	—	4*
1 22	19 35.01	−27 23.2	2.222	1.273	8.9	21.2	12 W	—	5*
2 1	20 13.14	−25 44.0	2.204	1.262	10.0	21.2	13 W	—	6*
2 11	20 50.28	−23 30.2	2.189	1.254	11.0	21.2	14 W	—	8*
2 21	21 26.19	−20 46.3	2.176	1.249	11.9	21.2	15 W	—	9*
3 2	22 0.74	−17 37.7	2.167	1.247	12.9	21.2	16 W	—	10*
3 12	22 33.93	−14 10.0	2.160	1.248	13.8	21.2	17 W	—	11*
3 22	23 5.87	−10 29.1	2.156	1.252	14.7	21.3	19 W	—	12*
4 1	23 36.75	− 6 40.2	2.153	1.259	15.6	21.3	20 W	—	14*
4 11	0 6.74	− 2 48.5	2.152	1.269	16.5	21.4	21 W	—	15*
4 21	0 36.08	+ 1 1.7	2.151	1.282	17.5	21.4	23 W	—	17*
5 1	1 4.97	+ 4 46.6	2.150	1.297	18.5	21.5	24 W	1*	18*
194386 2001 VG_5									
12 23	17 39.67	−21 26.4	2.479	1.503	3.7	20.1	6 W	—	—
1 2	18 8.71	−20 45.3	2.553	1.590	5.6	20.4	9 W	2*	1*
1 12	18 35.55	−19 48.6	2.619	1.675	7.6	20.7	13 W	4*	4*
1 22	19 0.34	−18 39.5	2.675	1.760	9.6	20.9	17 W	6*	9*
2 1	19 23.21	−17 20.7	2.719	1.842	11.5	21.1	22 W	8*	14*
2 11	19 44.27	−15 54.5	2.752	1.923	13.4	21.3	27 W	11*	19*
2 21	20 3.64	−14 22.8	2.770	2.002	15.2	21.5	32 W	13*	24*
285732 2000 SU_{345}									
12 23	17 39.69	−27 58.9	2.637	1.664	4.0	21.4	7 W	—	1*
1 2	18 11.61	−28 3.2	2.619	1.657	5.6	21.4	9 W	—	3*
1 12	18 43.55	−27 42.3	2.600	1.652	7.2	21.5	12 W	—	6*
1 22	19 15.20	−26 56.5	2.580	1.650	8.9	21.5	15 W	—	9*
2 1	19 46.26	−25 47.4	2.559	1.650	10.6	21.6	18 W	—	12*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
272287 2005 ST_9									
12 23	17 39.72	−31 58.1	2.753	1.792	5.4	20.6	10 W	—	3*
1 2	18 11.05	−32 19.7	2.708	1.760	6.8	20.6	12 W	—	5*
1 12	18 43.18	−32 16.9	2.662	1.730	8.4	20.6	15 W	—	8*
1 22	19 15.80	−31 47.9	2.614	1.702	10.0	20.6	18 W	—	11*
2 1	19 48.53	−30 52.3	2.566	1.677	11.7	20.6	20 W	—	14*
2 11	20 20.99	−29 30.4	2.519	1.655	13.4	20.6	23 W	—	16*
2 21	20 52.90	−27 43.5	2.473	1.636	15.0	20.6	25 W	—	18*
3 2	21 23.99	−25 34.2	2.428	1.620	16.6	20.6	28 W	—	21*
3 12	21 54.08	−23 5.3	2.385	1.607	18.2	20.6	30 W	—	23*
3 22	22 23.12	−20 20.2	2.344	1.599	19.7	20.6	33 W	—	25*
4 1	22 51.06	−17 22.6	2.304	1.594	21.1	20.6	35 W	—	28*
4 11	23 17.92	−14 16.3	2.266	1.593	22.5	20.6	38 W	—	31*
4 21	23 43.78	−11 4.5	2.229	1.596	23.9	20.6	40 W	—	34*
5 1	0 8.68	− 7 50.5	2.192	1.603	25.2	20.6	43 W	2*	36*
5 11	0 32.71	− 4 37.2	2.155	1.613	26.4	20.6	45 W	5*	39*
5 21	0 55.93	− 1 26.9	2.117	1.628	27.6	20.6	48 W	8*	42*
5 31	1 18.37	+ 1 38.4	2.076	1.645	28.7	20.6	51 W	11*	44*
6 10	1 40.07	+ 4 37.0	2.034	1.666	29.8	20.6	55 W	16*	46*
6 20	2 1.02	+ 7 28.0	1.988	1.690	30.7	20.7	58 W	21*	48*
6 30	2 21.16	+10 10.5	1.939	1.716	31.6	20.7	62 W	27*	48*
7 10	2 40.42	+12 44.3	1.885	1.745	32.2	20.6	66 W	33*	48*
7 20	2 58.68	+15 9.6	1.828	1.776	32.7	20.6	71 W	40*	47*
7 30	3 15.74	+17 26.7	1.766	1.809	33.0	20.6	76 W	47*	46*
8 9	3 31.37	+19 36.7	1.701	1.843	32.9	20.6	81 W	55*	44*
8 19	3 45.26	+21 40.6	1.633	1.879	32.5	20.5	87 W	61*	42
8 29	3 56.99	+23 39.9	1.563	1.916	31.7	20.4	94 W	67*	40
9 8	4 6.12	+25 35.9	1.492	1.954	30.4	20.3	101 W	71	38
9 18	4 12.10	+27 29.3	1.424	1.992	28.5	20.2	109 W	72	37
9 28	4 14.33	+29 19.8	1.360	2.031	25.9	20.1	118 W	74	35
10 8	4 12.33	+31 5.0	1.305	2.070	22.5	19.9	127 W	76	33
10 13	4 9.64	+31 54.3	1.283	2.090	20.6	19.9	132 W	77	32
10 18	4 5.82	+32 40.1	1.264	2.110	18.5	19.8	138 W	78	31
10 23	4 0.94	+33 21.4	1.249	2.130	16.3	19.7	143 W	78	31
10 28	3 55.10	+33 57.3	1.240	2.149	14.1	19.6	148 W	79	30
11 2	3 48.48	+34 26.8	1.236	2.169	11.8	19.6	153 W	79	30
11 7	3 41.28	+34 49.2	1.238	2.189	9.7	19.5	158 W	80	29
11 12	3 33.74	+35 3.9	1.247	2.209	8.1	19.5	162 W	80	29
11 17	3 26.16	+35 11.1	1.262	2.228	7.1	19.5	164 E	80	29
11 22	3 18.81	+35 11.2	1.284	2.248	7.2	19.5	163 E	80	29
11 27	3 11.95	+35 5.1	1.312	2.267	8.2	19.6	161 E	80	29
12 2	3 5.78	+34 54.2	1.347	2.287	9.7	19.8	157 E	80	29
12 7	3 0.47	+34 39.6	1.388	2.306	11.5	19.9	152 E	80	29
12 12	2 56.10	+34 22.8	1.435	2.325	13.2	20.1	147 E	79	30
12 17	2 52.76	+34 4.9	1.487	2.344	14.9	20.2	142 E	79	30
12 22	2 50.44	+33 47.2	1.545	2.363	16.4	20.4	137 E	79	30
12 27	2 49.14	+33 30.6	1.606	2.382	17.8	20.5	132 E	79	30
1 1	2 48.81	+33 15.7	1.672	2.401	19.0	20.7	127 E	78	31
1 6	2 49.38	+33 2.8	1.741	2.419	20.0	20.8	123 E	78	31
1 11	2 50.80	+32 52.3	1.813	2.437	20.8	21.0	118 E	78	31
1 16	2 53.00	+32 44.3	1.888	2.456	21.5	21.1	114 E	78	31*
182974 2002 NT_{23}									
12 23	17 39.78	−18 35.2	3.217	2.244	3.1	20.7	7 W	1*	—
1 2	18 1.54	−18 52.1	3.166	2.210	5.0	20.7	11 W	4*	1*
1 12	18 23.72	−18 57.4	3.105	2.176	7.1	20.8	16 W	6*	6*
1 22	18 46.27	−18 50.6	3.035	2.142	9.3	20.8	21 W	8*	12*
2 1	19 9.12	−18 31.7	2.957	2.108	11.5	20.8	25 W	10*	17*
2 11	19 32.16	−18 0.7	2.871	2.073	13.7	20.8	30 W	11*	22*
2 21	19 55.35	−17 17.8	2.780	2.039	15.8	20.7	34 W	11*	27*
3 2	20 18.63	−16 23.5	2.683	2.005	18.0	20.7	39 W	12*	32*
3 12	20 41.93	−15 18.5	2.581	1.972	20.0	20.6	43 W	13*	36*
3 22	21 5.25	−14 3.8	2.477	1.940	22.1	20.6	47 W	13*	41*
4 1	21 28.54	−12 40.5	2.370	1.908	24.0	20.5	51 W	14*	45*
4 11	21 51.80	−11 9.9	2.262	1.877	25.9	20.4	55 W	15*	49*
4 21	22 15.04	− 9 33.5	2.154	1.847	27.8	20.3	59 W	16*	52*
5 1	22 38.25	− 7 53.0	2.046	1.818	29.5	20.2	63 W	17*	56*
5 11	23 1.44	− 6 10.2	1.939	1.792	31.1	20.1	66 W	19*	59*
5 21	23 24.63	− 4 27.3	1.834	1.766	32.6	20.0	70 W	21*	61*
5 31	23 47.79	− 2 46.5	1.732	1.743	33.9	19.9	74 W	23*	63*
6 10	0 10.89	− 1 10.3	1.632	1.722	35.1	19.8	77 W	26*	63*
6 20	0 33.89	+ 0 18.9	1.536	1.704	36.1	19.7	81 W	30*	63*
6 30	0 56.65	+ 1 38.2	1.443	1.687	36.9	19.5	85 W	34*	62*
7 10	1 19.03	+ 2 45.0	1.354	1.674	37.4	19.4	89 W	38*	61
7 20	1 40.81	+ 3 36.7	1.269	1.664	37.6	19.2	93 W	42*	60
7 30	2 1.67	+ 4 10.8	1.188	1.656	37.5	19.1	97 W	45*	60
8 9	2 21.25	+ 4 25.3	1.111	1.652	36.9	18.9	102 W	48*	60
8 19	2 39.07	+ 4 18.9	1.039	1.651	35.9	18.7	107 W	49*	60
8 29	2 54.54	+ 3 50.8	0.973	1.652	34.3	18.6	113 W	49	60
9 8	3 7.10	+ 3 2.1	0.912	1.658	32.0	18.4	119 W	48	61
9 18	3 16.10	+ 1 55.1	0.859	1.666	29.0	18.1	126 W	47	62

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	182974 2002 NT_{23}					*(continuation)*			
	h m	° ′			°	m	°	°	°
9 23	3 19.08	+ 1 16.2	0.836	1.671	27.2	18.0	130 W	46	63
9 28	3 20.99	+ 0 35.0	0.815	1.677	25.3	17.9	134 W	46	63
10 3	3 21.81	− 0 7.5	0.798	1.683	23.2	17.8	139 W	45	64
10 8	3 21.55	− 0 49.9	0.783	1.691	21.0	17.7	143 W	44	65
10 13	3 20.23	− 1 30.8	0.773	1.699	18.7	17.6	147 W	43	66
10 18	3 17.95	− 2 8.5	0.766	1.707	16.4	17.6	151 W	43	66
10 23	3 14.85	− 2 41.2	0.763	1.717	14.3	17.5	155 W	42	67
10 28	3 11.12	− 3 7.4	0.765	1.727	12.6	17.5	158 W	42	67
11 2	3 6.98	− 3 25.6	0.772	1.737	11.5	17.4	160 W	42	67
11 7	3 2.64	− 3 35.2	0.784	1.748	11.2	17.5	160 W	41	68
11 17	2 54.34	− 3 26.1	0.822	1.772	13.1	17.7	156 E	42	67
11 27	2 47.91	− 2 40.5	0.880	1.797	16.6	18.0	149 E	42	67
12 7	2 44.42	− 1 24.9	0.956	1.825	20.3	18.3	140 E	44	65
12 12	2 43.92	− 0 38.4	0.999	1.839	21.9	18.5	136 E	44	65
12 17	2 44.27	+ 0 12.6	1.047	1.853	23.4	18.6	132 E	45	64
12 22	2 45.46	+ 1 7.0	1.098	1.868	24.7	18.8	128 E	46	63
12 27	2 47.44	+ 2 4.1	1.152	1.883	25.8	19.0	124 E	47	62
1 1	2 50.16	+ 3 2.8	1.208	1.899	26.7	19.1	120 E	48	61
1 6	2 53.58	+ 4 2.7	1.268	1.914	27.5	19.3	116 E	49	60
1 11	2 57.63	+ 5 3.1	1.329	1.930	28.1	19.4	112 E	50	59
1 16	3 2.28	+ 6 3.5	1.393	1.947	28.6	19.5	109 E	51	58*
	118112 2665 *T–3*								
12 23	17 40.26	−22 57.9	3.167	2.189	2.3	21.4	5 W	—	—
1 2	18 3.12	−23 0.0	3.120	2.159	4.6	21.4	10 W	1*	3*
1 12	18 26.33	−22 49.3	3.063	2.128	6.8	21.5	15 W	3*	8*
1 22	18 49.81	−22 25.2	2.998	2.097	9.1	21.5	20 W	5*	13*
2 1	19 13.46	−21 47.6	2.924	2.066	11.3	21.5	24 W	6*	17*
2 11	19 37.17	−20 56.3	2.843	2.035	13.5	21.5	29 W	7*	22*
2 21	20 0.87	−19 51.6	2.756	2.004	15.7	21.5	33 W	9*	27*
3 2	20 24.49	−18 33.9	2.664	1.974	17.8	21.4	38 W	10*	31*
3 12	20 47.97	−17 3.8	2.567	1.944	19.9	21.4	42 W	10*	36*
3 22	21 11.28	−15 22.1	2.468	1.914	22.0	21.3	46 W	11*	40*
4 1	21 34.39	−13 29.9	2.366	1.885	23.9	21.3	50 W	13*	44*
4 11	21 57.29	−11 28.4	2.263	1.857	25.8	21.2	54 W	14*	48*
4 21	22 19.99	− 9 18.7	2.159	1.830	27.6	21.1	58 W	15*	51*
5 1	22 42.50	− 7 2.4	2.055	1.804	29.4	21.0	61 W	17*	54*
5 11	23 4.83	− 4 41.0	1.952	1.779	31.0	20.9	65 W	19*	57*
5 21	23 27.01	− 2 16.2	1.850	1.756	32.5	20.8	69 W	22*	59*
5 31	23 49.02	+ 0 10.0	1.751	1.734	33.8	20.7	72 W	25*	60*
6 10	0 10.86	+ 2 35.8	1.653	1.715	35.0	20.6	76 W	29*	60*
6 20	0 32.51	+ 4 59.1	1.558	1.697	36.1	20.5	79 W	34*	59*
6 30	0 53.87	+ 7 17.7	1.466	1.682	36.9	20.4	83 W	39*	57
7 10	1 14.86	+ 9 29.4	1.377	1.669	37.5	20.2	87 W	44*	55
7 20	1 35.29	+11 32.2	1.290	1.659	37.8	20.1	91 W	50*	52
7 30	1 54.90	+13 23.8	1.207	1.651	37.7	19.9	96 W	55*	51
8 9	2 13.36	+15 2.4	1.127	1.646	37.3	19.7	100 W	59*	49
8 19	2 30.24	+16 26.3	1.050	1.644	36.3	19.6	106 W	61*	48
8 29	2 44.96	+17 33.8	0.978	1.645	34.8	19.4	112 W	63	46
9 8	2 56.92	+18 24.0	0.911	1.649	32.5	19.2	118 W	63	46
9 18	3 5.41	+18 55.5	0.851	1.655	29.4	18.9	126 W	64	45
9 28	3 9.79	+19 7.2	0.799	1.664	25.3	18.7	135 W	64	45
10 8	3 9.75	+18 58.8	0.758	1.676	20.2	18.4	145 W	64	45
10 18	3 5.44	+18 30.4	0.731	1.690	14.1	18.2	156 W	64	45
10 23	3 1.96	+18 9.6	0.724	1.698	10.7	18.0	162 W	63	46
10 28	2 57.87	+17 45.3	0.722	1.706	7.2	17.9	168 W	63	46
11 2	2 53.41	+17 18.7	0.725	1.715	3.7	17.7	174 W	62	47
11 7	2 48.83	+16 50.9	0.734	1.725	0.3	17.5	179 E	62	47
11 12	2 44.41	+16 23.2	0.747	1.735	3.5	17.8	174 E	61	48
11 17	2 40.38	+15 56.9	0.766	1.745	6.9	18.0	168 E	61	48
11 22	2 36.97	+15 33.5	0.790	1.756	10.1	18.3	162 E	61	48
11 27	2 34.34	+15 13.9	0.820	1.768	13.1	18.5	156 E	60	49
12 7	2 31.75	+14 48.7	0.892	1.792	18.3	18.9	145 E	60	49
12 17	2 32.88	+14 43.5	0.980	1.817	22.4	19.2	135 E	60	49
12 27	2 37.58	+14 57.2	1.083	1.844	25.5	19.6	126 E	60	49
1 6	2 45.38	+15 26.5	1.196	1.871	27.6	19.9	118 E	60	49
1 16	2 55.79	+16 7.5	1.318	1.900	29.0	20.2	110 E	61	48*
	29451 1997 RM_1								
12 23	17 40.29	−26 29.8	2.612	1.637	3.5	18.1	6 W	—	—
1 2	18 12.74	−26 34.5	2.584	1.618	5.2	18.1	9 W	—	2*
1 12	18 45.48	−26 13.0	2.556	1.603	6.8	18.2	11 W	—	5*
1 22	19 18.17	−25 25.1	2.529	1.592	8.5	18.2	14 W	—	8*
2 1	19 50.47	−24 11.9	2.504	1.584	10.2	18.2	17 W	—	11*
2 11	20 22.08	−22 35.2	2.480	1.581	11.8	18.3	19 W	—	13*
2 21	20 52.78	−20 38.0	2.457	1.582	13.4	18.3	22 W	—	16*
3 2	21 22.43	−18 23.4	2.435	1.587	15.0	18.4	25 W	1*	18*
3 12	21 50.93	−15 55.4	2.413	1.596	16.6	18.4	27 W	2*	21*
3 22	22 18.29	−13 17.3	2.392	1.609	18.1	18.5	30 W	3*	24*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	29451 1997 RM_1					*(continuation)*			
	h m	° ′			°	m	°	°	°
4 1	22 44.52	−10 32.9	2.371	1.625	19.5	18.5	33 W	4*	27*
4 11	23 9.66	− 7 45.5	2.348	1.645	20.9	18.6	36 W	5*	30*
4 21	23 33.79	− 4 57.9	2.323	1.669	22.3	18.6	39 W	7*	33*
5 1	23 56.95	− 2 12.7	2.296	1.695	23.6	18.7	42 W	8*	36*
5 11	0 19.18	+ 0 28.0	2.266	1.724	24.9	18.7	46 W	11*	39*
5 21	0 40.52	+ 3 2.3	2.232	1.755	26.1	18.7	50 W	14*	42*
5 31	1 0.98	+ 5 28.9	2.193	1.788	27.2	18.8	54 W	17*	45*
6 10	1 20.51	+ 7 46.7	2.149	1.823	28.1	18.8	58 W	21*	47*
6 20	1 39.07	+ 9 54.9	2.100	1.860	28.9	18.8	62 W	26*	49*
6 30	1 56.54	+11 52.8	2.045	1.897	29.6	18.8	67 W	32*	49*
7 10	2 12.80	+13 40.3	1.985	1.936	30.0	18.8	72 W	39*	49*
7 20	2 27.66	+15 17.3	1.920	1.976	30.2	18.8	78 W	45*	49*
7 30	2 40.86	+16 43.7	1.850	2.016	30.1	18.8	84 W	52*	47
8 9	2 52.10	+17 59.7	1.777	2.056	29.5	18.7	91 W	58*	46
8 19	3 1.05	+19 5.4	1.703	2.097	28.6	18.6	98 W	63*	45
8 29	3 7.28	+20 0.6	1.628	2.138	27.0	18.5	106 W	65	44
9 8	3 10.42	+20 44.7	1.557	2.179	24.9	18.4	115 W	66	43
9 18	3 10.11	+21 16.9	1.493	2.220	22.0	18.3	124 W	66	43
9 28	3 6.20	+21 35.3	1.439	2.260	18.3	18.1	135 W	67	42
10 8	2 58.90	+21 38.3	1.402	2.300	14.0	17.9	146 W	67	42
10 13	2 54.15	+21 33.7	1.391	2.320	11.6	17.9	152 W	67	42
10 18	2 48.84	+21 25.0	1.386	2.340	9.2	17.8	158 W	66	43
10 23	2 43.12	+21 12.3	1.387	2.360	6.6	17.7	164 W	66	43
10 28	2 37.20	+20 56.3	1.395	2.379	4.2	17.6	170 W	66	43
11 2	2 31.26	+20 37.6	1.410	2.399	2.4	17.5	174 W	66	43
11 7	2 25.48	+20 16.9	1.431	2.418	2.8	17.6	173 E	65	44
11 12	2 20.04	+19 55.0	1.460	2.437	4.8	17.8	168 E	65	44
11 17	2 15.09	+19 33.1	1.495	2.456	7.0	17.9	162 E	65	44
11 22	2 10.75	+19 11.9	1.538	2.475	9.2	18.1	156 E	64	45
11 27	2 7.10	+18 52.3	1.586	2.494	11.2	18.3	151 E	64	45
12 7	2 2.09	+18 20.4	1.700	2.530	14.7	18.6	139 E	63	46
12 17	2 0.14	+18 0.7	1.833	2.566	17.4	18.9	129 E	63	46
12 27	2 1.10	+17 54.5	1.980	2.602	19.3	19.1	119 E	63	46
1 6	2 4.64	+18 1.1	2.139	2.636	20.6	19.4	110 E	63	46*
1 16	2 10.40	+18 19.0	2.305	2.670	21.2	19.6	101 E	63	44*
	307190 2002 EK_{130}								
12 23	17 40.42	−26 39.8	2.483	1.508	3.9	19.1	6 W	—	—
1 2	18 15.26	−26 3.6	2.482	1.513	5.1	19.2	8 W	—	2*
1 12	18 49.32	−24 58.2	2.482	1.523	6.4	19.3	10 W	—	4*
1 22	19 22.23	−23 26.3	2.486	1.539	7.9	19.4	12 W	—	6*
2 1	19 53.74	−21 31.7	2.490	1.560	9.4	19.5	15 W	1*	9*
2 11	20 23.68	−19 18.3	2.495	1.585	11.0	19.6	18 W	2*	12*
2 21	20 52.00	−16 50.4	2.500	1.614	12.6	19.7	21 W	3*	15*
3 2	21 18.72	−14 11.9	2.503	1.648	14.1	19.8	24 W	5*	18*
3 12	21 43.89	−11 26.6	2.504	1.684	15.7	19.9	27 W	6*	21*
3 22	22 7.61	− 8 37.5	2.502	1.724	17.2	20.0	31 W	8*	25*
4 1	22 29.96	− 5 47.3	2.495	1.766	18.7	20.1	35 W	10*	28*
4 11	22 51.04	− 2 58.1	2.483	1.810	20.2	20.2	38 W	12*	32*
4 21	23 10.91	− 0 11.8	2.466	1.856	21.5	20.3	43 W	14*	36*
5 1	23 29.62	+ 2 30.2	2.442	1.903	22.8	20.3	47 W	17*	39*
5 11	23 47.18	+ 5 6.8	2.411	1.952	23.9	20.4	52 W	20*	43*
5 21	0 3.60	+ 7 37.2	2.373	2.001	25.0	20.4	57 W	23*	46*
5 31	0 18.82	+10 0.7	2.327	2.051	25.8	20.5	62 W	28*	48*
6 10	0 32.75	+12 16.5	2.275	2.101	26.4	20.5	67 W	33*	49*
6 20	0 45.28	+14 24.3	2.216	2.152	26.9	20.5	73 W	39*	49*
6 30	0 56.23	+16 23.4	2.152	2.202	27.0	20.5	79 W	45*	48*
7 10	1 5.37	+18 13.1	2.083	2.252	26.8	20.5	86 W	53*	46
7 20	1 12.45	+19 52.6	2.011	2.302	26.2	20.4	93 W	59*	44
7 30	1 17.15	+21 20.3	1.939	2.352	25.1	20.4	101 W	65*	43
8 9	1 19.20	+22 34.4	1.868	2.401	23.5	20.3	109 W	68	41
8 19	1 18.36	+23 32.1	1.804	2.450	21.4	20.2	118 W	69	40
8 29	1 14.51	+24 9.9	1.748	2.498	18.6	20.1	128 W	69	40
9 8	1 7.84	+24 24.5	1.707	2.546	15.4	19.9	138 W	69	40
9 18	0 58.88	+24 13.3	1.685	2.592	11.9	19.8	148 W	69	40
9 23	0 53.80	+23 57.9	1.682	2.615	10.1	19.8	153 W	69	40
9 28	0 48.52	+23 36.2	1.686	2.638	8.5	19.7	157 W	69	40
10 3	0 43.19	+23 8.9	1.696	2.661	7.1	19.7	161 W	68	41
10 8	0 37.94	+22 36.8	1.713	2.684	6.3	19.7	163 E	68	41
10 13	0 32.94	+22 0.8	1.737	2.706	6.3	19.7	163 E	67	42
10 18	0 28.29	+21 22.1	1.768	2.728	6.9	19.8	161 E	66	43
10 23	0 24.13	+20 41.9	1.805	2.750	8.0	19.9	157 E	66	43
10 28	0 20.53	+20 1.4	1.850	2.772	9.4	20.1	153 E	65	44
11 2	0 17.54	+19 21.6	1.900	2.793	10.8	20.2	148 E	64	45
11 7	0 15.21	+18 43.4	1.957	2.814	12.2	20.3	143 E	64	45
11 17	0 12.54	+17 35.1	2.086	2.856	14.6	20.6	133 E	63	46
11 27	0 12.45	+16 40.7	2.233	2.897	16.5	20.8	124 E	62	47
12 7	0 14.71	+16 2.1	2.394	2.938	17.8	21.1	114 E	61	48
12 17	0 19.02	+15 39.2	2.565	2.977	18.6	21.3	105 E	61	47*
12 27	0 25.09	+15 31.4	2.742	3.015	18.9	21.5	96 E	61	44*

