19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
				302111 2001 MM_3					
	h m	° ′			°	m	°	°	°
12 23	22 43.26	+ 8 0.3	1.897	1.904	30.0	18.4	75 E	53*	39*
1 2	23 7.11	+ 7 55.6	2.034	1.945	28.5	18.5	71 E	52*	35*
1 12	23 30.29	+ 8 5.4	2.174	1.987	26.9	18.7	66 E	51*	32*
1 22	23 52.82	+ 8 26.7	2.317	2.030	25.1	18.8	61 E	48*	28*
2 1	0 14.75	+ 8 56.9	2.459	2.074	23.2	18.9	56 E	45*	25*
2 11	0 36.12	+ 9 33.4	2.600	2.119	21.2	19.0	51 E	41*	23*
2 21	0 56.98	+10 13.9	2.737	2.165	19.1	19.1	46 E	37*	20*
3 2	1 17.40	+10 56.4	2.869	2.211	16.9	19.2	40 E	32*	18*
3 12	1 37.40	+11 39.0	2.994	2.257	14.7	19.3	35 E	27*	15*
3 22	1 57.04	+12 20.4	3.112	2.303	12.5	19.3	30 E	22*	13*
4 1	2 16.33	+12 59.1	3.219	2.349	10.3	19.4	25 E	16*	11*
4 11	2 35.29	+13 34.0	3.316	2.395	8.0	19.4	20 E	11*	8*
4 21	2 53.93	+14 4.0	3.402	2.441	5.9	19.4	14 E	5*	6*
5 1	3 12.24	+14 28.4	3.475	2.487	3.8	19.3	9 E	—	3*
5 11	3 30.21	+14 46.3	3.536	2.532	2.1	19.3	5 E	—	—
5 21	3 47.81	+14 57.3	3.583	2.577	2.1	19.4	5 W	—	—
5 31	4 5.02	+15 0.8	3.616	2.621	3.6	19.5	9 W	—	3*
6 10	4 21.78	+14 56.5	3.635	2.665	5.5	19.7	15 W	—	9*
6 20	4 38.05	+14 44.0	3.639	2.708	7.4	19.8	20 W	—	14*
6 30	4 53.76	+14 23.1	3.630	2.750	9.3	19.9	26 W	3*	19*
7 10	5 8.85	+13 53.8	3.606	2.792	11.0	20.0	32 W	8*	24*
7 20	5 23.24	+13 15.9	3.569	2.833	12.7	20.1	38 W	14*	29*
7 30	5 36.84	+12 29.5	3.518	2.874	14.2	20.1	44 W	20*	34*
8 9	5 49.54	+11 34.7	3.456	2.914	15.5	20.2	50 W	26*	38*
8 19	6 1.23	+10 31.5	3.382	2.953	16.7	20.2	57 W	32*	42*
8 29	6 11.77	+ 9 20.2	3.298	2.991	17.6	20.2	64 W	38*	46*
9 8	6 21.02	+ 8 1.3	3.205	3.029	18.3	20.2	71 W	43*	50*
9 18	6 28.82	+ 6 35.0	3.107	3.065	18.7	20.2	78 W	47*	53*
9 28	6 34.97	+ 5 2.4	3.004	3.101	18.8	20.1	86 W	49*	57*
10 8	6 39.28	+ 3 24.3	2.901	3.137	18.5	20.0	94 W	48	60*
10 18	6 41.57	+ 1 42.5	2.800	3.171	17.9	20.0	103 W	47	62
10 28	6 41.66	− 0 0.8	2.705	3.204	16.8	19.9	111 W	45	64
11 7	6 39.48	− 1 42.6	2.621	3.237	15.3	19.8	120 W	43	66
11 17	6 35.04	− 3 18.8	2.552	3.269	13.5	19.7	129 W	42	67
11 27	6 28.52	− 4 44.8	2.503	3.300	11.6	19.6	138 W	40	69
12 7	6 20.35	− 5 55.7	2.478	3.330	9.9	19.5	145 W	39	70
12 17	6 11.14	− 6 47.5	2.479	3.360	8.7	19.5	149 W	38	71
12 27	6 1.67	− 7 17.6	2.508	3.388	8.6	19.5	149 E	38	71
1 6	5 52.74	− 7 25.7	2.565	3.416	9.5	19.6	145 E	38	71
1 16	5 45.05	− 7 13.8	2.647	3.443	11.0	19.8	138 E	38	71
				89355 2001 VS_{78}					
12 23	22 43.72	−28 48.2	2.599	2.315	22.1	20.6	62 E	16*	55*
1 2	22 58.96	−26 44.3	2.712	2.323	20.7	20.6	57 E	17*	49*
1 12	23 14.60	−24 38.3	2.816	2.329	19.2	20.7	51 E	18*	43*
1 22	23 30.54	−22 30.9	2.910	2.333	17.6	20.7	46 E	18*	37*
2 1	23 46.72	−20 22.8	2.994	2.336	15.9	20.7	41 E	16*	32*
2 11	0 3.08	−18 14.5	3.068	2.337	14.2	20.7	36 E	14*	28*
2 21	0 19.60	−16 6.9	3.130	2.337	12.5	20.7	31 E	10*	24*
3 2	0 36.27	−14 0.5	3.180	2.335	10.9	20.6	26 E	7*	20*
3 12	0 53.06	−11 56.2	3.218	2.331	9.4	20.6	22 E	2*	16*
3 22	1 9.99	− 9 54.6	3.243	2.325	8.1	20.6	19 E	—	13*
4 1	1 27.05	− 7 56.3	3.257	2.318	7.1	20.5	17 E	—	10*
4 11	1 44.25	− 6 2.0	3.258	2.309	6.7	20.5	16 E	—	6*
4 21	2 1.59	− 4 12.4	3.247	2.299	7.0	20.5	16 E	—	2*
5 1	2 19.09	− 2 28.1	3.224	2.286	7.8	20.5	18 W	—	5*
5 11	2 36.73	− 0 49.7	3.190	2.272	9.0	20.5	21 W	—	10*
5 21	2 54.53	+ 0 42.3	3.144	2.257	10.5	20.5	24 W	—	15*
5 31	3 12.48	+ 2 7.4	3.087	2.240	12.2	20.5	28 W	—	20*
6 10	3 30.56	+ 3 25.0	3.020	2.221	13.9	20.5	32 W	—	25*
6 20	3 48.78	+ 4 34.8	2.943	2.201	15.7	20.5	36 W	—	30*
6 30	4 7.10	+ 5 36.4	2.856	2.178	17.5	20.5	40 W	5*	34*
7 10	4 25.48	+ 6 29.7	2.761	2.155	19.3	20.4	44 W	11*	37*
7 20	4 43.91	+ 7 14.5	2.657	2.130	21.0	20.4	49 W	17*	40*
7 30	5 2.33	+ 7 50.8	2.546	2.103	22.8	20.3	53 W	23*	43*
8 9	5 20.69	+ 8 18.9	2.427	2.074	24.5	20.2	58 W	29*	45*
8 19	5 38.92	+ 8 39.1	2.302	2.044	26.1	20.1	63 W	35*	47*
8 29	5 56.96	+ 8 52.1	2.172	2.013	27.6	20.0	67 W	40*	48*
9 8	6 14.71	+ 8 59.0	2.037	1.980	29.0	19.9	72 W	45*	50*
9 18	6 32.10	+ 9 1.0	1.899	1.946	30.3	19.7	77 W	49*	51*
9 28	6 48.99	+ 9 0.3	1.757	1.911	31.4	19.6	83 W	52*	52*
10 8	7 5.28	+ 8 59.3	1.614	1.874	32.2	19.4	88 W	54*	53*
10 18	7 20.81	+ 9 1.6	1.471	1.836	32.8	19.1	94 W	54	54*
10 28	7 35.37	+ 9 12.1	1.329	1.797	32.9	18.9	100 W	54	54*
11 2	7 42.23	+ 9 22.3	1.258	1.777	32.9	18.7	104 W	54	55*
11 7	7 48.75	+ 9 37.2	1.189	1.757	32.6	18.6	107 W	55	54*
11 12	7 54.90	+ 9 57.8	1.121	1.737	32.2	18.4	111 W	55	54
11 17	8 0.62	+10 25.5	1.054	1.716	31.7	18.2	114 W	55	54
11 22	8 5.86	+11 2.1	0.989	1.696	30.9	18.0	118 W	56	53
11 27	8 10.56	+11 49.3	0.925	1.675	29.8	17.8	122 W	57	52
12 2	8 14.66	+12 49.1	0.864	1.655	28.5	17.6	127 W	58	51

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
				89355 2001 VS_{78} *(continuation)*					
	h m	° ′			°	m	°	°	°
12 7	8 18.07	+14 3.8	0.806	1.634	26.9	17.4	131 W	59	50
12 12	8 20.69	+15 35.8	0.751	1.613	25.0	17.2	136 W	61	48
12 17	8 22.41	+17 27.8	0.700	1.592	22.7	16.9	141 W	62	47
12 22	8 23.13	+19 42.0	0.653	1.571	20.0	16.7	147 W	65	44
12 27	8 22.75	+22 19.8	0.610	1.551	17.0	16.4	153 W	67	42
1 1	8 21.16	+25 21.6	0.573	1.530	13.9	16.1	158 W	70	39
1 6	8 18.25	+28 45.9	0.542	1.510	11.0	15.9	163 W	74	35
1 11	8 13.97	+32 29.0	0.517	1.489	9.5	15.7	165 W	77	32
1 16	8 8.33	+36 24.0	0.499	1.470	10.5	15.6	164 W	81	28
				141756 2002 LP_{58}					
12 23	22 44.13	−13 35.6	2.092	1.931	27.9	20.5	67 E	31*	51*
1 2	23 4.30	−11 18.2	2.220	1.964	26.3	20.6	62 E	33*	45*
1 12	23 24.20	− 8 59.0	2.346	1.996	24.5	20.7	57 E	34*	39*
1 22	23 43.83	− 6 39.3	2.470	2.029	22.7	20.8	53 E	33*	34*
2 1	0 3.24	− 4 20.2	2.590	2.063	20.7	20.9	48 E	32*	30*
2 11	0 22.45	− 2 2.9	2.706	2.096	18.7	20.9	43 E	30*	26*
2 21	0 41.50	+ 0 11.5	2.816	2.130	16.7	21.0	38 E	27*	22*
3 2	1 0.41	+ 2 22.1	2.920	2.163	14.6	21.0	33 E	23*	18*
3 12	1 19.21	+ 4 28.1	3.016	2.196	12.5	21.0	29 E	19*	15*
3 22	1 37.92	+ 6 28.6	3.105	2.229	10.4	21.1	24 E	14*	12*
4 1	1 56.56	+ 8 23.1	3.183	2.261	8.2	21.1	19 E	10*	9*
4 11	2 15.14	+10 10.9	3.252	2.293	6.1	21.0	14 E	5*	6*
4 21	2 33.66	+11 51.5	3.311	2.325	4.0	21.0	9 E	—	2*
5 1	2 52.11	+13 24.4	3.358	2.356	2.0	20.9	5 E	—	—
5 11	3 10.48	+14 49.2	3.394	2.386	1.3	20.9	3 W	—	—
5 21	3 28.74	+16 5.9	3.418	2.416	2.9	21.1	7 W	—	1*
5 31	3 46.86	+17 14.0	3.429	2.445	4.8	21.2	12 W	—	6*
6 10	4 4.78	+18 13.6	3.428	2.473	6.8	21.4	17 W	—	10*
6 20	4 22.47	+19 4.7	3.414	2.501	8.7	21.5	22 W	4*	15*
				225743 2001 SM_{36}					
12 23	22 44.15	−15 56.4	2.969	2.724	19.3	21.4	66 E	29*	52*
1 2	22 53.92	−13 56.7	3.067	2.694	18.2	21.4	59 E	30*	44*
1 12	23 4.70	−11 53.9	3.154	2.663	16.9	21.4	52 E	30*	36*
1 22	23 16.34	− 9 47.9	3.230	2.631	15.4	21.4	45 E	28*	30*
2 1	23 28.71	− 7 39.0	3.294	2.599	13.7	21.3	39 E	25*	24*
2 11	23 41.71	− 5 27.3	3.344	2.566	11.9	21.3	32 E	21*	18*
2 21	23 55.27	− 3 13.1	3.381	2.532	9.9	21.2	26 E	17*	13*
3 2	0 9.35	− 0 56.4	3.403	2.497	7.9	21.1	20 E	12*	9*
3 12	0 23.90	+ 1 22.4	3.411	2.461	5.8	21.0	14 E	7*	4*
3 22	0 38.92	+ 3 43.1	3.405	2.425	3.6	20.8	9 E	2*	—
4 1	0 54.41	+ 6 5.4	3.385	2.388	1.4	20.6	3 E	—	—
4 11	1 10.38	+ 8 29.0	3.352	2.351	0.9	20.5	2 W	—	—
4 21	1 26.88	+10 53.5	3.307	2.313	3.1	20.6	7 W	—	1*
5 1	1 43.93	+13 18.5	3.250	2.275	5.4	20.7	12 W	1*	6*
5 11	2 1.59	+15 43.7	3.182	2.236	7.6	20.7	17 W	4*	10*
5 21	2 19.94	+18 8.7	3.105	2.197	9.8	20.7	22 W	7*	14*
5 31	2 39.06	+20 32.7	3.019	2.158	12.1	20.7	26 W	10*	17*
6 10	2 59.02	+22 55.3	2.925	2.119	14.2	20.7	31 W	14*	20*
6 20	3 19.95	+25 15.6	2.825	2.080	16.4	20.6	35 W	19*	22*
6 30	3 41.96	+27 32.7	2.720	2.040	18.5	20.6	39 W	24*	23*
7 10	4 5.15	+29 45.4	2.611	2.002	20.5	20.5	44 W	30*	24*
7 20	4 29.67	+31 52.5	2.499	1.963	22.5	20.4	48 W	35*	23*
7 30	4 55.60	+33 52.0	2.386	1.926	24.4	20.3	51 W	41*	23*
8 4	5 9.13	+34 48.4	2.330	1.907	25.3	20.3	53 W	43*	22*
8 9	5 23.05	+35 42.2	2.273	1.889	26.2	20.3	55 W	46*	22*
8 14	5 37.37	+36 33.1	2.217	1.871	27.0	20.2	57 W	49*	21*
8 19	5 52.08	+37 20.8	2.161	1.853	27.9	20.2	59 W	51*	21*
8 24	6 7.17	+38 4.9	2.106	1.835	28.7	20.1	61 W	53*	20*
8 29	6 22.63	+38 45.2	2.051	1.818	29.5	20.0	62 W	55*	19*
9 3	6 38.46	+39 21.4	1.997	1.801	30.2	20.0	64 W	57*	19*
9 8	6 54.62	+39 53.1	1.944	1.785	31.0	19.9	66 W	59*	18*
9 13	7 11.09	+40 20.0	1.892	1.769	31.7	19.9	67 W	61*	18*
9 18	7 27.82	+40 42.1	1.840	1.754	32.4	19.8	69 W	63*	17*
9 23	7 44.75	+40 58.9	1.790	1.739	33.0	19.8	71 W	65*	16*
9 28	8 1.84	+41 10.4	1.742	1.725	33.6	19.7	72 W	66*	16*
10 3	8 19.03	+41 16.6	1.694	1.711	34.2	19.6	74 W	68*	16*
10 8	8 36.24	+41 17.3	1.648	1.698	34.7	19.6	75 W	69*	15*
10 13	8 53.42	+41 12.7	1.603	1.685	35.2	19.5	77 W	71*	15*
10 18	9 10.48	+41 3.0	1.559	1.673	35.7	19.4	78 W	72*	15*
10 23	9 27.34	+40 48.5	1.516	1.662	36.1	19.4	80 W	74*	15*
10 28	9 43.93	+40 29.5	1.475	1.652	36.5	19.3	81 W	75*	15*
11 2	10 0.20	+40 6.3	1.435	1.642	36.9	19.3	83 W	77*	15*
11 7	10 16.07	+39 39.4	1.396	1.633	37.2	19.2	85 W	78*	16*
11 12	10 31.48	+39 9.5	1.358	1.625	37.4	19.1	86 W	80*	16*
11 17	10 46.37	+38 37.2	1.320	1.618	37.6	19.1	88 W	81*	17*
11 22	11 0.67	+38 3.0	1.284	1.612	37.8	19.0	89 W	82*	18*
11 27	11 14.36	+37 27.6	1.249	1.607	37.9	18.9	91 W	82*	19*
12 2	11 27.37	+36 51.5	1.214	1.602	37.9	18.9	93 W	82	20*
12 7	11 39.66	+36 15.4	1.180	1.599	37.9	18.8	95 W	81	21*

225743 2001 SM_{36} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 12	11 51.19	+35 39.9	1.146	1.596	37.8	18.7	97 W	81	23*
12 17	12 1.88	+35 5.6	1.113	1.595	37.6	18.7	99 W	80	24*
12 22	12 11.70	+34 32.9	1.080	1.594	37.3	18.6	101 W	80	26*
12 27	12 20.57	+34 2.0	1.048	1.594	36.9	18.5	103 W	79	27*
1 1	12 28.44	+33 33.3	1.016	1.596	36.3	18.4	106 W	79	29*
1 6	12 35.24	+33 6.9	0.985	1.598	35.7	18.3	109 W	78	30*
1 11	12 40.88	+32 42.9	0.955	1.601	34.9	18.3	111 W	78	31*
1 16	12 45.26	+32 21.2	0.925	1.606	33.9	18.2	115 W	77	32*

124357 2001 QH_{129}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	22 44.74	−17 7.4	1.992	1.826	29.4	19.7	66 E	28*	53*
1 2	23 5.43	−16 0.6	2.059	1.799	28.5	19.7	61 E	28*	47*
1 12	23 27.00	−14 39.3	2.120	1.774	27.5	19.7	56 E	28*	42*
1 22	23 49.33	−13 5.3	2.175	1.751	26.3	19.7	52 E	28*	38*
2 1	0 12.34	−11 20.4	2.225	1.730	25.1	19.7	48 E	27*	35*
2 11	0 35.94	− 9 26.8	2.270	1.711	23.8	19.7	44 E	25*	32*
2 21	1 0.10	− 7 26.7	2.311	1.695	22.5	19.6	41 E	23*	29*
3 2	1 24.79	− 5 22.3	2.348	1.681	21.3	19.6	38 E	21*	27*
3 12	1 50.00	− 3 16.2	2.382	1.671	20.0	19.6	35 E	18*	26*
3 22	2 15.70	− 1 10.8	2.415	1.664	18.8	19.6	33 E	15*	24*
4 1	2 41.87	+ 0 51.4	2.446	1.659	17.6	19.6	30 E	12*	22*
4 11	3 8.48	+ 2 47.7	2.477	1.658	16.4	19.5	28 E	9*	21*
4 21	3 35.49	+ 4 35.7	2.508	1.660	15.2	19.5	26 E	6*	19*
5 1	4 2.81	+ 6 13.2	2.539	1.665	14.0	19.5	24 E	3*	18*
5 11	4 30.36	+ 7 38.1	2.571	1.674	12.8	19.5	22 E	—	16*
5 21	4 58.02	+ 8 48.9	2.604	1.685	11.6	19.5	20 E	—	13*
5 31	5 25.69	+ 9 44.5	2.637	1.699	10.4	19.5	18 E	—	11*
6 10	5 53.20	+10 24.2	2.671	1.716	9.3	19.5	16 E	—	8*
6 20	6 20.44	+10 48.0	2.704	1.735	8.1	19.5	14 E	—	5*
6 30	6 47.28	+10 56.3	2.736	1.757	7.2	19.5	12 E	—	2*
7 10	7 13.59	+10 49.7	2.766	1.781	6.5	19.6	11 W	—	—
7 20	7 39.30	+10 29.6	2.793	1.807	6.2	19.6	11 W	—	3*
7 30	8 4.32	+ 9 57.3	2.816	1.834	6.5	19.7	12 W	—	5*
8 9	8 28.60	+ 9 14.4	2.835	1.863	7.2	19.7	13 W	—	7*
8 19	8 52.13	+ 8 22.6	2.847	1.894	8.3	19.8	16 W	1*	9*
8 29	9 14.88	+ 7 23.7	2.853	1.925	9.7	19.9	19 W	6*	12*
9 8	9 36.85	+ 6 19.5	2.851	1.957	11.3	20.0	22 W	10*	14*
9 18	9 58.05	+ 5 11.7	2.841	1.990	12.9	20.1	26 W	15*	16*
9 28	10 18.47	+ 4 2.2	2.821	2.024	14.6	20.2	31 W	19*	18*
10 8	10 38.13	+ 2 52.6	2.792	2.058	16.3	20.3	35 W	24*	21*
10 18	10 57.02	+ 1 44.8	2.753	2.093	17.9	20.3	40 W	28*	23*
10 28	11 15.11	+ 0 40.4	2.703	2.127	19.4	20.4	45 W	32*	27*
11 7	11 32.38	− 0 18.6	2.643	2.162	20.9	20.4	51 W	36*	30*
11 17	11 48.76	− 1 10.5	2.573	2.197	22.2	20.4	57 W	39*	35*
11 27	12 4.16	− 1 53.3	2.494	2.231	23.3	20.4	63 W	41*	39*
12 7	12 18.46	− 2 24.8	2.407	2.265	24.1	20.4	70 W	42*	45*
12 17	12 31.51	− 2 43.0	2.313	2.299	24.6	20.4	77 W	42	51*
12 27	12 43.09	− 2 45.4	2.213	2.333	24.8	20.3	84 W	42	57*
1 6	12 52.97	− 2 29.6	2.111	2.366	24.5	20.2	92 W	43	62*
1 16	13 0.87	− 1 53.3	2.008	2.399	23.7	20.1	101 W	43	65*

121032 Wadesisler

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	22 44.93	−41 30.2	2.287	1.996	25.4	21.0	61 E	3*	54*
12 28	22 56.23	−40 20.8	2.335	2.008	24.7	21.0	59 E	4*	53*
1 2	23 7.42	−39 9.5	2.381	2.019	24.1	21.0	57 E	5*	51*
1 7	23 18.51	−37 56.4	2.426	2.030	23.4	21.1	55 E	6*	49*
1 12	23 29.49	−36 41.8	2.469	2.040	22.7	21.1	53 E	7*	47*
1 17	23 40.36	−35 25.8	2.511	2.051	22.1	21.1	52 E	8*	46*
1 22	23 51.13	−34 8.8	2.552	2.061	21.4	21.1	50 E	8*	44*
1 27	0 1.81	−32 50.9	2.591	2.071	20.8	21.2	48 E	8*	42*
2 1	0 12.39	−31 32.4	2.629	2.080	20.2	21.2	47 E	8*	41*
2 6	0 22.89	−30 13.6	2.665	2.089	19.5	21.2	45 E	8*	39*
2 11	0 33.29	−28 54.5	2.700	2.098	18.9	21.2	44 E	8*	38*
2 16	0 43.62	−27 35.5	2.734	2.107	18.3	21.2	42 E	7*	36*
2 21	0 53.88	−26 16.8	2.766	2.115	17.7	21.3	41 E	7*	35*
2 26	1 4.07	−24 58.4	2.796	2.123	17.1	21.3	39 E	6*	33*
3 2	1 14.20	−23 40.8	2.826	2.131	16.6	21.3	38 E	5*	32*
3 7	1 24.28	−22 23.9	2.853	2.139	16.0	21.3	37 E	3*	30*
3 12	1 34.29	−21 8.1	2.879	2.146	15.5	21.3	35 E	2*	29*
3 17	1 44.27	−19 53.4	2.904	2.153	15.0	21.3	34 E	1*	28*
3 22	1 54.20	−18 40.1	2.927	2.159	14.5	21.3	33 E	—	26*
3 27	2 4.09	−17 28.2	2.949	2.166	14.1	21.3	32 E	—	25*
4 1	2 13.95	−16 17.9	2.969	2.172	13.6	21.3	31 E	—	23*
4 6	2 23.77	−15 9.5	2.987	2.177	13.2	21.3	30 E	—	22*
4 11	2 33.56	−14 3.0	3.003	2.182	12.9	21.3	29 E	—	20*
4 16	2 43.31	−12 58.4	3.018	2.187	12.6	21.3	28 E	—	19*
4 21	2 53.05	−11 56.0	3.032	2.192	12.3	21.3	28 E	—	17*
4 26	3 2.75	−10 55.8	3.043	2.197	12.1	21.4	27 E	—	15*
5 1	3 12.43	− 9 57.9	3.052	2.201	11.9	21.4	27 E	—	14*
5 6	3 22.07	− 9 2.4	3.060	2.204	11.8	21.4	27 E	—	12*
5 11	3 31.69	− 8 9.4	3.065	2.208	11.8	21.4	26 E	—	10*
5 16	3 41.28	− 7 18.9	3.069	2.211	11.8	21.4	27 E	—	8*

121032 Wadesisler *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 21	3 50.83	− 6 31.0	3.071	2.214	11.9	21.4	27 W	—	6*
5 26	4 0.36	− 5 45.7	3.070	2.216	12.0	21.4	27 W	—	8*
5 31	4 9.84	− 5 3.1	3.067	2.218	12.2	21.4	28 W	—	11*
6 5	4 19.28	− 4 23.2	3.062	2.220	12.5	21.4	28 W	—	13*
6 10	4 28.68	− 3 45.9	3.055	2.221	12.8	21.4	29 W	—	16*
6 15	4 38.03	− 3 11.4	3.046	2.223	13.1	21.4	30 W	—	18*
6 20	4 47.32	− 2 39.6	3.034	2.223	13.6	21.4	31 W	—	21*
6 25	4 56.56	− 2 10.4	3.019	2.224	14.0	21.4	32 W	—	23*
6 30	5 5.74	− 1 44.0	3.002	2.224	14.5	21.4	33 W	—	25*
7 5	5 14.84	− 1 20.2	2.983	2.224	15.1	21.4	35 W	—	27*
7 10	5 23.87	− 0 58.9	2.961	2.223	15.7	21.4	36 W	—	30*
7 15	5 32.81	− 0 40.2	2.937	2.222	16.3	21.5	38 W	—	32*
7 20	5 41.67	− 0 24.0	2.910	2.221	16.9	21.5	39 W	1*	33*
7 25	5 50.43	− 0 10.2	2.880	2.220	17.6	21.4	41 W	4*	35*
7 30	5 59.09	+ 0 1.2	2.848	2.218	18.2	21.4	43 W	7*	37*
8 4	6 7.63	+ 0 10.4	2.813	2.216	18.9	21.4	45 W	10*	39*
8 9	6 16.04	+ 0 17.5	2.776	2.213	19.6	21.4	47 W	14*	40*
8 14	6 24.33	+ 0 22.5	2.736	2.211	20.3	21.4	49 W	17*	42*
8 19	6 32.48	+ 0 25.7	2.693	2.208	21.0	21.4	51 W	20*	43*
8 24	6 40.47	+ 0 27.0	2.648	2.204	21.7	21.4	54 W	23*	45*
8 29	6 48.30	+ 0 26.8	2.600	2.200	22.4	21.4	56 W	26*	46*
9 3	6 55.94	+ 0 25.1	2.549	2.196	23.0	21.3	58 W	28*	47*
9 8	7 3.40	+ 0 22.2	2.497	2.192	23.7	21.3	61 W	31*	49*
9 13	7 10.65	+ 0 18.3	2.441	2.187	24.3	21.3	64 W	34*	50*
9 18	7 17.68	+ 0 13.5	2.384	2.182	24.9	21.2	66 W	36*	51*
9 23	7 24.47	+ 0 8.1	2.324	2.177	25.5	21.2	69 W	38*	53*
9 28	7 30.99	+ 0 2.5	2.263	2.171	26.0	21.1	72 W	40*	54*
10 3	7 37.23	− 0 3.0	2.199	2.165	26.5	21.1	75 W	42*	55*
10 8	7 43.15	− 0 8.2	2.133	2.159	26.9	21.0	78 W	43*	57*
10 13	7 48.74	− 0 12.5	2.066	2.152	27.3	21.0	81 W	44*	58*
10 18	7 53.96	− 0 15.7	1.998	2.146	27.5	20.9	85 W	45*	59*
10 23	7 58.76	− 0 17.0	1.928	2.138	27.7	20.8	88 W	45	61*
10 28	8 3.12	− 0 16.0	1.858	2.131	27.8	20.7	92 W	45	62*
11 2	8 6.98	− 0 11.9	1.787	2.123	27.7	20.6	95 W	45	63*
11 7	8 10.30	− 0 4.0	1.715	2.115	27.5	20.5	99 W	45	64*
11 12	8 13.02	+ 0 8.4	1.644	2.107	27.2	20.4	103 W	45	64*
11 17	8 15.07	+ 0 26.5	1.573	2.098	26.7	20.3	108 W	45	64
11 22	8 16.38	+ 0 51.2	1.503	2.089	25.9	20.2	112 W	46	63
11 27	8 16.89	+ 1 23.9	1.434	2.080	25.0	20.0	117 W	46	63
12 2	8 16.52	+ 2 5.8	1.368	2.070	23.7	19.9	122 W	47	62
12 7	8 15.21	+ 2 58.1	1.304	2.060	22.2	19.7	128 W	48	61
12 12	8 12.87	+ 4 2.2	1.244	2.050	20.4	19.5	133 W	49	60
12 17	8 9.45	+ 5 19.3	1.188	2.040	18.2	19.4	140 W	50	59
12 22	8 4.92	+ 6 50.3	1.138	2.029	15.7	19.2	146 W	52	57
12 27	7 59.29	+ 8 35.3	1.093	2.018	12.9	19.0	153 W	54	55
1 1	7 52.62	+10 34.0	1.056	2.007	9.8	18.8	160 W	56	53
1 6	7 45.00	+12 44.9	1.026	1.996	6.5	18.5	167 W	58	51
1 11	7 36.60	+15 5.5	1.005	1.984	3.4	18.3	173 W	60	49
1 16	7 27.65	+17 32.4	0.992	1.972	3.2	18.3	173 E	63	46