3255 Tholen

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	17 40.65	−38 53.0	3.979	3.046	5.1	19.2	16 W	—	6*
1 2	17 59.58	−38 52.0	3.940	3.026	6.0	19.3	19 W	—	10*
1 12	18 18.52	−38 46.2	3.886	3.005	7.3	19.3	23 W	—	15*
1 22	18 37.34	−38 35.6	3.816	2.982	8.9	19.3	28 W	—	21*
2 1	18 55.95	−38 20.5	3.732	2.959	10.6	19.3	33 W	—	26*
2 11	19 14.22	−38 1.2	3.634	2.935	12.2	19.3	39 W	—	32*
2 21	19 32.06	−37 38.4	3.523	2.909	13.9	19.2	45 W	—	37*
3 2	19 49.35	−37 13.0	3.400	2.883	15.5	19.2	51 W	—	43*
3 12	20 5.97	−36 45.8	3.267	2.856	17.0	19.2	57 W	—	48*
3 22	20 21.82	−36 17.9	3.126	2.827	18.4	19.1	64 W	—	54*
4 1	20 36.78	−35 50.8	2.976	2.798	19.6	19.0	70 W	1*	60*
4 11	20 50.70	−35 25.6	2.822	2.767	20.6	18.9	77 W	2*	66*
4 21	21 3.44	−35 4.0	2.663	2.736	21.4	18.8	83 W	3*	72*
5 1	21 14.78	−34 47.6	2.502	2.704	21.9	18.6	90 W	4*	78*
5 11	21 24.48	−34 37.8	2.342	2.670	22.0	18.4	98 W	5*	81*
5 21	21 32.27	−34 36.1	2.183	2.636	21.8	18.3	105 W	7*	81
5 31	21 37.76	−34 43.7	2.030	2.601	21.0	18.0	113 W	8*	81
6 10	21 40.54	−35 0.7	1.885	2.565	19.7	17.8	121 W	9*	81
6 15	21 40.77	−35 12.5	1.816	2.546	18.9	17.7	126 W	9*	81
6 20	21 40.15	−35 26.2	1.750	2.528	17.9	17.6	130 W	10*	81
6 25	21 38.61	−35 41.4	1.688	2.509	16.7	17.4	135 W	9	80
6 30	21 36.12	−35 57.2	1.629	2.490	15.4	17.3	139 W	9	80
7 5	21 32.67	−36 12.9	1.576	2.471	14.0	17.2	144 W	9	80
7 10	21 28.25	−36 27.5	1.527	2.451	12.5	17.0	148 W	9	80
7 15	21 22.88	−36 39.8	1.484	2.432	11.1	16.9	153 W	8	79
7 20	21 16.64	−36 48.5	1.446	2.412	9.7	16.7	156 W	8	79
7 25	21 9.65	−36 52.3	1.414	2.392	8.6	16.6	159 W	8	79
7 30	21 2.09	−36 49.9	1.389	2.372	8.0	16.6	161 W	8	79
8 4	20 54.18	−36 40.3	1.371	2.352	8.3	16.5	161 E	8	79
8 9	20 46.15	−36 22.9	1.358	2.331	9.2	16.5	158 E	9	80
8 14	20 38.26	−35 57.6	1.353	2.310	10.7	16.5	155 E	9	80
8 19	20 30.76	−35 24.4	1.353	2.290	12.5	16.6	151 E	10	81
8 24	20 23.87	−34 44.0	1.360	2.269	14.5	16.7	146 E	10	81
8 29	20 17.80	−33 57.2	1.372	2.248	16.5	16.7	141 E	11	82
9 3	20 12.68	−33 5.2	1.389	2.226	18.4	16.8	136 E	12	83
9 8	20 8.58	−32 9.0	1.411	2.205	20.2	16.9	131 E	13	84
9 13	20 5.55	−31 9.7	1.436	2.184	21.9	16.9	126 E	14	85
9 18	20 3.60	−30 8.1	1.466	2.162	23.5	17.0	121 E	15	86
9 28	20 2.86	−28 0.9	1.532	2.119	26.0	17.1	112 E	17	88
10 8	20 5.95	−25 51.4	1.605	2.076	27.9	17.3	103 E	19	90
10 18	20 12.35	−23 40.8	1.682	2.032	29.2	17.3	95 E	21	87*
10 28	20 21.57	−21 28.7	1.760	1.989	29.9	17.4	88 E	24	79*
11 7	20 33.12	−19 14.2	1.836	1.946	30.2	17.5	81 E	26	71*
11 17	20 46.62	−16 55.7	1.909	1.904	30.1	17.5	75 E	28	63*
11 27	21 1.75	−14 31.6	1.976	1.862	29.6	17.5	69 E	30*	55*
12 7	21 18.25	−12 0.6	2.038	1.821	28.9	17.5	63 E	32*	47*
12 17	21 35.93	− 9 21.9	2.093	1.781	28.0	17.5	58 E	34*	39*
12 27	21 54.65	− 6 34.6	2.141	1.743	26.9	17.5	53 E	35*	33*
1 6	22 14.32	− 3 38.5	2.183	1.706	25.8	17.4	49 E	35*	26*
1 16	22 34.91	− 0 33.8	2.218	1.672	24.5	17.4	45 E	34*	21*

137427 1999 TF_{211}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	17 40.80	−49 52.0	2.842	2.013	12.7	19.7	27 W	—	11*
12 28	17 57.93	−50 3.6	2.876	2.052	12.7	19.8	27 W	—	12*
1 2	18 14.67	−50 9.3	2.908	2.090	12.7	19.9	28 W	—	13*
1 7	18 30.99	−50 9.8	2.938	2.128	12.8	19.9	29 W	—	14*
1 12	18 46.84	−50 5.7	2.966	2.166	12.9	20.0	30 W	—	15*
1 22	19 17.05	−49 45.9	3.013	2.239	13.4	20.1	32 W	—	17*
2 1	19 45.18	−49 14.6	3.050	2.311	14.1	20.2	35 W	—	20*
2 11	20 11.18	−48 35.9	3.074	2.380	14.9	20.4	38 W	—	24*
2 21	20 35.12	−47 53.6	3.086	2.448	15.8	20.5	42 W	—	27*
3 2	20 57.05	−47 11.3	3.085	2.515	16.7	20.5	47 W	—	31*
3 12	21 17.04	−46 31.8	3.072	2.579	17.6	20.6	52 W	—	35*
3 22	21 35.19	−45 57.8	3.046	2.641	18.5	20.7	57 W	—	40*
4 1	21 51.51	−45 31.9	3.009	2.702	19.2	20.7	63 W	—	45*
4 11	22 6.00	−45 16.1	2.961	2.761	19.8	20.8	69 W	—	50*
4 21	22 18.62	−45 12.5	2.904	2.818	20.2	20.8	75 W	—	55*
5 1	22 29.25	−45 22.9	2.840	2.874	20.3	20.8	82 W	—	60*
5 11	22 37.72	−45 48.3	2.770	2.928	20.2	20.8	89 W	—	65*
5 21	22 43.78	−46 29.7	2.699	2.980	19.7	20.7	96 W	—	68*
5 31	22 47.09	−47 26.6	2.629	3.031	19.0	20.7	104 W	—	69
6 10	22 47.26	−48 37.2	2.563	3.080	17.9	20.6	111 W	—	67
6 20	22 43.87	−49 58.0	2.506	3.128	16.5	20.6	119 W	—	66
6 30	22 36.51	−51 22.7	2.462	3.174	14.9	20.5	126 W	—	65
7 5	22 31.30	−52 3.8	2.446	3.196	14.1	20.5	130 W	—	64
7 10	22 25.07	−52 42.3	2.436	3.218	13.3	20.4	133 W	—	63
7 15	22 17.89	−53 17.1	2.430	3.240	12.6	20.4	136 W	—	63
7 20	22 9.84	−53 46.7	2.430	3.261	11.9	20.4	138 W	—	62
7 25	22 1.06	−54 9.8	2.436	3.282	11.4	20.4	140 W	—	62

137427 1999 TF_{211} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 30	21 51.76	−54 25.4	2.448	3.303	11.1	20.4	141 W	—	62
8 4	21 42.17	−54 32.7	2.467	3.323	10.9	20.5	142 W	—	61
8 9	21 32.51	−54 31.4	2.492	3.343	11.0	20.5	141 W	—	61
8 14	21 23.03	−54 21.4	2.523	3.362	11.2	20.5	140 E	—	62
8 19	21 13.96	−54 3.0	2.561	3.381	11.6	20.6	138 E	—	62
8 24	21 5.51	−53 36.7	2.605	3.400	12.0	20.7	135 E	—	62
8 29	20 57.83	−53 3.6	2.655	3.419	12.6	20.7	132 E	—	63
9 3	20 51.04	−52 24.5	2.710	3.437	13.2	20.8	129 E	—	64
9 8	20 45.19	−51 40.5	2.770	3.454	13.7	20.9	126 E	—	64
9 13	20 40.31	−50 52.6	2.835	3.472	14.3	21.0	122 E	—	65
9 18	20 36.39	−50 1.8	2.905	3.489	14.8	21.1	118 E	—	66
9 23	20 33.40	−49 8.8	2.978	3.506	15.2	21.1	114 E	—	67
9 28	20 31.29	−48 14.4	3.054	3.522	15.5	21.2	110 E	—	68
10 3	20 30.01	−47 19.2	3.134	3.538	15.8	21.3	106 E	—	69
10 8	20 29.49	−46 23.8	3.215	3.554	16.0	21.4	102 E	—	70
10 13	20 29.66	−45 28.4	3.298	3.569	16.1	21.4	98 E	—	71
10 18	20 30.46	−44 33.2	3.383	3.584	16.1	21.5	93 E	—	71

14581 1998 RT_4

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	17 41.03	+ 1 35.7	4.426	3.564	6.8	20.6	26 W	16*	—
1 2	17 53.85	+ 1 35.5	4.383	3.543	7.4	20.6	28 W	21*	—
1 12	18 6.64	+ 1 44.9	4.324	3.520	8.3	20.6	31 W	25*	1*
1 22	18 19.31	+ 2 3.7	4.250	3.497	9.4	20.6	36 W	29*	9*
2 1	18 31.73	+ 2 32.1	4.162	3.473	10.6	20.6	41 W	32*	17*
2 11	18 43.80	+ 3 9.7	4.061	3.448	11.9	20.6	46 W	35*	24*
2 21	18 55.42	+ 3 56.2	3.947	3.423	13.1	20.5	52 W	37*	31*
3 2	19 6.45	+ 4 51.2	3.823	3.396	14.3	20.5	58 W	40*	37*
3 12	19 16.78	+ 5 54.0	3.689	3.369	15.3	20.4	64 W	42*	43*
3 22	19 26.26	+ 7 4.0	3.548	3.341	16.3	20.3	70 W	44*	48*
4 1	19 34.75	+ 8 20.2	3.402	3.311	17.1	20.3	76 W	47*	52*
4 11	19 42.08	+ 9 41.3	3.251	3.282	17.6	20.2	83 W	50*	53*
4 21	19 48.08	+11 5.8	3.099	3.251	18.0	20.1	90 W	52*	53
5 1	19 52.54	+12 31.9	2.947	3.219	18.1	19.9	96 W	55*	51
5 11	19 55.29	+13 56.8	2.799	3.187	18.0	19.8	103 W	58*	50
5 21	19 56.12	+15 17.5	2.656	3.154	17.5	19.6	110 W	60*	49
5 31	19 54.87	+16 29.8	2.522	3.120	16.8	19.5	117 W	61	48
6 10	19 51.49	+17 28.8	2.399	3.085	15.8	19.3	124 W	62	47
6 15	19 49.01	+17 51.7	2.343	3.067	15.3	19.2	127 W	63	46
6 20	19 46.03	+18 9.2	2.291	3.049	14.7	19.1	130 W	63	46
6 25	19 42.59	+18 20.6	2.243	3.031	14.2	19.1	133 W	63	46
6 30	19 38.75	+18 25.2	2.200	3.012	13.6	19.0	136 W	63	46
7 10	19 30.15	+18 12.2	2.128	2.975	12.8	18.9	139 W	63	46
7 20	19 20.93	+17 27.5	2.079	2.937	12.6	18.8	141 E	62	47
7 30	19 11.95	+16 11.2	2.051	2.898	13.2	18.7	139 E	61	48
8 4	19 7.82	+15 22.3	2.046	2.879	13.7	18.7	138 E	60	49
8 9	19 4.07	+14 27.1	2.046	2.859	14.4	18.7	135 E	59	50
8 14	19 0.77	+13 26.6	2.052	2.839	15.2	18.8	133 E	58	51
8 19	18 57.99	+12 21.6	2.062	2.818	16.0	18.8	130 E	57	52
8 24	18 55.80	+11 13.0	2.078	2.798	16.9	18.8	126 E	56	53
8 29	18 54.23	+10 2.1	2.098	2.777	17.8	18.9	123 E	55	54
9 3	18 53.31	+ 8 49.7	2.121	2.757	18.6	18.9	119 E	54	55
9 8	18 53.05	+ 7 36.7	2.148	2.736	19.4	18.9	115 E	53	56
9 13	18 53.44	+ 6 23.9	2.179	2.715	20.2	19.0	112 E	51	58
9 18	18 54.48	+ 5 12.0	2.212	2.693	20.8	19.0	108 E	50	59
9 28	18 58.48	+ 2 53.4	2.285	2.651	21.9	19.1	100 E	48	61
10 8	19 4.86	+ 0 44.6	2.364	2.607	22.5	19.1	93 E	46*	62*
10 18	19 13.41	− 1 11.7	2.445	2.563	22.8	19.2	85 E	44*	61*
10 28	19 23.92	− 2 54.2	2.527	2.518	22.7	19.2	78 E	42*	57*
11 7	19 36.17	− 4 21.8	2.606	2.473	22.3	19.2	71 E	40*	51*
11 17	19 49.95	− 5 34.4	2.682	2.428	21.6	19.2	65 E	38*	45*
11 27	20 5.09	− 6 31.8	2.751	2.382	20.6	19.2	58 E	36*	39*
12 7	20 21.40	− 7 14.3	2.813	2.336	19.4	19.2	52 E	34*	32*
12 17	20 38.75	− 7 42.5	2.866	2.290	17.9	19.1	46 E	31*	26*
12 27	20 57.00	− 7 56.8	2.909	2.244	16.3	19.1	40 E	28*	20*
1 6	21 16.04	− 7 58.2	2.942	2.198	14.5	19.0	34 E	24*	15*
1 16	21 35.78	− 7 47.5	2.965	2.153	12.6	18.9	29 E	20*	11*

280366 2003 TE

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	17 41.03	−29 0.6	2.923	1.952	3.7	19.9	7 W	—	1*
1 2	18 7.80	−30 14.7	2.863	1.909	5.8	19.9	11 W	—	5*
1 12	18 36.02	−31 13.9	2.797	1.868	8.0	20.0	15 W	—	9*
1 22	19 5.64	−31 56.2	2.727	1.828	10.3	19.9	19 W	—	13*
2 1	19 36.52	−32 19.4	2.653	1.790	12.5	19.9	23 W	—	16*
2 11	20 8.49	−32 21.6	2.578	1.754	14.7	19.9	27 W	—	20*
2 21	20 41.30	−32 1.3	2.503	1.720	16.7	19.9	30 W	—	22*
3 2	21 14.66	−31 17.6	2.430	1.689	18.7	19.8	33 W	—	24*
3 12	21 48.22	−30 10.3	2.361	1.662	20.5	19.8	36 W	—	26*
3 22	22 21.68	−28 40.5	2.297	1.638	22.2	19.7	38 W	—	28*
4 1	22 54.72	−26 50.1	2.238	1.618	23.8	19.7	41 W	—	30*

280366 2003 *TE* *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	23 27.05	−24 42.0	2.186	1.602	25.1	19.7	43 W	—	32*
4 21	23 58.49	−22 19.8	2.139	1.590	26.4	19.7	45 W	—	34*
5 1	0 28.87	−19 47.8	2.099	1.583	27.5	19.6	46 W	—	36*
5 11	0 58.09	−17 10.2	2.064	1.580	28.4	19.6	48 W	—	39*
5 21	1 26.11	−14 31.2	2.033	1.582	29.3	19.6	50 W	—	42*
5 31	1 52.88	−11 54.5	2.004	1.589	30.0	19.6	52 W	—	44*
6 10	2 18.40	− 9 23.2	1.977	1.601	30.7	19.6	54 W	—	47*
6 20	2 42.66	− 6 59.5	1.949	1.616	31.4	19.6	56 W	3*	50*
6 30	3 5.65	− 4 45.0	1.918	1.636	32.0	19.6	59 W	8*	52*
7 10	3 27.31	− 2 40.6	1.885	1.660	32.6	19.6	61 W	14*	54*
7 20	3 47.62	− 0 46.4	1.846	1.687	33.0	19.7	65 W	20*	56*
7 30	4 6.46	+ 0 58.1	1.803	1.717	33.4	19.7	69 W	27*	57*
8 9	4 23.70	+ 2 33.9	1.753	1.751	33.6	19.6	73 W	33*	58*
8 19	4 39.19	+ 4 2.8	1.697	1.786	33.7	19.6	78 W	40*	58*
8 29	4 52.67	+ 5 26.7	1.635	1.824	33.4	19.6	84 W	45*	58*
9 8	5 3.84	+ 6 48.5	1.568	1.864	32.7	19.5	90 W	50*	57*
9 18	5 12.35	+ 8 11.4	1.498	1.906	31.5	19.4	97 W	53*	56
9 28	5 17.72	+ 9 38.8	1.427	1.948	29.7	19.3	105 W	55	54
10 8	5 19.50	+11 14.6	1.358	1.992	27.2	19.2	114 W	56	53
10 18	5 17.21	+13 1.3	1.297	2.036	23.7	19.0	125 W	58	51
10 28	5 10.58	+15 0.1	1.247	2.081	19.3	18.8	136 W	60	49
11 7	4 59.76	+17 8.5	1.217	2.127	14.0	18.7	149 W	62	47
11 12	4 52.99	+18 14.4	1.210	2.150	11.1	18.6	155 W	63	46
11 17	4 45.53	+19 20.0	1.210	2.173	8.0	18.5	162 W	64	45
11 22	4 37.59	+20 24.2	1.218	2.196	4.9	18.4	169 W	65	44
11 27	4 29.43	+21 25.9	1.233	2.218	1.8	18.2	176 W	66	43
12 2	4 21.33	+22 24.2	1.256	2.241	1.2	18.2	177 E	67	42
12 7	4 13.51	+23 18.5	1.287	2.264	4.2	18.5	170 E	68	41
12 12	4 6.23	+24 8.5	1.325	2.287	6.9	18.7	164 E	69	40
12 17	3 59.66	+24 54.3	1.371	2.310	9.5	18.9	157 E	70	39
12 22	3 53.96	+25 36.2	1.423	2.333	11.8	19.1	151 E	71	38
12 27	3 49.22	+26 14.7	1.481	2.355	13.9	19.3	145 E	71	38
1 1	3 45.49	+26 50.2	1.545	2.378	15.7	19.5	139 E	72	37
1 6	3 42.76	+27 23.4	1.614	2.400	17.2	19.7	134 E	72	37
1 11	3 41.02	+27 54.8	1.687	2.423	18.6	19.8	128 E	73	36
1 16	3 40.24	+28 24.7	1.764	2.445	19.7	20.0	123 E	73	36