335451 2005 UR_{454}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	22 45.51	−14 37.2	1.805	1.683	32.5	21.0	67 E	30*	52*
1 2	23 9.02	−11 31.6	1.898	1.698	31.1	21.1	63 E	33*	46*
1 12	23 32.26	− 8 23.7	1.992	1.716	29.6	21.2	59 E	35*	41*
1 22	23 55.25	− 5 15.8	2.087	1.737	27.9	21.2	56 E	36*	36*
2 1	0 18.05	− 2 10.0	2.184	1.759	26.2	21.3	52 E	36*	32*
2 11	0 40.68	+ 0 51.6	2.281	1.784	24.4	21.4	48 E	35*	28*
2 21	1 3.21	+ 3 47.4	2.377	1.811	22.5	21.4	45 E	33*	25*

4660 Nereus

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	22 46.45	− 6 12.1	1.172	1.248	47.8	20.8	70 E	39*	48*
1 2	23 10.29	− 3 46.2	1.179	1.194	49.0	20.8	66 E	41*	43*
1 12	23 36.13	− 1 3.8	1.175	1.142	50.2	20.7	63 E	42*	38*
1 22	0 4.04	+ 1 53.4	1.163	1.094	51.6	20.6	61 E	43*	34*
2 1	0 34.21	+ 5 2.8	1.142	1.049	53.2	20.5	59 E	44*	32*
2 11	1 6.86	+ 8 20.2	1.114	1.011	55.1	20.5	57 E	45*	30*
2 16	1 24.22	+10 0.1	1.098	0.995	56.0	20.4	57 E	45*	29*
2 21	1 42.32	+11 39.7	1.081	0.982	57.0	20.4	56 E	45*	28*
2 26	2 1.22	+13 18.0	1.064	0.970	58.0	20.4	56 E	45*	28*
3 2	2 20.96	+14 53.6	1.046	0.962	59.0	20.3	56 E	45*	28*
3 7	2 41.55	+16 25.3	1.027	0.956	59.9	20.3	56 E	46*	28*
3 12	3 3.03	+17 51.3	1.010	0.953	60.8	20.3	57 E	46*	28*
3 17	3 25.40	+19 10.2	0.993	0.953	61.5	20.3	57 E	46*	29*
3 22	3 48.66	+20 20.2	0.978	0.955	62.1	20.3	58 E	47*	29*
3 27	4 12.75	+21 19.5	0.964	0.961	62.5	20.3	59 E	47*	30*
4 1	4 37.60	+22 6.5	0.952	0.970	62.6	20.3	60 E	47*	31*
4 6	5 3.06	+22 39.6	0.943	0.981	62.6	20.3	61 E	48*	32*
4 11	5 28.97	+22 57.6	0.938	0.994	62.4	20.3	62 E	48*	33*
4 16	5 55.14	+22 59.7	0.935	1.010	62.0	20.3	63 E	48*	34*
4 21	6 21.35	+22 45.7	0.936	1.028	61.3	20.3	64 E	47*	36*
4 26	6 47.37	+22 15.8	0.941	1.048	60.5	20.3	65 E	47*	37*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		4660 Nereus				*(continuation)*			
	h m	° ′			°	m	°	°	°
5 1	7 13.00	+21 30.9	0.950	1.069	59.5	20.4	66 E	46*	39*
5 6	7 38.02	+20 32.3	0.963	1.092	58.4	20.4	67 E	45*	41*
5 11	8 2.28	+19 21.9	0.980	1.116	57.2	20.5	68 E	44*	42*
5 16	8 25.67	+18 1.4	1.000	1.140	55.9	20.5	69 E	43*	44*
5 21	8 48.13	+16 33.0	1.025	1.166	54.6	20.6	70 E	41*	46*
5 26	9 9.64	+14 58.6	1.054	1.192	53.2	20.6	70 E	39*	47*
5 31	9 30.18	+13 19.9	1.086	1.219	51.8	20.7	71 E	37*	49*
6 5	9 49.78	+11 38.6	1.121	1.246	50.4	20.8	71 E	35*	51*
6 10	10 8.49	+ 9 56.0	1.160	1.273	49.1	20.9	71 E	33*	52*
6 15	10 26.37	+ 8 13.2	1.202	1.300	47.7	21.0	71 E	31*	54*
6 20	10 43.49	+ 6 31.1	1.246	1.327	46.4	21.1	71 E	29*	55*
6 25	10 59.91	+ 4 50.4	1.293	1.354	45.1	21.1	71 E	27*	56*
6 30	11 15.71	+ 3 11.5	1.341	1.381	43.8	21.2	70 E	26*	57*
7 5	11 30.93	+ 1 34.8	1.392	1.408	42.6	21.3	70 E	24*	58*
7 10	11 45.65	+ 0 0.8	1.445	1.434	41.4	21.4	69 E	22*	58*
7 15	11 59.91	− 1 30.6	1.499	1.460	40.2	21.5	68 E	21*	58*
		7482 1994 PC_1							
12 23	22 46.57	−36 51.4	1.973	1.734	29.9	20.8	61 E	8*	55*
1 2	23 7.49	−34 17.1	2.032	1.715	28.9	20.8	57 E	10*	51*
1 12	23 28.78	−31 33.4	2.082	1.692	27.8	20.8	53 E	12*	47*
1 22	23 50.39	−28 40.8	2.123	1.667	26.8	20.8	50 E	13*	43*
2 1	0 12.32	−25 39.7	2.155	1.638	25.8	20.7	46 E	14*	39*
2 11	0 34.57	−22 31.0	2.178	1.607	24.8	20.7	43 E	14*	36*
2 21	0 57.20	−19 15.2	2.193	1.572	23.9	20.6	40 E	13*	33*
3 2	1 20.29	−15 53.3	2.202	1.535	23.0	20.5	37 E	12*	31*
3 12	1 43.90	−12 26.3	2.203	1.495	22.1	20.5	35 E	10*	28*
3 22	2 8.15	− 8 55.2	2.199	1.452	21.3	20.4	32 E	8*	26*
4 1	2 33.18	− 5 21.1	2.189	1.407	20.4	20.3	29 E	6*	23*
4 11	2 59.11	− 1 45.6	2.175	1.360	19.5	20.1	27 E	4*	21*
4 21	3 26.11	+ 1 49.7	2.157	1.311	18.6	20.0	25 E	2*	19*
5 1	3 54.38	+ 5 22.7	2.136	1.261	17.5	19.9	22 E	—	16*
5 11	4 24.10	+ 8 51.0	2.112	1.210	16.3	19.7	20 E	—	14*
5 21	4 55.53	+12 11.7	2.085	1.158	15.0	19.5	17 E	—	11*
5 31	5 28.90	+15 21.2	2.056	1.107	13.6	19.4	15 E	—	9*
6 10	6 4.45	+18 14.7	2.025	1.059	12.3	19.2	13 E	—	7*
6 15	6 23.12	+19 33.8	2.008	1.036	11.7	19.1	12 E	—	6*
6 20	6 42.43	+20 46.7	1.991	1.014	11.3	19.0	11 E	—	5*
6 25	7 2.38	+21 52.4	1.973	0.993	11.1	19.0	11 E	—	4*
6 30	7 22.97	+22 50.0	1.955	0.974	11.2	18.9	11 E	—	4*
7 5	7 44.20	+23 38.3	1.936	0.957	11.5	18.8	11 E	1*	3*
7 10	8 6.04	+24 16.3	1.918	0.942	12.2	18.8	11 E	2*	3*
7 15	8 28.47	+24 42.9	1.899	0.929	13.2	18.8	12 E	4*	3*
7 20	8 51.41	+24 56.8	1.880	0.919	14.4	18.8	13 E	5*	3*
7 25	9 14.79	+24 57.2	1.862	0.911	15.8	18.8	14 E	7*	3*
7 30	9 38.49	+24 43.1	1.844	0.906	17.3	18.8	15 E	8*	4*
8 4	10 2.40	+24 14.1	1.827	0.904	18.9	18.9	17 E	9*	4*
8 9	10 26.39	+23 29.8	1.811	0.905	20.5	18.9	18 E	11*	5*
8 14	10 50.34	+22 30.3	1.798	0.909	21.9	18.9	20 E	12*	6*
8 19	11 14.13	+21 15.9	1.787	0.916	23.3	19.0	21 E	13*	7*
8 24	11 37.63	+19 47.7	1.778	0.926	24.5	19.0	22 E	15*	8*
8 29	12 0.75	+18 6.9	1.772	0.938	25.5	19.1	24 E	16*	9*
9 3	12 23.41	+16 15.1	1.770	0.952	26.3	19.1	25 E	17*	10*
9 8	12 45.56	+14 14.1	1.772	0.969	26.9	19.2	26 E	17*	12*
9 13	13 7.18	+12 5.9	1.777	0.988	27.2	19.2	27 E	18*	13*
9 18	13 28.24	+ 9 52.5	1.787	1.008	27.4	19.3	27 E	18*	14*
9 23	13 48.76	+ 7 36.2	1.801	1.029	27.3	19.4	28 E	18*	15*
9 28	14 8.73	+ 5 18.8	1.818	1.052	27.0	19.4	28 E	19*	15*
10 3	14 28.20	+ 3 2.3	1.840	1.076	26.6	19.5	29 E	19*	16*
10 8	14 47.18	+ 0 48.2	1.864	1.100	26.0	19.5	29 E	18*	16*
10 13	15 5.71	− 1 22.1	1.893	1.125	25.2	19.6	29 E	18*	16*
10 18	15 23.83	− 3 27.4	1.924	1.151	24.4	19.7	28 E	17*	16*
10 23	15 41.57	− 5 26.8	1.958	1.176	23.4	19.7	28 E	17*	16*
10 28	15 58.96	− 7 19.5	1.993	1.202	22.4	19.8	27 E	16*	16*
11 7	16 32.77	−10 43.4	2.069	1.253	20.1	19.9	26 E	15*	14*
11 17	17 5.48	−13 37.1	2.149	1.304	17.6	20.0	24 E	13*	12*
11 27	17 37.22	−16 0.4	2.229	1.353	15.0	20.0	21 E	11*	10*
12 7	18 8.07	−17 54.6	2.306	1.401	12.4	20.1	18 E	9*	7*
12 17	18 38.11	−19 21.7	2.379	1.446	9.7	20.1	14 E	6*	4*
12 27	19 7.37	−20 24.1	2.445	1.489	7.0	20.1	11 E	3*	1*
1 6	19 35.87	−21 4.3	2.501	1.529	4.3	20.1	7 E	—	—
1 16	20 3.65	−21 25.1	2.548	1.567	1.9	20.0	3 E	—	—
		211583 2003 SA_{183}							
12 23	22 48.04	− 6 19.9	2.070	1.972	28.0	21.2	70 E	39*	48*
1 2	23 6.74	− 4 14.7	2.203	2.003	26.5	21.3	65 E	40*	42*
1 12	23 25.44	− 2 7.9	2.334	2.035	24.8	21.4	60 E	40*	36*
1 22	23 44.12	− 0 0.3	2.463	2.066	23.0	21.5	55 E	40*	31*
2 1	0 2.78	+ 2 7.2	2.587	2.098	21.2	21.6	50 E	38*	27*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		515335 2013 AW_{60}							
	h m	° ′			°	m	°	°	°
12 23	22 48.10	−37 39.6	1.069	1.055	55.2	21.1	62 E	7*	56*
12 28	23 9.84	−36 3.9	1.052	1.049	55.8	21.0	62 E	9*	56*
1 2	23 31.62	−34 9.5	1.036	1.045	56.4	21.0	62 E	11*	56*
1 7	23 53.33	−31 56.1	1.020	1.045	56.9	21.0	63 E	13*	56*
1 12	0 14.88	−29 24.0	1.005	1.048	57.2	21.0	64 E	15*	57*
1 17	0 36.20	−26 33.6	0.991	1.053	57.4	21.0	64 E	18*	57*
1 22	0 57.25	−23 26.2	0.981	1.061	57.5	21.0	65 E	21*	57*
1 27	1 18.02	−20 3.8	0.973	1.072	57.3	21.0	66 E	24*	57*
2 1	1 38.50	−16 28.9	0.970	1.085	57.0	21.0	67 E	28*	56*
2 6	1 58.67	−12 45.0	0.971	1.100	56.4	21.0	68 E	31*	55*
2 11	2 18.55	− 8 55.7	0.978	1.118	55.7	21.0	69 E	35*	54*
2 16	2 38.16	− 5 5.2	0.990	1.137	54.8	21.1	70 E	38*	53*
2 21	2 57.52	− 1 17.5	1.007	1.158	53.8	21.1	71 E	41*	51*
2 26	3 16.65	+ 2 23.5	1.030	1.181	52.6	21.2	72 E	44*	49*
3 2	3 35.57	+ 5 54.4	1.059	1.205	51.4	21.2	72 E	47*	47*
3 7	3 54.29	+ 9 12.5	1.093	1.230	50.1	21.3	72 E	49*	45*
3 12	4 12.80	+12 15.9	1.132	1.257	48.8	21.4	72 E	51*	43*
3 17	4 31.12	+15 3.4	1.176	1.284	47.5	21.5	72 E	53*	42*
		24475 2000 VN_2							
12 23	22 49.03	−21 8.2	1.921	1.760	30.6	20.3	66 E	24*	55*
1 2	23 5.84	−18 21.3	1.958	1.701	30.1	20.2	60 E	26*	48*
1 12	23 24.02	−15 23.5	1.986	1.641	29.6	20.2	55 E	28*	42*
1 22	23 43.47	−12 14.6	2.005	1.580	28.9	20.1	51 E	28*	37*
2 1	0 4.17	− 8 54.7	2.016	1.520	28.1	20.0	47 E	28*	32*
2 11	0 26.12	− 5 24.4	2.019	1.460	27.4	19.9	43 E	28*	28*
2 21	0 49.40	− 1 44.3	2.014	1.402	26.7	19.8	40 E	26*	24*
3 2	1 14.16	+ 2 4.3	2.004	1.345	26.1	19.6	37 E	25*	22*
3 12	1 40.56	+ 5 59.0	1.988	1.292	25.6	19.5	34 E	24*	19*
3 22	2 8.87	+ 9 56.8	1.970	1.242	25.2	19.4	32 E	22*	17*
4 1	2 39.37	+13 53.1	1.949	1.198	24.9	19.3	30 E	21*	15*
4 6	2 55.53	+15 49.0	1.938	1.179	24.9	19.2	30 E	21*	14*
4 11	3 12.34	+17 42.0	1.928	1.161	24.9	19.2	29 E	20*	14*
4 16	3 29.85	+19 31.2	1.918	1.145	24.9	19.2	29 E	20*	13*
4 21	3 48.07	+21 15.4	1.909	1.132	25.0	19.1	28 E	20*	13*
4 26	4 7.01	+22 53.4	1.901	1.120	25.2	19.1	28 E	19*	13*
5 1	4 26.69	+24 23.9	1.893	1.112	25.3	19.1	28 E	19*	12*
5 6	4 47.07	+25 45.5	1.888	1.105	25.5	19.1	28 E	19*	12*
5 11	5 8.10	+26 56.8	1.883	1.102	25.7	19.1	28 E	19*	12*
5 16	5 29.74	+27 56.7	1.881	1.101	25.9	19.1	28 E	19*	12*
5 21	5 51.88	+28 43.9	1.880	1.103	26.0	19.1	29 E	19*	13*
5 26	6 14.40	+29 17.7	1.882	1.107	26.1	19.1	29 E	19*	13*
5 31	6 37.17	+29 37.2	1.886	1.114	26.2	19.1	29 E	19*	14*
6 5	7 0.01	+29 42.3	1.893	1.124	26.2	19.1	29 E	18*	14*
6 10	7 22.77	+29 33.0	1.902	1.136	26.2	19.2	30 E	18*	15*
6 15	7 45.30	+29 9.6	1.914	1.150	26.1	19.2	30 E	18*	15*
6 20	8 7.45	+28 32.8	1.929	1.167	25.9	19.2	30 E	18*	16*
6 25	8 29.11	+27 43.6	1.946	1.185	25.6	19.3	30 E	17*	17*
6 30	8 50.16	+26 43.3	1.967	1.205	25.3	19.3	30 E	17*	17*
7 5	9 10.54	+25 33.1	1.990	1.227	24.8	19.4	30 E	16*	18*
7 10	9 30.22	+24 14.5	2.016	1.250	24.3	19.4	30 E	16*	19*
7 15	9 49.16	+22 48.7	2.044	1.275	23.7	19.5	30 E	15*	19*
7 20	10 7.39	+21 17.3	2.075	1.301	23.1	19.6	30 E	15*	19*
7 25	10 24.90	+19 41.4	2.109	1.327	22.4	19.6	30 E	14*	19*
7 30	10 41.73	+18 2.2	2.144	1.355	21.6	19.7	29 E	14*	20*
8 4	10 57.92	+16 20.9	2.181	1.383	20.8	19.7	29 E	13*	19*
8 9	11 13.50	+14 38.3	2.220	1.411	19.9	19.8	28 E	13*	19*
8 14	11 28.53	+12 55.3	2.260	1.441	19.0	19.8	28 E	12*	19*
8 19	11 43.05	+11 12.4	2.301	1.470	18.1	19.9	27 E	11*	18*
8 29	12 10.73	+ 7 49.8	2.387	1.530	16.1	20.0	25 E	10*	17*
9 8	12 36.86	+ 4 34.0	2.474	1.590	14.0	20.1	22 E	9*	15*
9 18	13 1.73	+ 1 27.5	2.561	1.651	11.9	20.2	20 E	8*	12*
9 28	13 25.59	− 1 28.1	2.645	1.711	9.7	20.2	17 E	6*	9*
10 8	13 48.62	− 4 11.9	2.726	1.770	7.6	20.3	14 E	5*	5*
10 18	14 10.98	− 6 43.3	2.800	1.828	5.5	20.3	10 E	3*	1*
10 28	14 32.79	− 9 2.1	2.867	1.885	3.6	20.3	7 E	1*	—
11 7	14 54.11	−11 8.1	2.925	1.941	2.7	20.4	5 E	—	—
11 17	15 15.00	−13 1.6	2.973	1.995	3.4	20.5	7 W	1*	—
11 27	15 35.48	−14 42.7	3.009	2.048	5.2	20.7	11 W	5*	—
12 7	15 55.53	−16 11.8	3.032	2.099	7.2	20.8	15 W	8*	3*
12 17	16 15.13	−17 29.4	3.042	2.149	9.2	21.0	21 W	11*	9*
12 27	16 34.22	−18 36.0	3.039	2.197	11.3	21.1	26 W	13*	15*
1 6	16 52.73	−19 32.5	3.021	2.243	13.3	21.2	32 W	15*	21*
1 16	17 10.59	−20 19.7	2.989	2.287	15.2	21.3	37 W	17*	28*
		180309 2003 XR							
12 23	22 49.57	− 0 35.6	1.716	1.712	33.3	20.7	73 E	44*	45*
1 2	23 12.30	+ 1 34.0	1.817	1.729	32.1	20.8	69 E	46*	40*
1 12	23 35.18	+ 3 46.9	1.919	1.748	30.7	20.9	65 E	47*	35*
1 22	23 58.17	+ 6 1.2	2.022	1.769	29.1	21.0	61 E	47*	31*
2 1	0 21.27	+ 8 15.1	2.125	1.791	27.5	21.1	57 E	45*	27*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
180309 2003 *XR*									*(continuation)*
	h m	° ′			°	m	°	°	°
2 11	0 44.45	+10 26.9	2.228	1.815	25.8	21.2	53 E	43*	24*
2 21	1 7.72	+12 34.6	2.329	1.840	24.0	21.3	49 E	40*	21*
3 2	1 31.10	+14 36.9	2.429	1.866	22.1	21.3	45 E	37*	18*
3 12	1 54.57	+16 32.0	2.527	1.893	20.2	21.4	41 E	34*	16*
3 22	2 18.14	+18 18.8	2.621	1.921	18.2	21.5	37 E	30*	14*
4 1	2 41.81	+19 56.1	2.711	1.950	16.2	21.5	33 E	26*	12*
471956 2013 SC_{25}									
12 23	22 50.42	+ 3 48.4	0.685	1.044	65.6	20.8	75 E	49*	43*
12 28	22 53.84	+ 2 46.0	0.669	0.987	69.9	20.8	70 E	47*	40*
1 2	22 57.47	+ 1 40.4	0.649	0.929	74.7	20.7	66 E	45*	37*
1 7	23 0.91	+ 0 26.8	0.624	0.872	80.3	20.7	61 E	43*	34*
1 12	23 3.65	− 1 1.0	0.595	0.815	87.1	20.7	56 E	40*	31*
1 17	23 4.92	− 2 51.9	0.560	0.759	95.2	20.7	50 E	36*	28*
1 22	23 3.62	− 5 17.0	0.523	0.707	105.3	20.9	44 E	30*	25*
1 27	22 58.21	− 8 29.2	0.486	0.659	117.8	21.4	36 E	24*	21*
32897 Curtharris									
12 23	22 50.80	−24 43.8	2.468	2.238	23.5	18.7	65 E	20*	56*
1 2	23 8.29	−23 1.6	2.606	2.273	21.9	18.8	60 E	21*	50*
1 12	23 25.77	−21 15.3	2.738	2.308	20.3	18.9	54 E	22*	44*
1 22	23 43.19	−19 26.3	2.864	2.342	18.5	19.0	49 E	21*	39*
2 1	0 0.53	−17 36.0	2.982	2.376	16.8	19.0	44 E	20*	35*
2 11	0 17.77	−15 45.7	3.091	2.409	15.0	19.1	39 E	18*	30*
2 21	0 34.91	−13 56.6	3.192	2.441	13.2	19.1	34 E	14*	26*
3 2	0 51.94	−12 9.8	3.282	2.473	11.5	19.2	30 E	11*	23*
3 12	1 8.86	−10 26.3	3.362	2.505	9.9	19.2	26 E	6*	19*
3 22	1 25.67	− 8 47.0	3.431	2.535	8.5	19.2	22 E	1*	16*
4 1	1 42.37	− 7 12.9	3.488	2.565	7.3	19.2	19 E	—	13*
4 11	1 58.93	− 5 44.7	3.534	2.594	6.6	19.2	17 E	—	9*
4 21	2 15.36	− 4 23.0	3.567	2.622	6.4	19.2	17 E	—	5*
5 1	2 31.64	− 3 8.7	3.588	2.650	6.8	19.3	18 W	—	2*
5 11	2 47.73	− 2 2.3	3.596	2.676	7.7	19.4	21 W	—	8*
5 21	3 3.61	− 1 4.2	3.592	2.702	8.9	19.4	24 W	—	14*
5 31	3 19.22	− 0 15.0	3.575	2.727	10.2	19.5	28 W	—	20*
6 10	3 34.52	+ 0 24.9	3.546	2.751	11.6	19.6	33 W	—	26*
6 20	3 49.45	+ 0 55.3	3.505	2.774	13.0	19.6	38 W	—	32*
6 30	4 3.92	+ 1 15.8	3.452	2.796	14.4	19.6	43 W	2*	37*
7 10	4 17.84	+ 1 26.4	3.388	2.817	15.6	19.7	48 W	8*	42*
7 20	4 31.12	+ 1 26.8	3.313	2.838	16.8	19.7	54 W	15*	47*
7 30	4 43.63	+ 1 17.2	3.229	2.857	17.9	19.7	60 W	21*	51*
8 9	4 55.22	+ 0 57.6	3.135	2.876	18.8	19.6	66 W	27*	55*
8 19	5 5.74	+ 0 28.4	3.034	2.893	19.5	19.6	72 W	33*	58*
8 29	5 15.00	− 0 10.1	2.927	2.910	19.9	19.5	79 W	38*	61*
9 8	5 22.80	− 0 57.1	2.816	2.925	20.1	19.5	86 W	41*	64*
9 18	5 28.90	− 1 51.5	2.703	2.940	19.9	19.4	93 W	43*	66*
9 28	5 33.05	− 2 51.7	2.590	2.954	19.4	19.3	101 W	42	67
10 8	5 35.03	− 3 55.5	2.482	2.967	18.5	19.2	109 W	41	68
10 18	5 34.61	− 4 59.7	2.381	2.979	17.2	19.1	118 W	40	69
10 28	5 31.68	− 6 0.3	2.291	2.990	15.5	18.9	126 W	39	70
11 7	5 26.28	− 6 52.3	2.218	3.000	13.6	18.8	135 W	38	71
11 12	5 22.72	− 7 13.3	2.189	3.004	12.6	18.7	139 W	38	71
11 17	5 18.66	− 7 30.1	2.165	3.009	11.6	18.7	142 W	37	72
11 22	5 14.17	− 7 42.0	2.147	3.013	10.7	18.6	145 W	37	72
11 27	5 9.36	− 7 48.4	2.135	3.017	10.0	18.6	148 W	37	72
12 7	4 59.19	− 7 43.6	2.132	3.024	9.5	18.6	150 W	37	72
12 17	4 49.07	− 7 14.3	2.156	3.030	10.2	18.6	147 E	38	71
12 27	4 39.94	− 6 22.1	2.207	3.035	11.8	18.7	141 E	39	70
1 6	4 32.54	− 5 10.7	2.282	3.039	13.7	18.9	133 E	40	69
1 16	4 27.34	− 3 45.1	2.377	3.042	15.5	19.0	124 E	41	68
163799 2003 QR_{69}									
12 23	22 52.17	− 1 48.7	1.675	1.679	34.1	19.2	73 E	43*	47*
1 2	23 15.31	+ 0 46.5	1.767	1.692	32.9	19.3	69 E	45*	41*
1 12	23 38.74	+ 3 23.8	1.860	1.708	31.6	19.4	66 E	47*	36*
1 22	0 2.40	+ 6 0.9	1.956	1.728	30.2	19.4	62 E	47*	32*
2 1	0 26.26	+ 8 35.9	2.054	1.750	28.6	19.5	58 E	46*	28*
2 11	0 50.29	+11 6.6	2.154	1.775	27.0	19.6	55 E	45*	25*
2 21	1 14.47	+13 31.1	2.254	1.803	25.2	19.7	51 E	42*	22*
3 2	1 38.81	+15 47.7	2.355	1.833	23.4	19.8	47 E	39*	19*
3 12	2 3.28	+17 54.7	2.455	1.864	21.5	19.9	44 E	36*	17*
3 22	2 27.86	+19 50.8	2.554	1.898	19.6	19.9	40 E	32*	15*
4 1	2 52.53	+21 34.9	2.652	1.933	17.6	20.0	36 E	29*	13*
4 11	3 17.24	+23 6.1	2.746	1.970	15.7	20.0	32 E	25*	12*
4 21	3 41.93	+24 23.7	2.837	2.007	13.6	20.1	28 E	21*	10*
5 1	4 6.54	+25 27.4	2.923	2.045	11.6	20.1	24 E	17*	8*
5 11	4 30.97	+26 17.0	3.004	2.084	9.6	20.1	20 E	12*	6*
5 21	4 55.13	+26 52.6	3.079	2.124	7.5	20.1	16 E	8*	4*
5 31	5 18.95	+27 14.6	3.146	2.164	5.5	20.1	12 E	5*	1*
6 10	5 42.31	+27 23.5	3.206	2.204	3.6	20.1	8 E	1*	—