67367 2000 LY_{27}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	17 41.39	−23 32.8	2.562	1.584	3.0	20.3	5 W	—	—
1 2	18 10.00	−23 10.1	2.553	1.587	5.2	20.5	8 W	—	1*
1 12	18 38.34	−22 27.9	2.535	1.587	7.5	20.6	12 W	2*	5*
1 22	19 6.35	−21 26.5	2.509	1.584	9.7	20.6	16 W	3*	9*
2 1	19 33.96	−20 6.5	2.474	1.579	11.9	20.7	19 W	5*	12*
2 11	20 1.14	−18 28.9	2.433	1.572	14.2	20.7	23 W	6*	16*
2 21	20 27.89	−16 34.5	2.384	1.562	16.4	20.7	26 W	7*	20*
3 2	20 54.24	−14 24.4	2.329	1.550	18.5	20.7	30 W	8*	23*
3 12	21 20.24	−11 59.8	2.269	1.535	20.7	20.7	33 W	10*	27*
3 22	21 46.01	− 9 21.8	2.204	1.518	22.8	20.7	36 W	11*	30*
4 1	22 11.66	− 6 31.6	2.134	1.499	24.9	20.7	39 W	12*	33*
4 11	22 37.34	− 3 30.5	2.062	1.477	27.0	20.6	42 W	14*	35*
4 21	23 3.24	− 0 19.9	1.988	1.453	29.0	20.6	45 W	15*	37*
5 1	23 29.58	+ 2 58.4	1.912	1.428	31.0	20.5	47 W	17*	39*
5 11	23 56.61	+ 6 22.6	1.837	1.401	33.0	20.4	49 W	19*	40*
5 21	0 24.63	+ 9 50.1	1.763	1.372	34.9	20.4	51 W	21*	41*
5 31	0 53.94	+13 17.8	1.691	1.341	36.8	20.3	52 W	24*	40*
6 5	1 9.20	+15 0.4	1.656	1.326	37.8	20.2	53 W	25*	40*
6 10	1 24.91	+16 41.4	1.621	1.310	38.7	20.2	54 W	27*	39*
6 15	1 41.14	+18 20.1	1.588	1.294	39.6	20.1	54 W	28*	39*
6 20	1 57.92	+19 55.7	1.556	1.277	40.6	20.1	55 W	30*	38*
6 25	2 15.28	+21 27.4	1.525	1.261	41.5	20.0	55 W	32*	37*
6 30	2 33.26	+22 54.0	1.495	1.245	42.3	20.0	56 W	33*	36*
7 5	2 51.89	+24 14.6	1.467	1.228	43.2	19.9	56 W	35*	35*
7 10	3 11.18	+25 28.0	1.441	1.212	44.0	19.9	56 W	36*	34*
7 15	3 31.15	+26 33.1	1.415	1.196	44.8	19.9	56 W	38*	32*
7 20	3 51.75	+27 28.7	1.392	1.180	45.6	19.8	56 W	39*	31*
7 25	4 12.96	+28 13.4	1.370	1.164	46.4	19.8	56 W	40*	30*
7 30	4 34.70	+28 46.3	1.350	1.149	47.1	19.7	56 W	42*	29*
8 4	4 56.88	+29 6.3	1.332	1.135	47.8	19.7	56 W	42*	29*
8 9	5 19.42	+29 12.5	1.315	1.121	48.4	19.7	56 W	43*	28*
8 14	5 42.18	+29 4.5	1.301	1.107	48.9	19.6	55 W	44*	27*
8 19	6 5.02	+28 41.8	1.288	1.094	49.5	19.6	55 W	44*	27*
8 24	6 27.81	+28 4.5	1.277	1.083	49.9	19.6	55 W	44*	26*
8 29	6 50.42	+27 12.7	1.268	1.072	50.3	19.5	55 W	44*	26*
9 3	7 12.73	+26 7.1	1.261	1.062	50.6	19.5	54 W	44*	26*
9 8	7 34.66	+24 48.5	1.255	1.054	50.8	19.5	54 W	44*	26*
9 13	7 56.13	+23 17.9	1.251	1.046	51.0	19.5	54 W	44*	26*
9 18	8 17.07	+21 36.5	1.248	1.040	51.1	19.5	54 W	44*	26*
9 23	8 37.47	+19 45.5	1.246	1.036	51.2	19.4	53 W	43*	26*
9 28	8 57.30	+17 46.4	1.246	1.032	51.1	19.4	53 W	43*	26*
10 3	9 16.59	+15 40.5	1.247	1.030	51.0	19.4	53 W	43*	27*
10 8	9 35.35	+13 29.0	1.249	1.030	50.9	19.4	53 W	42*	28*

67367 2000 LY_{27} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 13	9 53.61	+11 13.4	1.251	1.031	50.7	19.4	53 W	41*	28*
10 18	10 11.40	+ 8 54.8	1.254	1.034	50.5	19.4	53 W	41*	29*
10 23	10 28.77	+ 6 34.4	1.258	1.038	50.3	19.4	53 W	40*	30*
10 28	10 45.74	+ 4 13.3	1.261	1.044	50.0	19.5	54 W	39*	31*
11 2	11 2.37	+ 1 52.5	1.265	1.050	49.7	19.5	54 W	39*	32*
11 7	11 18.71	− 0 27.3	1.269	1.058	49.4	19.5	54 W	38*	33*
11 12	11 34.78	− 2 45.2	1.272	1.068	49.1	19.5	55 W	37*	35*
11 17	11 50.63	− 5 0.5	1.275	1.078	48.8	19.5	55 W	35*	36*
11 27	12 21.73	− 9 20.8	1.279	1.102	48.3	19.6	56 W	33*	39*
12 7	12 52.26	−13 24.0	1.279	1.129	47.8	19.6	58 W	30*	43*
12 17	13 22.36	−17 7.3	1.274	1.158	47.4	19.6	60 W	27*	47*
12 27	13 52.07	−20 28.2	1.264	1.189	47.1	19.7	62 W	24*	51*
1 6	14 21.41	−23 25.2	1.248	1.222	46.9	19.7	65 W	21*	56*
1 16	14 50.31	−25 57.8	1.225	1.254	46.7	19.7	68 W	19*	60*

365435 2010 LA_{104}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	17 41.72	−20 11.7	2.653	1.678	3.4	21.3	6 W	—	—
1 2	18 11.32	−20 39.8	2.630	1.665	5.0	21.3	9 W	1*	—
1 12	18 41.25	−20 47.8	2.606	1.654	6.8	21.4	12 W	2*	4*
1 22	19 11.31	−20 35.3	2.579	1.646	8.7	21.4	15 W	3*	7*
2 1	19 41.29	−20 3.0	2.551	1.640	10.5	21.5	18 W	4*	11*

426362 2013 ND_{11}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	17 42.17	−27 34.4	2.581	1.607	3.8	21.2	6 W	—	—
1 2	18 15.22	−27 55.5	2.554	1.589	5.3	21.3	9 W	—	3*
1 12	18 48.76	−27 49.3	2.527	1.574	7.0	21.3	11 W	—	5*
1 22	19 22.40	−27 15.2	2.500	1.563	8.6	21.3	14 W	—	8*
2 1	19 55.77	−26 13.9	2.475	1.555	10.3	21.4	16 W	—	10*
2 11	20 28.51	−24 47.2	2.452	1.551	11.9	21.4	19 W	—	13*
2 21	21 0.37	−22 57.9	2.429	1.551	13.4	21.5	21 W	—	15*
3 2	21 31.16	−20 49.3	2.408	1.554	14.9	21.5	24 W	—	17*

66272 1999 JW_6

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	17 42.38	−36 11.7	2.593	1.653	8.0	20.8	13 W	—	4*
1 2	18 11.30	−38 22.9	2.580	1.666	10.0	20.9	17 W	—	8*
1 12	18 41.91	−40 16.1	2.556	1.677	12.2	21.0	21 W	—	12*
1 22	19 14.24	−41 49.3	2.525	1.688	14.4	21.1	25 W	—	15*
2 1	19 48.21	−43 0.9	2.486	1.697	16.5	21.1	29 W	—	18*
2 11	20 23.60	−43 48.9	2.443	1.705	18.5	21.1	33 W	—	20*
2 21	21 0.10	−44 11.7	2.396	1.711	20.3	21.2	37 W	—	22*
3 2	21 37.26	−44 8.4	2.347	1.717	22.0	21.2	40 W	—	24*
3 12	22 14.58	−43 39.1	2.298	1.720	23.5	21.2	44 W	—	25*
3 22	22 51.54	−42 44.8	2.250	1.723	24.8	21.2	46 W	—	26*
4 1	23 27.69	−41 28.1	2.205	1.724	26.0	21.2	49 W	—	27*
4 11	0 2.61	−39 52.4	2.162	1.723	27.0	21.2	51 W	—	28*
4 21	0 36.08	−38 1.6	2.122	1.721	27.9	21.2	53 W	—	30*
5 1	1 7.92	−36 0.5	2.085	1.718	28.7	21.1	55 W	—	32*
5 11	1 38.07	−33 53.5	2.051	1.713	29.4	21.1	56 W	—	34*
5 21	2 6.55	−31 44.8	2.017	1.707	30.1	21.1	58 W	—	37*
5 31	2 33.40	−29 38.1	1.983	1.699	30.7	21.1	59 W	—	41*
6 10	2 58.68	−27 36.3	1.948	1.690	31.4	21.0	60 W	—	44*
6 20	3 22.50	−25 41.5	1.909	1.680	32.1	21.0	61 W	—	48*
6 30	3 44.90	−23 55.4	1.865	1.669	32.8	20.9	63 W	—	52*
7 10	4 5.94	−22 18.5	1.815	1.656	33.7	20.9	65 W	—	55*
7 20	4 25.69	−20 50.9	1.758	1.642	34.6	20.8	66 W	—	59*
7 30	4 44.13	−19 32.2	1.691	1.627	35.6	20.8	69 W	5*	62*
8 9	5 1.27	−18 21.1	1.615	1.611	36.6	20.7	71 W	11*	65*
8 19	5 17.07	−17 15.9	1.529	1.594	37.7	20.6	75 W	16*	68*
8 29	5 31.40	−16 14.2	1.433	1.576	38.9	20.4	78 W	22*	71*
9 3	5 37.97	−15 43.5	1.381	1.567	39.4	20.3	80 W	24*	72*
9 8	5 44.12	−15 12.0	1.326	1.558	39.9	20.3	83 W	26*	74*
9 13	5 49.80	−14 39.3	1.269	1.548	40.3	20.2	85 W	28*	75*
9 18	5 54.96	−14 4.4	1.210	1.538	40.7	20.1	87 W	30*	75*
9 23	5 59.55	−13 26.1	1.149	1.529	41.0	19.9	90 W	31*	76*
9 28	6 3.49	−12 43.1	1.086	1.519	41.2	19.8	93 W	32*	76*
10 3	6 6.70	−11 53.6	1.022	1.509	41.2	19.7	96 W	33	76*
10 8	6 9.07	−10 55.5	0.956	1.499	41.0	19.5	100 W	34	75
10 13	6 10.44	− 9 46.1	0.890	1.489	40.6	19.3	104 W	35	74
10 18	6 10.62	− 8 21.5	0.823	1.478	39.8	19.1	108 W	37	72
10 23	6 9.37	− 6 37.1	0.757	1.468	38.5	18.9	113 W	38	71
10 28	6 6.38	− 4 26.3	0.692	1.458	36.7	18.6	119 W	41	68
11 2	6 1.25	− 1 41.5	0.629	1.448	34.1	18.3	125 W	43	66
11 7	5 53.47	+ 1 47.1	0.570	1.438	30.6	18.0	132 W	47	62
11 12	5 42.37	+ 6 9.7	0.516	1.428	25.9	17.6	141 W	51	58
11 17	5 27.15	+11 34.5	0.471	1.418	19.9	17.2	151 W	57	52
11 22	5 7.04	+18 0.9	0.436	1.409	12.6	16.8	162 W	63	46
11 27	4 41.43	+25 10.6	0.415	1.399	5.6	16.4	172 W	70	39
11 29	4 29.62	+28 6.4	0.411	1.396	4.9	16.3	173 W	73	36
12 1	4 16.96	+30 59.7	0.410	1.392	6.8	16.4	170 E	76	33

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		66272 1999 JW_6 *(continuation)*							
	h m	° ′			°	m	°	°	°
12 3	4 3.54	+33 47.2	0.411	1.388	9.8	16.5	166 E	79	30
12 5	3 49.48	+36 25.8	0.415	1.385	13.2	16.7	161 E	81	28
12 7	3 34.93	+38 53.0	0.421	1.381	16.6	16.8	156 E	84	25
12 9	3 20.09	+41 6.8	0.429	1.377	19.9	17.0	152 E	86	23
12 11	3 5.15	+43 6.4	0.440	1.374	23.0	17.1	147 E	88	21
12 13	2 50.35	+44 51.3	0.452	1.371	26.0	17.2	142 E	90	19
12 15	2 35.89	+46 22.2	0.466	1.367	28.7	17.4	138 E	89	18
12 17	2 21.95	+47 39.9	0.482	1.364	31.2	17.5	134 E	87	16
12 19	2 8.69	+48 45.8	0.498	1.361	33.5	17.7	130 E	86	15
12 21	1 56.20	+49 41.4	0.516	1.357	35.5	17.8	127 E	85	14
12 23	1 44.57	+50 28.2	0.535	1.354	37.3	17.9	123 E	85	14
12 25	1 33.83	+51 7.7	0.555	1.351	39.0	18.0	120 E	84	13
12 27	1 23.98	+51 41.3	0.575	1.348	40.4	18.1	117 E	83	12*
12 29	1 15.02	+52 10.1	0.596	1.345	41.7	18.2	115 E	83	11*
12 31	1 6.89	+52 35.1	0.617	1.342	42.8	18.3	112 E	82	11*
1 2	0 59.58	+52 57.3	0.638	1.339	43.8	18.4	110 E	82	10*
1 4	0 53.02	+53 17.3	0.660	1.336	44.7	18.5	107 E	82	9*
1 6	0 47.16	+53 35.8	0.681	1.334	45.4	18.6	105 E	81	8*
1 8	0 41.96	+53 53.3	0.703	1.331	46.1	18.7	103 E	81	7*
1 10	0 37.37	+54 10.2	0.724	1.328	46.6	18.8	101 E	81	6*
1 12	0 33.33	+54 26.7	0.746	1.326	47.1	18.9	99 E	81*	4*
1 14	0 29.81	+54 43.3	0.767	1.323	47.5	18.9	97 E	80*	3*
1 16	0 26.75	+55 0.0	0.788	1.321	47.8	19.0	96 E	79*	2*
		98302 2000 SX_{237}							
12 23	17 43.50	−23 48.1	2.711	1.732	2.5	18.6	4 W	—	—
1 2	18 13.03	−24 13.5	2.680	1.711	4.5	18.7	8 W	—	1*
1 12	18 43.08	−24 18.2	2.646	1.692	6.5	18.7	11 W	—	5*
1 22	19 13.45	−24 1.4	2.610	1.675	8.5	18.8	14 W	—	8*
2 1	19 43.88	−23 23.2	2.572	1.661	10.4	18.8	18 W	1*	12*
2 11	20 14.16	−22 24.4	2.534	1.649	12.3	18.8	21 W	1*	15*
2 21	20 44.08	−21 6.4	2.495	1.640	14.1	18.9	24 W	1*	18*
3 2	21 13.49	−19 31.2	2.456	1.634	15.9	18.9	27 W	2*	21*
3 12	21 42.25	−17 41.3	2.416	1.631	17.7	18.9	30 W	2*	24*
3 22	22 10.29	−15 39.4	2.377	1.631	19.3	18.9	33 W	2*	27*
4 1	22 37.58	−13 28.5	2.337	1.634	20.9	18.9	36 W	3*	30*
4 11	23 4.09	−11 11.5	2.297	1.640	22.5	19.0	39 W	3*	33*
4 21	23 29.85	− 8 51.3	2.256	1.648	24.0	19.0	42 W	4*	36*
5 1	23 54.85	− 6 30.8	2.214	1.659	25.4	19.0	45 W	6*	39*
5 11	0 19.10	− 4 12.4	2.170	1.673	26.7	19.0	48 W	7*	42*
5 21	0 42.64	− 1 58.4	2.125	1.690	27.9	19.0	51 W	10*	45*
5 31	1 5.44	+ 0 9.0	2.077	1.708	29.0	19.0	55 W	12*	48*
6 10	1 27.46	+ 2 8.2	2.027	1.729	30.0	19.0	59 W	16*	50*
6 20	1 48.67	+ 3 57.8	1.973	1.752	30.9	19.0	62 W	20*	52*
6 30	2 8.95	+ 5 36.5	1.915	1.776	31.7	19.0	67 W	25*	54*
7 10	2 28.20	+ 7 3.7	1.854	1.802	32.2	19.0	71 W	31*	54*
7 20	2 46.26	+ 8 18.9	1.789	1.829	32.6	18.9	76 W	37*	55*
7 30	3 2.89	+ 9 21.7	1.720	1.858	32.7	18.9	81 W	43*	54*
8 9	3 17.85	+10 12.4	1.649	1.887	32.4	18.8	87 W	48*	54
8 19	3 30.81	+10 51.2	1.575	1.917	31.8	18.8	93 W	53*	53
8 29	3 41.39	+11 18.8	1.499	1.948	30.7	18.6	100 W	56*	53
9 8	3 49.16	+11 36.1	1.425	1.979	29.0	18.5	108 W	57	52
9 18	3 53.70	+11 44.2	1.354	2.011	26.7	18.4	116 W	57	52
9 28	3 54.57	+11 44.4	1.290	2.042	23.5	18.2	126 W	57	52
10 8	3 51.57	+11 38.5	1.236	2.074	19.6	18.0	136 W	57	52
10 18	3 44.79	+11 28.4	1.198	2.106	14.8	17.8	147 W	56	53
10 28	3 34.84	+11 16.9	1.180	2.138	9.5	17.6	159 W	56	53
11 2	3 29.04	+11 11.7	1.179	2.153	6.8	17.5	165 W	56	53
11 7	3 22.95	+11 7.3	1.186	2.169	4.4	17.4	170 W	56	53
11 12	3 16.76	+11 4.3	1.199	2.185	3.1	17.4	173 W	56	53
11 17	3 10.69	+11 3.2	1.218	2.200	4.1	17.5	171 E	56	53
11 27	2 59.72	+11 8.0	1.278	2.231	8.7	17.9	160 E	56	53
12 7	2 51.28	+11 24.0	1.362	2.261	13.2	18.2	148 E	56	53
12 17	2 46.01	+11 51.6	1.468	2.291	16.9	18.5	137 E	57	52
12 27	2 44.11	+12 30.4	1.591	2.320	19.8	18.8	127 E	58	51
1 6	2 45.36	+13 18.5	1.728	2.349	21.8	19.1	117 E	58	51
1 16	2 49.42	+14 13.9	1.875	2.377	23.1	19.3	108 E	59	50*
		93038 2000 RL_{104}							
12 23	17 43.60	−12 47.8	3.463	2.507	4.5	19.8	12 W	5*	—
1 2	18 1.73	−12 18.6	3.471	2.535	5.8	19.9	15 W	9*	—
1 12	18 19.42	−11 39.6	3.465	2.562	7.5	20.0	20 W	13*	4*
1 22	18 36.58	−10 51.2	3.446	2.588	9.2	20.1	25 W	16*	11*
2 1	18 53.14	− 9 53.5	3.414	2.614	11.0	20.1	31 W	19*	17*
2 11	19 9.01	− 8 47.1	3.369	2.638	12.8	20.2	36 W	21*	24*
2 21	19 24.12	− 7 32.4	3.312	2.662	14.4	20.2	42 W	24*	30*
3 2	19 38.36	− 6 10.1	3.244	2.685	15.9	20.3	48 W	26*	37*
3 12	19 51.64	− 4 41.0	3.165	2.707	17.3	20.3	54 W	28*	43*
3 22	20 3.87	− 3 5.9	3.076	2.728	18.5	20.3	61 W	31*	49*
4 1	20 14.91	− 1 25.5	2.980	2.748	19.6	20.3	67 W	33*	54*
4 11	20 24.65	+ 0 19.0	2.877	2.768	20.3	20.2	74 W	36*	58*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		93038 2000 RL_{104} *(continuation)*							
	h m	° ′			°	m	°	°	°
4 21	20 32.93	+ 2 6.4	2.770	2.786	20.8	20.2	80 W	39*	60*
5 1	20 39.58	+ 3 55.3	2.660	2.804	21.0	20.1	88 W	43*	60*
5 11	20 44.43	+ 5 43.8	2.550	2.820	20.9	20.0	95 W	46*	58
5 21	20 47.27	+ 7 29.6	2.441	2.836	20.4	19.9	102 W	50*	57
5 31	20 47.92	+ 9 9.7	2.338	2.850	19.5	19.8	110 W	53*	55
6 10	20 46.27	+10 40.3	2.244	2.864	18.2	19.7	118 W	56	53
6 20	20 42.27	+11 57.2	2.161	2.877	16.6	19.6	126 W	57	52
6 30	20 36.07	+12 55.4	2.093	2.889	14.8	19.4	134 W	58	51
7 10	20 28.04	+13 30.4	2.044	2.900	12.9	19.3	140 W	59	50
7 20	20 18.78	+13 38.8	2.016	2.910	11.5	19.2	145 W	59	50
7 30	20 9.10	+13 19.6	2.012	2.919	10.8	19.2	147 E	58	51
8 9	19 59.93	+12 34.9	2.031	2.927	11.2	19.3	146 E	58	51
8 14	19 55.78	+12 4.4	2.050	2.930	11.8	19.3	144 E	57	52
8 19	19 52.06	+11 29.4	2.075	2.934	12.5	19.4	141 E	56	53
8 24	19 48.83	+10 50.7	2.105	2.937	13.3	19.4	138 E	56	53
8 29	19 46.14	+10 9.4	2.140	2.940	14.1	19.5	135 E	55	54
9 3	19 44.05	+ 9 26.3	2.180	2.942	15.0	19.6	131 E	54	55
9 8	19 42.56	+ 8 42.2	2.225	2.945	15.8	19.6	127 E	54	55
9 13	19 41.68	+ 7 57.8	2.273	2.947	16.6	19.7	123 E	53	56
9 18	19 41.42	+ 7 13.8	2.326	2.949	17.3	19.8	119 E	52	57
9 28	19 42.70	+ 5 49.4	2.439	2.952	18.5	19.9	111 E	51	58
10 8	19 46.22	+ 4 32.8	2.561	2.954	19.2	20.1	103 E	50	59
10 18	19 51.75	+ 3 26.1	2.689	2.955	19.6	20.2	95 E	48	60*
10 28	19 59.05	+ 2 31.1	2.820	2.956	19.6	20.3	88 E	48	57*
11 7	20 7.87	+ 1 48.4	2.950	2.955	19.3	20.4	81 E	47*	53*
11 17	20 17.99	+ 1 18.3	3.078	2.953	18.7	20.5	73 E	46*	47*
11 27	20 29.18	+ 1 0.8	3.200	2.950	17.9	20.5	67 E	45*	40*
12 7	20 41.26	+ 0 55.5	3.316	2.947	16.8	20.5	60 E	43*	33*
12 17	20 54.06	+ 1 1.9	3.423	2.942	15.5	20.6	53 E	41*	25*
12 27	21 7.45	+ 1 19.4	3.520	2.936	14.1	20.6	47 E	37*	18*
1 6	21 21.29	+ 1 47.2	3.605	2.930	12.6	20.6	41 E	33*	12*
1 16	21 35.48	+ 2 24.7	3.678	2.922	11.0	20.5	35 E	28*	6*
		208565 2002 CT_{11}							
12 23	17 45.08	−53 31.4	2.004	1.256	23.2	20.2	30 W	—	12*
12 28	18 15.08	−53 17.6	1.961	1.214	23.9	20.1	30 W	—	11*
1 2	18 45.71	−52 36.8	1.920	1.171	24.5	20.0	30 W	—	10*
1 7	19 16.34	−51 26.7	1.881	1.126	25.0	19.9	29 E	—	10*
1 12	19 46.34	−49 45.9	1.843	1.080	25.4	19.8	28 E	—	11*
1 17	20 15.18	−47 34.2	1.808	1.034	25.6	19.6	27 E	—	11*
1 22	20 42.48	−44 52.1	1.776	0.986	25.6	19.5	26 E	—	11*
1 27	21 8.02	−41 41.0	1.746	0.937	25.4	19.3	24 E	—	11*
2 1	21 31.72	−38 2.6	1.719	0.888	24.7	19.2	22 E	—	11*
2 6	21 53.62	−33 59.1	1.695	0.839	23.7	19.0	20 E	—	10*
2 11	22 13.86	−29 32.3	1.673	0.791	22.2	18.8	18 E	—	9*
2 16	22 32.62	−24 44.2	1.653	0.744	20.1	18.6	15 E	—	7*
2 21	22 50.11	−19 36.8	1.634	0.700	17.4	18.3	12 E	—	6*
2 26	23 6.57	−14 12.0	1.616	0.661	14.5	18.1	10 E	—	4*
3 2	23 22.26	− 8 32.0	1.595	0.627	12.0	17.8	8 E	—	1*
3 7	23 37.47	− 2 39.5	1.573	0.601	11.9	17.7	7 E	1*	—
3 12	23 52.56	+ 3 22.0	1.546	0.585	15.2	17.7	9 E	3*	—
3 17	0 7.97	+ 9 28.4	1.516	0.581	20.8	17.8	12 E	5*	—
3 22	0 24.20	+15 35.0	1.482	0.588	27.2	18.0	16 E	8*	—
3 27	0 41.87	+21 37.0	1.446	0.606	33.4	18.2	20 E	11*	—
4 1	1 1.67	+27 29.2	1.410	0.634	38.8	18.4	23 E	14*	—
4 6	1 24.39	+33 5.9	1.377	0.669	43.2	18.6	27 E	17*	—
4 11	1 50.88	+38 19.9	1.349	0.710	46.5	18.8	31 E	21*	—
4 13	2 2.73	+40 17.2	1.339	0.727	47.5	18.8	32 E	22*	—
4 15	2 15.37	+42 8.7	1.331	0.745	48.3	18.9	34 E	24*	—
4 17	2 28.83	+43 53.5	1.324	0.764	49.0	19.0	35 E	25*	—
4 19	2 43.14	+45 31.0	1.318	0.782	49.5	19.0	36 E	27*	—
4 21	2 58.31	+47 0.2	1.314	0.801	49.8	19.1	38 E	28*	—
4 23	3 14.30	+48 20.4	1.311	0.821	50.1	19.1	39 E	30*	—
4 25	3 31.07	+49 30.6	1.310	0.840	50.2	19.2	40 E	31*	—
4 27	3 48.53	+50 30.2	1.310	0.860	50.2	19.2	41 E	33*	—
4 29	4 6.56	+51 18.6	1.312	0.879	50.1	19.3	42 E	34*	—
5 1	4 25.01	+51 55.3	1.316	0.899	49.9	19.3	43 E	35*	—
5 3	4 43.70	+52 20.2	1.321	0.918	49.6	19.4	44 E	37*	—
5 5	5 2.43	+52 33.4	1.328	0.938	49.3	19.4	45 E	38*	—
5 7	5 21.02	+52 35.1	1.336	0.957	48.9	19.5	46 E	39*	—
5 9	5 39.26	+52 25.9	1.346	0.977	48.4	19.5	46 E	40*	—
5 11	5 57.01	+52 6.6	1.357	0.996	47.9	19.6	47 E	41*	2*
5 13	6 14.13	+51 38.0	1.370	1.015	47.3	19.6	48 E	42*	3*
5 15	6 30.51	+51 1.0	1.384	1.034	46.7	19.6	48 E	42*	5*
5 17	6 46.10	+50 16.9	1.400	1.053	46.1	19.7	49 E	43*	6*
5 19	7 0.87	+49 26.4	1.416	1.072	45.4	19.7	49 E	43*	7*
5 21	7 14.79	+48 30.8	1.434	1.090	44.7	19.8	49 E	43*	9*
5 23	7 27.90	+47 30.8	1.453	1.109	44.0	19.8	50 E	43*	10*
5 25	7 40.21	+46 27.4	1.474	1.127	43.3	19.9	50 E	43*	12*
5 27	7 51.77	+45 21.2	1.495	1.145	42.6	19.9	50 E	43*	13*

208565 2002 CT_{11} *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 29	8 2.62	+44 13.0	1.517	1.163	41.9	20.0	50 E	42*	14*
5 31	8 12.80	+43 3.4	1.540	1.180	41.2	20.0	50 E	42*	15*
6 2	8 22.38	+41 52.8	1.564	1.198	40.4	20.1	50 E	41*	17*
6 4	8 31.39	+40 41.6	1.588	1.215	39.7	20.1	50 E	41*	18*
6 6	8 39.88	+39 30.2	1.613	1.232	39.0	20.1	50 E	40*	19*
6 8	8 47.90	+38 19.0	1.639	1.249	38.2	20.2	50 E	39*	20*
6 10	8 55.49	+37 8.0	1.665	1.265	37.5	20.2	49 E	38*	21*
6 15	9 12.83	+34 13.3	1.733	1.306	35.7	20.3	49 E	36*	23*
6 20	9 28.21	+31 23.9	1.803	1.345	33.9	20.4	48 E	33*	25*
6 25	9 42.03	+28 40.9	1.873	1.382	32.1	20.5	46 E	30*	27*
6 30	9 54.62	+26 4.6	1.945	1.419	30.4	20.6	45 E	27*	28*
7 5	10 6.19	+23 35.1	2.016	1.453	28.6	20.7	43 E	25*	28*
7 10	10 16.96	+21 12.1	2.087	1.487	26.9	20.8	41 E	22*	28*
7 15	10 27.07	+18 55.2	2.157	1.519	25.3	20.8	40 E	19*	28*
7 20	10 36.64	+16 43.9	2.225	1.550	23.6	20.9	38 E	17*	27*
7 25	10 45.77	+14 37.8	2.291	1.580	22.0	21.0	36 E	14*	27*
7 30	10 54.53	+12 36.3	2.355	1.608	20.4	21.0	33 E	12*	25*
8 4	11 2.98	+10 39.1	2.416	1.635	18.8	21.0	31 E	10*	24*
8 9	11 11.18	+ 8 45.7	2.474	1.661	17.2	21.1	29 E	8*	22*
8 14	11 19.17	+ 6 55.6	2.529	1.685	15.6	21.1	27 E	6*	20*
8 19	11 26.99	+ 5 8.5	2.580	1.709	14.1	21.1	24 E	4*	18*
8 24	11 34.66	+ 3 24.0	2.628	1.731	12.5	21.1	22 E	3*	16*
8 29	11 42.22	+ 1 41.9	2.672	1.752	11.0	21.1	19 E	1*	13*
9 3	11 49.68	+ 0 1.8	2.712	1.771	9.6	21.1	17 E	—	11*
9 8	11 57.06	− 1 36.5	2.747	1.790	8.1	21.1	15 E	—	9*
9 13	12 4.38	− 3 13.3	2.779	1.807	6.7	21.1	12 E	—	6*
9 18	12 11.66	− 4 48.7	2.805	1.824	5.4	21.1	10 E	—	3*
9 23	12 18.91	− 6 23.2	2.828	1.839	4.3	21.1	8 E	—	1*
9 28	12 26.14	− 7 56.6	2.846	1.853	3.4	21.0	6 E	—	—
10 3	12 33.36	− 9 29.4	2.859	1.866	3.0	21.0	6 W	—	—
10 8	12 40.58	−11 1.6	2.868	1.877	3.3	21.1	6 W	—	—
10 13	12 47.82	−12 33.5	2.871	1.888	4.2	21.1	8 W	—	2*
10 18	12 55.08	−14 5.2	2.871	1.898	5.3	21.2	10 W	—	4*
10 23	13 2.37	−15 36.8	2.865	1.906	6.5	21.3	12 W	—	6*
10 28	13 9.70	−17 8.6	2.855	1.914	7.8	21.3	15 W	1*	9*
11 2	13 17.07	−18 40.5	2.841	1.920	9.1	21.4	18 W	3*	11*
11 7	13 24.50	−20 12.9	2.822	1.925	10.4	21.4	20 W	4*	14*
11 12	13 31.99	−21 45.9	2.799	1.929	11.7	21.5	23 W	6*	16*

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12 23	17 45.10	−22 0.7	2.179	1.200	3.5	19.6	4 W	—	—
12 28	18 5.75	−22 32.7	2.160	1.182	3.7	19.6	4 W	—	—
1 2	18 26.87	−22 55.1	2.142	1.165	3.9	19.5	5 W	—	—
1 7	18 48.36	−23 7.0	2.128	1.151	4.1	19.5	5 W	—	—
1 12	19 10.11	−23 8.0	2.116	1.140	4.2	19.5	5 W	—	—
1 17	19 32.02	−22 57.8	2.108	1.131	4.4	19.5	5 W	—	—
1 22	19 53.97	−22 36.3	2.102	1.126	4.6	19.5	5 W	—	—
1 27	20 15.84	−22 3.8	2.100	1.124	4.8	19.5	5 W	—	—
2 1	20 37.51	−21 20.7	2.101	1.125	5.0	19.5	6 W	—	—
2 6	20 58.87	−20 27.6	2.104	1.129	5.2	19.5	6 W	—	—
2 11	21 19.84	−19 25.7	2.111	1.136	5.4	19.5	6 W	—	—
2 16	21 40.35	−18 15.7	2.121	1.145	5.7	19.6	7 W	—	—
2 21	22 0.34	−16 59.0	2.134	1.158	5.9	19.6	7 W	—	—
2 26	22 19.79	−15 36.6	2.149	1.174	6.1	19.7	7 W	—	—
3 2	22 38.66	−14 9.9	2.166	1.191	6.4	19.7	8 W	—	—
3 7	22 56.94	−12 40.0	2.186	1.212	6.6	19.8	8 W	—	—
3 12	23 14.65	−11 7.9	2.207	1.234	6.9	19.9	9 W	—	1*
3 17	23 31.79	− 9 34.7	2.231	1.258	7.2	20.0	9 W	—	1*
3 22	23 48.40	− 8 1.3	2.255	1.284	7.5	20.0	10 W	—	2*
3 27	0 4.48	− 6 28.4	2.281	1.311	7.8	20.1	10 W	—	2*
4 1	0 20.07	− 4 56.8	2.308	1.340	8.1	20.2	11 W	—	3*
4 11	0 49.86	− 1 59.6	2.362	1.401	8.9	20.4	13 W	—	5*
4 21	1 17.98	+ 0 46.8	2.416	1.465	9.9	20.6	15 W	—	7*
5 1	1 44.62	+ 3 20.1	2.468	1.532	11.0	20.8	17 W	—	10*
5 11	2 9.93	+ 5 39.0	2.516	1.600	12.2	21.0	20 W	—	13*
5 21	2 34.04	+ 7 42.9	2.558	1.669	13.5	21.1	23 W	—	16*
5 31	2 57.03	+ 9 31.8	2.592	1.739	14.8	21.3	26 W	—	20*
6 10	3 18.93	+11 6.1	2.617	1.808	16.2	21.4	30 W	3*	24*

5587 1990 SB

12 23	17 46.17	−14 12.6	2.056	1.101	8.9	16.2	10 W	3*	—
1 2	18 29.77	−13 45.4	2.046	1.091	9.1	16.2	10 W	4*	—
1 12	19 13.16	−12 47.3	2.050	1.095	8.9	16.2	10 W	3*	—
1 22	19 55.56	−11 21.9	2.070	1.112	8.5	16.2	10 W	3*	—
1 27	20 16.19	−10 30.6	2.085	1.125	8.1	16.2	9 W	3*	—
2 1	20 36.34	− 9 34.8	2.104	1.141	7.8	16.3	9 W	3*	—
2 6	20 55.99	− 8 35.1	2.125	1.160	7.4	16.3	9 W	3*	—
2 11	21 15.09	− 7 32.6	2.149	1.181	7.0	16.3	8 W	2*	—
2 16	21 33.64	− 6 27.9	2.175	1.205	6.7	16.4	8 W	2*	—
2 21	21 51.63	− 5 21.7	2.202	1.231	6.3	16.5	8 W	2*	—

5587 1990 SB *(continued)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 2	22 25.93	− 3 7.8	2.262	1.287	5.9	16.6	8 W	1*	—
3 12	22 58.09	− 0 55.5	2.325	1.349	6.0	16.8	8 W	1*	—
3 22	23 28.27	+ 1 12.0	2.389	1.415	6.6	16.9	9 W	1*	2*
4 1	23 56.65	+ 3 12.1	2.450	1.484	7.7	17.2	11 W	1*	5*
4 11	0 23.41	+ 5 3.1	2.507	1.554	9.0	17.4	14 W	1*	8*
4 21	0 48.73	+ 6 43.9	2.558	1.626	10.6	17.6	17 W	2*	11*
5 1	1 12.72	+ 8 13.8	2.601	1.698	12.2	17.8	21 W	2*	15*
5 11	1 35.50	+ 9 32.3	2.635	1.770	13.9	17.9	25 W	4*	19*
5 21	1 57.13	+10 39.0	2.658	1.842	15.5	18.1	29 W	5*	23*
5 31	2 17.66	+11 33.8	2.671	1.913	17.1	18.2	34 W	8*	27*
6 10	2 37.10	+12 16.5	2.672	1.983	18.6	18.4	39 W	11*	31*
6 20	2 55.43	+12 47.2	2.661	2.052	20.0	18.5	44 W	15*	35*
6 30	3 12.60	+13 5.8	2.638	2.119	21.3	18.6	49 W	20*	39*
7 10	3 28.53	+13 12.4	2.603	2.185	22.4	18.7	55 W	25*	42*
7 20	3 43.13	+13 6.9	2.558	2.250	23.3	18.7	61 W	31*	45*
7 30	3 56.24	+12 49.5	2.502	2.314	23.9	18.7	68 W	38*	48*
8 9	4 7.70	+12 20.1	2.437	2.375	24.3	18.7	74 W	44*	50*
8 19	4 17.32	+11 39.0	2.365	2.436	24.3	18.7	82 W	49*	52*
8 29	4 24.86	+10 46.2	2.287	2.494	23.9	18.7	90 W	53*	53*
9 8	4 30.07	+ 9 42.3	2.208	2.552	23.0	18.6	98 W	54*	54
9 18	4 32.72	+ 8 28.0	2.130	2.607	21.6	18.6	107 W	53	56
9 28	4 32.59	+ 7 4.7	2.058	2.662	19.7	18.5	117 W	52	57
10 8	4 29.58	+ 5 34.9	1.997	2.714	17.2	18.4	127 W	51	58
10 18	4 23.78	+ 4 2.2	1.952	2.765	14.2	18.3	137 W	49	60
10 23	4 19.92	+ 3 16.3	1.937	2.790	12.6	18.2	142 W	48	61
10 28	4 15.52	+ 2 31.7	1.928	2.815	11.0	18.2	147 W	48	61
11 2	4 10.66	+ 1 49.3	1.925	2.839	9.5	18.1	152 W	47	62
11 7	4 5.47	+ 1 9.7	1.930	2.863	8.1	18.1	156 W	46	63
11 12	4 0.04	+ 0 33.8	1.941	2.886	7.1	18.1	159 W	46	63
11 17	3 54.52	+ 0 2.1	1.960	2.909	6.6	18.1	160 W	45	64
11 27	3 43.74	− 0 46.4	2.021	2.955	7.5	18.2	157 E	44	65
12 7	3 34.10	− 1 13.7	2.110	2.998	9.7	18.4	149 E	44	65
12 17	3 26.29	− 1 20.2	2.226	3.040	12.2	18.7	139 E	44	65
12 27	3 20.77	− 1 8.1	2.363	3.081	14.3	18.9	129 E	44	65
1 6	3 17.65	− 0 41.0	2.517	3.121	15.9	19.1	119 E	44	65
1 16	3 16.87	− 0 2.3	2.685	3.159	17.0	19.3	110 E	45	64

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12 23	17 46.24	−23 33.3	3.347	2.366	1.5	19.2	4 W	—	—
1 2	18 7.40	−23 31.0	3.302	2.336	3.8	19.3	9 W	—	2*
1 12	18 28.84	−23 17.7	3.244	2.305	6.1	19.3	14 W	2*	7*
1 22	18 50.48	−22 53.0	3.176	2.273	8.3	19.4	20 W	4*	13*
2 1	19 12.22	−22 16.8	3.098	2.241	10.6	19.4	25 W	6*	18*
2 11	19 33.99	−21 29.0	3.011	2.208	12.8	19.4	30 W	7*	23*
2 21	19 55.70	−20 29.8	2.916	2.176	15.0	19.3	35 W	9*	28*
3 2	20 17.30	−19 19.5	2.814	2.143	17.1	19.3	39 W	10*	33*
3 12	20 38.72	−17 58.7	2.705	2.110	19.2	19.3	44 W	11*	38*
3 22	20 59.94	−16 27.9	2.592	2.077	21.2	19.2	49 W	12*	43*
4 1	21 20.91	−14 48.0	2.475	2.045	23.1	19.1	53 W	13*	47*
4 11	21 41.62	−12 59.8	2.356	2.012	25.0	19.0	58 W	15*	52*
4 21	22 2.06	−11 4.2	2.234	1.980	26.7	18.9	62 W	17*	56*
5 1	22 22.22	− 9 2.3	2.112	1.948	28.4	18.8	67 W	19*	60*
5 11	22 42.09	− 6 55.3	1.990	1.918	29.9	18.7	71 W	21*	63*
5 21	23 1.68	− 4 44.2	1.869	1.887	31.3	18.6	75 W	24*	65*
5 31	23 20.95	− 2 30.7	1.749	1.858	32.5	18.4	80 W	27*	65*
6 10	23 39.86	− 0 16.0	1.632	1.831	33.5	18.3	84 W	31*	64*
6 20	23 58.37	+ 1 58.4	1.519	1.804	34.3	18.1	88 W	36*	62
6 30	0 16.34	+ 4 10.4	1.408	1.779	34.8	17.9	93 W	41*	60
7 10	0 33.65	+ 6 18.4	1.302	1.756	35.0	17.7	98 W	46*	58
7 20	0 50.09	+ 8 20.3	1.201	1.735	34.8	17.5	103 W	51*	56
7 30	1 5.32	+10 13.6	1.105	1.716	34.2	17.3	108 W	55*	54
8 9	1 18.99	+11 56.0	1.015	1.700	33.1	17.1	114 W	57	52
8 19	1 30.59	+13 24.7	0.931	1.685	31.3	16.8	120 W	58	51
8 29	1 39.52	+14 36.4	0.856	1.674	28.6	16.5	127 W	60	49
9 8	1 45.25	+15 27.9	0.790	1.665	25.1	16.3	135 W	60	49
9 18	1 47.29	+15 55.7	0.736	1.660	20.6	16.0	144 W	61	48
9 28	1 45.57	+15 57.2	0.695	1.657	15.1	15.6	154 W	61	48
10 8	1 40.71	+15 32.8	0.671	1.657	8.9	15.3	165 W	61	48
10 13	1 37.48	+15 12.2	0.666	1.658	5.7	15.2	170 W	60	49
10 18	1 34.01	+14 47.3	0.665	1.660	3.1	15.0	175 W	60	49
10 23	1 30.56	+14 19.6	0.670	1.663	3.4	15.1	174 E	59	50
10 28	1 27.38	+13 50.8	0.679	1.666	6.2	15.2	170 E	59	50
11 2	1 24.68	+13 22.8	0.694	1.670	9.3	15.4	164 E	58	51
11 7	1 22.64	+12 56.8	0.712	1.675	12.3	15.6	159 E	58	51
11 12	1 21.39	+12 34.3	0.736	1.681	15.2	15.8	153 E	58	51
11 17	1 21.02	+12 16.2	0.764	1.687	17.9	16.0	148 E	57	52
11 27	1 23.09	+11 56.2	0.831	1.701	22.5	16.3	139 E	57	52
12 7	1 28.74	+11 58.6	0.912	1.718	26.1	16.7	130 E	57	52
12 17	1 37.59	+12 21.3	1.004	1.738	28.7	17.0	122 E	57	52