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
163799 2003 QR_{69}									*(continuation)*
	h m	° ′			°	m	°	°	°
6 20	6 5.14	+27 20.1	3.256	2.244	2.0	20.1	5 E	—	—
6 30	6 27.36	+27 5.2	3.297	2.285	2.0	20.1	4 W	—	—
7 10	6 48.89	+26 40.0	3.328	2.325	3.4	20.3	8 W	1*	—
7 20	7 9.68	+26 5.4	3.348	2.365	5.3	20.4	12 W	5*	1*
7 30	7 29.68	+25 22.8	3.356	2.405	7.2	20.6	17 W	10*	5*
8 9	7 48.83	+24 33.3	3.353	2.444	9.0	20.7	22 W	14*	8*
8 19	8 7.12	+23 38.1	3.337	2.483	10.8	20.8	27 W	19*	11*
8 29	8 24.49	+22 38.6	3.309	2.522	12.6	20.9	33 W	25*	14*
9 8	8 40.92	+21 36.1	3.268	2.560	14.2	20.9	39 W	30*	17*
9 18	8 56.34	+20 31.9	3.215	2.598	15.8	21.0	45 W	36*	20*
9 28	9 10.71	+19 27.5	3.150	2.635	17.1	21.0	51 W	42*	23*
10 8	9 23.94	+18 24.1	3.074	2.671	18.4	21.0	57 W	48*	26*
10 18	9 35.95	+17 23.3	2.987	2.707	19.4	21.0	64 W	53*	30*
10 28	9 46.60	+16 26.6	2.891	2.742	20.1	21.0	71 W	57*	34*
11 7	9 55.75	+15 35.6	2.788	2.776	20.5	21.0	79 W	60*	38*
11 17	10 3.21	+14 52.0	2.679	2.810	20.6	20.9	87 W	60	42*
11 27	10 8.77	+14 17.5	2.568	2.842	20.2	20.8	96 W	59	46*
12 7	10 12.21	+13 53.5	2.457	2.875	19.3	20.7	105 W	59	49*
12 17	10 13.30	+13 41.3	2.352	2.906	17.9	20.6	115 W	59	50
12 27	10 11.86	+13 41.8	2.256	2.936	15.9	20.5	125 W	59	50
1 6	10 7.85	+13 54.4	2.174	2.966	13.2	20.3	137 W	59	50
1 16	10 1.41	+14 17.8	2.113	2.995	9.9	20.2	148 W	59	50
47035 1998 *WS*									
12 23	22 54.25	− 9 47.8	2.561	2.418	22.6	17.7	71 E	35*	52*
1 2	23 3.99	− 7 30.4	2.644	2.373	21.8	17.7	63 E	37*	43*
1 12	23 15.05	− 5 8.0	2.718	2.328	20.7	17.7	57 E	37*	36*
1 22	23 27.28	− 2 40.7	2.782	2.283	19.4	17.7	50 E	35*	29*
2 1	23 40.55	− 0 8.5	2.836	2.238	17.9	17.6	44 E	33*	23*
2 11	23 54.78	+ 2 28.7	2.878	2.192	16.2	17.6	38 E	29*	17*
2 21	0 9.92	+ 5 10.4	2.908	2.147	14.5	17.5	33 E	25*	13*
3 2	0 25.97	+ 7 56.7	2.927	2.102	12.7	17.4	28 E	21*	8*
3 12	0 42.93	+10 46.9	2.934	2.058	10.9	17.3	23 E	17*	4*
3 22	1 0.88	+13 40.4	2.931	2.014	9.2	17.2	19 E	13*	1*
4 1	1 19.90	+16 36.6	2.918	1.971	7.7	17.0	15 E	9*	—
4 11	1 40.11	+19 34.2	2.896	1.929	6.4	16.9	12 E	6*	—
4 21	2 1.65	+22 31.9	2.866	1.888	5.7	16.8	11 E	3*	—
5 1	2 24.72	+25 27.6	2.830	1.849	5.8	16.8	11 W	3*	—
5 11	2 49.50	+28 18.8	2.789	1.812	6.5	16.7	12 W	5*	—
5 21	3 16.22	+31 2.4	2.745	1.777	7.6	16.7	13 W	7*	—
5 31	3 45.07	+33 34.2	2.699	1.744	9.0	16.7	16 W	10*	—
6 5	4 0.32	+34 44.3	2.675	1.729	9.7	16.7	17 W	11*	—
6 10	4 16.15	+35 49.6	2.652	1.714	10.5	16.7	18 W	12*	—
6 15	4 32.56	+36 49.5	2.629	1.700	11.2	16.6	19 W	13*	—
6 20	4 49.52	+37 43.2	2.606	1.687	11.9	16.6	20 W	14*	—
6 25	5 7.01	+38 30.0	2.583	1.675	12.6	16.6	21 W	15*	—
6 30	5 24.98	+39 9.3	2.562	1.664	13.3	16.6	22 W	16*	—
7 5	5 43.37	+39 40.4	2.541	1.653	13.9	16.6	23 W	17*	—
7 10	6 2.12	+40 2.8	2.521	1.644	14.5	16.6	24 W	18*	—
7 15	6 21.13	+40 15.9	2.501	1.636	15.1	16.6	25 W	19*	—
7 20	6 40.32	+40 19.6	2.483	1.628	15.7	16.6	26 W	20*	—
7 25	6 59.56	+40 13.6	2.466	1.622	16.3	16.6	27 W	21*	—
7 30	7 18.75	+39 58.0	2.450	1.617	16.8	16.6	27 W	21*	—
8 4	7 37.78	+39 32.7	2.434	1.613	17.3	16.6	28 W	22*	—
8 9	7 56.55	+38 58.3	2.420	1.610	17.7	16.6	29 W	23*	—
8 14	8 14.99	+38 15.0	2.407	1.608	18.2	16.6	30 W	23*	—
8 19	8 33.01	+37 23.5	2.395	1.607	18.6	16.6	31 W	24*	—
8 24	8 50.55	+36 24.5	2.383	1.607	19.1	16.6	31 W	25*	—
8 29	9 7.56	+35 18.5	2.372	1.609	19.5	16.6	32 W	26*	—
9 8	9 39.91	+32 49.2	2.352	1.615	20.3	16.6	34 W	27*	—
9 18	10 9.99	+30 1.5	2.332	1.626	21.1	16.6	36 W	29*	1*
9 28	10 37.85	+27 1.4	2.313	1.641	22.0	16.7	38 W	32*	2*
10 8	11 3.64	+23 53.9	2.291	1.660	22.9	16.7	40 W	34*	5*
10 18	11 27.54	+20 43.3	2.267	1.682	23.8	16.7	43 W	37*	7*
10 28	11 49.69	+17 33.0	2.238	1.709	24.8	16.8	46 W	40*	11*
11 7	12 10.25	+14 25.7	2.204	1.738	25.8	16.8	50 W	43*	15*
11 17	12 29.33	+11 23.2	2.163	1.770	26.8	16.8	54 W	46*	19*
11 27	12 46.94	+ 8 27.1	2.115	1.805	27.7	16.8	58 W	47*	25*
12 7	13 3.09	+ 5 38.1	2.060	1.842	28.5	16.9	63 W	48*	31*
12 17	13 17.71	+ 2 56.6	1.998	1.881	29.2	16.9	69 W	47*	38*
12 27	13 30.66	+ 0 22.7	1.928	1.921	29.6	16.8	75 W	45*	46*
1 6	13 41.74	− 2 3.7	1.853	1.963	29.7	16.8	81 W	43	54*
1 16	13 50.66	− 4 23.2	1.773	2.006	29.4	16.7	89 W	41	62*
218144 2002 RL_{66}									
12 23	22 54.27	−14 41.2	2.242	2.098	25.9	19.5	69 E	30*	54*
1 2	23 6.89	−11 51.0	2.316	2.057	25.1	19.5	63 E	32*	46*
1 12	23 20.73	− 8 56.6	2.382	2.016	24.0	19.5	57 E	34*	39*
1 22	23 35.64	− 5 58.1	2.440	1.975	22.8	19.5	51 E	33*	32*
2 1	23 51.55	− 2 55.6	2.490	1.934	21.4	19.5	46 E	32*	27*
2 11	0 8.39	+ 0 10.8	2.531	1.893	19.8	19.4	41 E	30*	21*

218144 2002 RL_{66} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 21	0 26.16	+ 3 20.4	2.563	1.853	18.2	19.3	36 E	27*	17*
3 2	0 44.89	+ 6 32.9	2.586	1.814	16.5	19.2	31 E	23*	13*
3 12	1 4.64	+ 9 47.2	2.602	1.776	14.8	19.2	27 E	20*	9*
3 22	1 25.49	+13 2.1	2.609	1.740	13.1	19.1	23 E	17*	6*
4 1	1 47.60	+16 16.3	2.610	1.705	11.5	18.9	20 E	14*	3*
4 11	2 11.09	+19 27.6	2.605	1.672	10.0	18.8	17 E	11*	—
4 21	2 36.15	+22 33.4	2.596	1.642	8.8	18.7	14 E	8*	—
5 1	3 2.96	+25 30.7	2.582	1.614	7.8	18.7	13 E	6*	—
5 11	3 31.66	+28 15.5	2.567	1.589	7.2	18.6	11 E	5*	—
5 21	4 2.39	+30 43.4	2.549	1.567	7.0	18.5	11 E	4*	—
5 31	4 35.14	+32 49.5	2.532	1.549	7.1	18.5	11 E	3*	—
6 5	4 52.24	+33 42.6	2.524	1.541	7.3	18.5	11 W	3*	—
6 10	5 9.78	+34 28.4	2.516	1.534	7.6	18.5	11 W	4*	—
6 15	5 27.72	+35 6.2	2.509	1.529	7.9	18.5	12 W	4*	—
6 20	5 46.00	+35 35.5	2.502	1.524	8.2	18.5	12 W	5*	—
6 25	6 4.55	+35 55.9	2.495	1.521	8.5	18.5	13 W	6*	—
6 30	6 23.28	+36 7.0	2.490	1.518	8.8	18.5	13 W	6*	—
7 5	6 42.10	+36 8.8	2.485	1.517	9.2	18.5	14 W	7*	—
7 10	7 0.93	+36 1.0	2.482	1.517	9.5	18.5	14 W	7*	—
7 15	7 19.67	+35 43.9	2.479	1.518	9.8	18.5	15 W	8*	—
7 20	7 38.25	+35 17.6	2.476	1.520	10.1	18.5	15 W	8*	—
7 25	7 56.57	+34 42.5	2.475	1.523	10.4	18.5	16 W	9*	—
7 30	8 14.56	+33 59.0	2.475	1.527	10.8	18.6	16 W	9*	—
8 4	8 32.17	+33 7.9	2.475	1.532	11.1	18.6	17 W	10*	—
8 9	8 49.35	+32 9.5	2.476	1.539	11.4	18.6	17 W	10*	—
8 14	9 6.07	+31 4.8	2.477	1.546	11.7	18.6	18 W	11*	—
8 19	9 22.32	+29 54.3	2.479	1.554	12.0	18.7	19 W	12*	—
8 29	9 53.32	+27 19.0	2.484	1.573	12.7	18.7	20 W	13*	—
9 8	10 22.37	+24 29.3	2.489	1.596	13.4	18.8	22 W	15*	—
9 18	10 49.59	+21 30.1	2.494	1.622	14.3	18.8	23 W	17*	—
9 28	11 15.13	+18 25.9	2.496	1.651	15.3	18.9	26 W	19*	—
10 8	11 39.17	+15 20.3	2.494	1.682	16.4	19.0	28 W	22*	1*
10 18	12 1.87	+12 16.2	2.488	1.716	17.5	19.1	31 W	25*	4*
10 28	12 23.36	+ 9 15.9	2.475	1.751	18.8	19.1	35 W	28*	8*
11 7	12 43.75	+ 6 21.2	2.456	1.788	20.1	19.2	38 W	32*	11*
11 17	13 3.14	+ 3 33.2	2.429	1.827	21.5	19.3	43 W	34*	16*
11 27	13 21.53	+ 0 52.9	2.393	1.866	22.8	19.3	47 W	37*	21*
12 7	13 38.93	− 1 39.2	2.348	1.906	24.0	19.4	52 W	38*	27*
12 17	13 55.29	− 4 3.0	2.294	1.947	25.2	19.4	57 W	38*	34*
12 27	14 10.52	− 6 18.4	2.231	1.988	26.2	19.4	63 W	38*	42*
1 6	14 24.47	− 8 25.8	2.160	2.029	26.9	19.4	69 W	36*	50*
1 16	14 36.94	−10 25.7	2.081	2.070	27.4	19.4	76 W	35	58*

102454 1999 TY_{218}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	22 55.61	− 9 2.5	1.795	1.746	32.2	20.2	71 E	36*	52*
1 2	23 18.81	− 6 54.3	1.916	1.781	30.6	20.4	67 E	38*	46*
1 12	23 41.51	− 4 42.7	2.038	1.816	28.8	20.5	63 E	39*	41*
1 22	0 3.74	− 2 29.8	2.161	1.853	27.0	20.6	59 E	39*	37*
2 1	0 25.60	− 0 17.5	2.284	1.890	25.1	20.7	55 E	38*	33*
2 11	0 47.11	+ 1 52.6	2.405	1.928	23.1	20.8	50 E	36*	29*
2 21	1 8.35	+ 3 59.0	2.523	1.967	21.1	20.9	46 E	34*	26*
3 2	1 29.37	+ 6 0.5	2.638	2.005	19.1	21.0	41 E	30*	23*
3 12	1 50.19	+ 7 56.0	2.749	2.044	17.0	21.0	37 E	27*	20*
3 22	2 10.87	+ 9 44.4	2.853	2.082	14.9	21.1	32 E	22*	17*
4 1	2 31.43	+11 25.1	2.951	2.120	12.7	21.1	28 E	18*	15*
4 11	2 51.86	+12 57.3	3.042	2.158	10.6	21.2	23 E	13*	12*
4 21	3 12.18	+14 20.5	3.124	2.196	8.5	21.2	19 E	9*	9*
5 1	3 32.38	+15 34.3	3.196	2.233	6.4	21.2	14 E	4*	6*
5 11	3 52.42	+16 38.2	3.259	2.270	4.3	21.1	10 E	—	3*
5 21	4 12.29	+17 32.3	3.311	2.305	2.4	21.1	6 E	—	—
5 31	4 31.95	+18 16.3	3.352	2.341	1.6	21.1	4 W	—	—
6 10	4 51.34	+18 50.4	3.381	2.375	2.8	21.2	7 W	—	—
6 20	5 10.41	+19 14.7	3.398	2.409	4.7	21.4	11 W	—	5*
6 30	5 29.10	+19 29.5	3.402	2.442	6.6	21.5	16 W	1*	10*

234330 2001 *EF*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	22 55.94	−34 57.8	2.485	2.231	23.3	20.1	64 E	10*	58*
1 2	23 15.04	−32 9.3	2.616	2.275	21.8	20.2	59 E	13*	53*
1 12	23 33.59	−29 21.8	2.745	2.320	20.2	20.3	55 E	14*	48*
1 22	23 51.64	−26 36.9	2.870	2.364	18.7	20.4	50 E	15*	43*
2 1	0 9.24	−23 55.6	2.991	2.409	17.0	20.5	46 E	15*	38*
2 11	0 26.45	−21 19.1	3.107	2.453	15.4	20.6	41 E	14*	34*
2 21	0 43.31	−18 48.1	3.217	2.496	13.7	20.6	37 E	12*	30*
3 2	0 59.85	−16 23.5	3.319	2.540	12.1	20.7	33 E	8*	26*
3 12	1 16.10	−14 5.9	3.412	2.582	10.6	20.7	28 E	5*	22*
3 22	1 32.08	−11 55.8	3.495	2.625	9.2	20.7	25 E	—	19*
4 1	1 47.79	− 9 53.6	3.568	2.667	8.0	20.8	22 E	—	15*
4 11	2 3.24	− 7 59.8	3.630	2.708	7.2	20.8	20 E	—	11*
4 21	2 18.43	− 6 14.6	3.679	2.748	6.8	20.8	19 E	—	7*
5 1	2 33.34	− 4 38.2	3.716	2.788	7.0	20.9	20 W	—	3*
5 11	2 47.94	− 3 10.8	3.739	2.827	7.7	21.0	22 W	—	9*

234330 2001 *EF* *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 21	3 2.20	− 1 52.5	3.749	2.866	8.6	21.0	25 W	—	15*
5 31	3 16.08	− 0 43.3	3.745	2.904	9.8	21.1	29 W	—	21*
6 10	3 29.51	+ 0 16.6	3.727	2.941	11.1	21.2	34 W	—	27*
6 20	3 42.45	+ 1 7.4	3.696	2.977	12.4	21.2	39 W	—	33*
6 30	3 54.80	+ 1 49.2	3.650	3.012	13.7	21.3	45 W	4*	39*
7 10	4 6.46	+ 2 22.1	3.592	3.047	14.9	21.3	50 W	11*	44*
7 20	4 17.33	+ 2 46.5	3.521	3.081	16.0	21.3	57 W	18*	48*
7 30	4 27.27	+ 3 2.5	3.439	3.114	16.9	21.3	63 W	25*	52*
8 9	4 36.14	+ 3 10.7	3.347	3.147	17.6	21.3	70 W	32*	56*
8 19	4 43.76	+ 3 11.7	3.247	3.178	18.1	21.3	77 W	38*	58*
8 29	4 49.94	+ 3 6.2	3.140	3.209	18.3	21.3	85 W	43*	60*
9 8	4 54.47	+ 2 55.2	3.030	3.239	18.1	21.2	93 W	47*	61*
9 18	4 57.15	+ 2 39.8	2.919	3.268	17.6	21.1	101 W	48	61
9 28	4 57.75	+ 2 21.9	2.812	3.296	16.6	21.0	110 W	47	62
10 8	4 56.14	+ 2 3.3	2.712	3.323	15.1	20.9	120 W	47	62
10 18	4 52.24	+ 1 46.5	2.625	3.350	13.3	20.8	130 W	47	62
10 28	4 46.14	+ 1 34.4	2.556	3.375	11.0	20.7	140 W	47	62
11 7	4 38.13	+ 1 29.9	2.510	3.400	8.5	20.5	149 W	47	62
11 17	4 28.72	+ 1 35.5	2.490	3.424	6.4	20.4	157 W	47	62
11 27	4 18.62	+ 1 53.2	2.501	3.447	5.4	20.4	161 W	47	62
12 7	4 8.66	+ 2 23.4	2.542	3.470	6.4	20.5	157 E	47	62
12 17	3 59.59	+ 3 5.6	2.614	3.491	8.5	20.7	149 E	48	61
12 27	3 52.07	+ 3 58.2	2.713	3.512	10.7	20.9	139 E	49	60
1 6	3 46.48	+ 4 58.9	2.836	3.532	12.6	21.1	128 E	50	59
1 16	3 43.01	+ 6 5.5	2.977	3.551	14.1	21.2	118 E	51	58

2064 Thomsen

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	22 57.04	− 0 40.3	1.754	1.771	32.4	16.4	75 E	44*	47*
1 2	23 19.05	+ 1 27.3	1.883	1.810	30.8	16.6	70 E	46*	42*
1 12	23 40.74	+ 3 35.1	2.014	1.850	29.1	16.7	66 E	47*	36*
1 22	0 2.15	+ 5 42.0	2.146	1.891	27.3	16.9	62 E	47*	32*
2 1	0 23.34	+ 7 46.9	2.277	1.931	25.4	17.0	57 E	45*	28*
2 11	0 44.35	+ 9 48.7	2.406	1.972	23.5	17.1	53 E	43*	24*
2 21	1 5.20	+11 46.5	2.533	2.013	21.5	17.2	48 E	39*	21*
3 2	1 25.95	+13 39.4	2.655	2.053	19.4	17.3	44 E	36*	18*
3 12	1 46.62	+15 26.4	2.772	2.093	17.3	17.3	39 E	31*	15*
3 22	2 7.23	+17 6.9	2.882	2.132	15.2	17.4	34 E	27*	13*
4 1	2 27.79	+18 40.2	2.986	2.171	13.1	17.4	29 E	22*	10*
4 11	2 48.31	+20 5.7	3.080	2.210	10.9	17.4	25 E	18*	8*
4 21	3 8.78	+21 22.9	3.166	2.247	8.8	17.5	20 E	13*	5*
5 1	3 29.19	+22 31.3	3.241	2.284	6.6	17.4	15 E	8*	2*
5 11	3 49.50	+23 30.8	3.306	2.320	4.5	17.4	10 E	4*	—
5 21	4 9.68	+24 21.0	3.359	2.355	2.5	17.4	6 E	—	—
5 31	4 29.69	+25 2.1	3.400	2.389	1.4	17.3	3 W	—	—
6 10	4 49.45	+25 33.9	3.429	2.422	2.5	17.5	6 W	—	—
6 20	5 8.92	+25 56.7	3.445	2.454	4.4	17.6	11 W	2*	2*
6 30	5 28.03	+26 10.7	3.447	2.485	6.4	17.8	16 W	6*	6*
7 10	5 46.70	+26 16.5	3.436	2.515	8.4	17.9	21 W	11*	10*
7 20	6 4.86	+26 14.4	3.412	2.544	10.3	18.0	27 W	16*	13*
7 30	6 22.41	+26 5.3	3.374	2.571	12.1	18.0	32 W	21*	16*
8 9	6 39.29	+25 49.9	3.323	2.598	13.8	18.1	38 W	27*	19*
8 19	6 55.39	+25 29.1	3.259	2.624	15.5	18.1	44 W	33*	22*
8 29	7 10.61	+25 3.8	3.183	2.648	17.0	18.1	50 W	39*	25*
9 8	7 24.84	+24 35.4	3.095	2.672	18.3	18.1	56 W	46*	27*
9 18	7 37.94	+24 4.9	2.996	2.694	19.4	18.1	63 W	52*	30*
9 28	7 49.77	+23 33.7	2.888	2.715	20.3	18.1	70 W	58*	32*
10 8	8 0.14	+23 3.5	2.772	2.735	20.9	18.0	77 W	63*	35*
10 18	8 8.84	+22 35.6	2.650	2.754	21.1	18.0	85 W	67*	37*
10 28	8 15.63	+22 11.9	2.525	2.771	21.0	17.9	94 W	67	40*
11 7	8 20.24	+21 53.8	2.400	2.788	20.3	17.7	103 W	67	41*
11 17	8 22.37	+21 42.7	2.278	2.803	19.1	17.6	112 W	67	42*
11 27	8 21.74	+21 39.5	2.164	2.818	17.2	17.4	122 W	67	42
12 7	8 18.19	+21 44.3	2.064	2.831	14.7	17.3	133 W	67	42
12 17	8 11.70	+21 56.1	1.981	2.842	11.5	17.1	145 W	67	42
12 27	8 2.57	+22 12.4	1.921	2.853	7.7	16.8	157 W	67	42
1 1	7 57.21	+22 21.2	1.902	2.858	5.6	16.7	163 W	67	42
1 6	7 51.49	+22 29.8	1.890	2.863	3.5	16.6	170 W	67	42
1 11	7 45.52	+22 37.8	1.885	2.867	1.3	16.4	176 W	68	41
1 16	7 39.48	+22 44.7	1.888	2.871	1.1	16.4	177 E	68	41

255071 2005 UH_6

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	22 58.20	− 6 27.7	1.475	1.510	38.5	21.5	73 E	39*	51*
1 2	23 18.82	− 4 9.4	1.618	1.549	36.1	21.7	68 E	40*	45*
1 12	23 38.58	− 1 55.1	1.754	1.581	33.8	21.8	63 E	41*	39*
1 22	23 57.82	+ 0 16.1	1.883	1.605	31.5	21.9	58 E	41*	34*
2 1	0 16.81	+ 2 24.8	2.001	1.622	29.2	22.0	54 E	40*	29*

380472 2003 WR_{24}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	22 58.52	+ 1 3.8	1.761	1.794	32.1	20.6	76 E	46*	46*
1 2	23 20.77	+ 2 43.6	1.890	1.831	30.6	20.7	71 E	47*	41*
1 12	23 42.73	+ 4 27.0	2.021	1.870	29.0	20.9	67 E	48*	36*
1 22	0 4.41	+ 6 12.3	2.152	1.909	27.2	21.0	62 E	47*	32*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			380472 2003 WR_{24}			*(continuation)*			
	h m	° ′			°	m	°	°	°
2 1	0 25.86	+ 7 58.0	2.283	1.948	25.4	21.1	58 E	46*	28*
2 11	0 47.09	+ 9 42.6	2.412	1.987	23.5	21.2	53 E	43*	25*
2 21	1 8.14	+11 24.7	2.539	2.026	21.5	21.3	49 E	40*	22*
3 2	1 29.06	+13 3.3	2.661	2.065	19.4	21.4	44 E	36*	19*
3 12	1 49.84	+14 37.2	2.778	2.104	17.4	21.4	39 E	31*	16*
			66959 1999 XO_{35}						
12 23	22 59.31	−24 59.0	1.048	1.119	53.9	18.9	67 E	20	58*
12 28	23 19.97	−21 34.3	1.050	1.131	53.4	18.9	67 E	23*	57*
1 2	23 40.01	−17 59.8	1.058	1.145	52.8	19.0	68 E	27*	56*
1 7	23 59.44	−14 19.3	1.070	1.162	52.1	19.0	69 E	31*	54*
1 12	0 18.29	−10 36.3	1.088	1.182	51.1	19.0	69 E	34*	52*
1 17	0 36.60	− 6 54.4	1.111	1.205	50.1	19.1	70 E	38*	50*
1 22	0 54.43	− 3 16.7	1.139	1.229	48.9	19.2	70 E	41*	48*
1 27	1 11.84	+ 0 14.0	1.173	1.256	47.7	19.2	71 E	44*	45*
2 1	1 28.87	+ 3 35.6	1.212	1.284	46.4	19.3	71 E	47*	43*
2 6	1 45.57	+ 6 46.5	1.256	1.314	45.0	19.4	71 E	50*	41*
2 11	2 1.98	+ 9 45.4	1.305	1.346	43.7	19.5	70 E	52*	39*
2 21	2 34.05	+15 5.4	1.414	1.412	41.0	19.7	69 E	55*	35*
3 2	3 5.35	+19 34.8	1.537	1.481	38.3	19.9	68 E	56*	32*
3 12	3 35.99	+23 16.2	1.670	1.552	35.7	20.1	66 E	55*	29*
3 17	3 51.07	+24 50.2	1.740	1.589	34.4	20.2	64 E	55*	28*
3 22	4 6.01	+26 13.8	1.812	1.625	33.1	20.3	63 E	54*	27*
3 27	4 20.80	+27 27.8	1.885	1.662	31.9	20.4	62 E	52*	26*
4 1	4 35.44	+28 32.6	1.959	1.699	30.7	20.5	60 E	51*	25*
4 6	4 49.92	+29 28.9	2.033	1.736	29.5	20.6	59 E	50*	25*
4 11	5 4.22	+30 17.2	2.109	1.773	28.3	20.7	57 E	48*	24*
4 16	5 18.34	+30 58.0	2.184	1.810	27.1	20.8	55 E	46*	23*
4 21	5 32.28	+31 31.9	2.260	1.847	25.9	20.9	53 E	44*	23*
4 26	5 46.03	+31 59.3	2.336	1.883	24.7	21.0	52 E	42*	22*
5 1	5 59.56	+32 20.7	2.411	1.920	23.6	21.0	50 E	40*	21*
5 6	6 12.89	+32 36.5	2.486	1.956	22.5	21.1	48 E	38*	21*
5 11	6 25.98	+32 47.1	2.560	1.992	21.3	21.2	46 E	36*	20*
5 16	6 38.85	+32 52.9	2.633	2.028	20.2	21.2	44 E	34*	20*
5 21	6 51.50	+32 54.3	2.705	2.063	19.1	21.3	42 E	31*	19*
5 26	7 3.90	+32 51.7	2.775	2.099	18.0	21.4	40 E	29*	18*
5 31	7 16.07	+32 45.3	2.844	2.134	16.9	21.4	38 E	27*	17*
6 5	7 28.00	+32 35.5	2.911	2.168	15.8	21.5	36 E	25*	16*
			30771 1986 PO_2						
12 23	22 59.56	−13 50.3	1.596	1.568	36.2	18.1	70 E	31	55*
12 28	23 12.46	−12 35.0	1.632	1.569	35.7	18.1	69 E	32*	52*
1 2	23 25.40	−11 16.8	1.668	1.571	35.2	18.1	67 E	34*	50*
1 7	23 38.35	− 9 56.1	1.704	1.574	34.6	18.2	65 E	35*	47*
1 12	23 51.30	− 8 33.5	1.742	1.578	34.0	18.2	64 E	36*	45*
1 22	0 17.18	− 5 44.1	1.818	1.589	32.7	18.3	61 E	37*	41*
2 1	0 43.03	− 2 51.9	1.897	1.604	31.3	18.4	58 E	38*	38*
2 11	1 8.83	− 0 0.7	1.979	1.623	29.8	18.4	55 E	37*	35*
2 21	1 34.57	+ 2 46.5	2.063	1.645	28.1	18.5	52 E	36*	32*
3 2	2 0.30	+ 5 26.7	2.150	1.670	26.5	18.6	49 E	35*	30*
3 12	2 26.00	+ 7 57.3	2.238	1.697	24.7	18.6	46 E	33*	27*
3 22	2 51.69	+10 16.3	2.328	1.727	22.9	18.7	42 E	30*	26*
4 1	3 17.35	+12 21.9	2.418	1.760	21.0	18.8	39 E	27*	24*
4 11	3 42.94	+14 12.7	2.508	1.794	19.1	18.8	36 E	23*	22*
4 21	4 8.43	+15 47.9	2.597	1.830	17.1	18.9	32 E	20*	20*
5 1	4 33.77	+17 7.0	2.684	1.867	15.1	18.9	29 E	16*	18*
5 11	4 58.86	+18 9.8	2.768	1.905	13.1	19.0	25 E	11*	16*
5 21	5 23.66	+18 56.5	2.848	1.944	11.1	19.0	22 E	7*	13*
5 31	5 48.07	+19 27.5	2.924	1.983	9.0	19.0	18 E	3*	11*
6 10	6 12.01	+19 43.6	2.994	2.024	7.0	19.0	14 E	—	8*
6 20	6 35.42	+19 45.7	3.057	2.064	4.9	19.0	10 E	—	4*
6 30	6 58.23	+19 34.9	3.112	2.105	3.0	19.0	6 E	—	—
7 10	7 20.39	+19 12.4	3.160	2.145	1.5	19.0	3 E	—	—
7 20	7 41.86	+18 39.5	3.197	2.185	2.0	19.1	4 W	—	—
7 30	8 2.61	+17 57.6	3.225	2.226	3.8	19.2	8 W	—	2*
8 9	8 22.62	+17 8.0	3.242	2.266	5.7	19.4	13 W	4*	5*
8 19	8 41.87	+16 12.0	3.248	2.305	7.7	19.5	18 W	8*	8*
8 29	9 0.35	+15 11.1	3.242	2.344	9.6	19.6	23 W	14*	11*
9 8	9 18.03	+14 6.7	3.224	2.382	11.5	19.7	28 W	19*	14*
9 18	9 34.92	+13 0.0	3.194	2.420	13.2	19.8	33 W	24*	17*
9 28	9 50.98	+11 52.6	3.151	2.457	14.9	19.9	39 W	30*	20*
10 8	10 6.16	+10 45.9	3.096	2.494	16.5	19.9	45 W	35*	23*
10 18	10 20.43	+ 9 41.2	3.029	2.530	17.9	20.0	51 W	40*	27*
10 28	10 33.70	+ 8 40.2	2.950	2.564	19.2	20.0	58 W	45*	31*
11 7	10 45.88	+ 7 44.5	2.861	2.599	20.2	20.0	65 W	48*	35*
11 17	10 56.84	+ 6 55.8	2.763	2.632	20.9	19.9	72 W	51*	40*
11 27	11 6.42	+ 6 16.1	2.658	2.664	21.4	19.9	80 W	51*	45*
12 7	11 14.42	+ 5 47.2	2.548	2.696	21.4	19.8	88 W	51	51*
12 17	11 20.64	+ 5 31.3	2.435	2.727	21.0	19.7	96 W	51	55*
12 27	11 24.81	+ 5 30.3	2.323	2.756	20.1	19.6	106 W	51	58*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			30771 1986 PO_2			*(continuation)*			
	h m	° ′			°	m	°	°	°
1 6	11 26.71	+ 5 45.9	2.217	2.785	18.6	19.5	115 W	51	58
1 16	11 26.14	+ 6 19.2	2.120	2.813	16.4	19.4	126 W	51	58
			175921 2000 DM_1						
12 23	23 1.38	+21 14.8	1.007	1.350	46.6	20.7	85 E	66	32*
12 28	23 17.76	+22 40.7	1.069	1.385	45.0	20.9	85 E	68*	30*
1 2	23 33.56	+23 58.4	1.133	1.420	43.5	21.0	84 E	69*	28*
1 7	23 48.88	+25 9.2	1.198	1.454	42.2	21.1	83 E	70*	26*
1 12	0 3.77	+26 14.0	1.265	1.486	40.9	21.3	82 E	70*	25*
1 17	0 18.32	+27 13.7	1.332	1.518	39.7	21.4	80 E	70*	23*
			326397 2001 RO_{91}						
12 23	23 1.96	−10 34.8	2.064	1.994	28.0	21.0	72 E	34	54*
1 2	23 18.30	− 9 1.4	2.127	1.950	27.5	21.0	66 E	36*	47*
1 12	23 36.00	− 7 16.4	2.184	1.907	26.7	21.0	61 E	36*	41*
1 22	23 54.92	− 5 21.1	2.234	1.866	25.8	21.0	56 E	36*	36*
2 1	0 14.97	− 3 17.0	2.279	1.827	24.8	20.9	51 E	34*	32*
2 11	0 36.07	− 1 5.8	2.318	1.789	23.6	20.9	47 E	32*	28*
2 21	0 58.19	+ 1 10.5	2.351	1.755	22.4	20.9	43 E	30*	25*
3 2	1 21.31	+ 3 29.9	2.381	1.723	21.1	20.8	39 E	27*	22*
3 12	1 45.42	+ 5 50.0	2.406	1.694	19.8	20.7	35 E	24*	20*
3 22	2 10.52	+ 8 8.1	2.429	1.669	18.4	20.7	32 E	21*	18*
4 1	2 36.62	+10 21.5	2.450	1.648	17.1	20.6	29 E	18*	16*
4 11	3 3.68	+12 27.0	2.470	1.631	15.7	20.6	26 E	15*	15*
4 21	3 31.67	+14 21.8	2.489	1.618	14.3	20.5	23 E	12*	13*
5 1	4 0.51	+16 2.9	2.510	1.610	12.9	20.5	21 E	9*	12*
5 11	4 30.05	+17 27.5	2.531	1.606	11.5	20.5	19 E	6*	11*
5 21	5 0.13	+18 33.5	2.554	1.607	10.1	20.4	16 E	3*	9*
5 31	5 30.55	+19 19.2	2.579	1.613	8.7	20.4	14 E	1*	7*
6 10	6 1.04	+19 43.7	2.606	1.624	7.2	20.4	12 E	—	5*
6 20	6 31.38	+19 46.8	2.634	1.639	5.7	20.3	9 E	—	3*
6 30	7 1.30	+19 29.2	2.663	1.658	4.2	20.3	7 E	—	1*
7 10	7 30.59	+18 52.4	2.693	1.681	2.7	20.3	5 E	—	—
7 20	7 59.09	+17 58.1	2.723	1.708	1.6	20.2	3 E	—	—
7 30	8 26.67	+16 48.7	2.751	1.738	1.8	20.3	3 W	—	—
8 9	8 53.24	+15 26.8	2.778	1.772	3.2	20.5	6 W	—	—
8 19	9 18.79	+13 54.8	2.802	1.808	4.8	20.6	9 W	1*	1*
8 29	9 43.29	+12 15.2	2.822	1.846	6.5	20.8	12 W	4*	3*
9 8	10 6.77	+10 30.5	2.837	1.886	8.2	20.9	16 W	8*	5*
9 18	10 29.28	+ 8 42.7	2.846	1.928	10.0	21.0	19 W	12*	7*
9 28	10 50.83	+ 6 54.0	2.848	1.971	11.8	21.2	24 W	16*	10*
10 8	11 11.47	+ 5 6.3	2.842	2.016	13.5	21.3	28 W	20*	12*
10 18	11 31.24	+ 3 21.0	2.828	2.061	15.1	21.4	33 W	24*	15*
10 28	11 50.12	+ 1 40.0	2.805	2.108	16.7	21.5	38 W	28*	18*
			214529 2006 KU_{41}						
12 23	23 4.24	− 7 40.5	1.630	1.650	34.9	20.4	74 E	37	53*
1 2	23 27.16	− 4 56.0	1.724	1.663	33.7	20.5	70 E	40*	47*
1 12	23 50.16	− 2 9.2	1.820	1.679	32.3	20.6	66 E	42*	42*
1 22	0 13.22	+ 0 37.6	1.917	1.697	30.8	20.7	62 E	43*	37*
2 1	0 36.36	+ 3 22.4	2.015	1.717	29.2	20.8	58 E	43*	33*
2 11	0 59.58	+ 6 3.1	2.113	1.739	27.6	20.9	55 E	42*	29*
2 21	1 22.89	+ 8 38.0	2.211	1.762	25.8	20.9	51 E	40*	26*
3 2	1 46.35	+11 5.4	2.308	1.787	24.0	21.0	47 E	37*	24*
3 12	2 9.95	+13 23.8	2.404	1.813	22.1	21.1	43 E	34*	21*
3 22	2 33.70	+15 31.7	2.497	1.839	20.1	21.1	39 E	31*	19*
4 1	2 57.61	+17 28.1	2.587	1.867	18.1	21.2	36 E	27*	17*
4 11	3 21.66	+19 12.0	2.673	1.896	16.1	21.2	32 E	23*	15*
4 21	3 45.81	+20 42.5	2.755	1.924	14.1	21.2	28 E	19*	13*
5 1	4 10.02	+21 59.2	2.832	1.954	12.0	21.2	24 E	15*	11*
5 11	4 34.23	+23 1.7	2.903	1.983	10.0	21.2	20 E	11*	8*
5 21	4 58.35	+23 49.8	2.968	2.013	7.9	21.2	16 E	7*	6*
5 31	5 22.32	+24 23.6	3.025	2.043	5.8	21.2	12 E	3*	3*
6 10	5 46.03	+24 43.5	3.074	2.072	3.7	21.2	8 E	—	—
6 20	6 9.40	+24 49.9	3.115	2.102	1.7	21.1	4 E	—	—
6 30	6 32.36	+24 43.6	3.147	2.131	0.9	21.1	2 W	—	—
7 10	6 54.81	+24 25.5	3.169	2.159	2.7	21.3	6 W	—	—
7 20	7 16.70	+23 56.5	3.181	2.188	4.7	21.4	10 W	3*	1*
			481773 2008 SO_4						
12 23	23 4.62	− 7 0.7	1.601	1.631	35.4	20.9	74 E	38	52*
1 2	23 26.60	− 4 3.9	1.672	1.624	34.7	21.0	70 E	41*	46*
1 12	23 49.32	− 1 2.4	1.745	1.620	33.7	21.1	66 E	43*	41*
1 22	0 12.69	+ 2 1.5	1.818	1.621	32.6	21.1	63 E	44*	36*
2 1	0 36.67	+ 5 5.2	1.892	1.624	31.4	21.2	59 E	44*	32*
2 11	1 1.21	+ 8 5.9	1.968	1.632	30.0	21.2	56 E	44*	29*
2 21	1 26.31	+11 0.8	2.045	1.643	28.5	21.3	53 E	42*	26*
3 2	1 51.96	+13 47.4	2.122	1.657	27.0	21.3	49 E	40*	23*
3 12	2 18.14	+16 22.9	2.201	1.674	25.3	21.4	46 E	37*	21*
3 22	2 44.81	+18 45.1	2.281	1.695	23.6	21.4	43 E	35*	19*
4 1	3 11.92	+20 51.9	2.361	1.718	21.9	21.5	40 E	32*	18*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		480918 2002 VF_{118}							
	h m	° ′			°	m	°	°	°
12 23	23 4.80	+26 23.3	1.233	1.556	39.2	20.1	88 E	71	28*
12 28	23 19.87	+26 44.2	1.268	1.565	38.9	20.1	87 E	72*	27*
1 2	23 35.22	+27 5.1	1.305	1.575	38.5	20.2	86 E	72*	26*
1 7	23 50.76	+27 25.9	1.343	1.585	38.1	20.3	84 E	72*	25*
1 12	0 6.46	+27 46.1	1.384	1.597	37.7	20.3	83 E	72*	24*
1 22	0 38.11	+28 23.6	1.470	1.622	36.7	20.5	80 E	71*	23*
2 1	1 9.84	+28 55.9	1.565	1.650	35.6	20.6	77 E	69*	22*
2 11	1 41.34	+29 21.4	1.666	1.681	34.3	20.8	74 E	66*	21*
2 21	2 12.37	+29 38.9	1.774	1.714	32.9	20.9	70 E	63*	21*
3 2	2 42.78	+29 47.7	1.888	1.748	31.3	21.0	67 E	60*	21*
3 12	3 12.44	+29 47.2	2.005	1.785	29.7	21.2	63 E	56*	21*
3 22	3 41.26	+29 37.2	2.126	1.822	27.9	21.3	59 E	51*	21*
4 1	4 9.21	+29 17.6	2.248	1.860	26.0	21.4	55 E	47*	21*
4 11	4 36.24	+28 48.4	2.370	1.899	24.1	21.5	51 E	42*	21*
		122180 2000 KV_{43}							
12 23	23 5.07	+ 2 13.9	1.584	1.679	34.9	21.0	78 E	47	47*
1 2	23 24.51	+ 3 11.2	1.658	1.653	34.5	21.0	72 E	48*	41*
1 12	23 45.14	+ 4 22.0	1.727	1.627	33.9	21.1	67 E	48*	37*
1 22	0 6.87	+ 5 43.6	1.790	1.601	33.2	21.1	63 E	47*	33*
2 1	0 29.64	+ 7 13.8	1.847	1.574	32.2	21.1	58 E	45*	29*
2 11	0 53.41	+ 8 49.7	1.899	1.547	31.2	21.1	54 E	43*	27*
2 21	1 18.17	+10 28.7	1.944	1.520	30.1	21.1	50 E	40*	24*
3 2	1 43.97	+12 7.9	1.984	1.494	29.0	21.0	47 E	37*	22*
3 12	2 10.81	+13 44.3	2.018	1.468	27.8	21.0	44 E	34*	21*
3 22	2 38.73	+15 14.7	2.047	1.442	26.7	21.0	41 E	31*	20*
4 1	3 7.74	+16 36.1	2.071	1.418	25.5	20.9	38 E	28*	19*
4 11	3 37.81	+17 45.1	2.091	1.396	24.4	20.9	35 E	25*	19*
4 21	4 8.90	+18 38.7	2.108	1.375	23.3	20.8	33 E	22*	18*
5 1	4 40.92	+19 13.8	2.122	1.356	22.3	20.8	31 E	18*	18*
5 11	5 13.70	+19 27.9	2.134	1.340	21.3	20.7	29 E	15*	18*
5 21	5 47.06	+19 19.1	2.145	1.326	20.3	20.7	27 E	12*	18*
5 31	6 20.78	+18 46.2	2.155	1.316	19.4	20.6	26 E	8*	17*
6 10	6 54.60	+17 48.8	2.166	1.308	18.6	20.6	24 E	5*	17*
6 20	7 28.31	+16 27.6	2.178	1.304	17.7	20.6	23 E	3*	16*
6 30	8 1.71	+14 44.1	2.191	1.303	16.8	20.6	22 E	—	16*
7 10	8 34.63	+12 40.5	2.206	1.305	16.0	20.6	21 E	—	15*
7 20	9 7.00	+10 19.9	2.224	1.311	15.0	20.6	20 E	—	13*
7 30	9 38.77	+ 7 45.4	2.245	1.320	14.0	20.6	18 E	—	12*
8 9	10 9.92	+ 5 1.0	2.268	1.332	12.9	20.6	17 E	—	11*
8 19	10 40.51	+ 2 10.0	2.293	1.347	11.7	20.6	16 E	—	9*
8 29	11 10.62	− 0 43.9	2.321	1.365	10.5	20.6	14 E	—	7*
9 8	11 40.31	− 3 37.2	2.350	1.384	9.1	20.6	13 E	—	6*
9 18	12 9.70	− 6 26.8	2.381	1.406	7.7	20.6	11 E	—	4*
9 28	12 38.87	− 9 9.7	2.411	1.429	6.1	20.6	9 E	—	2*
10 8	13 7.89	−11 43.3	2.441	1.454	4.6	20.5	7 E	—	—
10 18	13 36.84	−14 5.4	2.470	1.479	3.1	20.5	5 E	—	—
10 28	14 5.75	−16 13.7	2.496	1.506	2.2	20.5	3 W	—	—
11 7	14 34.64	−18 6.6	2.519	1.532	2.5	20.6	4 W	—	—
11 17	15 3.50	−19 42.6	2.538	1.559	4.0	20.8	6 W	—	—
11 27	15 32.26	−21 0.6	2.552	1.586	5.7	20.9	9 W	—	2*
12 7	16 0.86	−21 59.7	2.560	1.613	7.6	21.0	13 W	3*	5*
12 17	16 29.19	−22 39.6	2.562	1.639	9.6	21.1	16 W	5*	8*
12 27	16 57.13	−23 0.2	2.556	1.665	11.6	21.3	20 W	7*	11*
1 6	17 24.54	−23 1.9	2.543	1.690	13.5	21.3	24 W	8*	15*
1 16	17 51.31	−22 45.3	2.522	1.714	15.5	21.4	28 W	10*	20*
		186393 2002 NR_{39}							
12 23	23 5.49	− 5 27.4	1.632	1.669	34.6	20.8	75 E	40	52*
1 2	23 29.18	− 2 55.5	1.742	1.699	33.2	20.9	71 E	42*	46*
1 12	23 52.58	− 0 22.9	1.854	1.730	31.6	21.1	67 E	44*	41*
1 22	0 15.69	+ 2 8.2	1.970	1.763	29.9	21.2	63 E	44*	37*
2 1	0 38.58	+ 4 36.1	2.087	1.797	28.1	21.3	59 E	44*	33*
2 11	1 1.28	+ 6 59.2	2.204	1.833	26.3	21.4	55 E	43*	29*
		9881 1994 SE							
12 23	23 5.60	−11 31.9	1.478	1.509	38.4	19.0	73 E	33	55*
12 28	23 19.35	− 9 37.4	1.526	1.528	37.6	19.1	71 E	35*	52*
1 2	23 32.81	− 7 43.9	1.577	1.547	36.7	19.1	70 E	37*	50*
1 7	23 46.02	− 5 51.9	1.630	1.567	35.8	19.2	69 E	39*	47*
1 12	23 58.97	− 4 1.9	1.684	1.588	34.8	19.3	67 E	40*	45*
1 22	0 24.26	− 0 28.9	1.797	1.632	32.9	19.4	64 E	42*	40*
2 1	0 48.85	+ 2 53.1	1.915	1.677	30.9	19.6	61 E	43*	36*
2 11	1 12.89	+ 6 2.6	2.037	1.725	28.9	19.7	58 E	43*	32*
2 21	1 36.50	+ 8 58.8	2.162	1.774	26.8	19.8	54 E	42*	29*
3 2	1 59.80	+11 41.2	2.288	1.823	24.7	19.9	50 E	40*	26*
3 12	2 22.84	+14 9.4	2.414	1.873	22.6	20.1	46 E	37*	23*
3 22	2 45.70	+16 23.2	2.538	1.924	20.5	20.2	42 E	33*	21*
4 1	3 8.39	+18 22.8	2.659	1.975	18.3	20.2	38 E	29*	18*
4 11	3 30.94	+20 8.2	2.776	2.025	16.1	20.3	34 E	25*	16*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		9881 1994 SE *(continuation)*							
	h m	° ′			°	m	°	°	°
4 21	3 53.33	+21 39.6	2.887	2.076	13.9	20.4	30 E	21*	14*
5 1	4 15.56	+22 57.4	2.992	2.125	11.7	20.4	25 E	16*	11*
5 11	4 37.58	+24 1.9	3.089	2.175	9.5	20.5	21 E	12*	8*
5 21	4 59.35	+24 53.6	3.177	2.223	7.3	20.5	16 E	8*	5*
5 31	5 20.83	+25 33.0	3.255	2.271	5.2	20.5	12 E	4*	2*
6 10	5 41.94	+26 0.9	3.322	2.318	3.1	20.4	7 E	—	—
6 20	6 2.64	+26 18.1	3.378	2.364	1.4	20.4	3 E	—	—
6 30	6 22.86	+26 25.3	3.422	2.410	1.9	20.5	4 W	—	—
7 10	6 42.56	+26 23.6	3.453	2.454	3.7	20.7	9 W	2*	—
7 20	7 1.67	+26 13.9	3.471	2.497	5.7	20.8	14 W	7*	3*
7 30	7 20.14	+25 57.4	3.475	2.539	7.6	21.0	19 W	11*	6*
8 9	7 37.92	+25 35.3	3.465	2.581	9.5	21.1	25 W	17*	9*
8 19	7 54.96	+25 8.6	3.441	2.621	11.3	21.2	31 W	23*	12*
8 29	8 11.20	+24 38.9	3.403	2.660	13.0	21.2	36 W	29*	15*
9 8	8 26.58	+24 7.3	3.351	2.697	14.6	21.3	43 W	35*	18*
9 18	8 41.03	+23 35.5	3.286	2.734	16.1	21.3	49 W	41*	20*
9 28	8 54.46	+23 5.0	3.209	2.770	17.4	21.4	56 W	47*	23*
10 8	9 6.77	+22 37.4	3.120	2.804	18.4	21.4	63 W	53*	26*
10 18	9 17.84	+22 14.5	3.021	2.837	19.3	21.3	70 W	59*	29*
10 28	9 27.50	+21 58.2	2.914	2.869	19.8	21.3	78 W	64*	32*
11 7	9 35.57	+21 50.4	2.801	2.900	19.9	21.2	86 W	67*	36*
11 17	9 41.83	+21 52.9	2.685	2.930	19.7	21.2	94 W	67	38*
11 27	9 46.03	+22 7.4	2.569	2.959	18.9	21.1	103 W	67	41*
12 7	9 47.90	+22 35.0	2.457	2.986	17.7	21.0	113 W	68	41*
12 17	9 47.22	+23 15.9	2.355	3.012	15.8	20.8	124 W	68	41
12 27	9 43.83	+24 8.7	2.267	3.038	13.4	20.7	134 W	69	40
1 6	9 37.76	+25 10.1	2.199	3.062	10.4	20.5	146 W	70	39
1 16	9 29.29	+26 15.1	2.155	3.084	7.2	20.3	157 W	71	38
		481542 2007 RF_5							
12 23	23 6.30	+13 29.6	1.192	1.448	42.4	21.2	83 E	58	39*
12 28	23 14.20	+14 53.4	1.250	1.456	41.8	21.3	80 E	60*	35*
1 2	23 22.35	+16 15.1	1.306	1.462	41.1	21.4	78 E	61*	32*
1 7	23 30.75	+17 35.4	1.361	1.466	40.5	21.5	76 E	61*	29*
1 12	23 39.39	+18 54.5	1.413	1.470	39.8	21.6	73 E	61*	26*
		51075 2000 GG_{162}							
12 23	23 6.93	+ 5 30.5	2.816	2.810	20.1	20.5	80 E	51	45*
1 2	23 17.23	+ 5 26.6	2.933	2.787	19.6	20.5	72 E	50*	39*
1 12	23 28.65	+ 5 36.2	3.042	2.763	18.7	20.6	64 E	48*	33*
1 22	23 41.02	+ 5 57.5	3.143	2.738	17.6	20.6	57 E	45*	27*
2 1	23 54.22	+ 6 28.8	3.234	2.712	16.2	20.6	50 E	40*	22*
2 11	0 8.12	+ 7 8.4	3.312	2.685	14.7	20.6	44 E	35*	18*
2 21	0 22.66	+ 7 54.7	3.378	2.657	13.0	20.5	37 E	30*	14*
3 2	0 37.77	+ 8 46.2	3.431	2.629	11.1	20.5	31 E	24*	10*
3 12	0 53.39	+ 9 41.3	3.469	2.599	9.2	20.4	25 E	18*	7*
3 22	1 9.50	+10 38.6	3.492	2.569	7.2	20.3	19 E	12*	4*
4 1	1 26.08	+11 36.9	3.502	2.538	5.1	20.2	13 E	7*	1*
4 11	1 43.11	+12 34.8	3.496	2.506	2.9	20.0	7 E	1*	—
4 21	2 0.58	+13 30.9	3.477	2.473	0.8	19.8	2 E	—	—
5 1	2 18.50	+14 23.9	3.444	2.440	1.5	19.8	4 W	—	—
5 11	2 36.85	+15 12.6	3.398	2.406	3.7	19.9	9 W	—	3*
5 21	2 55.63	+15 55.7	3.340	2.371	5.9	20.0	14 W	—	8*
5 31	3 14.84	+16 31.8	3.270	2.335	8.1	20.0	19 W	2*	13*
6 10	3 34.44	+16 59.6	3.190	2.299	10.3	20.0	24 W	4*	17*
6 20	3 54.44	+17 17.9	3.099	2.263	12.5	20.0	29 W	8*	21*
6 30	4 14.80	+17 25.3	3.000	2.226	14.7	19.9	34 W	12*	25*
7 10	4 35.46	+17 20.3	2.893	2.189	16.8	19.9	38 W	16*	28*
7 20	4 56.38	+17 1.9	2.779	2.151	18.8	19.8	43 W	21*	31*
7 30	5 17.49	+16 28.5	2.660	2.114	20.8	19.8	48 W	26*	34*
8 9	5 38.71	+15 39.1	2.537	2.076	22.7	19.7	52 W	31*	36*
8 19	5 59.97	+14 32.5	2.411	2.038	24.5	19.6	57 W	36*	39*
8 29	6 21.15	+13 7.5	2.283	2.001	26.2	19.5	61 W	40*	41*
9 8	6 42.16	+11 23.5	2.154	1.964	27.8	19.4	66 W	43*	44*
9 18	7 2.90	+ 9 19.6	2.026	1.928	29.3	19.2	70 W	46*	47*
9 28	7 23.24	+ 6 55.5	1.900	1.892	30.6	19.1	74 W	47*	50*
10 8	7 43.08	+ 4 11.2	1.777	1.857	31.8	18.9	78 W	47*	53*
10 18	8 2.30	+ 1 7.0	1.659	1.823	32.8	18.8	83 W	46*	57*
10 28	8 20.72	− 2 16.0	1.545	1.791	33.6	18.6	87 W	43	62*
11 7	8 38.24	− 5 55.9	1.438	1.760	34.3	18.4	91 W	39	67*
11 17	8 54.64	− 9 50.1	1.337	1.731	34.7	18.3	95 W	35	72*
11 22	9 2.35	−11 51.3	1.289	1.717	34.8	18.2	97 W	33	75*
11 27	9 9.70	−13 54.4	1.243	1.704	34.9	18.1	99 W	31	78*
12 2	9 16.65	−15 58.8	1.199	1.691	34.9	18.0	101 W	29	80
12 7	9 23.17	−18 3.6	1.157	1.679	34.9	17.9	103 W	27	82
12 12	9 29.21	−20 8.0	1.117	1.668	34.8	17.8	105 W	25	84
12 17	9 34.71	−22 10.8	1.078	1.657	34.6	17.7	107 W	23	86
12 22	9 39.63	−24 10.8	1.042	1.647	34.4	17.6	109 W	21	88
12 27	9 43.93	−26 6.9	1.007	1.638	34.1	17.5	111 W	19	90
1 1	9 47.57	−27 57.7	0.974	1.630	33.8	17.4	113 W	17	88
1 6	9 50.49	−29 41.7	0.943	1.622	33.4	17.3	115 W	15	86