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		8651 Alineraynal *(continuation)*							
	h m	° ′			°	m	°	°	°
12 27	1 49.17	+13 1.4	1.106	1.759	30.6	17.3	115 E	58	51
1 6	2 2.97	+13 54.4	1.216	1.782	31.7	17.5	108 E	59	50*
1 16	2 18.57	+14 56.1	1.332	1.807	32.2	17.8	102 E	60	48*
		163693 Atira							
12 23	17 46.83	−19 7.5	1.665	0.693	8.0	17.2	6 W	—	—
12 28	18 13.97	−20 42.1	1.637	0.659	5.4	16.9	4 W	—	—
1 2	18 42.73	−22 4.5	1.608	0.625	2.1	16.6	1 W	—	—
1 7	19 13.20	−23 10.5	1.575	0.593	2.0	16.4	1 E	—	—
1 12	19 45.37	−23 55.0	1.539	0.563	7.0	16.5	4 E	—	—
1 17	20 19.09	−24 11.9	1.500	0.537	13.0	16.6	7 E	—	1*
1 22	20 54.02	−23 55.0	1.455	0.517	19.8	16.7	10 E	—	4*
1 27	21 29.59	−22 58.9	1.407	0.505	27.2	16.8	14 E	—	7*
2 1	22 5.10	−21 20.0	1.354	0.503	34.9	16.9	17 E	2*	11*
2 6	22 39.84	−18 57.6	1.300	0.509	42.4	17.1	20 E	5*	13*
2 11	23 13.25	−15 54.3	1.247	0.524	49.1	17.2	24 E	9*	16*
2 16	23 45.01	−12 15.5	1.196	0.546	54.8	17.4	27 E	12*	18*
2 21	0 15.08	− 8 8.2	1.151	0.574	59.2	17.5	30 E	16*	20*
2 26	0 43.58	− 3 40.3	1.112	0.605	62.4	17.7	33 E	20*	21*
3 2	1 10.74	+ 0 59.7	1.082	0.638	64.5	17.8	36 E	24*	21*
3 7	1 36.81	+ 5 43.8	1.059	0.672	65.6	17.9	38 E	27*	21*
3 12	2 2.08	+10 24.6	1.043	0.706	66.0	18.0	40 E	30*	21*
3 17	2 26.80	+14 55.8	1.035	0.739	65.8	18.0	43 E	33*	21*
3 22	2 51.18	+19 11.9	1.033	0.771	65.2	18.1	45 E	36*	20*
3 27	3 15.41	+23 9.1	1.036	0.800	64.3	18.2	46 E	38*	19*
4 1	3 39.62	+26 44.6	1.043	0.828	63.3	18.2	48 E	40*	19*
4 6	4 3.90	+29 56.7	1.053	0.854	62.3	18.3	49 E	42*	18*
4 11	4 28.30	+32 44.4	1.066	0.877	61.2	18.3	50 E	43*	17*
4 16	4 52.83	+35 7.6	1.080	0.899	60.1	18.4	51 E	44*	17*
4 21	5 17.47	+37 6.6	1.094	0.917	59.2	18.4	52 E	45*	16*
4 26	5 42.15	+38 42.1	1.109	0.934	58.3	18.5	52 E	45*	16*
5 1	6 6.78	+39 54.8	1.123	0.947	57.5	18.5	52 E	45*	16*
5 6	6 31.23	+40 45.9	1.137	0.959	56.8	18.5	53 E	45*	16*
5 11	6 55.37	+41 16.3	1.149	0.968	56.2	18.6	53 E	45*	16*
5 16	7 19.09	+41 27.4	1.159	0.974	55.8	18.6	53 E	45*	17*
5 21	7 42.27	+41 20.2	1.168	0.978	55.4	18.6	53 E	44*	17*
5 26	8 4.83	+40 56.1	1.174	0.980	55.2	18.6	53 E	44*	18*
5 31	8 26.68	+40 16.2	1.178	0.979	55.2	18.6	52 E	43*	19*
6 5	8 47.76	+39 21.6	1.179	0.975	55.2	18.6	52 E	42*	20*
6 10	9 8.05	+38 13.3	1.178	0.969	55.4	18.6	52 E	41*	21*
6 20	9 46.24	+35 18.4	1.166	0.950	56.3	18.6	51 E	38*	23*
6 30	10 21.37	+31 36.7	1.142	0.921	57.9	18.5	50 E	35*	26*
7 10	10 53.53	+27 10.8	1.105	0.882	60.3	18.4	49 E	32*	29*
7 15	11 8.54	+24 41.4	1.081	0.859	62.0	18.3	48 E	30*	30*
7 20	11 22.84	+22 0.6	1.054	0.834	63.9	18.3	47 E	28*	31*
7 25	11 36.37	+19 8.2	1.022	0.806	66.3	18.2	47 E	26*	32*
7 30	11 49.05	+16 3.6	0.987	0.777	69.1	18.2	46 E	24*	33*
8 4	12 0.74	+12 46.1	0.949	0.746	72.5	18.1	44 E	22*	33*
8 9	12 11.21	+ 9 15.1	0.906	0.713	76.5	18.0	43 E	19*	34*
8 14	12 20.12	+ 5 29.9	0.860	0.679	81.4	18.0	42 E	16*	33*
8 19	12 26.92	+ 1 30.7	0.812	0.645	87.2	18.0	40 E	12*	33*
8 24	12 30.84	− 2 40.9	0.761	0.612	94.2	18.0	37 E	8*	31*
8 29	12 30.76	− 6 59.6	0.711	0.580	102.4	18.1	34 E	3*	28*
8 31	12 29.29	− 8 42.7	0.692	0.568	106.1	18.2	33 E	1*	27*
9 2	12 26.88	−10 24.0	0.673	0.557	109.9	18.3	31 E	—	25*
9 4	12 23.42	−12 1.8	0.655	0.547	113.9	18.5	30 E	—	23*
9 6	12 18.87	−13 34.3	0.638	0.537	117.9	18.7	28 E	—	20*
9 8	12 13.19	−14 59.2	0.624	0.528	121.8	18.9	26 E	—	18*
9 10	12 6.41	−16 14.0	0.611	0.521	125.6	19.1	25 E	—	15*
9 12	11 58.63	−17 16.0	0.600	0.514	129.1	19.4	23 E	—	12*
9 14	11 50.02	−18 2.7	0.592	0.509	131.9	19.6	22 E	—	8*
9 16	11 40.85	−18 32.3	0.587	0.505	133.9	19.8	21 E	—	5*
9 18	11 31.45	−18 43.4	0.585	0.503	134.9	19.9	21 W	—	6*
9 20	11 22.20	−18 36.0	0.586	0.502	134.7	19.8	21 W	—	9*
9 22	11 13.45	−18 11.0	0.589	0.503	133.3	19.7	21 W	—	12*
9 24	11 5.52	−17 30.5	0.596	0.505	131.0	19.5	22 W	—	14*
9 26	10 58.67	−16 37.2	0.606	0.509	128.0	19.3	24 W	—	17*
9 28	10 53.06	−15 34.1	0.617	0.514	124.4	19.0	25 W	—	19*
9 30	10 48.76	−14 24.2	0.631	0.521	120.5	18.8	27 W	2*	21*
10 2	10 45.78	−13 10.3	0.646	0.528	116.5	18.6	28 W	5*	22*
10 4	10 44.05	−11 54.8	0.663	0.537	112.5	18.4	30 W	8*	23*
10 6	10 43.51	−10 39.5	0.680	0.546	108.6	18.2	31 W	11*	24*
10 8	10 44.03	− 9 26.0	0.698	0.557	104.9	18.1	33 W	14*	25*
10 10	10 45.50	− 8 15.2	0.717	0.568	101.4	18.0	34 W	16*	25*
10 12	10 47.81	− 7 7.9	0.735	0.580	98.0	18.0	35 W	18*	26*
10 14	10 50.86	− 6 4.3	0.753	0.593	94.9	17.9	36 W	20*	26*
10 16	10 54.54	− 5 4.8	0.771	0.605	92.0	17.9	37 W	22*	26*
10 18	10 58.76	− 4 9.4	0.789	0.618	89.3	17.9	38 W	23*	26*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		163693 Atira *(continuation)*							
	h m	° ′			°	m	°	°	°
10 23	11 11.21	− 2 8.4	0.831	0.652	83.3	17.9	41 W	27*	25*
10 28	11 25.66	− 0 30.7	0.869	0.686	78.5	17.9	43 W	30*	25*
11 2	11 41.44	+ 0 46.7	0.902	0.719	74.5	18.0	44 W	33*	24*
11 7	11 58.12	+ 1 46.8	0.932	0.752	71.2	18.0	46 W	35*	24*
11 12	12 15.39	+ 2 32.3	0.957	0.783	68.5	18.1	47 W	36*	23*
11 17	12 33.04	+ 3 5.7	0.978	0.812	66.3	18.1	49 W	38*	23*
11 22	12 50.94	+ 3 29.2	0.996	0.839	64.5	18.2	50 W	39*	23*
11 27	13 9.00	+ 3 44.4	1.011	0.864	62.9	18.2	51 W	41*	23*
12 2	13 27.16	+ 3 52.7	1.023	0.886	61.7	18.3	52 W	42*	23*
12 7	13 45.41	+ 3 55.5	1.031	0.906	60.7	18.3	53 W	42*	23*
12 12	14 3.71	+ 3 53.6	1.038	0.924	59.9	18.4	54 W	43*	24*
12 17	14 22.07	+ 3 48.0	1.042	0.939	59.3	18.4	55 W	43*	24*
12 22	14 40.48	+ 3 39.3	1.045	0.952	58.8	18.4	56 W	44*	25*
12 27	14 58.94	+ 3 28.2	1.045	0.963	58.5	18.4	57 W	44*	26*
1 1	15 17.48	+ 3 14.9	1.044	0.971	58.3	18.4	57 W	44*	27*
1 6	15 36.14	+ 2 59.9	1.042	0.976	58.2	18.4	58 W	44*	28*
1 11	15 54.92	+ 2 43.3	1.038	0.979	58.3	18.4	58 W	43*	30*
1 16	16 13.87	+ 2 25.4	1.033	0.980	58.4	18.4	58 W	43*	31*
		216265 2006 WD_{60}							
12 23	17 46.89	−19 59.4	2.840	1.862	2.6	21.3	5 W	—	—
1 2	18 13.72	−20 0.2	2.797	1.830	4.4	21.3	8 W	1*	—
1 12	18 41.07	−19 43.5	2.750	1.798	6.4	21.4	12 W	3*	3*
1 22	19 8.82	−19 8.8	2.699	1.769	8.4	21.4	15 W	5*	7*
2 1	19 36.82	−18 15.7	2.645	1.740	10.4	21.4	19 W	6*	11*
2 11	20 4.91	−17 4.8	2.590	1.714	12.4	21.4	22 W	7*	15*
2 21	20 32.98	−15 36.7	2.533	1.690	14.3	21.4	25 W	7*	18*
3 2	21 0.93	−13 52.9	2.476	1.668	16.2	21.4	28 W	8*	22*
3 12	21 28.65	−11 55.1	2.419	1.649	18.1	21.3	31 W	8*	25*
3 22	21 56.12	− 9 45.5	2.363	1.633	19.9	21.3	34 W	9*	28*
4 1	22 23.29	− 7 26.5	2.308	1.620	21.6	21.3	37 W	10*	30*
4 11	22 50.14	− 5 1.0	2.254	1.610	23.2	21.3	39 W	10*	33*
4 21	23 16.70	− 2 31.7	2.202	1.604	24.8	21.3	42 W	11*	36*
5 1	23 42.96	− 0 1.5	2.151	1.601	26.3	21.3	45 W	12*	38*
5 11	0 8.91	+ 2 26.6	2.100	1.601	27.7	21.3	47 W	14*	40*
5 21	0 34.58	+ 4 50.1	2.050	1.605	29.0	21.3	50 W	16*	42*
5 31	0 59.92	+ 7 6.1	2.001	1.613	30.2	21.3	53 W	18*	44*
6 10	1 24.90	+ 9 12.4	1.951	1.623	31.3	21.2	56 W	22*	45*
6 20	1 49.46	+11 7.0	1.900	1.637	32.3	21.2	59 W	25*	46*
6 30	2 13.46	+12 48.1	1.847	1.654	33.2	21.2	63 W	30*	47*
7 10	2 36.78	+14 14.4	1.793	1.674	33.9	21.2	67 W	35*	47*
7 20	2 59.24	+15 25.2	1.736	1.696	34.4	21.2	71 W	40*	47*
7 30	3 20.58	+16 19.8	1.677	1.721	34.7	21.1	75 W	46*	47*
8 9	3 40.56	+16 58.3	1.615	1.748	34.8	21.1	80 W	51*	47*
8 19	3 58.87	+17 21.1	1.550	1.776	34.6	21.0	85 W	56*	47*
8 29	4 15.12	+17 28.8	1.484	1.807	34.0	21.0	91 W	60*	47
9 8	4 28.93	+17 22.7	1.416	1.838	32.9	20.9	97 W	62*	47
9 18	4 39.86	+17 4.0	1.348	1.871	31.3	20.7	104 W	62	47
9 28	4 47.41	+16 34.3	1.283	1.905	29.1	20.6	112 W	62	47
10 8	4 51.21	+15 55.5	1.223	1.940	26.1	20.5	121 W	61	48
10 18	4 50.91	+15 9.6	1.171	1.975	22.3	20.3	131 W	60	49
10 28	4 46.51	+14 19.5	1.132	2.010	17.7	20.1	142 W	59	50
11 2	4 42.91	+13 53.9	1.119	2.028	15.2	20.0	148 W	59	50
11 7	4 38.51	+13 28.7	1.111	2.046	12.5	19.9	153 W	58	51
11 12	4 33.45	+13 4.4	1.109	2.064	9.8	19.8	159 W	58	51
11 17	4 27.91	+12 41.7	1.112	2.082	7.2	19.8	165 W	58	51
11 22	4 22.13	+12 21.2	1.122	2.100	5.1	19.7	169 W	57	52
11 27	4 16.32	+12 3.6	1.138	2.118	4.2	19.7	171 W	57	52
12 2	4 10.69	+11 49.3	1.161	2.136	5.3	19.8	169 E	57	52
12 7	4 5.44	+11 38.8	1.191	2.154	7.3	20.0	164 E	57	52
12 17	3 56.69	+11 29.7	1.268	2.190	11.8	20.3	153 E	56	53
12 27	3 50.96	+11 36.8	1.367	2.226	15.8	20.7	142 E	57	52
1 6	3 48.56	+11 58.3	1.485	2.261	19.0	21.0	132 E	57	52
1 16	3 49.38	+12 31.3	1.619	2.295	21.4	21.3	122 E	58	51
		122159 2000 JM_{81}							
12 23	17 47.89	−22 47.5	2.871	1.890	1.8	20.0	3 W	—	—
1 2	18 14.97	−22 32.6	2.826	1.855	3.9	20.1	7 W	—	—
1 12	18 42.51	−21 59.2	2.776	1.822	6.0	20.1	11 W	1*	4*
1 22	19 10.36	−21 6.7	2.723	1.790	8.1	20.1	15 W	3*	8*
2 1	19 38.36	−19 54.8	2.668	1.760	10.1	20.1	18 W	4*	11*
2 11	20 6.34	−18 23.9	2.610	1.732	12.2	20.1	22 W	5*	15*
2 21	20 34.19	−16 34.9	2.552	1.707	14.1	20.1	25 W	6*	18*
3 2	21 1.79	−14 29.1	2.494	1.685	16.0	20.1	28 W	7*	22*
3 12	21 29.06	−12 8.5	2.437	1.665	17.9	20.1	31 W	8*	25*
3 22	21 55.98	− 9 35.3	2.380	1.649	19.7	20.1	34 W	9*	28*
4 1	22 22.51	− 6 52.1	2.326	1.637	21.4	20.0	37 W	10*	30*
4 11	22 48.64	− 4 1.8	2.273	1.628	23.0	20.0	39 W	11*	33*
4 21	23 14.42	− 1 7.2	2.221	1.622	24.5	20.0	42 W	13*	35*
5 1	23 39.85	+ 1 48.6	2.172	1.621	26.0	20.0	45 W	14*	38*
5 11	0 4.95	+ 4 42.6	2.123	1.623	27.3	20.0	48 W	16*	40*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	122159 2000 JM_{81}							*(continuation)*	
	h m	° ′			°	m	°	°	°
5 21	0 29.73	+ 7 32.2	2.075	1.630	28.6	20.0	50 W	19*	41*
5 31	0 54.18	+10 14.7	2.027	1.640	29.8	20.0	53 W	22*	43*
6 10	1 18.26	+12 47.8	1.979	1.653	30.8	20.0	57 W	25*	43*
6 20	1 41.92	+15 9.6	1.930	1.670	31.7	20.0	60 W	30*	44*
6 30	2 5.04	+17 18.4	1.880	1.690	32.5	20.0	63 W	34*	44*
7 10	2 27.47	+19 13.1	1.827	1.713	33.2	20.0	67 W	40*	43*
7 20	2 49.05	+20 53.0	1.771	1.739	33.6	19.9	71 W	46*	42*
7 30	3 9.49	+22 17.8	1.713	1.767	33.9	19.9	76 W	52*	41*
8 9	3 28.53	+23 27.7	1.651	1.798	33.9	19.9	81 W	58*	40*
8 19	3 45.81	+24 23.1	1.587	1.830	33.5	19.8	87 W	64*	40
8 29	4 0.91	+25 4.8	1.521	1.864	32.8	19.7	93 W	68*	39
9 8	4 13.41	+25 33.6	1.453	1.899	31.6	19.6	99 W	71*	38
9 18	4 22.80	+25 50.4	1.387	1.936	29.8	19.5	107 W	71	38
9 28	4 28.58	+25 55.4	1.323	1.973	27.3	19.4	115 W	71	38
10 8	4 30.38	+25 48.7	1.266	2.012	24.0	19.3	125 W	71	38
10 18	4 27.98	+25 29.3	1.219	2.051	20.0	19.1	135 W	70	39
10 28	4 21.59	+24 56.2	1.187	2.090	15.1	18.9	147 W	70	39
11 2	4 17.13	+24 34.4	1.178	2.110	12.4	18.8	153 W	70	39
11 7	4 12.02	+24 9.3	1.175	2.130	9.6	18.7	159 W	69	40
11 12	4 6.46	+23 41.3	1.177	2.150	6.7	18.6	165 W	69	40
11 17	4 0.64	+23 11.0	1.186	2.169	3.8	18.5	172 W	68	41
11 22	3 54.82	+22 39.1	1.202	2.189	1.2	18.4	177 W	68	41
11 27	3 49.20	+22 6.6	1.225	2.209	2.4	18.5	175 E	67	42
12 2	3 43.99	+21 34.6	1.254	2.229	5.0	18.8	169 E	67	42
12 7	3 39.33	+21 3.9	1.290	2.249	7.6	19.0	162 E	66	43
12 12	3 35.36	+20 35.4	1.332	2.269	10.0	19.2	156 E	66	43
12 17	3 32.15	+20 9.7	1.381	2.288	12.3	19.3	150 E	65	44
12 22	3 29.77	+19 47.5	1.434	2.308	14.3	19.5	145 E	65	44
12 27	3 28.23	+19 29.0	1.493	2.328	16.0	19.7	139 E	64	45
1 1	3 27.52	+19 14.3	1.556	2.347	17.6	19.8	134 E	64	45
1 6	3 27.60	+19 3.3	1.623	2.366	18.9	20.0	129 E	64	45
1 11	3 28.43	+18 56.0	1.694	2.386	20.0	20.1	124 E	64	45
1 16	3 29.99	+18 52.0	1.768	2.405	21.0	20.3	119 E	64	45
	237805 2002 CF_{26}								
12 23	17 48.35	+73 6.9	0.719	1.283	49.6	19.1	97 W	48*	—
12 25	17 51.68	+74 1.2	0.720	1.292	49.0	19.1	97 W	48*	—
12 27	17 55.34	+74 58.3	0.721	1.302	48.4	19.1	98 W	49*	—
12 29	17 59.39	+75 58.3	0.722	1.311	47.7	19.1	99 W	49*	—
12 31	18 3.92	+77 1.1	0.724	1.321	47.1	19.1	100 W	49*	—
1 2	18 9.07	+78 6.7	0.725	1.331	46.4	19.1	101 W	49*	—
1 3	18 11.95	+78 40.5	0.725	1.335	46.1	19.1	102 W	49*	—
1 4	18 15.06	+79 15.0	0.726	1.340	45.8	19.1	102 W	49*	—
1 5	18 18.47	+79 50.2	0.727	1.345	45.5	19.1	103 W	49*	—
1 6	18 22.23	+80 26.0	0.728	1.350	45.2	19.1	103 W	48*	—
1 7	18 26.40	+81 2.3	0.728	1.355	44.8	19.1	104 W	48*	—
1 8	18 31.11	+81 39.3	0.729	1.360	44.5	19.1	104 W	48*	—
1 9	18 36.47	+82 16.8	0.730	1.365	44.2	19.1	105 W	48*	—
1 10	18 42.68	+82 54.8	0.731	1.370	43.9	19.1	105 W	48*	—
1 11	18 50.01	+83 33.1	0.732	1.375	43.6	19.1	106 W	47*	—
1 12	18 58.84	+84 11.7	0.733	1.379	43.2	19.1	106 W	47*	—
1 13	19 9.75	+84 50.5	0.734	1.384	42.9	19.1	107 W	47*	—
1 14	19 23.66	+85 29.1	0.735	1.389	42.6	19.1	107 W	46*	—
1 15	19 42.02	+86 7.1	0.737	1.394	42.3	19.1	107 W	46*	—
1 16	20 7.30	+86 43.9	0.738	1.399	42.0	19.1	108 E	46*	—
1 17	20 43.64	+87 17.9	0.739	1.404	41.7	19.1	108 E	46*	—
1 18	21 37.42	+87 46.5	0.741	1.409	41.4	19.1	109 E	46*	—
1 19	22 54.38	+88 5.0	0.743	1.414	41.1	19.1	109 E	47*	—
1 20	0 27.29	+88 7.5	0.745	1.419	40.8	19.1	110 E	47*	—
1 21	1 51.77	+87 52.5	0.747	1.424	40.5	19.1	110 E	47	—
1 22	2 53.30	+87 24.6	0.749	1.429	40.2	19.1	110 E	48	—
1 23	3 34.95	+86 49.1	0.751	1.434	40.0	19.1	111 E	48	—
1 24	4 3.58	+86 9.1	0.753	1.438	39.7	19.1	111 E	49	—
1 25	4 24.10	+85 26.5	0.756	1.443	39.4	19.2	111 E	50	—
1 26	4 39.47	+84 42.1	0.759	1.448	39.2	19.2	112 E	50	—
1 27	4 51.44	+83 56.5	0.761	1.453	38.9	19.2	112 E	51	—
1 28	5 1.08	+83 10.0	0.764	1.458	38.7	19.2	112 E	52	—
1 29	5 9.06	+82 22.8	0.768	1.463	38.4	19.2	113 E	53	—
1 30	5 15.82	+81 35.1	0.771	1.468	38.2	19.2	113 E	53	—
1 31	5 21.67	+80 46.9	0.774	1.473	38.0	19.2	113 E	54	—
2 1	5 26.81	+79 58.3	0.778	1.478	37.7	19.2	113 E	55	—
2 2	5 31.40	+79 9.4	0.782	1.483	37.5	19.2	114 E	56	—
2 3	5 35.55	+78 20.4	0.786	1.488	37.3	19.2	114 E	57	—
2 4	5 39.35	+77 31.1	0.790	1.492	37.1	19.3	114 E	57	—
2 5	5 42.85	+76 41.8	0.795	1.497	37.0	19.3	114 E	58	—
2 6	5 46.11	+75 52.3	0.799	1.502	36.8	19.3	114 E	59	—
2 7	5 49.17	+75 2.8	0.804	1.507	36.6	19.3	114 E	60	—
2 8	5 52.05	+74 13.3	0.809	1.512	36.5	19.3	114 E	61	—
2 9	5 54.79	+73 23.9	0.814	1.517	36.3	19.3	114 E	62	—
2 10	5 57.40	+72 34.5	0.820	1.522	36.2	19.4	114 E	62	—
2 11	5 59.90	+71 45.2	0.825	1.526	36.0	19.4	114 E	63	—

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	237805 2002 CF_{26}							*(continuation)*	
	h m	° ′			°	m	°	°	°
2 13	6 4.64	+70 7.1	0.837	1.536	35.8	19.4	114 E	65	—
2 15	6 9.08	+68 29.8	0.850	1.546	35.6	19.5	114 E	67	—
2 17	6 13.29	+66 53.4	0.863	1.555	35.4	19.5	114 E	68	—
2 19	6 17.33	+65 18.1	0.877	1.565	35.3	19.5	114 E	70	—
2 21	6 21.23	+63 44.2	0.892	1.574	35.2	19.6	113 E	71	—
2 23	6 25.02	+62 11.9	0.908	1.583	35.1	19.6	113 E	73	2
2 25	6 28.71	+60 41.1	0.925	1.593	35.0	19.7	113 E	74	3
2 27	6 32.33	+59 12.1	0.942	1.602	35.0	19.7	112 E	76	5
2 29	6 35.89	+57 44.9	0.960	1.611	34.9	19.8	111 E	77	6
3 2	6 39.40	+56 19.7	0.979	1.620	34.9	19.8	111 E	79	8
3 7	6 47.98	+52 55.2	1.030	1.643	34.9	20.0	109 E	82	11
3 12	6 56.37	+49 43.4	1.084	1.666	34.9	20.1	107 E	85	14
3 17	7 4.60	+46 43.9	1.142	1.687	34.9	20.3	104 E	88	17
3 22	7 12.74	+43 56.4	1.203	1.709	34.8	20.4	102 E	89	20
4 1	7 28.85	+38 53.9	1.334	1.751	34.6	20.7	96 E	84*	25
4 11	7 44.78	+34 29.0	1.473	1.791	34.0	20.9	91 E	77*	30
4 21	8 0.57	+30 34.1	1.618	1.829	33.2	21.1	85 E	69*	33
5 1	8 16.27	+27 2.5	1.764	1.865	32.1	21.3	79 E	61*	37*
	461634 2005 EF_{169}								
12 23	17 48.99	+13 29.8	2.213	1.547	22.5	20.4	37 W	23*	—
1 2	18 24.35	+12 51.7	2.198	1.521	22.5	20.3	36 W	24*	—
1 12	18 59.58	+12 16.0	2.196	1.499	22.0	20.3	35 W	24*	—
1 22	19 34.22	+11 42.8	2.206	1.482	21.2	20.2	33 W	23*	—
2 1	20 7.92	+11 12.5	2.225	1.469	20.1	20.2	31 W	23*	—
2 11	20 40.39	+10 44.6	2.250	1.462	18.8	20.1	29 W	21*	—
2 21	21 11.53	+10 18.7	2.278	1.459	17.5	20.1	26 W	20*	—
3 2	21 41.31	+ 9 53.9	2.304	1.461	16.4	20.1	25 W	19*	2*
3 12	22 9.76	+ 9 29.0	2.325	1.469	15.7	20.1	24 W	17*	6*
3 22	22 37.02	+ 9 2.7	2.339	1.481	15.6	20.2	24 W	16*	10*
4 1	23 3.21	+ 8 33.6	2.344	1.498	16.3	20.2	25 W	14*	14*
4 11	23 28.46	+ 7 59.7	2.339	1.520	17.6	20.3	27 W	13*	18*
4 21	23 52.92	+ 7 19.4	2.323	1.545	19.3	20.4	31 W	12*	23*
5 1	0 16.69	+ 6 30.3	2.295	1.574	21.3	20.4	35 W	11*	27*
5 11	0 39.88	+ 5 30.2	2.257	1.606	23.4	20.5	39 W	11*	32*
5 21	1 2.57	+ 4 16.4	2.208	1.641	25.4	20.6	44 W	11*	37*
5 31	1 24.79	+ 2 46.3	2.152	1.678	27.3	20.6	49 W	11*	43*
6 10	1 46.55	+ 0 56.8	2.089	1.717	28.9	20.6	55 W	12*	48*
6 20	2 7.83	− 1 15.0	2.022	1.758	30.2	20.7	60 W	13*	53*
6 30	2 28.56	− 3 52.0	1.952	1.800	31.1	20.7	66 W	15*	59*
7 10	2 48.62	− 6 56.6	1.884	1.844	31.6	20.7	72 W	17*	64*
7 20	3 7.88	−10 30.4	1.820	1.887	31.8	20.6	78 W	19*	70*
7 30	3 26.08	−14 33.6	1.762	1.932	31.5	20.6	84 W	20*	75*
8 9	3 42.98	−19 4.4	1.713	1.976	30.9	20.6	89 W	19*	81*
8 19	3 58.24	−23 58.5	1.677	2.021	30.0	20.6	94 W	18*	88*
8 29	4 11.41	−29 8.9	1.656	2.065	28.9	20.5	99 W	15*	87
9 8	4 22.03	−34 25.8	1.650	2.110	27.8	20.5	102 W	11*	82
9 18	4 29.50	−39 38.0	1.660	2.154	26.8	20.6	105 W	5	76
9 28	4 33.20	−44 33.0	1.685	2.197	25.9	20.6	107 W	—	71
10 8	4 32.56	−48 58.6	1.725	2.240	25.2	20.7	108 W	—	67
10 18	4 27.21	−52 43.7	1.778	2.282	24.6	20.8	107 W	—	63
10 28	4 17.26	−55 38.5	1.841	2.324	24.2	20.9	106 W	—	60
11 7	4 3.66	−57 36.7	1.913	2.365	23.9	21.0	105 W	—	58
11 17	3 48.13	−58 35.7	1.991	2.405	23.7	21.1	102 W	—	57
11 27	3 32.93	−58 38.0	2.073	2.444	23.4	21.2	100 E	—	57
12 7	3 20.12	−57 50.9	2.159	2.482	23.2	21.3	97 E	—	58
12 17	3 10.94	−56 23.7	2.246	2.519	22.9	21.5	94 E	—	60
	1922 Zulu								
12 23	17 49.66	− 8 10.5	2.616	1.689	9.0	16.1	16 W	7*	—
1 2	18 17.81	− 6 31.8	2.612	1.703	10.2	16.2	18 W	11*	—
1 12	18 45.56	− 4 37.9	2.610	1.722	11.5	16.3	20 W	14*	—
1 22	19 12.79	− 2 30.3	2.610	1.746	12.6	16.3	23 W	17*	—
2 1	19 39.36	− 0 10.8	2.613	1.773	13.8	16.4	25 W	19*	3*
2 11	20 5.16	+ 2 18.3	2.617	1.805	14.8	16.5	28 W	21*	6*
2 21	20 30.13	+ 4 54.5	2.623	1.839	15.8	16.6	30 W	23*	10*
3 2	20 54.21	+ 7 35.4	2.630	1.877	16.7	16.7	33 W	25*	14*
3 12	21 17.34	+10 18.7	2.637	1.917	17.5	16.7	36 W	27*	17*
3 22	21 39.53	+13 2.2	2.643	1.960	18.3	16.8	38 W	28*	20*
4 1	22 0.74	+15 44.2	2.646	2.005	19.2	16.9	41 W	30*	23*
4 11	22 20.95	+18 22.9	2.646	2.052	19.9	17.0	44 W	32*	25*
4 21	22 40.15	+20 57.2	2.642	2.100	20.7	17.0	48 W	34*	28*
5 1	22 58.29	+23 26.1	2.632	2.149	21.4	17.1	51 W	36*	30*
5 11	23 15.32	+25 48.5	2.615	2.200	22.1	17.2	55 W	39*	31*
5 21	23 31.15	+28 4.0	2.592	2.251	22.8	17.2	59 W	43*	32*
5 31	23 45.68	+30 11.9	2.561	2.302	23.3	17.3	64 W	47*	32*
6 10	23 58.76	+32 11.3	2.522	2.355	23.7	17.3	69 W	52*	31*
6 20	0 10.21	+34 1.8	2.477	2.407	24.0	17.3	74 W	57*	30
6 30	0 19.79	+35 42.1	2.425	2.460	24.0	17.3	80 W	64*	28
7 10	0 27.27	+37 10.8	2.367	2.512	23.8	17.3	86 W	72*	27
7 20	0 32.37	+38 26.0	2.306	2.565	23.3	17.3	93 W	80*	26

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	1922 Zulu				*(continuation)*				
	h m	° ′			°	m	°	°	°
7 30	0 34.82	+39 24.6	2.244	2.617	22.5	17.2	100 W	84	25
8 9	0 34.46	+40 3.0	2.183	2.670	21.2	17.2	108 W	85	24
8 19	0 31.27	+40 16.6	2.127	2.722	19.6	17.1	116 W	85	24
8 24	0 28.68	+40 12.4	2.102	2.747	18.6	17.1	120 W	85	24
8 29	0 25.49	+40 0.3	2.080	2.773	17.6	17.0	124 W	85	24
9 3	0 21.80	+39 39.7	2.061	2.799	16.5	17.0	128 W	85	24
9 8	0 17.70	+39 10.5	2.047	2.824	15.3	17.0	132 W	84	25
9 13	0 13.31	+38 32.3	2.037	2.850	14.2	16.9	136 W	84	25
9 18	0 8.76	+37 45.5	2.033	2.875	13.0	16.9	140 W	83	26
9 23	0 4.20	+36 50.3	2.034	2.900	12.0	16.9	143 W	82	27
9 28	23 59.76	+35 47.6	2.041	2.925	11.1	16.9	146 E	81	28
10 3	23 55.56	+34 38.5	2.055	2.950	10.4	16.9	148 E	80	29
10 8	23 51.72	+33 24.2	2.075	2.975	10.0	16.9	149 E	78	31
10 13	23 48.31	+32 6.0	2.102	3.000	10.0	16.9	149 E	77	32
10 18	23 45.42	+30 45.4	2.136	3.024	10.2	17.0	147 E	76	33
10 23	23 43.09	+29 23.8	2.178	3.049	10.7	17.1	145 E	74	35
10 28	23 41.35	+28 2.9	2.225	3.073	11.4	17.2	142 E	73	36
11 2	23 40.21	+26 43.7	2.280	3.097	12.2	17.3	139 E	72	37
11 7	23 39.66	+25 27.3	2.340	3.121	13.0	17.4	135 E	70	39
11 12	23 39.68	+24 14.7	2.406	3.144	13.8	17.5	131 E	69	40
11 17	23 40.26	+23 6.5	2.477	3.168	14.5	17.6	127 E	68	41
11 27	23 42.96	+21 5.0	2.634	3.215	15.8	17.8	118 E	66	43
12 7	23 47.48	+19 24.9	2.805	3.261	16.6	18.0	109 E	64	44*
12 17	23 53.53	+18 6.0	2.986	3.306	17.0	18.2	100 E	63	43*
12 27	0 0.87	+17 7.1	3.174	3.351	17.1	18.3	92 E	62	40*
1 6	0 9.25	+16 25.9	3.364	3.395	16.7	18.5	83 E	61	36*
1 16	0 18.49	+16 0.3	3.554	3.438	16.1	18.6	75 E	60*	32*
	52310 1991 *VJ*								
12 23	17 49.80	−27 17.9	2.801	1.823	2.6	18.8	5 W	—	—
1 2	18 18.13	−28 17.7	2.753	1.786	4.6	18.9	8 W	—	2*
1 12	18 47.70	−28 59.3	2.701	1.751	6.7	18.9	12 W	—	6*
1 22	19 18.37	−29 20.7	2.645	1.718	8.9	18.9	16 W	—	9*
2 1	19 49.95	−29 20.3	2.587	1.687	11.0	18.9	19 W	—	13*
2 11	20 22.18	−28 57.1	2.528	1.658	13.1	18.9	22 W	—	16*
2 21	20 54.82	−28 10.4	2.469	1.632	15.0	18.9	25 W	—	18*
3 2	21 27.57	−27 0.8	2.412	1.608	16.9	18.8	28 W	—	20*
3 12	22 0.15	−25 29.3	2.359	1.589	18.7	18.8	31 W	—	23*
3 22	22 32.34	−23 38.0	2.308	1.572	20.3	18.8	33 W	—	25*
4 1	23 3.93	−21 29.8	2.262	1.560	21.8	18.8	35 W	—	27*
4 11	23 34.78	−19 8.1	2.221	1.551	23.2	18.8	38 W	—	29*
4 21	0 4.79	−16 36.6	2.184	1.547	24.4	18.8	40 W	—	31*
5 1	0 33.90	−13 59.3	2.150	1.547	25.6	18.8	41 W	—	33*
5 11	1 2.07	−11 20.1	2.120	1.551	26.6	18.8	43 W	—	36*
5 21	1 29.30	− 8 42.4	2.092	1.559	27.5	18.8	45 W	—	39*
5 31	1 55.58	− 6 9.3	2.065	1.571	28.4	18.8	48 W	—	41*
6 10	2 20.90	− 3 43.5	2.039	1.587	29.3	18.8	50 W	3*	44*
6 20	2 45.26	− 1 26.5	2.010	1.606	30.1	18.8	52 W	7*	46*
6 30	3 8.63	+ 0 40.1	1.979	1.629	30.8	18.9	55 W	12*	48*
7 10	3 30.94	+ 2 35.9	1.944	1.655	31.5	18.9	58 W	17*	50*
7 20	3 52.15	+ 4 20.7	1.905	1.683	32.2	18.9	62 W	23*	51*
7 30	4 12.14	+ 5 55.0	1.860	1.714	32.7	18.9	66 W	30*	52*
8 9	4 30.77	+ 7 19.8	1.809	1.747	33.1	18.9	70 W	36*	53*
8 19	4 47.88	+ 8 36.7	1.752	1.782	33.3	18.9	75 W	42*	53*
8 29	5 3.23	+ 9 47.4	1.689	1.819	33.2	18.8	80 W	48*	53*
9 8	5 16.57	+10 54.5	1.621	1.856	32.8	18.8	87 W	53*	53*
9 18	5 27.55	+12 0.9	1.550	1.895	32.0	18.7	93 W	57*	52*
9 28	5 35.73	+13 9.9	1.476	1.934	30.6	18.6	101 W	58	51
10 8	5 40.69	+14 24.9	1.403	1.974	28.5	18.5	109 W	59	50
10 18	5 41.90	+15 48.9	1.334	2.014	25.7	18.3	119 W	61	48
10 28	5 38.94	+17 24.0	1.274	2.055	21.9	18.1	130 W	62	47
11 7	5 31.66	+19 9.5	1.229	2.095	17.2	18.0	141 W	64	45
11 12	5 26.45	+20 5.0	1.213	2.116	14.5	17.9	148 W	65	44
11 17	5 20.32	+21 1.3	1.203	2.136	11.7	17.8	154 W	66	43
11 22	5 13.43	+21 57.4	1.199	2.156	8.7	17.7	161 W	67	42
11 27	5 5.98	+22 52.1	1.203	2.176	5.7	17.5	167 W	68	41
12 2	4 58.22	+23 44.5	1.213	2.196	2.7	17.4	174 W	69	40
12 7	4 50.40	+24 33.6	1.232	2.216	1.0	17.3	178 E	70	39
12 12	4 42.77	+25 18.9	1.257	2.236	3.6	17.6	172 E	70	39
12 17	4 35.58	+26 0.1	1.290	2.256	6.3	17.8	165 E	71	38
12 22	4 29.06	+26 37.3	1.330	2.275	9.0	18.0	159 E	72	37
12 27	4 23.37	+27 10.9	1.377	2.295	11.4	18.2	153 E	72	37
1 1	4 18.61	+27 41.2	1.429	2.314	13.5	18.4	147 E	73	36
1 6	4 14.83	+28 8.9	1.488	2.334	15.5	18.6	141 E	73	36
1 11	4 12.08	+28 34.4	1.551	2.353	17.1	18.7	135 E	74	35
1 16	4 10.33	+28 58.2	1.618	2.372	18.6	18.9	130 E	74	35

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	390725 2003 *HB*								
	h m	° ′			°	m	°	°	°
12 23	17 50.40	−25 33.1	1.826	0.846	4.0	21.0	3 W	—	—
12 28	18 14.94	−26 17.9	1.789	0.810	4.5	20.9	4 W	—	—
1 2	18 40.84	−26 47.1	1.750	0.772	5.1	20.8	4 W	—	—
1 7	19 8.11	−26 57.5	1.710	0.734	6.0	20.7	4 W	—	—
1 12	19 36.69	−26 45.6	1.670	0.696	7.3	20.6	5 E	—	—
1 17	20 6.45	−26 7.5	1.628	0.658	9.2	20.5	6 E	—	—
1 22	20 37.17	−24 59.6	1.585	0.622	11.9	20.4	7 E	—	1*
1 27	21 8.55	−23 18.7	1.540	0.590	15.5	20.3	9 E	—	3*
2 1	21 40.19	−21 2.5	1.494	0.562	20.0	20.3	11 E	—	5*
2 6	22 11.70	−18 10.6	1.447	0.541	25.5	20.3	14 E	2*	7*
2 11	22 42.67	−14 44.4	1.398	0.529	31.6	20.4	16 E	5*	9*
2 16	23 12.80	−10 48.0	1.348	0.527	38.0	20.5	19 E	8*	10*
2 21	23 41.91	− 6 27.5	1.299	0.534	44.2	20.6	22 E	12*	11*
2 26	0 10.01	− 1 50.2	1.253	0.551	49.7	20.7	25 E	16*	12*
3 2	0 37.27	+ 2 56.1	1.210	0.576	54.3	20.9	28 E	20*	13*
3 7	1 3.96	+ 7 44.0	1.173	0.606	57.7	21.0	31 E	23*	13*
3 12	1 30.42	+12 26.7	1.143	0.641	60.1	21.2	34 E	26*	14*
3 17	1 56.95	+16 58.2	1.119	0.678	61.6	21.3	37 E	30*	14*
3 22	2 23.86	+21 13.0	1.102	0.716	62.3	21.4	39 E	33*	14*
3 27	2 51.34	+25 6.3	1.092	0.754	62.3	21.5	42 E	35*	14*
	4341 Poseidon								
12 23	17 50.60	−20 23.7	3.118	2.138	1.9	20.2	4 W	—	—
1 2	18 9.88	−20 37.6	3.174	2.208	3.9	20.5	9 W	1*	—
1 12	18 28.31	−20 42.1	3.213	2.275	6.2	20.7	15 W	4*	6*
1 22	18 45.87	−20 38.7	3.234	2.338	8.5	20.9	21 W	7*	13*
2 1	19 2.53	−20 28.7	3.237	2.399	10.7	21.0	27 W	9*	19*
2 11	19 18.23	−20 13.5	3.222	2.456	12.7	21.1	33 W	11*	26*
2 21	19 32.93	−19 54.5	3.189	2.511	14.6	21.2	40 W	12*	33*
3 2	19 46.56	−19 33.0	3.140	2.562	16.3	21.3	47 W	14*	40*
3 12	19 59.02	−19 10.7	3.074	2.611	17.8	21.4	54 W	15*	47*
3 22	20 10.22	−18 49.0	2.995	2.657	19.1	21.4	61 W	16*	55*
4 1	20 20.03	−18 29.7	2.902	2.701	20.1	21.4	68 W	18*	62*
4 11	20 28.29	−18 14.4	2.799	2.742	20.8	21.4	76 W	19*	70*
4 21	20 34.82	−18 5.0	2.689	2.780	21.1	21.3	85 W	21*	77*
5 1	20 39.40	−18 3.4	2.573	2.816	20.9	21.2	93 W	23*	82*
5 11	20 41.78	−18 11.1	2.456	2.850	20.2	21.1	102 W	24*	82
5 21	20 41.72	−18 29.8	2.342	2.881	19.0	21.0	112 W	25*	82
5 31	20 38.96	−19 0.4	2.236	2.910	17.1	20.9	123 W	26*	83
6 10	20 33.39	−19 42.6	2.143	2.937	14.5	20.7	134 W	25	84
6 20	20 25.01	−20 34.8	2.069	2.961	11.3	20.5	145 W	24	85
6 30	20 14.13	−21 33.7	2.019	2.983	7.5	20.3	157 W	23	86
7 5	20 7.94	−22 4.0	2.004	2.993	5.5	20.2	164 W	23	86
7 10	20 1.41	−22 34.2	1.996	3.003	3.4	20.1	170 W	22	87
7 15	19 54.65	−23 3.4	1.997	3.012	1.4	20.0	176 W	22	87
7 20	19 47.81	−23 31.1	2.006	3.020	1.3	20.0	176 E	21	88
7 25	19 41.04	−23 56.8	2.022	3.028	3.2	20.2	170 E	21	88
7 30	19 34.51	−24 20.1	2.046	3.036	5.2	20.3	164 E	21	88
8 4	19 28.33	−24 40.8	2.078	3.043	7.2	20.4	158 E	20	89
8 9	19 22.62	−24 58.8	2.117	3.049	9.0	20.6	152 E	20	89
8 14	19 17.48	−25 14.2	2.162	3.055	10.7	20.7	146 E	20	89
8 19	19 12.97	−25 27.1	2.214	3.060	12.2	20.8	140 E	20	89
8 24	19 9.16	−25 37.6	2.271	3.065	13.6	20.9	134 E	19	90
8 29	19 6.08	−25 46.1	2.332	3.069	14.8	21.0	129 E	19	90
9 3	19 3.72	−25 52.7	2.398	3.073	15.9	21.1	124 E	19	90
9 8	19 2.08	−25 57.7	2.467	3.076	16.7	21.2	118 E	19	90
9 13	19 1.14	−26 1.2	2.539	3.079	17.5	21.3	113 E	19	90
9 18	19 0.88	−26 3.4	2.613	3.081	18.0	21.4	108 E	19	90
9 23	19 1.27	−26 4.4	2.688	3.082	18.4	21.4	104 E	19	90
	316866 2000 QD_{124}								
12 23	17 50.98	−25 4.7	2.805	1.823	1.7	21.0	3 W	—	—
1 2	18 19.27	−24 55.3	2.772	1.798	3.6	21.0	7 W	—	—
1 12	18 47.87	−24 26.2	2.734	1.775	5.6	21.1	10 W	—	4*
1 22	19 16.60	−23 37.0	2.694	1.753	7.6	21.1	14 W	—	7*
2 1	19 45.26	−22 27.8	2.650	1.733	9.6	21.1	17 W	1*	11*
2 11	20 13.69	−20 59.4	2.604	1.715	11.6	21.2	21 W	2*	14*
2 21	20 41.74	−19 13.1	2.556	1.699	13.6	21.2	24 W	3*	18*
3 2	21 9.32	−17 10.6	2.507	1.685	15.5	21.2	27 W	4*	21*
3 12	21 36.34	−14 54.0	2.457	1.673	17.3	21.2	30 W	5*	24*
3 22	22 2.80	−12 25.6	2.407	1.664	19.1	21.2	33 W	6*	27*
4 1	22 28.67	− 9 47.8	2.356	1.658	20.8	21.2	36 W	7*	30*
4 11	22 53.98	− 7 3.3	2.305	1.654	22.5	21.2	39 W	8*	33*
4 21	23 18.76	− 4 14.5	2.254	1.653	24.1	21.2	42 W	10*	36*
5 1	23 43.05	− 1 24.2	2.202	1.655	25.6	21.2	45 W	11*	39*
5 11	0 6.87	+ 1 25.3	2.149	1.660	27.0	21.2	48 W	14*	41*
5 21	0 30.27	+ 4 11.8	2.096	1.667	28.4	21.2	52 W	16*	44*
5 31	0 53.23	+ 6 53.1	2.042	1.677	29.6	21.2	55 W	19*	45*
6 10	1 15.74	+ 9 27.4	1.986	1.689	30.7	21.1	58 W	23*	46*
6 20	1 37.79	+11 53.0	1.928	1.704	31.7	21.1	62 W	28*	47*
6 30	1 59.26	+14 8.7	1.867	1.721	32.6	21.1	66 W	33*	47*