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		51075 2000 GG_{162}				*(continuation)*			
	h m	° ′			°	m	°	°	°
1 11	9 52.66	−31 17.3	0.913	1.615	32.9	17.2	117 W	14	85
1 16	9 54.04	−32 42.6	0.885	1.609	32.4	17.1	119 W	12	83
		378160 2006 WX_1							
12 23	23 6.97	+15 4.7	0.707	1.147	58.5	21.1	84 E	60	37*
12 28	23 24.32	+16 15.4	0.740	1.158	57.5	21.2	83 E	61	36*
1 2	23 41.21	+17 21.2	0.772	1.168	56.6	21.3	82 E	62*	34*
1 7	23 57.73	+18 22.7	0.805	1.176	55.8	21.4	82 E	63*	33*
1 12	0 13.96	+19 20.3	0.837	1.182	55.2	21.5	81 E	64*	32*
		282347 2003 AZ_{22}							
12 23	23 7.23	+15 49.2	3.016	3.075	18.6	21.4	84 E	61	37*
1 2	23 15.93	+16 2.8	3.156	3.078	18.1	21.5	76 E	60*	31*
1 12	23 25.74	+16 28.5	3.290	3.080	17.4	21.5	69 E	58*	26*
1 22	23 36.50	+17 5.0	3.417	3.081	16.4	21.6	62 E	54*	20*
2 1	23 48.05	+17 51.1	3.535	3.082	15.2	21.6	55 E	49*	15*
		297418 2000 SP_{43}							
12 23	23 8.12	+ 9 12.6	0.765	1.152	57.6	20.3	81 E	54	42*
1 2	23 27.21	+10 41.5	0.815	1.120	58.6	20.4	76 E	55*	37*
1 12	23 46.84	+12 14.4	0.852	1.077	59.9	20.5	71 E	56*	32*
1 22	0 6.96	+13 48.3	0.874	1.024	61.9	20.5	67 E	55*	28*
2 1	0 27.51	+15 19.1	0.877	0.960	64.7	20.4	62 E	52*	24*
2 6	0 37.85	+16 1.3	0.871	0.924	66.6	20.4	59 E	51*	22*
2 11	0 48.12	+16 39.6	0.859	0.885	68.9	20.3	57 E	49*	21*
2 16	0 58.20	+17 12.2	0.842	0.844	71.7	20.3	54 E	47*	19*
2 21	1 7.90	+17 36.6	0.818	0.800	75.3	20.2	52 E	44*	18*
2 26	1 16.92	+17 49.3	0.788	0.754	79.9	20.2	49 E	41*	17*
3 2	1 24.76	+17 45.2	0.752	0.705	85.7	20.1	45 E	38*	15*
3 4	1 27.40	+17 37.1	0.736	0.686	88.4	20.1	44 E	37*	15*
3 6	1 29.68	+17 24.6	0.718	0.666	91.5	20.1	42 E	35*	14*
3 8	1 31.50	+17 6.7	0.701	0.645	94.9	20.2	40 E	34*	14*
3 10	1 32.79	+16 42.6	0.682	0.625	98.8	20.2	38 E	32*	13*
3 12	1 33.44	+16 11.3	0.663	0.605	103.0	20.3	36 E	30*	12*
3 14	1 33.35	+15 31.8	0.644	0.585	107.8	20.4	34 E	27*	11*
3 16	1 32.39	+14 42.8	0.626	0.566	113.2	20.6	32 E	25*	10*
3 18	1 30.44	+13 43.0	0.607	0.546	119.2	20.9	29 E	22*	9*
3 20	1 27.39	+12 31.6	0.590	0.528	125.8	21.3	25 E	19*	8*
		94891 2001 YC_5							
12 23	23 8.38	−19 1.1	1.666	1.629	34.7	18.2	71 E	26	59*
12 28	23 19.27	−16 38.1	1.710	1.637	34.1	18.3	69 E	28*	55*
1 2	23 30.06	−14 16.8	1.756	1.645	33.4	18.3	67 E	31*	52*
1 7	23 40.77	−11 57.6	1.803	1.654	32.7	18.4	65 E	33*	49*
1 12	23 51.39	− 9 40.7	1.852	1.664	31.9	18.4	63 E	34*	46*
1 22	0 12.48	− 5 14.8	1.951	1.687	30.3	18.5	60 E	37*	40*
2 1	0 33.44	− 1 0.4	2.054	1.712	28.5	18.6	56 E	38*	35*
2 11	0 54.37	+ 3 1.2	2.159	1.740	26.7	18.7	52 E	38*	30*
2 21	1 15.36	+ 6 49.6	2.264	1.770	24.7	18.8	48 E	37*	26*
3 2	1 36.50	+10 24.2	2.369	1.803	22.7	18.8	45 E	35*	22*
3 12	1 57.84	+13 44.7	2.473	1.837	20.6	18.9	41 E	32*	18*
3 22	2 19.45	+16 50.7	2.574	1.872	18.5	19.0	37 E	29*	15*
4 1	2 41.36	+19 42.3	2.671	1.909	16.5	19.0	33 E	25*	12*
4 11	3 3.60	+22 19.2	2.763	1.946	14.4	19.1	29 E	22*	10*
4 21	3 26.18	+24 41.2	2.850	1.985	12.3	19.1	25 E	18*	7*
5 1	3 49.10	+26 48.4	2.931	2.024	10.3	19.1	21 E	15*	4*
5 11	4 12.30	+28 40.6	3.004	2.063	8.5	19.1	17 E	11*	1*
5 21	4 35.74	+30 18.0	3.070	2.103	6.8	19.2	14 E	8*	—
5 31	4 59.36	+31 40.8	3.127	2.143	5.4	19.2	11 E	5*	—
6 10	5 23.05	+32 49.4	3.176	2.183	4.7	19.2	10 E	3*	—
6 20	5 46.73	+33 44.3	3.215	2.223	4.8	19.3	10 W	3*	—
6 30	6 10.28	+34 26.2	3.244	2.263	5.6	19.4	13 W	6*	—
7 10	6 33.57	+34 56.2	3.263	2.302	7.0	19.5	16 W	10*	—
7 20	6 56.51	+35 15.3	3.271	2.341	8.5	19.6	20 W	14*	—
7 30	7 18.98	+35 24.9	3.269	2.380	10.1	19.7	24 W	18*	1*
8 9	7 40.87	+35 26.6	3.255	2.418	11.7	19.8	29 W	23*	3*
8 19	8 2.11	+35 21.9	3.231	2.456	13.3	19.9	34 W	28*	5*
8 29	8 22.60	+35 12.7	3.196	2.492	14.8	19.9	39 W	33*	6*
9 8	8 42.27	+35 1.0	3.150	2.529	16.2	20.0	44 W	38*	8*
9 18	9 1.06	+34 48.8	3.093	2.564	17.4	20.0	50 W	44*	10*
9 28	9 18.87	+34 38.5	3.027	2.599	18.6	20.0	56 W	50*	11*
10 8	9 35.62	+34 32.1	2.952	2.633	19.6	20.0	62 W	56*	13*
10 18	9 51.22	+34 32.1	2.869	2.666	20.3	20.0	68 W	62*	15*
10 28	10 5.52	+34 41.0	2.779	2.699	20.8	20.0	75 W	69*	17*
11 7	10 18.37	+35 1.2	2.684	2.730	21.1	20.0	82 W	75*	19*
11 17	10 29.55	+35 34.8	2.587	2.761	21.0	19.9	89 W	80*	21*
11 27	10 38.80	+36 23.9	2.490	2.791	20.5	19.8	97 W	81	23*
12 7	10 45.81	+37 29.4	2.396	2.820	19.7	19.7	105 W	82	25*
12 17	10 50.20	+38 51.1	2.308	2.848	18.5	19.6	114 W	84	25*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		94891 2001 YC_5				*(continuation)*			
	h m	° ′			°	m	°	°	°
12 22	10 51.28	+39 37.5	2.268	2.862	17.7	19.6	118 W	85	24*
12 27	10 51.56	+40 27.0	2.231	2.876	16.9	19.5	122 W	85	24
1 1	10 51.00	+41 18.7	2.198	2.889	16.0	19.5	126 W	86	23
1 6	10 49.57	+42 12.0	2.169	2.902	15.0	19.4	130 W	87	22
1 11	10 47.24	+43 5.7	2.144	2.915	14.0	19.4	134 W	88	21
1 16	10 44.01	+43 58.6	2.125	2.927	13.1	19.3	138 W	89	20
		228267 1999 TC_{200}							
12 23	23 8.72	+ 9 20.1	2.489	2.539	22.5	21.3	82 E	54	42*
1 2	23 20.43	+ 9 13.8	2.592	2.510	22.2	21.3	74 E	54*	37*
1 12	23 33.40	+ 9 22.6	2.689	2.479	21.4	21.4	67 E	52*	31*
1 22	23 47.44	+ 9 44.5	2.779	2.448	20.5	21.4	60 E	49*	27*
2 1	0 2.43	+10 17.6	2.861	2.416	19.2	21.4	54 E	45*	22*
2 11	0 18.27	+10 59.9	2.933	2.383	17.8	21.4	48 E	40*	18*
2 21	0 34.87	+11 49.6	2.994	2.350	16.3	21.3	42 E	35*	15*
3 2	0 52.20	+12 44.8	3.044	2.316	14.5	21.3	36 E	29*	11*
3 12	1 10.21	+13 43.7	3.083	2.281	12.7	21.2	30 E	24*	9*
3 22	1 28.89	+14 44.5	3.109	2.245	10.8	21.1	25 E	19*	6*
4 1	1 48.23	+15 45.6	3.124	2.209	8.8	21.0	20 E	13*	4*
4 11	2 8.24	+16 45.2	3.127	2.173	6.7	20.9	15 E	8*	1*
4 21	2 28.92	+17 41.4	3.119	2.136	4.6	20.7	10 E	4*	—
5 1	2 50.29	+18 32.6	3.100	2.099	2.5	20.5	5 E	—	—
5 11	3 12.33	+19 17.0	3.071	2.061	0.7	20.3	1 E	—	—
5 21	3 35.05	+19 52.8	3.032	2.024	2.0	20.4	4 W	—	—
5 31	3 58.43	+20 18.1	2.985	1.987	4.1	20.4	8 W	—	2*
6 10	4 22.44	+20 31.2	2.930	1.949	6.3	20.5	12 W	—	6*
6 20	4 47.04	+20 30.4	2.869	1.913	8.4	20.5	16 W	2*	9*
6 30	5 12.16	+20 14.1	2.801	1.876	10.6	20.5	20 W	4*	12*
7 10	5 37.72	+19 40.7	2.729	1.841	12.7	20.5	23 W	7*	15*
7 20	6 3.63	+18 49.1	2.652	1.806	14.8	20.4	27 W	11*	18*
7 30	6 29.79	+17 38.3	2.573	1.773	16.8	20.4	30 W	14*	20*
8 9	6 56.10	+16 7.6	2.492	1.741	18.8	20.3	34 W	18*	23*
8 19	7 22.46	+14 16.9	2.411	1.711	20.7	20.3	37 W	21*	25*
8 29	7 48.79	+12 6.3	2.330	1.683	22.6	20.2	40 W	24*	27*
9 8	8 15.01	+ 9 36.8	2.250	1.657	24.3	20.2	43 W	27*	29*
9 18	8 41.09	+ 6 49.6	2.172	1.633	26.0	20.1	45 W	29*	31*
9 28	9 6.99	+ 3 46.7	2.097	1.612	27.6	20.1	48 W	31*	33*
10 8	9 32.69	+ 0 30.6	2.025	1.595	29.1	20.0	51 W	32*	36*
10 18	9 58.21	− 2 56.0	1.956	1.580	30.4	20.0	53 W	33*	38*
10 28	10 23.55	− 6 29.4	1.890	1.569	31.7	19.9	56 W	32*	41*
11 7	10 48.74	−10 5.9	1.828	1.562	32.8	19.9	59 W	31*	44*
11 17	11 13.79	−13 41.7	1.769	1.558	33.8	19.8	61 W	30*	48*
11 22	11 26.26	−15 28.0	1.740	1.558	34.3	19.8	63 W	29*	50*
11 27	11 38.69	−17 12.6	1.711	1.558	34.7	19.8	64 W	27*	52*
12 2	11 51.07	−18 55.1	1.683	1.560	35.1	19.7	66 W	26*	54*
12 7	12 3.40	−20 34.9	1.655	1.562	35.5	19.7	67 W	24*	56*
12 12	12 15.67	−22 11.7	1.627	1.566	35.9	19.7	69 W	23	59*
12 17	12 27.86	−23 45.1	1.599	1.570	36.2	19.7	70 W	21	61*
12 22	12 39.94	−25 14.5	1.571	1.575	36.4	19.6	72 W	20	64*
12 27	12 51.89	−26 39.7	1.542	1.581	36.7	19.6	74 W	18	66*
1 1	13 3.70	−28 0.3	1.514	1.588	36.9	19.6	76 W	17	69*
1 6	13 15.32	−29 16.0	1.485	1.596	37.0	19.6	78 W	16	71*
1 11	13 26.71	−30 26.7	1.456	1.604	37.1	19.5	80 W	15	74*
1 16	13 37.81	−31 31.9	1.426	1.614	37.1	19.5	82 W	13	76*
		363617 2004 KK_{17}							
12 23	23 8.94	−47 55.7	1.321	1.255	44.8	21.1	64 E	—	56*
12 28	23 18.58	−45 29.0	1.296	1.209	46.1	21.0	62 E	—	55*
1 2	23 28.53	−42 52.1	1.268	1.161	47.5	20.9	61 E	2*	54*
1 7	23 38.71	−40 3.6	1.236	1.112	49.2	20.8	59 E	5*	53*
1 12	23 49.06	−37 1.7	1.201	1.063	51.1	20.7	57 E	7*	51*
1 17	23 59.49	−33 44.7	1.163	1.013	53.2	20.6	56 E	10*	49*
1 22	0 9.92	−30 10.2	1.122	0.963	55.7	20.5	54 E	13*	47*
1 27	0 20.26	−26 15.9	1.079	0.914	58.5	20.4	52 E	16*	45*
2 1	0 30.36	−21 58.9	1.033	0.864	61.8	20.3	51 E	19*	43*
2 6	0 40.04	−17 16.4	0.986	0.817	65.5	20.1	49 E	22*	39*
2 11	0 49.05	−12 5.6	0.939	0.771	69.7	20.0	47 E	24*	36*
2 16	0 57.06	− 6 24.1	0.891	0.729	74.4	20.0	45 E	27*	32*
2 21	1 3.64	− 0 10.9	0.845	0.692	79.4	19.9	43 E	30*	27*
2 26	1 8.20	+ 6 32.0	0.802	0.661	84.6	19.9	42 E	32*	21*
3 2	1 10.01	+13 38.0	0.764	0.638	89.5	19.9	40 E	33*	15*
3 4	1 9.78	+16 32.2	0.750	0.632	91.3	19.9	40 E	33*	12*
3 6	1 8.93	+19 27.1	0.738	0.627	92.9	19.9	39 E	33*	9*
3 8	1 7.41	+22 21.3	0.726	0.624	94.3	19.9	39 E	33*	6*
3 10	1 5.16	+25 13.4	0.716	0.623	95.5	20.0	39 E	32*	3*
3 12	1 2.16	+28 2.1	0.707	0.623	96.5	20.0	39 E	32*	—
3 14	0 58.37	+30 45.9	0.699	0.625	97.2	20.0	39 E	31*	—
3 16	0 53.78	+33 23.3	0.692	0.629	97.5	20.0	39 E	30*	—
3 18	0 48.39	+35 53.0	0.687	0.635	97.7	20.0	39 E	29*	—
3 20	0 42.22	+38 14.0	0.682	0.642	97.5	20.0	40 E	28*	—
3 22	0 35.29	+40 25.3	0.678	0.650	97.1	20.0	40 E	26*	—

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
						(continuation)			
	h m	° ′			°	m	°	°	°
363617 2004 KK_{17}									
3 24	0 27.66	+42 26.2	0.675	0.661	96.5	20.0	41 E	25*	—
3 26	0 19.39	+44 16.3	0.673	0.672	95.8	20.0	42 W	24*	—
3 28	0 10.57	+45 55.5	0.671	0.685	94.8	20.0	43 W	26*	—
3 30	0 1.27	+47 23.9	0.669	0.698	93.8	20.0	44 W	29*	—
4 1	23 51.60	+48 41.6	0.668	0.713	92.6	20.0	45 W	32*	—
4 3	23 41.66	+49 49.3	0.667	0.729	91.4	20.0	47 W	34*	—
4 5	23 31.52	+50 47.4	0.665	0.745	90.2	20.0	48 W	37*	—
4 7	23 21.29	+51 36.8	0.664	0.762	88.9	20.0	50 W	39*	—
4 9	23 11.03	+52 18.0	0.663	0.780	87.6	19.9	51 W	41*	—
4 11	23 0.80	+52 52.0	0.661	0.798	86.3	19.9	53 W	44*	—
4 13	22 50.65	+53 19.6	0.659	0.816	84.9	19.9	54 W	46*	—
4 15	22 40.61	+53 41.3	0.656	0.835	83.6	19.9	56 W	48*	—
4 17	22 30.67	+53 58.0	0.654	0.854	82.3	19.9	58 W	50*	1*
4 19	22 20.85	+54 10.1	0.650	0.874	81.0	19.9	59 W	52*	3*
4 21	22 11.13	+54 18.1	0.647	0.893	79.7	19.9	61 W	54*	4*
4 26	21 47.11	+54 22.8	0.636	0.943	76.5	19.9	66 W	59*	7*
5 1	21 23.10	+54 7.6	0.622	0.993	73.2	19.8	71 W	64*	9*
5 6	20 58.63	+53 32.7	0.606	1.043	69.8	19.8	76 W	70*	10*
5 11	20 33.30	+52 35.0	0.589	1.092	66.2	19.7	82 W	76*	11
5 16	20 6.93	+51 9.3	0.571	1.141	62.3	19.6	88 W	81*	13
5 21	19 39.65	+49 8.0	0.554	1.189	58.1	19.5	94 W	86	15
5 23	19 28.59	+48 7.7	0.547	1.208	56.3	19.4	97 W	87	16
5 25	19 17.53	+47 0.0	0.542	1.227	54.4	19.4	100 W	88	17
5 27	19 6.51	+45 44.5	0.536	1.246	52.5	19.4	103 W	89	18
5 29	18 55.60	+44 21.0	0.532	1.264	50.6	19.3	106 W	89	20
5 31	18 44.86	+42 49.5	0.528	1.283	48.6	19.3	108 W	88	21
6 2	18 34.36	+41 10.0	0.525	1.301	46.6	19.2	111 W	86	23
6 4	18 24.16	+39 22.8	0.523	1.319	44.5	19.2	114 W	84	25
6 6	18 14.31	+37 28.4	0.522	1.336	42.5	19.2	117 W	82	27
6 8	18 4.85	+35 27.5	0.522	1.354	40.5	19.1	120 W	80	29
6 10	17 55.81	+33 20.8	0.524	1.372	38.5	19.1	123 W	78	31
6 12	17 47.23	+31 9.3	0.527	1.389	36.6	19.1	125 W	76	33
6 14	17 39.12	+28 54.2	0.532	1.406	34.8	19.1	128 W	74	35
6 16	17 31.50	+26 36.4	0.538	1.423	33.1	19.1	130 E	72	37
6 18	17 24.38	+24 17.2	0.546	1.440	31.6	19.1	132 E	69	40
6 20	17 17.75	+21 57.7	0.555	1.456	30.3	19.1	134 E	67	42
6 22	17 11.61	+19 39.0	0.566	1.473	29.1	19.2	135 E	65	44
6 24	17 5.96	+17 22.1	0.579	1.489	28.2	19.2	136 E	62	47
6 26	17 0.77	+15 7.9	0.593	1.505	27.5	19.3	137 E	60	49
6 28	16 56.03	+12 57.1	0.608	1.521	26.9	19.3	137 E	58	51
6 30	16 51.73	+10 50.2	0.625	1.536	26.6	19.4	137 E	56	53
7 5	16 42.74	+ 5 53.3	0.674	1.575	26.4	19.6	136 E	51	58
7 10	16 36.01	+ 1 27.4	0.730	1.612	27.0	19.9	134 E	46	63
7 15	16 31.24	− 2 27.7	0.793	1.648	27.8	20.1	131 E	43	66
7 20	16 28.17	− 5 54.1	0.862	1.683	28.8	20.4	127 E	39	70
7 25	16 26.56	− 8 55.1	0.936	1.717	29.7	20.6	123 E	36	73
7 30	16 26.24	−11 33.9	1.014	1.750	30.4	20.9	119 E	33*	76
8 4	16 27.00	−13 53.7	1.095	1.781	31.0	21.1	115 E	31*	78
8 9	16 28.71	−15 57.3	1.178	1.812	31.4	21.3	111 E	29*	80
8 14	16 31.25	−17 47.1	1.264	1.842	31.6	21.5	107 E	27*	82
503871 2000 SL									
12 23	23 8.98	− 4 23.1	1.375	1.484	40.0	21.2	76 E	41	52*
12 28	23 23.61	− 4 38.1	1.448	1.512	38.7	21.3	74 E	40	50*
1 2	23 37.57	− 4 45.9	1.523	1.540	37.4	21.5	72 E	40*	49*
1 7	23 50.95	− 4 47.6	1.598	1.567	36.2	21.6	70 E	40*	47*
1 12	0 3.81	− 4 44.0	1.673	1.594	34.9	21.7	68 E	40*	46*
55380 2001 SB_{264}									
12 23	23 9.04	+18 31.3	2.975	3.063	18.7	20.4	86 E	64	35*
1 2	23 18.18	+18 25.4	3.104	3.057	18.3	20.4	78 E	63*	30*
1 12	23 28.49	+18 33.2	3.228	3.049	17.7	20.5	71 E	60*	25*
1 22	23 39.78	+18 53.5	3.346	3.041	16.9	20.5	64 E	56*	20*
2 1	23 51.91	+19 24.7	3.455	3.032	15.8	20.6	57 E	50*	15*
2 11	0 4.76	+20 5.5	3.554	3.022	14.6	20.6	50 E	44*	10*
2 21	0 18.22	+20 54.3	3.642	3.011	13.2	20.6	44 E	38*	6*
3 2	0 32.23	+21 49.8	3.717	2.999	11.7	20.6	38 E	32*	3*
3 12	0 46.72	+22 50.7	3.779	2.987	10.2	20.5	32 E	26*	—
3 22	1 1.64	+23 55.7	3.826	2.973	8.7	20.5	27 E	20*	—
4 1	1 16.96	+25 3.7	3.859	2.958	7.3	20.4	22 E	14*	—
4 11	1 32.64	+26 13.4	3.878	2.943	6.1	20.4	18 E	9*	—
4 21	1 48.66	+27 24.0	3.881	2.926	5.3	20.3	16 W	7*	—
5 1	2 5.01	+28 34.4	3.870	2.909	5.2	20.3	15 W	9*	—
5 11	2 21.65	+29 43.6	3.844	2.890	5.7	20.3	17 W	11*	—
5 21	2 38.57	+30 51.0	3.804	2.871	6.8	20.3	20 W	13*	3*
5 31	2 55.73	+31 55.6	3.750	2.851	8.2	20.3	24 W	16*	7*
6 10	3 13.09	+32 56.8	3.683	2.830	9.8	20.3	28 W	19*	11*
6 20	3 30.60	+33 54.0	3.603	2.808	11.4	20.3	33 W	23*	14*
6 30	3 48.20	+34 46.7	3.511	2.785	13.1	20.3	38 W	28*	17*
7 10	4 5.80	+35 34.4	3.407	2.761	14.7	20.3	44 W	33*	19*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
						(continuation)			
	h m	° ′			°	m	°	°	°
55380 2001 SB_{264}									
7 20	4 23.31	+36 16.9	3.293	2.737	16.3	20.3	49 W	39*	20*
7 30	4 40.61	+36 54.0	3.168	2.711	17.8	20.2	55 W	45*	22*
8 9	4 57.55	+37 25.8	3.036	2.685	19.2	20.1	60 W	51*	23*
8 19	5 13.96	+37 52.5	2.895	2.658	20.4	20.0	66 W	58*	23*
8 29	5 29.63	+38 14.4	2.748	2.630	21.5	19.9	73 W	65*	24*
9 8	5 44.33	+38 32.0	2.596	2.601	22.4	19.8	79 W	71*	24*
9 18	5 57.76	+38 46.0	2.441	2.572	22.9	19.7	86 W	78*	25*
9 28	6 9.56	+38 57.1	2.284	2.541	23.2	19.5	93 W	83*	25*
10 3	6 14.73	+39 1.7	2.205	2.526	23.2	19.4	97 W	84	25*
10 8	6 19.35	+39 5.7	2.127	2.511	23.0	19.3	101 W	84	25*
10 13	6 23.34	+39 9.3	2.050	2.495	22.8	19.2	105 W	84	25
10 18	6 26.64	+39 12.3	1.973	2.479	22.4	19.1	109 W	84	25
10 23	6 29.17	+39 14.7	1.899	2.463	21.8	19.0	113 W	84	25
10 28	6 30.87	+39 16.3	1.826	2.447	21.1	18.9	117 W	84	25
11 2	6 31.67	+39 16.8	1.755	2.430	20.3	18.8	122 W	84	25
11 7	6 31.51	+39 15.9	1.687	2.414	19.2	18.6	127 W	84	25
11 12	6 30.33	+39 13.0	1.623	2.397	18.0	18.5	132 W	84	25
11 17	6 28.07	+39 7.5	1.562	2.380	16.5	18.3	137 W	84	25
11 22	6 24.73	+38 58.5	1.506	2.364	14.9	18.2	142 W	84	25
11 27	6 20.33	+38 45.1	1.455	2.347	13.1	18.0	147 W	84	25
12 2	6 14.96	+38 26.3	1.409	2.329	11.2	17.9	153 W	83	26
12 7	6 8.71	+38 1.2	1.369	2.312	9.2	17.7	158 W	83	26
12 12	6 1.75	+37 29.0	1.336	2.295	7.3	17.6	163 W	82	27
12 17	5 54.31	+36 49.3	1.310	2.277	5.9	17.4	166 W	82	27
12 22	5 46.67	+36 2.0	1.291	2.260	5.6	17.4	167 E	81	28
12 27	5 39.10	+35 7.7	1.279	2.242	6.6	17.4	165 E	80	29
1 1	5 31.88	+34 7.3	1.274	2.225	8.5	17.4	160 E	79	30
1 6	5 25.25	+33 2.1	1.276	2.207	10.8	17.5	155 E	78	31
1 11	5 19.42	+31 53.9	1.284	2.189	13.2	17.6	149 E	77	32
1 16	5 14.55	+30 44.3	1.299	2.171	15.6	17.7	144 E	76	33
2629 Rudra									
12 23	23 9.30	+14 22.0	1.731	1.898	31.0	18.9	84 E	59	38*
1 2	23 25.12	+15 59.7	1.862	1.923	30.1	19.1	78 E	61*	33*
1 12	23 41.86	+17 41.6	1.990	1.946	28.9	19.2	73 E	61*	28*
1 22	23 59.41	+19 26.8	2.115	1.969	27.6	19.3	68 E	59*	23*
2 1	0 17.70	+21 14.6	2.235	1.990	26.2	19.4	63 E	56*	19*
2 11	0 36.67	+23 3.8	2.349	2.009	24.6	19.5	58 E	52*	15*
2 21	0 56.28	+24 53.2	2.457	2.028	23.0	19.6	53 E	47*	12*
3 2	1 16.55	+26 41.6	2.558	2.045	21.4	19.6	49 E	43*	9*
3 12	1 37.46	+28 27.6	2.652	2.061	19.7	19.7	44 E	38*	6*
3 22	1 59.02	+30 9.9	2.738	2.075	18.0	19.7	40 E	34*	4*
4 1	2 21.23	+31 47.0	2.815	2.088	16.3	19.7	36 E	30*	2*
4 11	2 44.09	+33 17.5	2.883	2.099	14.6	19.7	32 E	26*	—
4 21	3 7.59	+34 40.1	2.943	2.109	12.9	19.7	28 E	22*	—
5 1	3 31.70	+35 53.5	2.993	2.118	11.4	19.7	25 E	18*	—
5 11	3 56.36	+36 56.4	3.033	2.125	10.0	19.7	21 E	15*	—
5 21	4 21.51	+37 47.7	3.064	2.131	8.8	19.7	19 E	12*	—
5 31	4 47.04	+38 26.5	3.085	2.135	7.9	19.7	17 E	9*	—
6 10	5 12.82	+38 52.1	3.096	2.138	7.5	19.6	16 W	7*	—
6 20	5 38.73	+39 4.0	3.097	2.139	7.5	19.6	16 W	9*	—
6 30	6 4.61	+39 2.0	3.088	2.139	8.1	19.7	17 W	11*	—
7 10	6 30.29	+38 46.3	3.069	2.137	9.1	19.7	19 W	13*	—
7 20	6 55.66	+38 17.2	3.040	2.134	10.4	19.7	22 W	16*	—
7 30	7 20.56	+37 35.3	3.001	2.129	11.8	19.7	25 W	19*	—
8 9	7 44.88	+36 41.4	2.951	2.123	13.4	19.8	29 W	23*	2*
8 19	8 8.54	+35 36.5	2.892	2.115	15.1	19.8	33 W	27*	4*
8 29	8 31.48	+34 21.8	2.823	2.106	16.8	19.8	37 W	31*	6*
9 8	8 53.62	+32 58.5	2.745	2.096	18.5	19.7	41 W	35*	8*
9 18	9 14.97	+31 27.7	2.658	2.084	20.2	19.7	46 W	40*	10*
9 28	9 35.48	+29 50.8	2.562	2.070	21.9	19.7	50 W	44*	12*
10 8	9 55.13	+28 8.9	2.458	2.055	23.5	19.6	55 W	49*	15*
10 18	10 13.91	+26 23.3	2.346	2.039	25.0	19.6	60 W	53*	17*
10 28	10 31.77	+24 35.2	2.226	2.022	26.5	19.5	65 W	58*	21*
11 7	10 48.66	+22 45.5	2.101	2.003	27.8	19.4	71 W	61*	25*
11 17	11 4.51	+20 55.4	1.971	1.983	29.0	19.2	76 W	64*	29*
11 27	11 19.16	+19 5.7	1.836	1.961	29.9	19.1	82 W	64*	33*
12 7	11 32.46	+17 17.0	1.698	1.939	30.5	18.9	88 W	62	39*
12 17	11 44.15	+15 29.8	1.560	1.915	30.8	18.7	95 W	60	44*
12 27	11 53.85	+13 44.2	1.421	1.890	30.6	18.5	102 W	59	49*
1 6	12 1.11	+11 59.8	1.285	1.864	29.8	18.2	110 W	57	52*
1 16	12 5.27	+10 15.6	1.154	1.837	28.2	17.9	118 W	55	54
207020 2004 VX_{14}									
12 23	23 9.45	− 0 13.1	1.844	1.897	30.5	20.9	78 E	45	49*
1 2	23 28.30	+ 1 41.1	1.975	1.926	29.2	21.1	73 E	47*	43*
1 12	23 47.35	+ 3 37.8	2.106	1.956	27.7	21.2	68 E	47*	38*
1 22	0 6.54	+ 5 35.7	2.235	1.986	26.1	21.3	63 E	47*	33*
2 1	0 25.87	+ 7 33.6	2.362	2.016	24.4	21.4	58 E	45*	28*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
416186 2002 TD_{60}									
12 23	23 9.55	− 8 47.9	0.828	1.103	59.2	21.2	74 E	36	54*
12 28	23 25.63	− 6 16.5	0.839	1.103	59.0	21.3	74 E	39	52*
1 2	23 41.66	− 3 44.1	0.851	1.103	58.7	21.3	74 E	41*	49*
1 7	23 57.69	− 1 11.4	0.863	1.104	58.4	21.3	73 E	44*	47*
1 12	0 13.76	+ 1 20.7	0.876	1.106	58.1	21.3	73 E	46*	44*
1 17	0 29.89	+ 3 51.1	0.889	1.108	57.8	21.4	72 E	48*	42*
1 22	0 46.15	+ 6 19.3	0.903	1.110	57.4	21.4	72 E	50*	40*
1 27	1 2.58	+ 8 44.4	0.917	1.113	57.0	21.4	72 E	52*	38*
2 1	1 19.22	+11 5.5	0.932	1.116	56.6	21.4	71 E	54*	36*
2 6	1 36.09	+13 21.9	0.947	1.120	56.2	21.5	71 E	55*	35*
2 11	1 53.23	+15 32.7	0.963	1.124	55.8	21.5	70 E	56*	33*
87684 2000 SY_2									
12 23	23 9.61	−19 43.8	1.376	1.401	41.5	19.1	71 E	25	59*
1 2	23 29.82	−17 30.2	1.487	1.410	39.6	19.3	66 E	27*	53*
1 12	23 49.56	−15 15.0	1.586	1.409	37.8	19.4	61 E	29*	48*
1 22	0 9.11	−12 58.2	1.672	1.398	36.0	19.4	57 E	29*	43*
2 1	0 28.72	−10 39.7	1.743	1.378	34.4	19.4	52 E	29*	38*
2 11	0 48.59	− 8 19.5	1.797	1.348	32.8	19.4	48 E	28*	34*
2 21	1 8.90	− 5 57.4	1.834	1.307	31.3	19.3	43 E	26*	31*
3 2	1 29.88	− 3 33.0	1.853	1.256	30.1	19.2	39 E	23*	28*
3 12	1 51.76	− 1 5.9	1.851	1.194	29.1	19.1	36 E	20*	25*
3 22	2 14.81	+ 1 24.8	1.827	1.119	28.4	18.9	32 E	17*	22*
4 1	2 39.42	+ 4 0.8	1.781	1.032	28.2	18.7	29 E	14*	20*
4 11	3 6.03	+ 6 44.0	1.711	0.931	28.9	18.4	27 E	12*	18*
4 21	3 35.25	+ 9 38.8	1.612	0.813	30.9	18.0	25 E	9*	17*
4 26	3 51.08	+11 12.6	1.552	0.748	32.7	17.8	24 E	9*	16*
5 1	4 7.82	+12 52.6	1.482	0.679	35.4	17.6	23 E	8*	15*
5 6	4 25.52	+14 41.1	1.401	0.606	39.4	17.3	22 E	8*	14*
5 11	4 44.05	+16 41.9	1.308	0.529	45.5	17.0	22 E	8*	14*
5 16	5 2.88	+19 1.1	1.200	0.452	55.1	16.8	21 E	8*	13*
5 21	5 20.18	+21 48.6	1.073	0.379	70.6	16.6	21 E	9*	11*
5 23	5 25.72	+23 6.2	1.018	0.354	79.1	16.6	20 E	9*	10*
5 25	5 29.71	+24 30.5	0.961	0.333	89.3	16.8	19 E	9*	9*
5 27	5 31.43	+26 0.6	0.903	0.317	101.2	17.1	18 E	9*	7*
5 29	5 30.11	+27 33.8	0.847	0.308	114.2	17.6	16 E	8*	4*
5 31	5 25.15	+29 4.5	0.797	0.307	127.7	18.5	14 E	7*	1*
6 1	5 21.24	+29 46.4	0.774	0.310	134.1	19.1	13 E	6*	—
6 2	5 16.43	+30 24.6	0.753	0.314	140.0	19.8	11 E	5*	—
6 3	5 10.81	+30 58.0	0.735	0.321	145.0	20.5	10 E	4*	—
6 4	5 4.51	+31 25.8	0.719	0.329	148.8	21.2	10 E	3*	—
306659 2000 ST_{216}									
12 23	23 10.15	−11 38.7	1.998	1.961	28.8	20.4	74 E	33	56*
1 2	23 25.41	−10 0.5	2.057	1.910	28.4	20.4	67 E	35*	49*
1 12	23 42.22	− 8 10.6	2.109	1.860	27.8	20.4	62 E	36*	43*
1 22	0 0.43	− 6 10.1	2.153	1.810	27.0	20.4	57 E	35*	38*
2 1	0 19.94	− 4 0.2	2.190	1.762	26.1	20.3	52 E	34*	33*
2 11	0 40.70	− 1 42.4	2.220	1.715	25.1	20.3	47 E	33*	29*
2 21	1 2.67	+ 0 41.5	2.243	1.670	24.0	20.2	43 E	30*	26*
3 2	1 25.90	+ 3 9.8	2.260	1.627	22.9	20.1	40 E	28*	24*
3 12	1 50.38	+ 5 39.9	2.273	1.587	21.8	20.0	36 E	25*	21*
3 22	2 16.16	+ 8 9.3	2.282	1.549	20.7	20.0	33 E	22*	19*
4 1	2 43.30	+10 34.9	2.288	1.516	19.6	19.9	31 E	20*	18*
4 11	3 11.81	+12 53.0	2.294	1.487	18.5	19.8	28 E	17*	16*
4 21	3 41.68	+15 0.1	2.299	1.463	17.5	19.8	26 E	14*	15*
5 1	4 12.86	+16 52.2	2.306	1.444	16.4	19.7	24 E	12*	14*
5 11	4 45.19	+18 25.4	2.315	1.431	15.4	19.6	22 E	9*	13*
5 21	5 18.47	+19 36.3	2.328	1.423	14.3	19.6	20 E	7*	12*
5 31	5 52.41	+20 22.2	2.344	1.422	13.2	19.6	19 E	5*	11*
6 10	6 26.65	+20 41.6	2.365	1.427	12.1	19.6	17 E	3*	10*
6 20	7 0.80	+20 34.0	2.391	1.438	10.9	19.6	16 E	1*	9*
6 30	7 34.51	+20 0.4	2.421	1.454	9.6	19.6	14 E	—	7*
7 10	8 7.44	+19 3.0	2.455	1.477	8.3	19.6	12 E	—	6*
7 20	8 39.36	+17 44.7	2.493	1.504	6.8	19.6	10 E	—	4*
7 30	9 10.11	+16 8.9	2.534	1.535	5.3	19.6	8 E	—	2*
8 9	9 39.60	+14 19.5	2.576	1.571	3.8	19.6	6 E	—	—
8 19	10 7.84	+12 20.0	2.619	1.610	2.2	19.6	3 E	—	—
8 29	10 34.86	+10 13.9	2.661	1.652	0.8	19.6	1 E	—	—
9 8	11 0.73	+ 8 4.2	2.702	1.696	1.7	19.7	3 W	—	—
9 18	11 25.55	+ 5 53.6	2.739	1.743	3.4	19.9	6 W	—	—
9 28	11 49.40	+ 3 44.4	2.772	1.791	5.2	20.1	9 W	3*	—
10 8	12 12.36	+ 1 38.8	2.799	1.840	7.0	20.3	13 W	7*	—
10 18	12 34.52	− 0 21.8	2.820	1.890	8.9	20.4	17 W	11*	3*
10 28	12 55.93	− 2 15.9	2.832	1.940	10.7	20.6	21 W	14*	6*
11 7	13 16.61	− 4 2.1	2.836	1.991	12.5	20.7	26 W	18*	9*
11 17	13 36.60	− 5 39.7	2.830	2.042	14.3	20.8	31 W	22*	13*
11 27	13 55.85	− 7 7.6	2.813	2.093	16.0	20.9	36 W	25*	17*
12 7	14 14.35	− 8 25.3	2.786	2.143	17.6	21.0	41 W	28*	22*
12 17	14 32.02	− 9 32.2	2.748	2.194	19.1	21.1	47 W	30*	28*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
306659 2000 ST_{216} *(continuation)*									
12 27	14 48.75	−10 27.8	2.699	2.244	20.4	21.1	53 W	31*	35*
1 6	15 4.44	−11 12.0	2.640	2.293	21.5	21.2	59 W	32*	42*
1 16	15 18.91	−11 44.7	2.571	2.341	22.5	21.2	65 W	33*	50*
185978 2001 MO_9									
12 23	23 10.17	− 6 8.3	2.010	2.006	28.4	20.3	76 E	39	53*
1 2	23 28.67	− 4 28.5	2.151	2.041	27.0	20.4	70 E	40*	47*
1 12	23 47.19	− 2 44.4	2.291	2.077	25.4	20.6	65 E	41*	41*
1 22	0 5.69	− 0 57.7	2.428	2.112	23.7	20.7	60 E	41*	36*
2 1	0 24.17	+ 0 50.3	2.563	2.148	22.0	20.8	55 E	39*	32*
2 11	0 42.62	+ 2 38.1	2.693	2.184	20.1	20.8	49 E	37*	28*
2 21	1 1.03	+ 4 24.6	2.817	2.219	18.1	20.9	44 E	33*	24*
3 2	1 19.43	+ 6 8.6	2.935	2.254	16.1	21.0	39 E	29*	21*
3 12	1 37.79	+ 7 49.0	3.045	2.289	14.0	21.0	34 E	24*	17*
3 22	1 56.14	+ 9 25.0	3.147	2.324	11.9	21.0	29 E	20*	14*
4 1	2 14.47	+10 55.7	3.239	2.358	9.8	21.1	24 E	15*	11*
4 11	2 32.76	+12 20.5	3.320	2.392	7.7	21.0	19 E	10*	8*
4 21	2 51.00	+13 38.6	3.391	2.425	5.6	21.0	14 E	5*	5*
5 1	3 9.19	+14 49.6	3.449	2.458	3.5	21.0	9 E	—	2*
5 11	3 27.29	+15 53.0	3.496	2.490	1.7	20.9	4 E	—	—
5 21	3 45.26	+16 48.5	3.530	2.521	1.5	20.9	4 W	—	—
5 31	4 3.06	+17 35.8	3.551	2.552	3.2	21.1	8 W	—	2*
6 10	4 20.64	+18 14.9	3.559	2.582	5.2	21.2	13 W	—	7*
6 20	4 37.94	+18 45.6	3.554	2.611	7.1	21.4	19 W	2*	12*
6 30	4 54.90	+19 8.2	3.535	2.639	9.0	21.5	24 W	6*	16*
142563 2002 TR_{69}									
12 23	23 10.80	+10 1.2	1.983	2.093	27.8	21.4	82 E	55	42*
1 2	23 22.08	+11 6.0	2.084	2.069	27.4	21.5	75 E	56*	36*
1 12	23 34.95	+12 22.5	2.177	2.042	26.7	21.5	69 E	55*	30*
1 22	23 49.24	+13 49.4	2.262	2.013	25.8	21.6	63 E	53*	24*
2 1	0 4.81	+15 25.4	2.336	1.983	24.7	21.6	57 E	49*	20*
163760 2003 OR_{14}									
12 23	23 11.25	− 5 49.2	1.129	1.305	47.0	19.2	76 E	39	53*
1 2	23 41.69	− 4 45.5	1.149	1.277	47.5	19.2	73 E	40*	50*
1 12	0 13.89	− 3 20.7	1.169	1.258	47.6	19.2	71 E	41*	47*
1 22	0 47.52	− 1 38.8	1.191	1.248	47.5	19.3	69 E	43*	45*
1 27	1 4.80	− 0 42.7	1.204	1.247	47.3	19.3	69 E	43*	45*
2 1	1 22.33	+ 0 15.8	1.218	1.248	47.1	19.3	68 E	44*	44*
2 6	1 40.07	+ 1 16.0	1.234	1.251	46.7	19.3	68 E	44*	44*
2 11	1 57.99	+ 2 17.2	1.251	1.257	46.3	19.3	67 E	44*	43*
2 16	2 16.03	+ 3 18.6	1.270	1.265	45.9	19.4	67 E	45*	43*
2 21	2 34.18	+ 4 19.4	1.292	1.275	45.3	19.4	66 E	45*	43*
3 2	3 10.61	+ 6 16.4	1.341	1.302	44.0	19.5	66 E	45*	43*
3 12	3 46.94	+ 8 2.2	1.400	1.336	42.5	19.6	65 E	44*	43*
3 22	4 22.85	+ 9 32.3	1.470	1.377	40.8	19.7	65 E	44*	43*
4 1	4 58.04	+10 43.3	1.551	1.424	39.0	19.9	64 E	42*	43*
4 11	5 32.22	+11 33.5	1.642	1.475	37.0	20.0	62 E	40*	43*
4 21	6 5.19	+12 2.4	1.743	1.530	35.0	20.2	61 E	37*	43*
5 1	6 36.80	+12 10.8	1.852	1.588	32.9	20.3	59 E	34*	43*
5 11	7 6.95	+12 0.3	1.968	1.648	30.8	20.5	57 E	30*	42*
5 21	7 35.62	+11 32.9	2.090	1.710	28.7	20.6	54 E	25*	42*
5 31	8 2.85	+10 50.9	2.217	1.772	26.6	20.8	51 E	21*	41*
6 10	8 28.69	+ 9 56.6	2.346	1.835	24.4	20.9	48 E	16*	39*
6 20	8 53.22	+ 8 52.1	2.476	1.898	22.2	21.0	45 E	12*	37*
6 30	9 16.55	+ 7 39.2	2.606	1.962	20.0	21.1	41 E	8*	35*
7 10	9 38.78	+ 6 19.8	2.733	2.024	17.8	21.2	38 E	5*	31*
7 20	10 0.02	+ 4 55.3	2.857	2.087	15.6	21.3	34 E	2*	28*
7 30	10 20.38	+ 3 27.1	2.976	2.148	13.4	21.4	29 E	—	23*
8 9	10 39.94	+ 1 56.5	3.087	2.209	11.1	21.5	25 E	—	19*
390636 2002 JV_8									
12 23	23 11.78	−19 44.9	2.407	2.286	24.0	21.2	71 E	25	60*
1 2	23 27.89	−18 38.1	2.563	2.329	22.5	21.4	65 E	26*	53*
1 12	23 44.15	−17 24.3	2.714	2.371	20.9	21.5	59 E	27*	47*
1 22	0 0.49	−16 5.5	2.858	2.413	19.2	21.6	54 E	26*	42*
2 1	0 16.88	−14 43.7	2.994	2.454	17.5	21.6	48 E	24*	37*
9551 Kazi									
12 23	23 12.55	− 3 59.6	1.412	1.528	38.8	19.0	77 E	41	52*
1 2	23 36.52	− 0 25.7	1.481	1.531	38.1	19.1	74 E	45*	46*
1 12	0 1.18	+ 3 8.2	1.555	1.539	37.1	19.2	71 E	47*	41*
1 22	0 26.44	+ 6 38.6	1.632	1.552	35.9	19.3	68 E	50*	36*
2 1	0 52.27	+10 2.4	1.714	1.570	34.6	19.4	65 E	50*	32*
2 11	1 18.63	+13 16.5	1.801	1.593	33.1	19.5	62 E	50*	29*
2 21	1 45.48	+16 17.8	1.892	1.620	31.5	19.6	59 E	49*	26*
3 2	2 12.79	+19 4.0	1.986	1.651	29.8	19.7	56 E	47*	24*
3 12	2 40.50	+21 33.0	2.084	1.685	28.1	19.8	53 E	45*	22*
3 22	3 8.51	+23 43.0	2.185	1.722	26.3	19.9	50 E	42*	20*

9551 Kazi *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 1	3 36.73	+25 33.0	2.288	1.762	24.4	20.0	47 E	39*	19*
4 11	4 5.01	+27 2.4	2.393	1.804	22.5	20.1	44 E	36*	18*
4 21	4 33.19	+28 11.0	2.498	1.847	20.6	20.1	40 E	32*	17*
5 1	5 1.14	+28 59.2	2.602	1.893	18.6	20.2	37 E	28*	15*
5 11	5 28.65	+29 27.9	2.704	1.939	16.6	20.3	33 E	24*	14*
5 21	5 55.60	+29 38.1	2.804	1.987	14.5	20.3	30 E	20*	13*
5 31	6 21.84	+29 31.3	2.900	2.035	12.5	20.4	26 E	16*	11*
6 10	6 47.26	+29 9.2	2.991	2.083	10.5	20.4	22 E	12*	9*
6 20	7 11.79	+28 33.5	3.076	2.132	8.5	20.5	18 E	9*	6*
6 30	7 35.39	+27 45.9	3.153	2.181	6.5	20.5	14 E	6*	3*
7 10	7 58.01	+26 48.2	3.223	2.230	4.6	20.5	10 E	3*	—
7 20	8 19.67	+25 42.2	3.284	2.279	3.1	20.5	7 E	1*	—
7 30	8 40.38	+24 29.4	3.335	2.327	2.6	20.5	6 E	—	—
8 9	9 0.15	+23 11.4	3.374	2.376	3.5	20.7	8 W	2*	—
8 19	9 19.01	+21 49.5	3.403	2.423	5.1	20.8	12 W	6*	—
8 29	9 36.99	+20 25.3	3.419	2.470	6.9	20.9	17 W	11*	1*
9 8	9 54.10	+18 59.8	3.422	2.517	8.7	21.1	22 W	16*	4*
9 18	10 10.37	+17 34.5	3.411	2.563	10.4	21.2	28 W	21*	7*
9 28	10 25.78	+16 10.4	3.388	2.608	12.2	21.3	33 W	27*	10*
10 8	10 40.33	+14 48.8	3.350	2.653	13.8	21.3	39 W	32*	14*
10 18	10 53.98	+13 30.7	3.300	2.697	15.3	21.4	45 W	38*	18*
10 28	11 6.67	+12 17.5	3.236	2.740	16.6	21.4	52 W	43*	22*
11 7	11 18.33	+11 10.3	3.161	2.782	17.8	21.4	59 W	48*	27*
11 17	11 28.87	+10 10.5	3.074	2.823	18.7	21.4	66 W	52*	32*
11 27	11 38.12	+ 9 19.3	2.978	2.863	19.3	21.4	74 W	54*	38*
12 7	11 45.94	+ 8 38.0	2.875	2.903	19.6	21.4	82 W	54	44*
12 17	11 52.13	+ 8 7.9	2.768	2.942	19.5	21.3	90 W	53	49*
12 27	11 56.46	+ 7 50.3	2.658	2.979	19.0	21.3	99 W	53	54*
1 6	11 58.73	+ 7 46.0	2.552	3.016	18.0	21.2	109 W	53	56*
1 16	11 58.74	+ 7 55.5	2.452	3.052	16.4	21.1	119 W	53	56

426255 2012 QU_2

12 23	23 13.64	− 9 7.6	1.634	1.679	34.5	20.1	75 E	36	55*
1 2	23 32.65	− 4 43.7	1.749	1.706	33.0	20.3	71 E	40*	48*
1 12	23 51.74	− 0 34.2	1.866	1.735	31.4	20.4	67 E	43*	41*
1 22	0 10.95	+ 3 21.6	1.986	1.767	29.7	20.5	63 E	45*	35*
2 1	0 30.34	+ 7 4.3	2.106	1.800	27.8	20.6	59 E	45*	30*
2 11	0 49.97	+10 34.5	2.226	1.834	25.9	20.7	54 E	44*	25*
2 21	1 9.88	+13 52.6	2.343	1.870	23.9	20.8	50 E	42*	21*
3 2	1 30.12	+16 58.8	2.458	1.907	21.9	20.9	46 E	39*	17*
3 12	1 50.72	+19 53.3	2.569	1.945	19.9	21.0	42 E	35*	14*
3 22	2 11.72	+22 35.8	2.676	1.983	17.9	21.1	38 E	31*	11*
4 1	2 33.15	+25 6.5	2.776	2.022	15.9	21.1	34 E	27*	8*
4 11	2 55.01	+27 25.0	2.870	2.061	14.0	21.2	30 E	24*	5*
4 21	3 17.31	+29 31.1	2.957	2.100	12.1	21.2	26 E	20*	3*
5 1	3 40.02	+31 24.5	3.037	2.139	10.3	21.2	22 E	16*	—
5 11	4 3.09	+33 5.0	3.108	2.178	8.7	21.2	19 E	13*	—
5 21	4 26.47	+34 32.6	3.170	2.217	7.4	21.3	16 E	10*	—
5 31	4 50.09	+35 47.1	3.223	2.255	6.4	21.3	14 E	7*	—
6 10	5 13.84	+36 48.9	3.266	2.293	6.1	21.3	14 E	5*	—
6 20	5 37.61	+37 38.2	3.299	2.331	6.3	21.4	15 W	8*	—

67522 2000 RB_{79}

12 23	23 13.82	− 8 8.2	1.983	1.983	28.7	20.6	76 E	37	55*
1 2	23 31.92	− 6 11.5	2.127	2.021	27.3	20.8	70 E	39*	49*
1 12	23 50.00	− 4 12.9	2.269	2.058	25.7	20.9	65 E	40*	43*
1 22	0 8.06	− 2 13.4	2.409	2.096	24.0	21.0	60 E	40*	37*
2 1	0 26.10	− 0 14.3	2.545	2.132	22.1	21.1	55 E	38*	33*
2 11	0 44.10	+ 1 43.5	2.677	2.169	20.2	21.2	49 E	36*	28*
2 21	1 2.09	+ 3 38.8	2.802	2.204	18.2	21.3	44 E	33*	25*
3 2	1 20.08	+ 5 30.9	2.920	2.239	16.2	21.4	39 E	29*	21*
3 12	1 38.07	+ 7 18.8	3.030	2.274	14.1	21.4	34 E	24*	18*
3 22	1 56.06	+ 9 1.9	3.131	2.307	12.0	21.4	29 E	19*	15*
4 1	2 14.06	+10 39.4	3.221	2.340	9.8	21.4	24 E	14*	11*
4 11	2 32.05	+12 10.8	3.301	2.372	7.7	21.4	18 E	9*	8*
4 21	2 50.04	+13 35.4	3.370	2.403	5.5	21.4	13 E	4*	5*
5 1	3 8.01	+14 52.9	3.426	2.433	3.4	21.3	8 E	—	2*
5 11	3 25.93	+16 2.8	3.469	2.462	1.5	21.3	4 E	—	—
5 21	3 43.77	+17 4.9	3.500	2.490	1.5	21.3	4 W	—	—
5 31	4 1.49	+17 59.0	3.517	2.517	3.3	21.5	8 W	—	2*

80593 2000 AG_{144}

12 23	23 13.88	+31 8.7	1.198	1.580	38.5	16.8	92 E	76	25*
12 28	23 27.33	+31 43.5	1.235	1.590	38.2	16.9	91 E	77	24*
1 2	23 41.26	+32 18.1	1.273	1.600	37.9	17.0	89 E	77*	22*
1 7	23 55.61	+32 52.2	1.312	1.611	37.6	17.0	88 E	78*	21*
1 12	0 10.33	+33 25.3	1.353	1.623	37.2	17.1	86 E	77*	20*
1 17	0 25.37	+33 57.1	1.395	1.636	36.8	17.2	85 E	77*	19*
1 22	0 40.70	+34 27.2	1.438	1.649	36.4	17.3	84 E	76*	18*
1 27	0 56.26	+34 55.2	1.483	1.663	35.9	17.3	82 E	75*	18*
2 1	1 12.02	+35 20.9	1.530	1.677	35.4	17.4	80 E	74*	17*
2 6	1 27.91	+35 44.0	1.578	1.692	34.9	17.5	79 E	73*	17*

80593 2000 AG_{144} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 11	1 43.89	+36 4.3	1.628	1.708	34.3	17.5	77 E	71*	16*
2 16	1 59.92	+36 21.3	1.679	1.724	33.7	17.6	76 E	70*	16*
2 21	2 15.97	+36 35.1	1.731	1.741	33.1	17.7	74 E	68*	16*
2 26	2 31.98	+36 45.5	1.785	1.758	32.4	17.8	72 E	66*	16*
3 2	2 47.94	+36 52.5	1.840	1.775	31.8	17.8	71 E	64*	16*
3 7	3 3.78	+36 56.0	1.896	1.793	31.0	17.9	69 E	63*	16*
3 12	3 19.49	+36 55.9	1.954	1.811	30.3	18.0	67 E	61*	16*
3 17	3 35.03	+36 52.3	2.012	1.829	29.5	18.0	65 E	59*	17*
3 22	3 50.39	+36 45.1	2.071	1.848	28.7	18.1	63 E	57*	17*
3 27	4 5.54	+36 34.6	2.130	1.866	27.9	18.1	61 E	55*	17*
4 1	4 20.46	+36 20.8	2.191	1.885	27.1	18.2	59 E	53*	17*
4 6	4 35.13	+36 3.8	2.251	1.905	26.2	18.3	57 E	51*	17*
4 11	4 49.53	+35 43.6	2.312	1.924	25.3	18.3	55 E	48*	18*
4 21	5 17.53	+34 54.4	2.433	1.963	23.5	18.4	51 E	44*	18*
5 1	5 44.41	+33 54.2	2.552	2.002	21.5	18.5	47 E	38*	18*
5 11	6 10.14	+32 44.2	2.669	2.042	19.5	18.6	43 E	33*	18*
5 21	6 34.73	+31 25.3	2.782	2.081	17.5	18.6	38 E	28*	18*
5 31	6 58.23	+29 58.6	2.889	2.121	15.4	18.7	34 E	22*	17*
6 10	7 20.66	+28 25.0	2.990	2.160	13.2	18.7	29 E	17*	15*
6 20	7 42.09	+26 45.4	3.083	2.198	11.0	18.7	24 E	12*	13*
6 30	8 2.58	+25 0.5	3.167	2.237	8.8	18.7	20 E	8*	10*
7 10	8 22.16	+23 11.1	3.242	2.274	6.6	18.7	15 E	4*	7*
7 20	8 40.92	+21 17.8	3.306	2.312	4.4	18.7	10 E	1*	3*
7 30	8 58.89	+19 21.2	3.358	2.348	2.2	18.6	5 E	—	—
8 9	9 16.11	+17 21.9	3.397	2.384	0.6	18.6	2 W	—	—
8 19	9 32.64	+15 20.3	3.424	2.419	2.4	18.8	6 W	—	—
8 29	9 48.50	+13 16.9	3.437	2.454	4.5	18.9	11 W	4*	2*
9 8	10 3.70	+11 12.3	3.436	2.487	6.6	19.1	17 W	9*	5*
9 18	10 18.25	+ 9 6.6	3.421	2.520	8.7	19.2	22 W	14*	10*
9 28	10 32.15	+ 7 0.5	3.392	2.551	10.6	19.3	28 W	19*	14*
10 8	10 45.37	+ 4 54.2	3.349	2.582	12.5	19.3	34 W	24*	18*
10 18	10 57.88	+ 2 48.1	3.291	2.612	14.3	19.4	40 W	29*	23*
10 28	11 9.61	+ 0 42.7	3.221	2.641	15.9	19.4	47 W	33*	28*
11 7	11 20.48	− 1 21.6	3.138	2.669	17.4	19.4	53 W	37*	33*
11 17	11 30.37	− 3 24.5	3.043	2.696	18.6	19.4	60 W	39*	40*
11 27	11 39.12	− 5 25.4	2.939	2.722	19.6	19.4	68 W	39*	47*
12 7	11 46.57	− 7 23.6	2.826	2.747	20.3	19.4	75 W	38	54*
12 17	11 52.49	− 9 18.6	2.708	2.771	20.7	19.3	83 W	36	63*
12 27	11 56.61	−11 9.0	2.587	2.794	20.6	19.2	92 W	34	71*
1 6	11 58.66	−12 53.4	2.467	2.816	20.1	19.1	100 W	32	77*
1 16	11 58.34	−14 29.8	2.350	2.837	19.1	19.0	110 W	31	78