316866 2000 QD_{124} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 10	2 20.05	+16 13.4	1.805	1.740	33.3	21.1	70 W	39*	46*
7 20	2 40.01	+18 6.5	1.739	1.760	33.8	21.0	74 W	45*	45*
7 30	2 58.89	+19 47.6	1.671	1.783	34.0	21.0	79 W	52*	44*
8 9	3 16.43	+21 16.7	1.600	1.807	33.9	20.9	84 W	58*	43
8 19	3 32.28	+22 34.1	1.528	1.832	33.5	20.8	90 W	64*	41
8 29	3 46.01	+23 40.3	1.454	1.859	32.7	20.7	96 W	68*	40
9 8	3 57.16	+24 35.9	1.380	1.886	31.3	20.6	103 W	70	39
9 18	4 5.18	+25 21.4	1.309	1.914	29.3	20.5	111 W	70	39
9 28	4 9.51	+25 56.5	1.241	1.943	26.6	20.3	120 W	71	38
10 8	4 9.73	+26 20.2	1.182	1.973	23.1	20.1	129 W	71	38
10 18	4 5.62	+26 30.5	1.134	2.002	18.7	19.9	140 W	72	37
10 28	3 57.50	+26 24.4	1.103	2.033	13.5	19.7	151 W	71	38
11 2	3 52.24	+26 14.6	1.096	2.048	10.7	19.6	157 W	71	38
11 7	3 46.42	+26 0.4	1.093	2.063	7.8	19.5	163 W	71	38
11 12	3 40.26	+25 42.0	1.097	2.078	5.1	19.4	169 W	71	38
11 17	3 34.01	+25 20.0	1.108	2.093	3.0	19.3	174 W	70	39
11 22	3 27.92	+24 55.3	1.125	2.108	3.3	19.4	173 E	70	39
11 27	3 22.24	+24 28.9	1.148	2.123	5.5	19.6	168 E	69	40
12 2	3 17.15	+24 2.1	1.178	2.138	8.0	19.8	162 E	69	40
12 7	3 12.79	+23 35.9	1.214	2.153	10.5	20.0	156 E	69	40
12 12	3 9.27	+23 11.3	1.256	2.168	12.8	20.1	151 E	68	41
12 17	3 6.64	+22 49.1	1.303	2.183	15.0	20.3	145 E	68	41
12 22	3 4.95	+22 29.9	1.355	2.198	16.9	20.5	140 E	67	42
12 27	3 4.18	+22 14.1	1.411	2.213	18.6	20.6	134 E	67	42
1 1	3 4.29	+22 1.9	1.471	2.227	20.0	20.8	129 E	67	42
1 6	3 5.24	+21 53.3	1.535	2.242	21.2	20.9	124 E	67	42
1 11	3 6.97	+21 48.1	1.602	2.256	22.3	21.1	120 E	67	42
1 16	3 9.44	+21 46.2	1.672	2.270	23.1	21.2	115 E	67	42

253446 2003 RU_{10}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	17 51.15	−14 10.1	2.766	1.803	5.2	20.1	10 W	3*	—
1 2	18 17.68	−13 21.3	2.730	1.780	6.5	20.1	12 W	6*	—
1 12	18 44.45	−12 15.1	2.692	1.758	8.1	20.1	15 W	8*	—
1 22	19 11.37	−10 51.5	2.651	1.737	9.8	20.2	17 W	11*	3*
2 1	19 38.32	− 9 10.9	2.608	1.719	11.5	20.2	20 W	13*	7*
2 11	20 5.18	− 7 14.3	2.565	1.703	13.2	20.2	23 W	14*	11*
2 21	20 31.90	− 5 3.3	2.521	1.689	14.9	20.2	26 W	16*	14*
3 2	20 58.40	− 2 39.9	2.479	1.678	16.5	20.2	29 W	17*	17*
3 12	21 24.65	− 0 6.5	2.437	1.669	18.0	20.2	31 W	18*	20*
3 22	21 50.65	+ 2 34.2	2.396	1.663	19.5	20.2	34 W	19*	23*
4 1	22 16.38	+ 5 19.4	2.356	1.660	20.9	20.2	36 W	20*	26*
4 11	22 41.86	+ 8 5.9	2.317	1.659	22.2	20.2	39 W	21*	28*
4 21	23 7.11	+10 51.1	2.278	1.661	23.5	20.2	41 W	22*	30*
5 1	23 32.14	+13 32.0	2.239	1.666	24.8	20.2	44 W	24*	32*
5 11	23 56.94	+16 5.9	2.199	1.674	26.0	20.2	47 W	26*	33*
5 21	0 21.54	+18 30.4	2.157	1.684	27.2	20.2	49 W	28*	34*
5 31	0 45.87	+20 43.5	2.113	1.697	28.3	20.2	52 W	30*	35*
6 10	1 9.89	+22 43.2	2.065	1.712	29.3	20.2	56 W	33*	36*
6 20	1 33.50	+24 27.9	2.014	1.729	30.3	20.2	59 W	37*	36*
6 30	1 56.54	+25 56.4	1.959	1.749	31.2	20.2	63 W	42*	36*
7 10	2 18.85	+27 7.6	1.899	1.770	31.9	20.2	67 W	47*	36*
7 20	2 40.20	+28 0.7	1.834	1.793	32.5	20.2	72 W	52*	36*
7 30	3 0.29	+28 35.2	1.764	1.818	32.9	20.1	76 W	58*	35*
8 9	3 18.80	+28 50.6	1.690	1.844	33.0	20.1	82 W	63*	35
8 19	3 35.35	+28 46.5	1.612	1.871	32.7	20.0	88 W	69*	35
8 29	3 49.51	+28 22.4	1.532	1.899	32.0	19.9	94 W	72*	36
9 3	3 55.55	+28 2.7	1.491	1.913	31.5	19.8	98 W	73*	36
9 8	4 0.82	+27 37.7	1.451	1.928	30.8	19.8	102 W	73	36
9 13	4 5.26	+27 7.3	1.411	1.942	29.9	19.7	106 W	72	37
9 18	4 8.80	+26 31.3	1.371	1.957	28.9	19.6	110 W	72	37
9 28	4 13.00	+25 1.8	1.297	1.987	26.1	19.4	119 W	70	39
10 8	4 13.15	+23 8.5	1.231	2.018	22.5	19.3	129 W	68	41
10 18	4 9.20	+20 51.6	1.179	2.048	18.0	19.0	141 W	66	43
10 23	4 5.81	+19 35.1	1.160	2.064	15.4	18.9	147 W	65	44
10 28	4 1.63	+18 14.5	1.146	2.079	12.7	18.8	153 W	63	46
11 2	3 56.80	+16 50.9	1.138	2.094	9.8	18.7	159 W	62	47
11 7	3 51.50	+15 25.8	1.137	2.110	7.0	18.6	165 W	60	49
11 12	3 45.93	+14 1.0	1.143	2.125	4.4	18.5	170 W	59	50
11 17	3 40.30	+12 38.5	1.156	2.141	3.1	18.5	173 W	58	51
11 22	3 34.82	+11 20.0	1.176	2.156	4.4	18.6	170 E	56	53
11 27	3 29.71	+10 7.3	1.203	2.171	6.7	18.8	165 E	55	54
12 2	3 25.10	+ 9 1.7	1.237	2.187	9.2	19.0	159 E	54	55
12 7	3 21.12	+ 8 4.0	1.277	2.202	11.7	19.2	153 E	53	56
12 17	3 15.38	+ 6 33.6	1.375	2.232	15.9	19.5	142 E	52	57
12 27	3 12.81	+ 5 36.1	1.493	2.262	19.2	19.8	131 E	51	58
1 6	3 13.34	+ 5 7.1	1.625	2.291	21.6	20.1	121 E	50	59
1 16	3 16.66	+ 5 1.1	1.767	2.320	23.2	20.4	112 E	50	59

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	17 51.31	−30 29.8	1.971	1.004	7.3	20.4	7 W	—	—
12 28	18 15.45	−29 55.5	1.921	0.952	7.1	20.2	7 W	—	—
1 2	18 40.50	−29 1.5	1.872	0.900	6.8	20.0	6 W	—	—
1 7	19 6.35	−27 45.8	1.824	0.850	6.1	19.8	5 W	—	—
1 12	19 32.83	−26 6.4	1.778	0.801	5.3	19.6	4 E	—	—
1 17	19 59.80	−24 2.1	1.735	0.756	4.6	19.4	4 E	—	—
1 22	20 27.07	−21 32.3	1.695	0.715	4.9	19.2	4 E	—	—
1 27	20 54.51	−18 37.5	1.656	0.680	6.9	19.2	5 E	—	—
2 1	21 21.97	−15 19.8	1.621	0.653	10.3	19.2	7 E	—	—
2 6	21 49.36	−11 42.4	1.589	0.636	14.5	19.2	9 E	3*	—
2 11	22 16.63	− 7 50.1	1.560	0.629	19.1	19.3	12 E	6*	—
2 16	22 43.78	− 3 48.5	1.535	0.634	23.8	19.5	15 E	9*	1*
2 21	23 10.82	+ 0 16.2	1.515	0.650	28.0	19.6	18 E	12*	2*
2 26	23 37.81	+ 4 18.0	1.501	0.676	31.6	19.8	21 E	15*	2*
3 2	0 4.79	+ 8 11.1	1.494	0.710	34.3	19.9	24 E	18*	3*
3 7	0 31.76	+11 50.9	1.494	0.750	36.1	20.1	26 E	20*	4*
3 12	0 58.72	+15 13.4	1.503	0.795	37.2	20.3	29 E	23*	5*
3 17	1 25.61	+18 15.7	1.520	0.843	37.6	20.5	31 E	25*	7*
3 22	1 52.32	+20 56.1	1.545	0.893	37.4	20.6	33 E	27*	8*
3 27	2 18.73	+23 13.6	1.577	0.945	36.9	20.8	35 E	28*	9*
4 1	2 44.67	+25 8.3	1.616	0.997	36.0	20.9	36 E	30*	10*
4 6	3 9.99	+26 41.1	1.661	1.049	34.9	21.0	37 E	30*	11*
4 11	3 34.55	+27 53.3	1.712	1.102	33.7	21.2	38 E	31*	12*
4 16	3 58.24	+28 46.8	1.766	1.153	32.3	21.3	38 E	31*	13*
4 21	4 20.99	+29 23.7	1.825	1.204	30.9	21.4	38 E	31*	14*

162438 2000 GF_3

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	17 51.45	−27 11.8	2.659	1.680	2.6	20.2	5 W	—	—
1 2	18 22.76	−27 14.0	2.627	1.655	4.1	20.3	7 W	—	1*
1 12	18 54.52	−26 51.8	2.593	1.632	5.8	20.3	10 W	—	4*
1 22	19 26.47	−26 4.5	2.558	1.611	7.6	20.3	12 W	—	6*
2 1	19 58.30	−24 52.4	2.523	1.594	9.3	20.3	15 W	—	9*
2 11	20 29.74	−23 16.8	2.489	1.579	11.1	20.4	18 W	—	12*
2 21	21 0.59	−21 19.5	2.455	1.567	12.8	20.4	20 W	—	14*
3 2	21 30.70	−19 3.3	2.421	1.558	14.4	20.4	23 W	—	17*
3 12	21 59.97	−16 31.4	2.389	1.553	16.0	20.4	26 W	—	19*
3 22	22 28.39	−13 47.0	2.358	1.552	17.6	20.4	28 W	1*	22*
4 1	22 55.95	−10 53.6	2.328	1.554	19.1	20.5	31 W	2*	24*
4 11	23 22.69	− 7 54.6	2.299	1.559	20.6	20.5	33 W	3*	27*
4 21	23 48.68	− 4 53.3	2.269	1.568	22.0	20.5	36 W	4*	30*
5 1	0 13.99	− 1 52.5	2.239	1.580	23.4	20.5	38 W	6*	32*
5 11	0 38.65	+ 1 5.0	2.208	1.595	24.7	20.6	41 W	8*	35*
5 21	1 2.75	+ 3 57.0	2.176	1.613	26.0	20.6	44 W	10*	37*
5 31	1 26.28	+ 6 41.5	2.141	1.634	27.2	20.6	47 W	13*	40*
6 10	1 49.27	+ 9 16.9	2.103	1.657	28.3	20.7	51 W	17*	41*
6 20	2 11.69	+11 42.1	2.061	1.682	29.3	20.7	54 W	22*	43*
6 30	2 33.49	+13 56.3	2.016	1.709	30.3	20.7	58 W	27*	43*
7 10	2 54.57	+15 59.0	1.966	1.738	31.1	20.7	62 W	33*	44*
7 20	3 14.82	+17 50.2	1.911	1.769	31.8	20.7	66 W	39*	44*
7 30	3 34.03	+19 30.1	1.851	1.800	32.2	20.7	71 W	46*	43*
8 9	3 52.02	+20 59.5	1.787	1.833	32.5	20.6	76 W	53*	42*
8 19	4 8.49	+22 19.4	1.718	1.866	32.5	20.6	82 W	59*	42*
8 29	4 23.11	+23 31.1	1.646	1.900	32.1	20.5	88 W	65*	40*
9 8	4 35.48	+24 36.2	1.572	1.935	31.3	20.5	95 W	69*	39
9 18	4 45.14	+25 36.2	1.496	1.969	29.9	20.3	102 W	71	38
9 28	4 51.55	+26 32.2	1.422	2.004	28.0	20.2	110 W	72	37
10 8	4 54.22	+27 24.8	1.353	2.039	25.3	20.1	119 W	72	37
10 18	4 52.68	+28 12.8	1.292	2.073	21.8	19.9	129 W	73	36
10 28	4 46.76	+28 53.3	1.245	2.107	17.5	19.7	140 W	74	35
11 2	4 42.25	+29 9.5	1.227	2.124	15.1	19.6	146 W	74	35
11 7	4 36.85	+29 22.1	1.215	2.141	12.5	19.5	152 W	74	35
11 12	4 30.69	+29 30.6	1.208	2.158	9.9	19.4	158 W	75	34
11 17	4 23.98	+29 34.5	1.208	2.175	7.3	19.3	164 W	75	34
11 22	4 16.97	+29 33.7	1.214	2.191	5.0	19.2	169 W	75	34
11 27	4 9.92	+29 28.5	1.227	2.207	3.7	19.2	172 E	74	35
12 2	4 3.09	+29 19.3	1.246	2.224	4.4	19.3	170 E	74	35
12 7	3 56.70	+29 7.0	1.273	2.240	6.4	19.5	165 E	74	35
12 12	3 50.95	+28 52.3	1.306	2.256	8.7	19.6	160 E	74	35
12 17	3 45.99	+28 36.4	1.345	2.272	10.9	19.8	154 E	74	35
12 22	3 41.93	+28 20.3	1.391	2.287	13.0	20.0	148 E	73	36
12 27	3 38.83	+28 4.8	1.441	2.302	15.0	20.1	143 E	73	36
1 1	3 36.71	+27 50.6	1.497	2.318	16.7	20.3	137 E	73	36
1 6	3 35.53	+27 38.2	1.557	2.333	18.2	20.4	132 E	73	36
1 11	3 35.28	+27 27.9	1.621	2.348	19.6	20.6	127 E	72	37
1 16	3 35.91	+27 20.0	1.688	2.362	20.7	20.7	122 E	72	37

514596 2003 *FG*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	17 51.63	−28 5.1	1.407	0.436	11.9	19.3	5 W	—	—
12 25	18 10.16	−27 59.9	1.384	0.411	11.0	19.1	5 W	—	—
12 27	18 29.25	−27 41.6	1.361	0.390	12.2	19.0	5 E	—	—
12 29	18 48.73	−27 8.9	1.336	0.372	15.8	18.9	6 E	—	—