147431 2003 JA

12 23	23 15.03	−15 16.4	1.661	1.671	34.3	21.4	73 E	30	59*
1 2	23 34.61	−12 23.6	1.740	1.660	33.5	21.5	69 E	33*	52*
1 12	23 54.84	− 9 25.7	1.816	1.649	32.5	21.6	64 E	35*	46*
1 22	0 15.64	− 6 24.2	1.889	1.639	31.4	21.6	60 E	36*	41*
2 1	0 37.02	− 3 20.7	1.958	1.630	30.1	21.6	56 E	37*	37*

231700 1998 SU_{12}

12 23	23 15.27	−19 43.9	1.690	1.671	34.0	20.1	72 E	25	60*
12 28	23 26.46	−18 54.6	1.724	1.662	33.7	20.1	70 E	26	58*
1 2	23 37.85	−18 1.1	1.756	1.655	33.3	20.1	68 E	27*	55*
1 7	23 49.43	−17 3.7	1.788	1.648	32.9	20.1	66 E	28*	53*
1 12	0 1.18	−16 2.7	1.819	1.642	32.5	20.1	64 E	28*	51*
1 22	0 25.10	−13 51.4	1.880	1.632	31.5	20.2	60 E	30*	47*
2 1	0 49.53	−11 29.9	1.939	1.626	30.5	20.2	57 E	30*	43*
2 11	1 14.38	− 9 1.3	1.997	1.622	29.4	20.2	54 E	30*	40*
2 21	1 39.62	− 6 28.6	2.053	1.623	28.2	20.3	51 E	29*	38*
3 2	2 5.22	− 3 54.9	2.110	1.626	27.0	20.3	48 E	28*	36*
3 12	2 31.14	− 1 23.6	2.168	1.633	25.7	20.3	46 E	26*	34*
3 22	2 57.35	+ 1 2.4	2.227	1.643	24.4	20.4	43 E	24*	32*
4 1	3 23.82	+ 3 20.1	2.287	1.657	23.0	20.4	40 E	21*	30*
4 11	3 50.49	+ 5 26.8	2.349	1.673	21.5	20.4	38 E	18*	28*
4 21	4 17.30	+ 7 20.4	2.412	1.692	20.0	20.5	35 E	15*	27*
5 1	4 44.16	+ 8 59.1	2.476	1.714	18.4	20.5	32 E	12*	25*
5 11	5 10.97	+10 21.5	2.541	1.737	16.7	20.5	30 E	8*	23*
5 21	5 37.62	+11 27.2	2.606	1.763	15.0	20.5	27 E	4*	20*
5 31	6 4.02	+12 15.8	2.671	1.791	13.3	20.6	24 E	1*	18*
6 10	6 30.04	+12 47.5	2.734	1.821	11.4	20.6	21 E	—	15*
6 20	6 55.59	+13 3.2	2.794	1.852	9.6	20.6	18 E	—	12*
6 30	7 20.59	+13 3.9	2.851	1.884	7.8	20.6	15 E	—	8*
7 10	7 44.96	+12 50.8	2.903	1.917	6.0	20.6	11 E	—	4*
7 20	8 8.67	+12 25.5	2.950	1.951	4.5	20.6	9 E	—	—
7 30	8 31.69	+11 49.4	2.990	1.986	3.5	20.6	7 W	—	—
8 9	8 53.98	+11 4.3	3.023	2.021	3.6	20.7	7 W	—	1*
8 19	9 15.57	+10 11.8	3.047	2.056	4.8	20.8	10 W	—	4*
8 29	9 36.44	+ 9 13.4	3.061	2.092	6.4	20.9	13 W	3*	6*
9 8	9 56.61	+ 8 10.9	3.066	2.127	8.2	21.0	18 W	8*	8*
9 18	10 16.09	+ 7 5.8	3.060	2.163	10.1	21.2	22 W	13*	11*
9 28	10 34.90	+ 5 59.7	3.043	2.199	12.0	21.3	27 W	18*	14*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
231700 1998 SU_{12} *(continuation)*									
	h m	° ′			°	m	°	°	°
10 8	10 53.02	+ 4 54.2	3.014	2.234	13.8	21.3	32 W	23*	16*
10 18	11 10.46	+ 3 50.8	2.974	2.269	15.6	21.4	38 W	28*	19*
10 28	11 27.18	+ 2 51.1	2.921	2.303	17.2	21.4	43 W	33*	23*
11 7	11 43.15	+ 1 56.9	2.858	2.337	18.8	21.5	49 W	37*	27*
225586 2000 WS_{67}									
12 23	23 15.59	−20 24.4	0.918	1.116	56.9	20.5	72 E	25	61*
12 28	23 39.06	−16 28.6	0.984	1.175	53.3	20.7	73 E	29	60*
1 2	23 59.30	−12 52.5	1.057	1.232	50.2	20.8	74 E	32	58*
1 7	0 17.04	− 9 36.6	1.135	1.287	47.4	21.0	74 E	35	55*
1 12	0 32.87	− 6 39.8	1.218	1.340	44.9	21.2	74 E	38*	53*
1 17	0 47.23	− 4 0.0	1.303	1.391	42.7	21.3	73 E	41*	50*
85713 1998 SS_{49}									
12 23	23 16.32	− 9 34.6	1.825	1.847	31.1	19.6	76 E	35	56*
1 2	23 26.20	− 7 38.0	1.867	1.763	31.3	19.5	69 E	37*	48*
1 12	23 38.27	− 5 29.0	1.896	1.675	31.2	19.4	62 E	38*	41*
1 22	23 52.36	− 3 7.6	1.911	1.585	30.9	19.3	56 E	38*	35*
2 1	0 8.43	− 0 33.4	1.910	1.490	30.6	19.2	50 E	36*	29*
2 11	0 26.49	+ 2 13.8	1.893	1.393	30.4	19.0	46 E	34*	24*
2 21	0 46.71	+ 5 14.4	1.860	1.293	30.3	18.8	41 E	31*	20*
3 2	1 9.37	+ 8 28.7	1.811	1.191	30.5	18.6	38 E	29*	17*
3 12	1 34.90	+11 56.0	1.745	1.088	31.4	18.3	35 E	27*	15*
3 22	2 3.96	+15 34.8	1.663	0.986	33.2	18.1	33 E	25*	13*
3 27	2 20.09	+17 27.1	1.617	0.937	34.5	17.9	32 E	25*	12*
4 1	2 37.45	+19 20.2	1.567	0.889	36.3	17.8	32 E	24*	12*
4 6	2 56.19	+21 12.7	1.513	0.844	38.5	17.7	32 E	24*	12*
4 11	3 16.46	+23 2.5	1.456	0.803	41.2	17.6	32 E	25*	12*
4 16	3 38.41	+24 47.1	1.396	0.767	44.4	17.5	32 E	25*	12*
4 21	4 2.16	+26 23.1	1.333	0.736	48.2	17.4	33 E	25*	12*
4 26	4 27.80	+27 46.3	1.269	0.713	52.3	17.3	34 E	26*	13*
5 1	4 55.33	+28 52.1	1.203	0.699	56.8	17.3	35 E	27*	15*
5 6	5 24.68	+29 35.1	1.138	0.694	61.3	17.3	37 E	28*	16*
5 11	5 55.66	+29 50.1	1.075	0.699	65.5	17.3	39 E	29*	18*
5 16	6 28.04	+29 32.3	1.016	0.713	69.1	17.3	41 E	30*	21*
5 21	7 1.47	+28 37.9	0.961	0.736	71.8	17.4	44 E	30*	24*
5 26	7 35.52	+27 4.3	0.914	0.767	73.5	17.4	47 E	31*	27*
5 31	8 9.72	+24 51.1	0.876	0.803	74.2	17.4	50 E	31*	31*
6 5	8 43.56	+22 0.5	0.847	0.844	73.7	17.4	53 E	31*	35*
6 10	9 16.57	+18 38.0	0.829	0.889	72.3	17.5	57 E	31*	39*
6 15	9 48.35	+14 51.6	0.823	0.937	70.2	17.5	60 E	30*	44*
6 20	10 18.61	+10 51.5	0.828	0.986	67.5	17.5	64 E	28*	49*
6 25	10 47.17	+ 6 48.0	0.844	1.037	64.5	17.6	67 E	27*	53*
6 30	11 13.95	+ 2 50.1	0.871	1.088	61.4	17.7	70 E	25*	57*
7 5	11 38.96	− 0 55.1	0.907	1.140	58.3	17.8	72 E	23*	61*
7 10	12 2.31	− 4 23.5	0.952	1.191	55.3	17.9	74 E	21*	64*
7 15	12 24.11	− 7 32.9	1.004	1.242	52.5	18.0	76 E	20*	67*
7 20	12 44.53	−10 23.1	1.063	1.293	49.9	18.1	77 E	18*	69*
7 25	13 3.72	−12 55.0	1.127	1.344	47.6	18.3	77 E	17*	70*
7 30	13 21.82	−15 9.9	1.196	1.393	45.4	18.4	78 E	16*	71*
8 4	13 38.95	−17 9.5	1.269	1.442	43.4	18.6	77 E	14*	71*
8 9	13 55.24	−18 55.4	1.346	1.491	41.5	18.7	77 E	14*	71*
8 14	14 10.81	−20 29.3	1.425	1.538	39.8	18.9	76 E	13*	70*
8 19	14 25.75	−21 52.7	1.506	1.585	38.1	19.0	75 E	12*	69*
8 24	14 40.15	−23 6.7	1.590	1.630	36.6	19.2	74 E	11*	68*
8 29	14 54.07	−24 12.6	1.675	1.675	35.1	19.3	72 E	11*	66*
9 3	15 7.58	−25 11.1	1.761	1.720	33.7	19.4	71 E	10*	65*
9 8	15 20.72	−26 3.0	1.848	1.763	32.3	19.5	69 E	10*	63*
9 13	15 33.54	−26 49.2	1.936	1.805	31.0	19.6	67 E	9*	61*
9 18	15 46.08	−27 30.0	2.024	1.847	29.6	19.8	65 E	9*	59*
9 23	15 58.38	−28 6.0	2.112	1.888	28.4	19.9	63 E	9*	57*
9 28	16 10.45	−28 37.6	2.199	1.928	27.1	20.0	61 E	8*	55*
10 3	16 22.32	−29 5.2	2.286	1.967	25.8	20.0	59 E	8*	53*
10 8	16 34.00	−29 28.9	2.372	2.005	24.6	20.1	57 E	8*	50*
10 18	16 56.87	−30 5.9	2.542	2.080	22.1	20.3	52 E	7*	46*
10 28	17 19.15	−30 30.5	2.705	2.151	19.7	20.4	47 E	7*	41*
11 7	17 40.87	−30 43.7	2.860	2.219	17.3	20.5	42 E	6*	36*
11 17	18 2.07	−30 46.8	3.005	2.284	14.8	20.6	36 E	5*	30*
11 27	18 22.74	−30 40.6	3.139	2.347	12.4	20.7	31 E	4*	25*
12 7	18 42.88	−30 26.1	3.260	2.406	10.1	20.7	25 E	3*	19*
12 17	19 2.47	−30 4.2	3.367	2.463	7.8	20.7	20 E	1*	14*
12 27	19 21.50	−29 35.8	3.458	2.518	5.6	20.7	14 E	—	8*
1 6	19 39.92	−29 1.7	3.533	2.570	3.7	20.7	10 E	—	4*
1 16	19 57.74	−28 22.9	3.591	2.619	2.8	20.8	8 E	—	—
267523 2002 OA_{16}									
12 23	23 16.81	− 8 40.0	1.613	1.676	34.7	20.7	76 E	36	56*
1 2	23 40.29	− 6 21.4	1.719	1.700	33.4	20.8	72 E	39*	50*
1 12	0 3.55	− 3 58.9	1.828	1.727	32.0	21.0	68 E	41*	45*
1 22	0 26.58	− 1 35.0	1.939	1.755	30.4	21.1	64 E	42*	41*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
267523 2002 OA_{16} *(continuation)*									
	h m	° ′			°	m	°	°	°
2 1	0 49.43	+ 0 48.0	2.052	1.785	28.7	21.2	60 E	42*	37*
2 11	1 12.11	+ 3 8.0	2.164	1.817	26.9	21.3	56 E	41*	34*
2 21	1 34.66	+ 5 23.1	2.277	1.849	25.1	21.4	52 E	39*	31*
3 2	1 57.11	+ 7 31.7	2.388	1.883	23.2	21.5	48 E	36*	28*
483795 2005 VJ_{82}									
12 23	23 16.90	+10 7.4	1.478	1.685	35.5	20.8	84 E	55	43*
1 2	23 33.37	+12 51.6	1.553	1.668	35.3	20.9	79 E	58*	36*
1 12	23 51.79	+15 39.6	1.625	1.654	34.9	21.0	74 E	59*	31*
1 22	0 12.04	+18 30.0	1.695	1.643	34.2	21.0	70 E	59*	26*
2 1	0 34.08	+21 20.8	1.762	1.635	33.4	21.1	66 E	58*	21*
2 11	0 57.86	+24 9.4	1.828	1.631	32.5	21.1	63 E	56*	18*
2 21	1 23.40	+26 52.5	1.892	1.630	31.5	21.2	59 E	53*	15*
3 2	1 50.72	+29 26.5	1.955	1.632	30.4	21.2	56 E	50*	13*
3 12	2 19.78	+31 47.5	2.018	1.637	29.2	21.3	54 E	48*	12*
3 22	2 50.49	+33 51.2	2.082	1.646	28.0	21.3	51 E	45*	10*
4 1	3 22.69	+35 33.6	2.146	1.658	26.7	21.4	48 E	42*	10*
4 11	3 56.07	+36 51.3	2.212	1.673	25.4	21.4	46 E	40*	10*
4 21	4 30.24	+37 41.5	2.279	1.690	24.0	21.5	43 E	37*	10*
5 1	5 4.72	+38 2.9	2.348	1.711	22.5	21.5	40 E	34*	10*
437975 2003 RW_{7}									
12 23	23 17.61	− 4 5.3	1.742	1.816	32.0	20.3	78 E	41	53*
12 28	23 29.15	− 3 58.9	1.816	1.839	31.2	20.4	76 E	41	51*
1 2	23 40.50	− 3 48.0	1.890	1.862	30.4	20.4	73 E	41*	49*
1 7	23 51.65	− 3 33.2	1.964	1.886	29.5	20.5	71 E	41*	47*
1 12	0 2.63	− 3 14.9	2.039	1.910	28.6	20.6	68 E	41*	45*
1 17	0 13.43	− 2 53.8	2.114	1.934	27.7	20.7	66 E	41*	43*
1 22	0 24.08	− 2 30.2	2.189	1.959	26.7	20.8	63 E	41*	41*
1 27	0 34.59	− 2 4.6	2.263	1.983	25.7	20.8	61 E	40*	39*
2 1	0 44.97	− 1 37.4	2.337	2.008	24.8	20.9	59 E	39*	37*
2 6	0 55.22	− 1 8.9	2.410	2.033	23.7	21.0	56 E	38*	36*
2 11	1 5.36	− 0 39.6	2.482	2.058	22.7	21.0	54 E	36*	34*
2 16	1 15.39	− 0 9.6	2.553	2.083	21.7	21.1	51 E	35*	33*
2 21	1 25.33	+ 0 20.8	2.623	2.107	20.7	21.1	49 E	33*	31*
2 26	1 35.18	+ 0 51.2	2.691	2.132	19.6	21.2	46 E	31*	30*
3 2	1 44.95	+ 1 21.5	2.758	2.157	18.6	21.2	44 E	29*	29*
3 7	1 54.65	+ 1 51.4	2.823	2.182	17.6	21.3	42 E	27*	27*
3 12	2 4.27	+ 2 20.7	2.886	2.207	16.5	21.3	39 E	25*	26*
3 17	2 13.82	+ 2 49.3	2.947	2.231	15.5	21.3	37 E	22*	25*
3 22	2 23.31	+ 3 16.9	3.006	2.256	14.5	21.4	34 E	20*	23*
3 27	2 32.74	+ 3 43.5	3.062	2.281	13.5	21.4	32 E	17*	22*
4 1	2 42.11	+ 4 8.8	3.117	2.305	12.5	21.4	30 E	15*	21*
4 6	2 51.42	+ 4 32.7	3.168	2.329	11.5	21.4	28 E	12*	19*
4 11	3 0.67	+ 4 55.1	3.218	2.353	10.6	21.5	26 E	9*	18*
4 16	3 9.87	+ 5 15.9	3.264	2.377	9.7	21.5	23 E	7*	17*
4 21	3 19.00	+ 5 35.0	3.308	2.401	8.8	21.5	21 E	4*	15*
186844 2004 GA_{1}									
12 23	23 17.94	+ 2 35.3	0.965	1.264	50.2	19.7	81 E	48	49*
1 2	0 1.38	+ 5 58.2	1.092	1.364	45.5	20.0	82 E	51	46*
1 12	0 38.71	+ 8 47.9	1.241	1.464	41.6	20.3	81 E	54	44*
1 22	1 11.30	+11 9.9	1.405	1.562	38.3	20.6	80 E	56*	41*
2 1	1 40.37	+13 10.1	1.580	1.659	35.3	20.9	77 E	57*	38*
2 11	2 6.80	+14 52.8	1.763	1.754	32.6	21.2	73 E	57*	36*
2 21	2 31.25	+16 21.1	1.950	1.846	30.0	21.5	69 E	55*	34*
195009 2002 CK_{13}									
12 23	23 18.66	−11 3.2	2.550	2.496	22.4	21.0	76 E	34	57*
1 2	23 29.94	−10 26.4	2.646	2.460	21.8	21.0	68 E	34*	50*
1 12	23 42.54	− 9 38.7	2.734	2.423	20.9	21.0	61 E	34*	44*
1 22	23 56.26	− 8 41.6	2.812	2.386	19.7	21.0	55 E	33*	38*
2 1	0 11.00	− 7 36.8	2.880	2.349	18.4	21.0	49 E	30*	33*
2 11	0 26.65	− 6 25.8	2.935	2.311	16.9	21.0	43 E	27*	29*
2 21	0 43.12	− 5 9.9	2.979	2.272	15.3	20.9	37 E	23*	25*
3 2	1 0.38	− 3 50.4	3.010	2.233	13.6	20.8	32 E	18*	21*
3 12	1 18.39	− 2 28.8	3.030	2.194	12.0	20.7	27 E	14*	18*
3 22	1 37.14	− 1 6.4	3.038	2.155	10.4	20.6	23 E	9*	15*
4 1	1 56.63	+ 0 15.4	3.035	2.116	8.9	20.5	19 E	4*	13*
4 11	2 16.85	+ 1 35.3	3.022	2.077	7.6	20.4	16 E	—	10*
4 21	2 37.84	+ 2 51.9	3.001	2.039	6.7	20.3	14 E	—	7*
5 1	2 59.60	+ 4 3.6	2.971	2.000	6.4	20.3	13 E	—	5*
5 11	3 22.13	+ 5 8.9	2.934	1.963	6.6	20.2	13 E	—	2*
5 21	3 45.45	+ 6 6.4	2.891	1.926	7.4	20.2	14 W	—	2*
5 31	4 9.54	+ 6 54.5	2.844	1.890	8.5	20.1	16 W	—	6*
6 10	4 34.36	+ 7 31.9	2.793	1.855	9.8	20.1	18 W	—	9*
6 20	4 59.87	+ 7 57.1	2.739	1.821	11.2	20.1	20 W	—	13*
6 30	5 26.01	+ 8 9.0	2.685	1.789	12.6	20.1	23 W	—	16*
7 10	5 52.68	+ 8 6.8	2.629	1.759	14.0	20.0	25 W	—	19*
7 20	6 19.78	+ 7 50.0	2.574	1.732	15.5	20.0	27 W	—	21*
7 30	6 47.18	+ 7 18.5	2.520	1.706	16.8	20.0	29 W	4*	23*
8 9	7 14.75	+ 6 32.7	2.467	1.684	18.2	19.9	31 W	8*	25*

195009 2002 CK_{13} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 19	7 42.38	+ 5 33.6	2.416	1.664	19.4	19.9	33 W	11*	26*
8 29	8 9.94	+ 4 22.4	2.366	1.647	20.7	19.9	35 W	15*	27*
9 8	8 37.33	+ 3 1.0	2.316	1.634	22.0	19.9	37 W	18*	28*
9 18	9 4.46	+ 1 31.5	2.268	1.624	23.2	19.8	40 W	21*	29*
9 28	9 31.26	− 0 3.6	2.220	1.618	24.4	19.8	42 W	24*	30*
10 8	9 57.68	− 1 41.6	2.171	1.616	25.6	19.8	44 W	27*	32*
10 18	10 23.68	− 3 19.9	2.121	1.617	26.8	19.8	47 W	29*	33*
10 28	10 49.21	− 4 55.7	2.069	1.622	28.0	19.8	50 W	31*	35*
11 7	11 14.25	− 6 26.0	2.014	1.631	29.2	19.8	53 W	33*	37*
11 17	11 38.74	− 7 48.2	1.956	1.644	30.3	19.7	57 W	34*	40*
11 27	12 2.59	− 8 59.3	1.895	1.659	31.3	19.7	61 W	34*	43*
12 7	12 25.73	− 9 56.6	1.830	1.678	32.2	19.7	65 W	35*	47*
12 17	12 48.01	−10 37.4	1.761	1.700	33.0	19.7	70 W	34*	52*
12 27	13 9.23	−10 58.6	1.689	1.725	33.5	19.6	75 W	34	57*
1 6	13 29.19	−10 57.7	1.614	1.753	33.6	19.6	81 W	34	62*
1 16	13 47.57	−10 31.7	1.537	1.782	33.5	19.5	87 W	34	67*

234458 2001 SJ_{181}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 18.82	− 3 39.3	1.561	1.671	35.2	21.0	79 E	41	53*
1 2	23 40.03	− 1 18.4	1.638	1.665	34.6	21.1	74 E	44*	47*
1 12	0 2.13	+ 1 9.0	1.716	1.661	33.8	21.2	70 E	46*	42*
1 22	0 25.00	+ 3 40.4	1.795	1.660	32.8	21.3	66 E	47*	38*
2 1	0 48.57	+ 6 13.2	1.874	1.663	31.6	21.3	62 E	47*	34*
2 11	1 12.76	+ 8 44.6	1.954	1.669	30.3	21.4	59 E	46*	30*
2 21	1 37.52	+11 11.9	2.034	1.678	28.9	21.4	55 E	44*	28*
3 2	2 2.84	+13 32.5	2.114	1.689	27.4	21.5	52 E	42*	25*

90403 2003 YE_{45}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 19.10	+19 52.2	1.240	1.562	39.0	20.6	88 E	65	35*
1 2	23 42.03	+19 51.1	1.337	1.571	38.5	20.8	84 E	65*	33*
1 12	0 5.36	+20 4.9	1.433	1.577	37.8	20.9	79 E	64*	30*
1 22	0 29.06	+20 30.1	1.528	1.580	36.9	21.0	74 E	63*	27*
2 1	0 53.16	+21 3.7	1.619	1.579	35.9	21.1	70 E	60*	25*
2 11	1 17.65	+21 42.5	1.706	1.575	34.7	21.2	65 E	57*	23*
2 21	1 42.55	+22 23.4	1.789	1.568	33.5	21.2	61 E	53*	21*
3 2	2 7.92	+23 3.9	1.865	1.557	32.1	21.3	57 E	49*	20*
3 12	2 33.77	+23 41.2	1.934	1.544	30.7	21.3	52 E	45*	19*
3 22	3 0.12	+24 12.6	1.995	1.526	29.2	21.3	48 E	41*	18*
4 1	3 27.02	+24 35.7	2.048	1.506	27.7	21.3	44 E	37*	18*
4 11	3 54.45	+24 48.2	2.092	1.483	26.1	21.2	41 E	32*	17*
4 21	4 22.40	+24 47.7	2.127	1.456	24.5	21.2	37 E	28*	17*
5 1	4 50.87	+24 32.2	2.153	1.426	23.0	21.1	34 E	23*	17*
5 11	5 19.80	+23 59.6	2.168	1.394	21.5	21.0	30 E	19*	16*
5 21	5 49.17	+23 8.2	2.175	1.358	20.0	21.0	27 E	15*	16*
5 31	6 18.95	+21 56.3	2.171	1.320	18.7	20.8	25 E	10*	15*
6 10	6 49.10	+20 22.5	2.159	1.280	17.6	20.7	22 E	6*	14*
6 20	7 19.64	+18 25.8	2.138	1.237	16.6	20.6	20 E	3*	14*
6 30	7 50.62	+16 5.4	2.110	1.193	15.9	20.5	19 E	—	13*
7 10	8 22.10	+13 21.1	2.075	1.148	15.6	20.3	18 E	—	12*
7 20	8 54.25	+10 13.0	2.034	1.103	15.7	20.2	17 E	—	11*
7 30	9 27.27	+ 6 42.5	1.988	1.059	16.2	20.1	17 E	—	10*
8 9	10 1.45	+ 2 52.0	1.941	1.017	17.1	20.0	17 E	—	10*
8 19	10 37.13	− 1 14.3	1.892	0.978	18.3	19.9	18 E	—	10*
8 24	10 55.66	− 3 21.4	1.869	0.960	19.1	19.8	18 E	—	10*
8 29	11 14.71	− 5 29.9	1.846	0.944	19.9	19.8	19 E	—	10*
9 3	11 34.34	− 7 38.4	1.823	0.929	20.7	19.8	19 E	—	11*
9 8	11 54.59	− 9 45.5	1.802	0.917	21.6	19.7	20 E	—	11*
9 13	12 15.51	−11 49.5	1.783	0.906	22.4	19.7	20 E	—	12*
9 18	12 37.11	−13 48.9	1.765	0.898	23.3	19.7	21 E	—	13*
9 23	12 59.40	−15 41.7	1.749	0.893	24.2	19.7	21 E	—	14*
9 28	13 22.36	−17 26.0	1.735	0.889	25.0	19.7	22 E	—	15*
10 3	13 45.95	−19 0.0	1.724	0.889	25.7	19.7	23 E	—	16*
10 8	14 10.10	−20 21.9	1.716	0.891	26.4	19.7	23 E	—	17*
10 13	14 34.72	−21 30.4	1.710	0.896	26.9	19.7	24 E	—	18*
10 18	14 59.67	−22 24.3	1.707	0.903	27.4	19.8	25 E	—	18*
10 23	15 24.80	−23 2.8	1.707	0.912	27.7	19.8	25 E	1*	19*
10 28	15 49.94	−23 25.6	1.710	0.924	28.0	19.8	26 E	2*	20*
11 2	16 14.94	−23 32.8	1.716	0.938	28.1	19.9	26 E	4*	20*
11 7	16 39.64	−23 24.8	1.725	0.953	28.1	19.9	27 E	6*	21*
11 12	17 3.90	−23 2.6	1.736	0.970	28.0	20.0	27 E	7*	21*
11 17	17 27.61	−22 27.2	1.750	0.988	27.7	20.0	28 E	9*	20*
11 22	17 50.69	−21 39.9	1.767	1.008	27.4	20.1	28 E	10*	20*
11 27	18 13.05	−20 42.0	1.785	1.029	27.0	20.1	28 E	12*	19*
12 2	18 34.69	−19 34.9	1.806	1.050	26.6	20.2	28 E	13*	18*
12 7	18 55.58	−18 20.0	1.829	1.072	26.0	20.2	28 E	15*	17*
12 12	19 15.74	−16 58.5	1.853	1.094	25.4	20.3	28 E	16*	16*
12 17	19 35.19	−15 31.6	1.879	1.116	24.8	20.4	28 E	17*	15*
12 22	19 53.97	−14 0.2	1.906	1.139	24.1	20.4	28 E	18*	13*
12 27	20 12.10	−12 25.4	1.934	1.161	23.4	20.5	28 E	18*	12*
1 1	20 29.63	−10 48.0	1.963	1.184	22.7	20.5	28 E	19*	10*
1 6	20 46.61	− 9 8.7	1.993	1.206	21.9	20.6	27 E	19*	9*

90403 2003 YE_{45} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 11	21 3.10	− 7 28.0	2.024	1.228	21.1	20.6	27 E	20*	7*
1 16	21 19.12	− 5 46.4	2.054	1.250	20.3	20.7	26 E	19*	6*