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
514596 2003 *FG* *(continuation)*									
12 31	19 8.39	−26 20.9	1.310	0.360	21.2	19.0	8 E	—	2*
1 2	19 27.98	−25 17.4	1.283	0.354	27.8	19.1	10 E	—	3*
1 4	19 47.23	−23 58.9	1.254	0.355	34.8	19.3	12 E	1*	5*
1 6	20 5.95	−22 27.0	1.224	0.363	41.7	19.5	14 E	3*	6*
1 8	20 23.99	−20 43.4	1.194	0.376	48.1	19.7	17 E	6*	8*
1 10	20 41.31	−18 50.3	1.165	0.395	53.7	19.9	19 E	8*	9*
1 12	20 57.92	−16 49.5	1.137	0.418	58.3	20.1	21 E	11*	10*
1 14	21 13.87	−14 42.7	1.111	0.443	62.0	20.3	23 E	14*	11*
1 16	21 29.25	−12 31.3	1.087	0.471	64.8	20.4	26 E	16*	12*
1 18	21 44.13	−10 16.6	1.066	0.501	66.8	20.6	28 E	19*	12*
1 20	21 58.60	− 7 59.7	1.048	0.532	68.2	20.7	30 E	21*	13*
1 22	22 12.70	− 5 41.5	1.034	0.563	69.0	20.8	32 E	23*	14*
1 24	22 26.49	− 3 23.1	1.022	0.594	69.3	21.0	34 E	26*	14*
1 26	22 40.02	− 1 5.4	1.013	0.626	69.2	21.0	36 E	28*	14*
1 28	22 53.30	+ 1 10.7	1.008	0.657	68.8	21.1	39 E	30*	15*
1 30	23 6.37	+ 3 24.5	1.005	0.689	68.2	21.2	40 E	33*	15*
2 1	23 19.24	+ 5 35.1	1.005	0.720	67.3	21.3	42 E	35*	15*
2 3	23 31.91	+ 7 41.8	1.008	0.750	66.3	21.3	44 E	37*	16*
2 5	23 44.40	+ 9 44.1	1.014	0.780	65.1	21.4	46 E	38*	16*
2 7	23 56.70	+11 41.4	1.022	0.810	63.9	21.5	48 E	40*	16*
3040 Kozai									
12 23	17 51.72	+ 5 50.1	3.012	2.208	12.6	18.7	29 W	17*	—
1 2	18 12.16	+ 5 9.8	3.009	2.206	12.6	18.7	29 W	20*	—
1 12	18 32.36	+ 4 42.0	2.998	2.203	12.9	18.7	30 W	23*	—
1 22	18 52.26	+ 4 25.8	2.977	2.198	13.5	18.7	31 W	25*	1*
2 1	19 11.79	+ 4 20.7	2.946	2.193	14.4	18.7	33 W	27*	7*
2 11	19 30.90	+ 4 25.4	2.904	2.186	15.4	18.7	36 W	29*	13*
2 21	19 49.54	+ 4 38.7	2.852	2.178	16.7	18.7	39 W	30*	19*
3 2	20 7.66	+ 4 59.4	2.788	2.168	18.1	18.6	43 W	31*	25*
3 12	20 25.21	+ 5 25.7	2.714	2.158	19.6	18.6	47 W	32*	30*
3 22	20 42.18	+ 5 56.2	2.628	2.146	21.2	18.6	51 W	33*	36*
4 1	20 58.50	+ 6 28.9	2.531	2.133	22.8	18.5	56 W	34*	40*
4 11	21 14.14	+ 7 1.8	2.424	2.120	24.3	18.5	61 W	35*	45*
4 21	21 29.06	+ 7 32.6	2.308	2.105	25.8	18.4	66 W	36*	49*
5 1	21 43.18	+ 7 58.7	2.183	2.089	27.2	18.3	71 W	38*	52*
5 11	21 56.41	+ 8 16.8	2.050	2.071	28.4	18.2	77 W	40*	55*
5 21	22 8.65	+ 8 23.2	1.910	2.053	29.3	18.0	83 W	42*	56*
5 26	22 14.34	+ 8 20.4	1.839	2.044	29.7	18.0	86 W	43*	56
5 31	22 19.72	+ 8 12.8	1.767	2.034	29.9	17.9	90 W	44*	56
6 5	22 24.76	+ 7 59.4	1.693	2.024	30.0	17.8	93 W	46*	56
6 10	22 29.43	+ 7 39.3	1.620	2.014	30.0	17.7	97 W	47*	56
6 15	22 33.70	+ 7 11.4	1.547	2.004	29.9	17.6	101 W	48*	57
6 20	22 37.51	+ 6 34.5	1.474	1.993	29.5	17.4	105 W	49*	57
6 25	22 40.81	+ 5 47.1	1.401	1.983	29.0	17.3	109 W	49*	58
6 30	22 43.55	+ 4 47.6	1.330	1.972	28.2	17.1	114 W	49*	59
7 5	22 45.69	+ 3 34.2	1.261	1.961	27.1	17.0	118 W	49*	60
7 10	22 47.16	+ 2 5.2	1.195	1.949	25.8	16.8	123 W	47	62
7 15	22 47.87	+ 0 18.4	1.131	1.938	24.1	16.6	129 W	45	64
7 20	22 47.77	− 1 47.9	1.072	1.926	22.1	16.4	135 W	43	66
7 25	22 46.77	− 4 15.3	1.017	1.914	19.7	16.2	141 W	41	68
7 30	22 44.84	− 7 4.5	0.968	1.902	16.9	16.0	147 W	38	71
8 4	22 41.93	−10 15.0	0.926	1.890	13.8	15.8	154 W	35	74
8 9	22 38.03	−13 44.9	0.892	1.877	10.6	15.6	160 W	31	78
8 14	22 33.16	−17 30.3	0.867	1.865	7.7	15.4	166 W	27	82
8 19	22 27.40	−21 25.2	0.850	1.852	6.4	15.3	168 W	24	85
8 24	22 20.88	−25 22.1	0.843	1.840	7.9	15.3	166 W	20	89
8 29	22 13.84	−29 12.9	0.846	1.827	11.0	15.4	160 E	16	87
9 3	22 6.53	−32 50.4	0.857	1.814	14.7	15.6	153 E	12	83
9 8	21 59.25	−36 8.9	0.877	1.801	18.3	15.7	146 E	9	80
9 13	21 52.34	−39 4.7	0.903	1.789	21.7	15.9	139 E	6	77
9 18	21 46.10	−41 36.5	0.935	1.776	24.7	16.0	132 E	3	74
9 23	21 40.84	−43 44.6	0.972	1.763	27.3	16.2	126 E	1	72
9 28	21 36.77	−45 30.6	1.013	1.750	29.6	16.3	121 E	—	70
10 3	21 34.04	−46 56.8	1.056	1.737	31.4	16.5	115 E	—	69
10 8	21 32.72	−48 5.7	1.101	1.724	32.9	16.6	110 E	—	68
10 13	21 32.84	−48 59.4	1.146	1.711	34.2	16.7	106 E	—	67
10 18	21 34.40	−49 40.1	1.192	1.698	35.1	16.8	101 E	—	66
10 23	21 37.34	−50 9.5	1.237	1.686	35.8	16.9	97 E	—	66
10 28	21 41.60	−50 29.0	1.282	1.673	36.3	16.9	94 E	—	66
11 2	21 47.06	−50 39.9	1.325	1.661	36.7	17.0	90 E	—	65
11 7	21 53.62	−50 42.8	1.366	1.649	36.9	17.1	87 E	—	65
11 12	22 1.20	−50 38.5	1.405	1.637	37.0	17.1	84 E	—	65*
11 17	22 9.71	−50 27.3	1.442	1.625	37.0	17.1	82 E	—	65*
11 22	22 19.06	−50 9.5	1.477	1.613	36.9	17.2	79 E	—	65*
11 27	22 29.14	−49 45.5	1.509	1.602	36.8	17.2	77 E	—	64*
12 2	22 39.88	−49 15.3	1.538	1.591	36.7	17.2	75 E	—	63*
12 7	22 51.18	−48 39.0	1.565	1.581	36.5	17.3	73 E	—	62*
12 12	23 2.99	−47 56.5	1.589	1.570	36.3	17.3	71 E	—	62*
12 17	23 15.25	−47 7.7	1.610	1.560	36.1	17.3	69 E	—	61*
12 22	23 27.89	−46 12.8	1.629	1.551	35.9	17.3	68 E	—	60*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3040 Kozai *(continuation)*									
12 27	23 40.86	−45 11.6	1.645	1.542	35.8	17.3	66 E	—	59*
1 1	23 54.10	−44 4.2	1.659	1.533	35.6	17.3	65 E	1	58*
1 6	0 7.57	−42 50.3	1.671	1.525	35.5	17.3	64 E	2*	57*
1 11	0 21.24	−41 30.1	1.681	1.517	35.4	17.3	63 E	3*	57*
1 16	0 35.08	−40 3.4	1.689	1.510	35.3	17.3	62 E	5*	56*
210764 2000 WZ_{134}									
12 23	17 52.69	−27 17.2	2.770	1.790	2.4	20.4	4 W	—	—
1 2	18 22.11	−27 6.4	2.737	1.765	3.9	20.5	7 W	—	1*
1 12	18 51.84	−26 34.0	2.700	1.740	5.6	20.5	10 W	—	4*
1 22	19 21.67	−25 39.6	2.661	1.718	7.5	20.5	13 W	—	7*
2 1	19 51.37	−24 23.5	2.619	1.697	9.4	20.6	16 W	—	10*
2 11	20 20.73	−22 46.5	2.576	1.679	11.3	20.6	20 W	—	14*
2 21	20 49.60	−20 50.3	2.532	1.663	13.2	20.6	23 W	1*	17*
3 2	21 17.87	−18 36.7	2.488	1.650	15.0	20.6	26 W	2*	20*
3 12	21 45.46	−16 8.2	2.443	1.640	16.8	20.6	29 W	3*	23*
3 22	22 12.35	−13 27.3	2.398	1.632	18.6	20.6	31 W	4*	25*
4 1	22 38.56	−10 36.9	2.353	1.627	20.2	20.6	34 W	5*	28*
4 11	23 4.10	− 7 39.7	2.308	1.626	21.9	20.6	37 W	6*	31*
4 21	23 29.05	− 4 38.5	2.263	1.627	23.4	20.6	40 W	8*	34*
5 1	23 53.43	− 1 35.9	2.217	1.631	24.9	20.6	43 W	9*	37*
5 11	0 17.29	+ 1 25.5	2.171	1.639	26.3	20.6	46 W	12*	39*
5 21	0 40.69	+ 4 23.7	2.124	1.649	27.6	20.7	49 W	14*	41*
5 31	1 3.64	+ 7 16.4	2.075	1.662	28.9	20.7	52 W	18*	43*
6 10	1 26.14	+10 2.0	2.025	1.677	30.0	20.7	56 W	22*	45*
6 20	1 48.16	+12 39.0	1.972	1.695	31.0	20.7	59 W	27*	45*
6 30	2 9.64	+15 6.3	1.917	1.715	31.9	20.6	63 W	32*	45*
7 10	2 30.47	+17 23.0	1.859	1.738	32.6	20.6	67 W	38*	45*
7 20	2 50.51	+19 28.8	1.797	1.762	33.2	20.6	71 W	45*	44*
7 30	3 9.53	+21 23.6	1.732	1.787	33.5	20.6	76 W	51*	42*
8 9	3 27.30	+23 7.6	1.665	1.814	33.5	20.5	81 W	58*	41*
8 19	3 43.49	+24 41.7	1.594	1.843	33.3	20.4	87 W	64*	39
8 29	3 57.67	+26 6.5	1.522	1.872	32.6	20.3	93 W	69*	38
9 8	4 9.40	+27 23.1	1.449	1.903	31.4	20.2	100 W	72*	37
9 18	4 18.14	+28 32.4	1.377	1.934	29.7	20.1	107 W	74	35
9 28	4 23.27	+29 34.1	1.309	1.965	27.3	20.0	116 W	75	34
10 8	4 24.31	+30 27.4	1.247	1.997	24.2	19.8	125 W	75	34
10 18	4 20.90	+31 9.2	1.196	2.029	20.2	19.6	135 W	76	33
10 23	4 17.53	+31 24.3	1.176	2.045	17.9	19.5	141 W	76	33
10 28	4 13.15	+31 34.8	1.160	2.062	15.5	19.4	146 W	77	32
11 2	4 7.89	+31 39.9	1.149	2.078	13.0	19.4	152 W	77	32
11 7	4 1.91	+31 39.3	1.144	2.094	10.5	19.3	157 W	77	32
11 12	3 55.44	+31 32.6	1.145	2.110	8.0	19.2	163 W	77	32
11 17	3 48.72	+31 20.1	1.151	2.126	6.0	19.1	167 W	76	33
11 22	3 42.03	+31 2.2	1.165	2.142	5.1	19.1	169 E	76	33
11 27	3 35.64	+30 39.9	1.184	2.158	5.7	19.2	167 E	76	33
12 2	3 29.76	+30 14.3	1.211	2.174	7.4	19.3	164 E	75	34
12 7	3 24.58	+29 46.6	1.243	2.190	9.5	19.5	159 E	75	34
12 12	3 20.24	+29 18.1	1.282	2.206	11.6	19.7	153 E	74	35
12 17	3 16.81	+28 50.1	1.326	2.221	13.7	19.8	148 E	74	35
12 22	3 14.36	+28 23.5	1.376	2.237	15.6	20.0	142 E	73	36
12 27	3 12.89	+27 59.2	1.431	2.252	17.3	20.2	137 E	73	36
1 1	3 12.36	+27 37.7	1.489	2.268	18.8	20.3	132 E	73	36
1 6	3 12.74	+27 19.3	1.552	2.283	20.1	20.5	127 E	72	37
1 11	3 13.96	+27 4.1	1.618	2.298	21.2	20.6	122 E	72	37
1 16	3 15.98	+26 52.1	1.686	2.313	22.1	20.7	118 E	72	37
86626 2000 EV_{124}									
12 23	17 53.03	−19 15.6	2.610	1.632	2.8	19.2	5 W	—	—
1 2	18 23.38	−19 21.5	2.590	1.617	4.0	19.3	7 W	—	—
1 12	18 53.95	−19 6.2	2.570	1.606	5.5	19.3	9 W	2*	—
1 22	19 24.54	−18 30.0	2.549	1.597	7.1	19.4	12 W	3*	3*
2 1	19 54.93	−17 33.7	2.527	1.591	8.8	19.4	14 W	4*	7*
2 11	20 24.92	−16 19.0	2.505	1.589	10.5	19.5	17 W	4*	10*
2 21	20 54.37	−14 47.9	2.483	1.589	12.2	19.5	20 W	5*	13*
3 2	21 23.16	−13 3.0	2.461	1.593	13.9	19.6	23 W	5*	16*
3 12	21 51.23	−11 7.2	2.438	1.599	15.5	19.6	25 W	5*	19*
3 22	22 18.55	− 9 3.4	2.414	1.609	17.1	19.7	28 W	6*	22*
4 1	22 45.12	− 6 54.5	2.389	1.621	18.7	19.7	31 W	6*	25*
4 11	23 10.94	− 4 43.4	2.362	1.636	20.2	19.7	34 W	7*	28*
4 21	23 36.06	− 2 32.6	2.333	1.654	21.7	19.8	38 W	8*	31*
5 1	0 0.49	− 0 24.8	2.301	1.674	23.2	19.8	41 W	9*	35*
5 11	0 24.25	+ 1 38.0	2.266	1.696	24.6	19.9	44 W	11*	38*
5 21	0 47.35	+ 3 33.7	2.227	1.720	25.9	19.9	48 W	13*	41*
5 31	1 9.76	+ 5 20.7	2.183	1.746	27.1	19.9	52 W	15*	44*
6 10	1 31.46	+ 6 57.4	2.136	1.773	28.2	19.9	56 W	19*	46*
6 20	1 52.39	+ 8 22.7	2.083	1.801	29.2	19.9	60 W	23*	48*
6 30	2 12.44	+ 9 35.4	2.026	1.831	30.0	19.9	64 W	28*	50*
7 10	2 31.48	+10 34.8	1.964	1.861	30.7	19.9	69 W	33*	51*
7 20	2 49.36	+11 20.4	1.897	1.892	31.1	19.9	74 W	39*	52*
7 30	3 5.82	+11 51.5	1.825	1.923	31.3	19.9	80 W	45*	52*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
		86626 2000 EV_{124}				*(continuation)*			
8 9	3 20.64	+12 8.2	1.750	1.955	31.1	19.8	86 W	50*	52*
8 19	3 33.51	+12 10.4	1.673	1.987	30.6	19.7	92 W	54*	52
8 29	3 44.03	+11 58.0	1.594	2.020	29.6	19.6	99 W	56*	52
9 8	3 51.85	+11 31.8	1.516	2.052	28.0	19.5	107 W	57	52
9 18	3 56.56	+10 52.3	1.442	2.084	25.8	19.4	116 W	56	53
9 28	3 57.78	+10 1.0	1.375	2.115	22.8	19.2	125 W	55	54
10 8	3 55.34	+ 9 0.5	1.319	2.147	19.2	19.0	135 W	54	55
10 18	3 49.35	+ 7 54.6	1.279	2.178	14.8	18.9	146 W	53	56
10 23	3 45.17	+ 7 21.3	1.267	2.193	12.5	18.8	151 W	52	57
10 28	3 40.36	+ 6 48.9	1.260	2.208	10.2	18.7	157 W	52	57
11 2	3 35.07	+ 6 18.4	1.259	2.223	8.0	18.6	162 W	51	58
11 7	3 29.46	+ 5 50.5	1.265	2.238	6.3	18.5	166 W	51	58
11 12	3 23.73	+ 5 26.2	1.277	2.253	5.6	18.5	167 W	50	59
11 17	3 18.07	+ 5 6.1	1.296	2.267	6.1	18.6	166 E	50	59
11 27	3 7.69	+ 4 40.9	1.354	2.296	9.5	18.9	157 E	50	59
12 7	2 59.49	+ 4 36.8	1.437	2.324	13.4	19.2	147 E	50	59
12 17	2 54.13	+ 4 52.8	1.541	2.351	16.8	19.5	136 E	50	59
12 27	2 51.88	+ 5 26.3	1.662	2.378	19.5	19.8	126 E	50	59
1 6	2 52.61	+ 6 13.5	1.797	2.404	21.5	20.0	117 E	51	58
1 16	2 56.03	+ 7 10.8	1.941	2.428	22.7	20.3	108 E	52	57*
		136864 1998 FB_{41}							
12 23	17 53.45	−20 28.1	2.648	1.668	2.1	19.7	4 W	—	—
1 2	18 23.35	−20 21.7	2.653	1.679	3.5	19.8	6 W	—	—
1 12	18 52.82	−19 55.1	2.657	1.693	5.2	19.9	9 W	1*	1*
1 22	19 21.67	−19 9.5	2.658	1.709	7.0	20.0	12 W	3*	4*
2 1	19 49.73	−18 6.8	2.657	1.728	8.8	20.1	16 W	4*	8*
2 11	20 16.87	−16 49.3	2.653	1.750	10.6	20.2	19 W	5*	12*
2 21	20 43.02	−15 19.4	2.645	1.773	12.4	20.3	23 W	6*	16*
3 2	21 8.12	−13 39.6	2.632	1.799	14.2	20.4	26 W	7*	20*
3 12	21 32.15	−11 52.5	2.615	1.826	15.9	20.5	30 W	8*	24*
3 22	21 55.14	−10 0.4	2.592	1.854	17.6	20.5	34 W	9*	28*
4 1	22 17.09	− 8 5.7	2.564	1.884	19.2	20.6	38 W	10*	32*
4 11	22 38.01	− 6 10.4	2.529	1.915	20.7	20.6	43 W	11*	36*
4 21	22 57.94	− 4 16.4	2.487	1.947	22.2	20.7	47 W	13*	41*
5 1	23 16.87	− 2 25.5	2.439	1.979	23.5	20.7	52 W	15*	45*
5 11	23 34.79	− 0 39.3	2.384	2.013	24.8	20.8	57 W	17*	49*
5 21	23 51.66	+ 1 0.9	2.323	2.046	25.8	20.8	62 W	20*	53*
5 31	0 7.42	+ 2 33.4	2.254	2.080	26.7	20.8	67 W	24*	56*
6 10	0 21.97	+ 3 57.0	2.180	2.114	27.3	20.7	73 W	28*	58*
6 20	0 35.18	+ 5 10.4	2.101	2.148	27.6	20.7	79 W	33*	58*
6 30	0 46.85	+ 6 12.1	2.017	2.182	27.7	20.7	85 W	39*	58
7 10	0 56.78	+ 7 0.7	1.931	2.216	27.3	20.6	92 W	44*	57
7 20	1 4.70	+ 7 34.7	1.844	2.250	26.4	20.5	100 W	49*	56
7 30	1 10.29	+ 7 52.4	1.757	2.283	25.0	20.4	108 W	52*	56
8 9	1 13.29	+ 7 52.2	1.676	2.316	23.0	20.2	117 W	53	56
8 19	1 13.43	+ 7 32.9	1.602	2.348	20.3	20.1	126 W	53	56
8 29	1 10.61	+ 6 53.9	1.540	2.380	16.8	19.9	137 W	52	57
9 8	1 5.01	+ 5 56.6	1.496	2.412	12.7	19.7	148 W	51	58
9 18	0 57.09	+ 4 44.4	1.473	2.442	8.0	19.5	160 W	50	59
9 23	0 52.53	+ 4 4.7	1.471	2.458	5.5	19.4	166 W	49	60
9 28	0 47.74	+ 3 23.8	1.476	2.473	3.0	19.3	173 W	48	61
10 3	0 42.89	+ 2 43.0	1.487	2.487	0.8	19.2	178 W	48	61
10 8	0 38.11	+ 2 3.3	1.506	2.502	2.3	19.3	174 E	47	62
10 13	0 33.54	+ 1 25.6	1.531	2.517	4.6	19.5	168 E	46	63
10 18	0 29.31	+ 0 51.0	1.564	2.531	6.9	19.7	162 E	46	63
10 28	0 22.32	− 0 6.1	1.648	2.559	11.1	20.0	150 E	45	64
11 7	0 17.72	− 0 44.4	1.756	2.586	14.6	20.3	139 E	44	65
11 17	0 15.71	− 1 3.0	1.882	2.613	17.3	20.6	128 E	44	65
11 27	0 16.27	− 1 2.7	2.023	2.638	19.2	20.8	118 E	44	65
12 7	0 19.17	− 0 45.7	2.174	2.663	20.5	21.0	109 E	44	65
12 17	0 24.13	− 0 14.5	2.332	2.687	21.1	21.2	100 E	45	63*
12 27	0 30.86	+ 0 28.7	2.494	2.711	21.3	21.4	92 E	45	58*
		14017 1994 *NS*							
12 23	17 53.90	−19 46.1	2.640	1.660	2.5	18.3	4 W	—	—
1 2	18 23.73	−19 30.8	2.628	1.654	3.8	18.3	6 W	—	—
1 12	18 53.49	−18 54.9	2.614	1.650	5.4	18.4	9 W	2*	—
1 22	19 22.97	−17 59.2	2.598	1.649	7.2	18.5	12 W	3*	4*
2 1	19 52.00	−16 44.9	2.582	1.650	8.9	18.6	15 W	5*	7*
2 11	20 20.42	−15 14.0	2.564	1.654	10.7	18.6	18 W	6*	11*
2 21	20 48.14	−13 28.6	2.544	1.661	12.4	18.7	21 W	7*	14*
3 2	21 15.08	−11 31.2	2.522	1.670	14.1	18.7	24 W	7*	17*
3 12	21 41.19	− 9 24.6	2.499	1.681	15.8	18.8	27 W	8*	21*
3 22	22 6.51	− 7 11.2	2.473	1.695	17.5	18.8	31 W	9*	24*
4 1	22 31.02	− 4 53.7	2.444	1.710	19.1	18.9	34 W	10*	28*
4 11	22 54.75	− 2 34.6	2.412	1.728	20.7	18.9	37 W	11*	31*
4 21	23 17.75	− 0 16.0	2.376	1.748	22.2	19.0	41 W	13*	34*
5 1	23 40.04	+ 2 0.0	2.336	1.769	23.6	19.0	45 W	14*	37*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
		14017 1994 *NS*				*(continuation)*			
5 11	0 1.62	+ 4 11.5	2.292	1.791	25.0	19.0	49 W	16*	41*
5 21	0 22.50	+ 6 16.8	2.243	1.815	26.3	19.0	53 W	19*	43*
5 31	0 42.66	+ 8 14.5	2.189	1.840	27.4	19.1	57 W	22*	46*
6 10	1 2.05	+10 3.2	2.130	1.866	28.5	19.1	61 W	26*	48*
6 20	1 20.59	+11 41.9	2.065	1.893	29.3	19.0	66 W	31*	49*
6 30	1 38.15	+13 9.3	1.996	1.921	30.0	19.0	71 W	36*	49*
7 10	1 54.57	+14 24.7	1.921	1.948	30.4	19.0	76 W	42*	49*
7 20	2 9.65	+15 27.2	1.843	1.977	30.6	18.9	82 W	48*	49
7 30	2 23.10	+16 15.9	1.761	2.005	30.4	18.9	88 W	54*	48
8 9	2 34.63	+16 50.1	1.678	2.034	29.8	18.8	95 W	59*	47
8 19	2 43.84	+17 8.9	1.593	2.063	28.6	18.6	102 W	62*	47
8 29	2 50.32	+17 11.2	1.511	2.092	26.9	18.5	111 W	62	47
9 8	2 53.69	+16 56.1	1.434	2.120	24.4	18.4	120 W	62	47
9 18	2 53.63	+16 22.7	1.365	2.148	21.2	18.2	129 W	61	48
9 28	2 50.02	+15 30.8	1.309	2.176	17.1	18.0	140 W	61	48
10 8	2 43.17	+14 21.8	1.271	2.204	12.3	17.8	152 W	59	50
10 13	2 38.74	+13 42.1	1.260	2.218	9.6	17.7	158 W	59	50
10 18	2 33.82	+12 59.9	1.255	2.231	6.9	17.5	164 W	58	51
10 23	2 28.58	+12 16.3	1.257	2.245	4.1	17.4	171 W	57	52
10 28	2 23.22	+11 32.4	1.265	2.258	1.6	17.3	176 W	57	52
11 2	2 17.91	+10 49.5	1.281	2.271	2.1	17.4	175 E	56	53
11 7	2 12.84	+10 8.8	1.303	2.284	4.6	17.6	169 E	55	54
11 12	2 8.16	+ 9 31.3	1.332	2.297	7.2	17.8	163 E	55	54
11 17	2 4.01	+ 8 57.8	1.367	2.310	9.7	17.9	157 E	54	55
11 27	1 57.69	+ 8 5.9	1.456	2.334	14.0	18.3	145 E	53	56
12 7	1 54.33	+ 7 35.6	1.565	2.359	17.5	18.6	134 E	53	56
12 17	1 53.95	+ 7 26.2	1.690	2.382	20.1	18.8	124 E	52	57
12 27	1 56.37	+ 7 35.7	1.827	2.405	21.9	19.1	114 E	53	56
1 6	2 1.26	+ 8 0.8	1.973	2.427	23.0	19.3	105 E	53	56*
1 16	2 8.27	+ 8 38.1	2.124	2.448	23.5	19.5	97 E	54	53*
		161513 2004 RK_{195}							
12 23	17 53.93	−25 25.6	2.666	1.684	1.6	20.2	3 W	—	—
1 2	18 24.52	−25 8.6	2.651	1.675	3.2	20.3	6 W	—	—
1 12	18 55.03	−24 28.8	2.634	1.668	5.1	20.3	9 W	—	2*
1 22	19 25.21	−23 26.9	2.615	1.664	6.9	20.4	12 W	—	6*
2 1	19 54.86	−22 4.3	2.594	1.662	8.8	20.5	15 W	—	9*
2 11	20 23.78	−20 22.8	2.572	1.662	10.6	20.5	18 W	1*	12*
2 21	20 51.87	−18 24.8	2.548	1.665	12.4	20.6	21 W	2*	15*
3 2	21 19.06	−16 12.9	2.522	1.671	14.2	20.6	24 W	3*	18*
3 12	21 45.30	−13 49.8	2.493	1.678	16.0	20.7	28 W	4*	22*
3 22	22 10.64	−11 18.4	2.463	1.688	17.7	20.7	31 W	5*	25*
4 1	22 35.09	− 8 41.2	2.430	1.701	19.3	20.8	34 W	7*	28*
4 11	22 58.68	− 6 0.7	2.394	1.715	20.9	20.8	38 W	8*	32*
4 21	23 21.49	− 3 19.3	2.355	1.731	22.5	20.8	41 W	10*	35*
5 1	23 43.55	− 0 38.9	2.313	1.749	24.0	20.9	45 W	12*	38*
5 11	0 4.89	+ 1 58.5	2.266	1.769	25.4	20.9	49 W	14*	41*
5 21	0 25.53	+ 4 31.5	2.216	1.790	26.7	20.9	52 W	17*	44*
5 31	0 45.47	+ 6 58.5	2.161	1.812	27.8	20.9	57 W	21*	46*
6 10	1 4.67	+ 9 18.4	2.102	1.836	28.9	20.9	61 W	25*	48*
6 20	1 23.07	+11 30.3	2.038	1.861	29.8	20.9	65 W	30*	49*
6 30	1 40.56	+13 33.4	1.970	1.886	30.5	20.9	70 W	36*	49*
7 10	1 56.98	+15 27.0	1.897	1.912	31.0	20.8	75 W	42*	48*
7 20	2 12.16	+17 10.8	1.821	1.939	31.2	20.8	81 W	49*	47*
7 30	2 25.79	+18 44.3	1.741	1.966	31.0	20.7	87 W	56*	45
8 9	2 37.58	+20 7.4	1.659	1.993	30.5	20.6	93 W	62*	44
8 19	2 47.12	+21 19.5	1.577	2.021	29.5	20.5	100 W	66*	43
8 29	2 53.95	+22 20.0	1.496	2.049	27.9	20.4	108 W	67	42
9 8	2 57.63	+23 7.8	1.418	2.076	25.7	20.2	117 W	68	41
9 18	2 57.72	+23 41.0	1.349	2.104	22.7	20.0	126 W	69	40
9 28	2 54.01	+23 56.7	1.290	2.131	18.9	19.9	136 W	69	40
10 8	2 46.68	+23 52.4	1.247	2.159	14.3	19.7	148 W	69	40
10 13	2 41.87	+23 42.1	1.233	2.172	11.9	19.6	153 W	69	40
10 18	2 36.46	+23 26.3	1.225	2.185	9.3	19.5	159 W	68	41
10 23	2 30.65	+23 5.3	1.223	2.199	6.8	19.4	165 W	68	41
10 28	2 24.66	+22 39.8	1.227	2.212	4.6	19.3	170 W	68	41
11 2	2 18.70	+22 10.8	1.238	2.225	3.5	19.2	172 E	67	42
11 7	2 12.98	+21 39.2	1.255	2.238	4.5	19.3	170 E	67	42
11 12	2 7.67	+21 6.3	1.280	2.251	6.5	19.5	165 E	66	43
11 17	2 2.95	+20 33.3	1.310	2.263	8.8	19.7	160 E	66	43
11 22	1 58.95	+20 1.5	1.347	2.276	11.0	19.8	154 E	65	44
11 27	1 55.74	+19 32.0	1.390	2.288	13.2	20.0	148 E	65	44
12 7	1 51.83	+18 42.8	1.491	2.312	16.9	20.3	137 E	64	45
12 17	1 51.25	+18 9.5	1.610	2.336	19.7	20.6	127 E	63	46
12 27	1 53.78	+17 53.3	1.741	2.359	21.8	20.8	117 E	63	46
1 6	1 59.00	+17 53.0	1.883	2.381	23.1	21.1	108 E	63	46*
1 16	2 6.51	+18 6.4	2.030	2.403	23.8	21.3	100 E	63	44*