415713 1998 XX_2

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 20.85	− 6 58.0	0.431	0.986	77.0	20.7	78 E	38	56*
12 28	23 29.82	− 4 42.7	0.444	0.973	78.2	20.8	76 E	40	52*
1 2	23 38.14	− 2 35.0	0.456	0.957	79.7	20.9	73 E	42*	48*
1 7	23 45.78	− 0 34.7	0.465	0.938	81.5	20.9	71 E	44*	44*
1 12	23 52.67	+ 1 18.5	0.471	0.917	83.7	21.0	68 E	45*	40*
1 17	23 58.68	+ 3 4.4	0.474	0.893	86.3	21.1	65 E	46*	36*
1 22	0 3.63	+ 4 42.2	0.474	0.866	89.6	21.1	62 E	46*	33*
1 27	0 7.27	+ 6 10.7	0.471	0.837	93.4	21.2	58 E	45*	29*
2 1	0 9.20	+ 7 27.4	0.465	0.805	98.1	21.3	54 E	43*	25*
2 6	0 8.89	+ 8 28.5	0.456	0.771	103.9	21.5	49 E	40*	21*

355256 2007 KN_4

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 20.94	+ 3 36.3	2.043	2.140	27.1	21.3	82 E	49	48*
1 2	23 38.87	+ 4 32.1	2.232	2.216	25.5	21.5	76 E	50*	43*
1 12	23 56.36	+ 5 33.9	2.423	2.291	23.9	21.7	71 E	50*	38*
1 22	0 13.47	+ 6 40.0	2.613	2.366	22.1	21.9	65 E	49*	34*
2 1	0 30.25	+ 7 48.8	2.800	2.440	20.2	22.1	59 E	46*	29*

98889 2001 BL_{38}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 21.53	+21 29.8	3.182	3.325	17.2	19.9	90 E	66	34*
1 2	23 29.02	+21 30.3	3.347	3.351	16.9	20.0	82 E	66*	29*
1 12	23 37.63	+21 43.4	3.508	3.377	16.3	20.1	74 E	64*	24*
1 22	23 47.18	+22 7.6	3.663	3.402	15.4	20.2	67 E	59*	19*
2 1	23 57.50	+22 41.9	3.811	3.426	14.4	20.3	60 E	54*	14*
2 11	0 8.44	+23 25.0	3.948	3.449	13.2	20.3	53 E	47*	9*
2 21	0 19.90	+24 15.6	4.073	3.470	12.0	20.4	47 E	41*	5*
3 2	0 31.78	+25 12.7	4.185	3.491	10.6	20.4	40 E	34*	1*
3 12	0 43.99	+26 15.1	4.283	3.512	9.3	20.4	35 E	27*	—
3 22	0 56.48	+27 21.8	4.365	3.531	8.0	20.4	29 E	21*	—
4 1	1 9.18	+28 32.1	4.431	3.549	6.8	20.4	25 E	16*	—
4 11	1 22.04	+29 45.1	4.480	3.566	5.9	20.4	21 E	10*	—
4 21	1 35.00	+31 0.1	4.512	3.582	5.4	20.4	20 W	11*	—
5 1	1 48.03	+32 16.6	4.527	3.598	5.5	20.4	20 W	14*	—
5 11	2 1.05	+33 34.0	4.526	3.612	6.1	20.4	22 W	16*	1*
5 21	2 14.03	+34 51.9	4.508	3.626	7.0	20.5	26 W	19*	5*
5 31	2 26.88	+36 10.1	4.473	3.639	8.2	20.5	31 W	23*	9*
6 10	2 39.53	+37 28.2	4.423	3.650	9.4	20.6	36 W	27*	13*
6 20	2 51.89	+38 46.3	4.359	3.661	10.6	20.6	42 W	32*	15*
6 30	3 3.86	+40 4.2	4.280	3.671	11.8	20.6	48 W	38*	17*
7 10	3 15.29	+41 21.9	4.189	3.680	12.9	20.6	54 W	44*	19*
7 20	3 26.03	+42 39.7	4.086	3.688	13.8	20.6	60 W	51*	19*
7 30	3 35.89	+43 57.6	3.973	3.695	14.6	20.6	67 W	59*	19*
8 9	3 44.63	+45 15.5	3.853	3.702	15.3	20.5	74 W	67*	19*
8 19	3 51.99	+46 33.7	3.727	3.707	15.6	20.5	81 W	75*	17*
8 24	3 55.05	+47 12.7	3.663	3.710	15.7	20.4	85 W	79*	17
8 29	3 57.63	+47 51.6	3.598	3.712	15.8	20.4	89 W	82*	16
9 3	3 59.70	+48 30.3	3.533	3.714	15.7	20.3	92 W	85*	15
9 8	4 1.22	+49 8.6	3.469	3.715	15.6	20.3	96 W	86	15
9 13	4 2.11	+49 46.3	3.405	3.717	15.5	20.3	100 W	85	14
9 18	4 2.35	+50 23.1	3.342	3.718	15.2	20.2	104 W	85	14
9 23	4 1.88	+50 58.7	3.281	3.719	14.9	20.2	108 W	84	13
9 28	4 0.66	+51 32.6	3.222	3.720	14.4	20.1	112 W	83	12
10 8	3 55.89	+52 33.4	3.113	3.721	13.4	20.0	120 W	82	11
10 18	3 47.97	+53 20.6	3.018	3.721	12.1	19.9	128 W	82	11
10 28	3 37.22	+53 48.7	2.942	3.720	10.7	19.8	136 W	81	10
11 2	3 31.01	+53 54.1	2.912	3.719	10.1	19.7	139 W	81	10
11 7	3 24.42	+53 52.9	2.888	3.718	9.5	19.7	142 W	81	10
11 12	3 17.61	+53 45.1	2.871	3.716	9.0	19.6	144 W	81	10
11 17	3 10.75	+53 30.4	2.860	3.715	8.7	19.6	145 E	81	10
11 22	3 4.03	+53 9.1	2.855	3.713	8.6	19.6	146 E	82	11
11 27	2 57.62	+52 41.7	2.857	3.711	8.7	19.6	145 E	82	11
12 2	2 51.67	+52 8.9	2.866	3.709	9.0	19.6	144 E	83	12
12 7	2 46.30	+51 31.6	2.881	3.707	9.4	19.7	142 E	83	12
12 12	2 41.61	+50 50.6	2.903	3.704	10.0	19.7	139 E	84	13
12 17	2 37.66	+50 7.0	2.931	3.701	10.7	19.8	136 E	85	14
12 22	2 34.49	+49 21.7	2.965	3.698	11.4	19.8	132 E	86	15
12 27	2 32.12	+48 35.9	3.004	3.695	12.1	19.9	128 E	86	15
1 1	2 30.53	+47 50.3	3.048	3.691	12.7	19.9	124 E	87	16
1 6	2 29.71	+47 5.7	3.096	3.688	13.3	20.0	120 E	88	17
1 11	2 29.62	+46 22.7	3.148	3.684	13.9	20.0	116 E	89	18*
1 16	2 30.22	+45 41.7	3.203	3.680	14.4	20.1	112 E	89	18*

377134 2003 JJ_{16}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 21.56	+10 55.8	1.623	1.825	32.5	20.5	85 E	56	43*
1 2	23 44.37	+10 57.9	1.759	1.865	31.3	20.7	80 E	56*	40*
1 12	0 6.73	+11 14.3	1.900	1.905	30.0	20.9	75 E	56*	36*
1 22	0 28.64	+11 41.6	2.043	1.945	28.4	21.1	70 E	54*	33*

(continuation)

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
377134 2003 JJ_{16}									
2 1	0 50.18	+12 17.1	2.186	1.985	26.8	21.2	65 E	52*	30*
2 11	1 11.36	+12 58.1	2.328	2.025	25.0	21.3	60 E	49*	28*
2 21	1 32.24	+13 42.2	2.468	2.065	23.1	21.4	55 E	45*	25*
348776 2006 KZ_{37}									
12 23	23 21.67	−27 30.1	0.932	1.112	56.7	21.2	71 E	17	63*
12 28	23 41.28	−24 7.3	0.946	1.126	55.9	21.3	71 E	21	62*
1 2	23 59.87	−20 39.4	0.963	1.141	55.0	21.3	72 E	24	61*
1 7	0 17.57	−17 9.6	0.983	1.156	54.0	21.4	72 E	28	59*
1 12	0 34.50	−13 40.2	1.006	1.171	53.0	21.4	72 E	31*	57*
1 17	0 50.78	−10 13.7	1.032	1.187	52.1	21.5	72 E	35*	55*
516264 2016 VC									
12 23	23 21.98	−13 50.2	1.709	1.744	33.1	21.3	75 E	31	59*
1 2	23 43.14	−10 52.6	1.818	1.767	31.8	21.4	71 E	34*	53*
1 12	0 4.21	− 7 54.9	1.928	1.791	30.4	21.5	67 E	37*	48*
1 22	0 25.20	− 4 59.1	2.040	1.817	28.8	21.6	63 E	38*	43*
2 1	0 46.14	− 2 6.9	2.152	1.844	27.2	21.7	59 E	39*	38*
136146 2003 SA_{294}									
12 23	23 22.75	− 8 40.0	1.790	1.847	31.3	20.9	78 E	36	57*
1 2	23 42.17	− 6 18.3	1.913	1.873	30.1	21.1	73 E	39*	51*
1 12	0 1.68	− 3 55.3	2.037	1.900	28.7	21.2	68 E	41*	45*
1 22	0 21.27	− 1 32.6	2.160	1.928	27.1	21.3	63 E	41*	40*
2 1	0 40.92	+ 0 48.5	2.282	1.956	25.4	21.4	58 E	41*	35*
100493 1996 VK_{37}									
12 23	23 23.81	− 3 49.2	1.948	2.018	28.6	21.3	80 E	41	54*
1 2	23 41.02	− 2 7.9	2.089	2.050	27.5	21.5	74 E	43*	48*
1 12	23 58.49	− 0 22.6	2.230	2.082	26.1	21.6	69 E	44*	42*
1 22	0 16.16	+ 1 25.0	2.368	2.114	24.5	21.7	63 E	44*	37*
2 1	0 34.00	+ 3 13.6	2.503	2.146	22.9	21.8	58 E	42*	33*
344532 2002 TH_{237}									
12 23	23 24.01	+ 3 10.8	1.358	1.569	38.4	21.1	82 E	48	49*
1 2	23 48.25	+ 5 1.8	1.432	1.569	37.9	21.2	79 E	50	45*
1 12	0 13.34	+ 6 59.9	1.509	1.573	37.1	21.3	75 E	52*	41*
1 22	0 39.10	+ 9 1.7	1.589	1.580	36.2	21.4	71 E	53*	37*
2 1	1 5.43	+11 4.0	1.671	1.591	35.0	21.5	68 E	53*	34*
58285 1993 YN									
12 23	23 24.22	− 1 26.5	1.745	1.858	31.5	18.8	81 E	44	53*
1 2	23 44.77	+ 0 4.4	1.873	1.889	30.3	19.0	76 E	45*	47*
1 12	0 5.33	+ 1 41.1	2.003	1.922	28.9	19.1	71 E	46*	42*
1 22	0 25.87	+ 3 21.5	2.134	1.955	27.4	19.2	66 E	46*	38*
2 1	0 46.38	+ 5 3.5	2.264	1.989	25.8	19.3	61 E	45*	34*
2 11	1 6.84	+ 6 45.3	2.393	2.024	24.0	19.4	57 E	43*	30*
2 21	1 27.26	+ 8 25.2	2.520	2.060	22.2	19.5	52 E	40*	27*
3 2	1 47.65	+10 1.9	2.643	2.096	20.2	19.6	47 E	36*	24*
3 12	2 8.00	+11 34.0	2.761	2.132	18.2	19.7	42 E	32*	22*
3 22	2 28.31	+13 0.3	2.873	2.168	16.2	19.7	37 E	28*	19*
4 1	2 48.60	+14 20.0	2.980	2.205	14.2	19.8	33 E	23*	17*
4 11	3 8.83	+15 32.1	3.078	2.241	12.1	19.8	28 E	18*	14*
4 21	3 28.99	+16 36.1	3.168	2.278	10.0	19.8	23 E	13*	12*
5 1	3 49.06	+17 31.3	3.249	2.314	7.8	19.8	18 E	8*	9*
5 11	4 8.99	+18 17.4	3.320	2.350	5.8	19.8	13 E	3*	6*
5 21	4 28.75	+18 54.2	3.380	2.385	3.7	19.8	9 E	—	2*
5 31	4 48.29	+19 21.4	3.430	2.420	1.9	19.7	5 E	—	—
6 10	5 7.53	+19 39.2	3.467	2.455	1.5	19.7	4 W	—	—
6 20	5 26.45	+19 47.7	3.493	2.489	3.1	19.9	8 W	—	2*
6 30	5 44.96	+19 47.1	3.505	2.522	5.0	20.1	12 W	—	6*
7 10	6 2.99	+19 37.7	3.505	2.555	6.9	20.2	18 W	3*	10*
7 20	6 20.50	+19 20.2	3.492	2.587	8.8	20.3	23 W	8*	15*
7 30	6 37.40	+18 55.0	3.466	2.619	10.6	20.4	28 W	14*	18*
8 9	6 53.61	+18 22.9	3.427	2.649	12.4	20.4	34 W	20*	22*
8 19	7 9.07	+17 44.5	3.375	2.680	14.0	20.5	40 W	26*	25*
8 29	7 23.67	+17 0.8	3.311	2.709	15.6	20.5	46 W	32*	28*
9 8	7 37.33	+16 12.8	3.235	2.737	16.9	20.5	52 W	38*	32*
9 18	7 49.94	+15 21.3	3.147	2.765	18.1	20.5	59 W	44*	35*
9 28	8 1.35	+14 27.6	3.050	2.792	19.1	20.5	66 W	49*	38*
10 8	8 11.44	+13 32.9	2.944	2.818	19.8	20.5	73 W	54*	42*
10 18	8 20.02	+12 38.7	2.832	2.843	20.2	20.4	81 W	56*	45*
10 28	8 26.88	+11 46.5	2.714	2.868	20.3	20.4	89 W	57	48*
11 7	8 31.83	+10 58.1	2.596	2.891	19.9	20.3	97 W	56	52*
11 17	8 34.63	+10 15.2	2.478	2.914	19.0	20.2	106 W	55	54*
11 27	8 35.06	+ 9 40.0	2.367	2.936	17.6	20.0	116 W	55	54
12 7	8 33.00	+ 9 14.3	2.266	2.957	15.6	19.9	126 W	54	55
12 17	8 28.41	+ 8 59.8	2.180	2.977	13.0	19.7	137 W	54	55
12 27	8 21.51	+ 8 57.5	2.114	2.996	9.9	19.6	148 W	54	55
1 6	8 12.77	+ 9 7.5	2.074	3.014	6.6	19.4	159 W	54	55
1 16	8 2.93	+ 9 28.5	2.062	3.032	3.8	19.2	168 W	54	55

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
434165 2002 TP_{51}									
12 23	23 24.45	− 5 57.9	1.426	1.569	38.0	20.9	79 E	39	56*
1 2	23 48.51	− 2 30.2	1.526	1.596	36.6	21.0	76 E	42	50*
1 12	0 12.38	+ 0 51.9	1.630	1.627	35.2	21.2	72 E	46*	44*
1 22	0 36.11	+ 4 6.2	1.739	1.659	33.6	21.3	69 E	48*	40*
2 1	0 59.75	+ 7 11.4	1.852	1.694	31.9	21.4	65 E	48*	35*
386687 2009 VX_{84}									
12 23	23 24.52	−12 52.4	1.549	1.628	36.0	20.8	76 E	32	60*
12 28	23 36.65	−11 27.0	1.600	1.640	35.3	20.8	75 E	34	57*
1 2	23 48.67	−10 0.7	1.652	1.654	34.6	20.9	73 E	35	54*
1 7	0 0.59	− 8 34.0	1.704	1.668	33.9	21.0	71 E	36*	52*
1 12	0 12.41	− 7 7.1	1.757	1.683	33.1	21.0	69 E	38*	49*
1 17	0 24.14	− 5 40.6	1.812	1.698	32.3	21.1	67 E	39*	47*
1 22	0 35.78	− 4 14.5	1.866	1.713	31.5	21.2	66 E	39*	44*
1 27	0 47.36	− 2 49.4	1.922	1.730	30.7	21.2	64 E	40*	42*
2 1	0 58.86	− 1 25.3	1.978	1.746	29.9	21.3	62 E	40*	40*
2 6	1 10.30	− 0 2.7	2.034	1.763	29.0	21.3	60 E	40*	38*
2 11	1 21.69	+ 1 18.3	2.091	1.780	28.1	21.4	58 E	40*	37*
2 16	1 33.03	+ 2 37.4	2.148	1.798	27.2	21.5	56 E	40*	35*
366736 2004 EH_{37}									
12 23	23 25.11	−13 56.7	2.372	2.339	24.1	21.0	76 E	31	60*
1 2	23 36.02	−11 57.6	2.450	2.294	23.6	21.1	69 E	33*	52*
1 12	23 48.40	− 9 51.5	2.522	2.249	22.9	21.1	63 E	34*	45*
1 22	0 2.07	− 7 39.1	2.587	2.204	21.9	21.0	57 E	34*	39*
2 1	0 16.90	− 5 21.3	2.642	2.158	20.7	21.0	51 E	33*	33*
2 11	0 32.79	− 2 58.8	2.689	2.113	19.4	21.0	45 E	30*	28*
2 21	0 49.67	− 0 32.6	2.726	2.069	17.9	20.9	40 E	27*	24*
3 2	1 7.53	+ 1 56.5	2.755	2.024	16.3	20.8	35 E	24*	20*
3 12	1 26.34	+ 4 27.3	2.774	1.981	14.7	20.7	30 E	20*	17*
3 22	1 46.13	+ 6 58.6	2.786	1.938	12.9	20.6	26 E	16*	13*
4 1	2 6.94	+ 9 29.0	2.789	1.897	11.2	20.5	22 E	12*	11*
4 11	2 28.81	+11 56.8	2.786	1.856	9.4	20.4	18 E	9*	8*
4 21	2 51.81	+14 20.2	2.777	1.818	7.6	20.3	14 E	5*	5*
5 1	3 16.00	+16 37.2	2.763	1.781	5.8	20.1	10 E	2*	2*
5 11	3 41.40	+18 45.4	2.745	1.747	4.0	20.0	7 E	—	—
5 21	4 8.08	+20 42.2	2.724	1.715	2.3	19.8	4 E	—	—
5 31	4 36.00	+22 24.9	2.700	1.686	0.6	19.6	1 E	—	—
6 10	5 5.11	+23 50.9	2.675	1.661	1.3	19.6	2 W	—	—
6 20	5 35.30	+24 57.4	2.649	1.639	2.9	19.7	5 W	—	—
6 30	6 6.39	+25 42.2	2.624	1.620	4.6	19.7	7 W	—	—
7 10	6 38.11	+26 3.6	2.599	1.606	6.2	19.8	10 W	3*	—
7 20	7 10.18	+26 0.6	2.575	1.597	7.7	19.8	12 W	5*	1*
7 30	7 42.27	+25 33.2	2.553	1.591	9.3	19.9	15 W	8*	2*
8 9	8 14.07	+24 42.2	2.532	1.591	10.7	19.9	17 W	10*	3*
8 19	8 45.30	+23 29.7	2.513	1.595	12.2	19.9	19 W	13*	3*
8 29	9 15.74	+21 58.1	2.495	1.603	13.6	20.0	22 W	16*	4*
9 8	9 45.22	+20 10.6	2.478	1.616	15.0	20.0	25 W	18*	5*
9 18	10 13.65	+18 10.8	2.460	1.633	16.4	20.1	27 W	21*	6*
9 28	10 40.98	+16 2.3	2.442	1.654	17.7	20.2	30 W	24*	7*
10 8	11 7.20	+13 48.4	2.423	1.678	19.0	20.2	33 W	27*	9*
10 18	11 32.33	+11 32.6	2.401	1.706	20.3	20.3	36 W	30*	11*
10 28	11 56.39	+ 9 17.8	2.377	1.737	21.6	20.3	40 W	33*	13*
11 7	12 19.41	+ 7 6.7	2.348	1.771	22.8	20.4	44 W	36*	16*
11 17	12 41.39	+ 5 1.6	2.314	1.807	24.0	20.4	48 W	39*	20*
11 27	13 2.32	+ 3 4.6	2.274	1.845	25.0	20.5	52 W	41*	24*
12 7	13 22.14	+ 1 17.2	2.229	1.884	26.0	20.5	57 W	42*	30*
12 17	13 40.79	− 0 19.3	2.177	1.926	26.9	20.5	62 W	43*	35*
12 27	13 58.14	− 1 43.8	2.119	1.968	27.5	20.5	68 W	43*	42*
1 6	14 14.04	− 2 55.6	2.055	2.011	28.0	20.5	74 W	42*	49*
1 16	14 28.29	− 3 54.2	1.985	2.055	28.1	20.5	80 W	41	56*
264357 2000 AZ_{93}									
12 23	23 25.63	+22 26.2	0.066	0.987	85.2	18.1	91 E	67	34*
12 24	23 41.55	+21 2.9	0.069	0.989	83.2	18.1	93 E	66	37*
12 25	23 55.91	+19 41.8	0.072	0.992	81.5	18.1	94 E	65	39*
12 26	0 8.83	+18 24.2	0.076	0.994	80.0	18.2	96 E	63	41*
12 27	0 20.48	+17 10.7	0.079	0.996	78.7	18.2	97 E	62	43*
12 28	0 31.00	+16 1.8	0.083	0.998	77.6	18.3	98 E	61	44*
12 29	0 40.51	+14 57.6	0.087	1.000	76.7	18.4	98 E	60	46*
12 30	0 49.15	+13 58.0	0.091	1.002	75.9	18.4	99 E	59	47*
12 31	0 57.01	+13 2.7	0.095	1.003	75.3	18.5	99 E	58	48*
1 1	1 4.20	+12 11.6	0.099	1.005	74.7	18.6	100 E	57	49*
1 2	1 10.79	+11 24.4	0.104	1.006	74.3	18.7	100 E	56	50*
1 4	1 22.47	+10 0.4	0.112	1.009	73.7	18.8	100 E	55	52*
1 6	1 32.50	+ 8 48.5	0.121	1.011	73.4	19.0	100 E	54	53*
1 8	1 41.24	+ 7 46.7	0.131	1.013	73.3	19.2	99 E	53	54*
1 10	1 48.95	+ 6 53.3	0.140	1.014	73.3	19.3	99 E	52	55*
1 12	1 55.82	+ 6 7.1	0.149	1.015	73.5	19.5	98 E	51	56*
1 14	2 2.02	+ 5 26.7	0.158	1.016	73.8	19.6	97 E	50	56*
1 16	2 7.66	+ 4 51.4	0.167	1.016	74.2	19.7	96 E	50	57*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
					(continuation)				
	264357 2000 AZ_{93}								
	h m	° ′			°	m	°	°	°
1 18	2 12.84	+ 4 20.3	0.176	1.016	74.7	19.9	95 E	49	57*
1 20	2 17.64	+ 3 52.9	0.186	1.015	75.2	20.0	94 E	49	57*
1 22	2 22.11	+ 3 28.6	0.194	1.014	75.7	20.1	93 E	48	57*
1 27	2 32.15	+ 2 38.7	0.216	1.009	77.3	20.4	90 E	48	57*
2 1	2 40.92	+ 2 0.1	0.237	1.002	79.1	20.6	87 E	47	56*
2 6	2 48.65	+ 1 28.9	0.256	0.992	81.2	20.9	84 E	46	55*
2 11	2 55.43	+ 1 2.0	0.273	0.980	83.4	21.1	81 E	46*	54*
2 16	3 1.29	+ 0 37.6	0.288	0.965	86.0	21.2	77 E	45*	53*
2 21	3 6.20	+ 0 14.3	0.302	0.948	88.9	21.4	73 E	43*	51*
	3198 Wallonia								
12 23	23 25.69	−22 1.3	2.376	2.298	24.2	17.9	73 E	23	63*
1 2	23 37.72	−19 37.3	2.466	2.272	23.5	18.0	67 E	25*	56*
1 12	23 50.92	−17 9.5	2.550	2.246	22.5	18.0	61 E	27*	49*
1 22	0 5.11	−14 38.6	2.626	2.219	21.4	18.0	55 E	28*	42*
2 1	0 20.16	−12 5.2	2.695	2.191	20.1	18.0	50 E	27*	37*
2 11	0 35.97	− 9 30.1	2.755	2.163	18.6	17.9	44 E	25*	32*
2 21	0 52.47	− 6 54.1	2.807	2.135	17.0	17.9	39 E	23*	28*
3 2	1 9.62	− 4 17.9	2.850	2.107	15.4	17.8	34 E	19*	23*
3 12	1 27.41	− 1 42.3	2.884	2.078	13.7	17.8	30 E	16*	20*
3 22	1 45.82	+ 0 51.8	2.909	2.049	11.9	17.7	25 E	12*	16*
4 1	2 4.88	+ 3 23.5	2.925	2.021	10.1	17.6	21 E	8*	13*
4 11	2 24.60	+ 5 51.7	2.933	1.992	8.2	17.5	17 E	4*	10*
4 21	2 45.01	+ 8 15.5	2.932	1.964	6.4	17.4	13 E	—	6*
5 1	3 6.14	+10 33.8	2.924	1.936	4.7	17.3	9 E	—	3*
5 11	3 28.04	+12 45.2	2.909	1.909	3.4	17.2	6 E	—	—
5 21	3 50.72	+14 48.7	2.887	1.882	2.9	17.1	5 W	—	—
5 31	4 14.23	+16 43.0	2.859	1.856	3.7	17.1	7 W	—	—
6 10	4 38.55	+18 26.6	2.825	1.831	5.2	17.1	9 W	—	3*
6 20	5 3.71	+19 58.4	2.786	1.807	6.9	17.1	12 W	—	6*
6 30	5 29.67	+21 17.0	2.742	1.784	8.8	17.1	16 W	2*	8*
7 10	5 56.38	+22 21.2	2.694	1.763	10.7	17.2	19 W	6*	10*
7 20	6 23.77	+23 10.2	2.643	1.743	12.6	17.2	22 W	10*	12*
7 30	6 51.75	+23 43.0	2.588	1.725	14.5	17.2	25 W	15*	13*
8 9	7 20.18	+23 59.3	2.531	1.709	16.4	17.2	28 W	19*	13*
8 19	7 48.94	+23 58.9	2.472	1.695	18.2	17.2	32 W	23*	14*
8 29	8 17.87	+23 42.2	2.411	1.683	20.0	17.1	35 W	27*	14*
9 8	8 46.82	+23 10.0	2.349	1.673	21.7	17.1	38 W	30*	15*
9 18	9 15.65	+22 23.6	2.286	1.666	23.4	17.1	41 W	34*	15*
9 28	9 44.23	+21 24.7	2.222	1.661	25.0	17.1	44 W	37*	16*
10 8	10 12.43	+20 15.5	2.158	1.659	26.4	17.1	48 W	41*	16*
10 18	10 40.16	+18 58.5	2.094	1.660	27.8	17.0	51 W	44*	17*
10 28	11 7.32	+17 36.5	2.030	1.663	29.1	17.0	55 W	47*	19*
11 7	11 33.84	+16 12.4	1.965	1.668	30.3	17.0	58 W	50*	21*
11 17	11 59.62	+14 49.2	1.900	1.676	31.3	17.0	62 W	52*	23*
11 27	12 24.57	+13 30.2	1.834	1.687	32.2	16.9	66 W	54*	26*
12 7	12 48.58	+12 18.1	1.768	1.700	32.9	16.9	70 W	55*	30*
12 17	13 11.51	+11 15.8	1.701	1.714	33.5	16.8	74 W	56*	34*
12 27	13 33.17	+10 25.7	1.633	1.731	33.8	16.8	79 W	55*	39*
1 6	13 53.36	+ 9 49.9	1.565	1.750	33.9	16.7	83 W	55	43*
1 16	14 11.82	+ 9 30.1	1.496	1.770	33.7	16.6	89 W	54	48*
	326887 2003 WJ_7								
12 23	23 25.77	+ 2 39.0	1.542	1.720	34.6	21.1	83 E	48	50*
1 2	23 47.96	+ 4 32.8	1.661	1.751	33.4	21.3	78 E	50	45*
1 12	0 10.15	+ 6 28.6	1.783	1.783	32.0	21.5	74 E	51*	40*
1 22	0 32.30	+ 8 24.5	1.907	1.817	30.5	21.6	70 E	52*	36*
2 1	0 54.44	+10 19.1	2.033	1.852	28.9	21.7	65 E	51*	32*
	340014 2005 UF_{344}								
12 23	23 27.06	− 1 7.3	1.847	1.959	29.8	21.5	81 E	44	53*
1 2	23 44.78	+ 0 48.6	1.986	1.993	28.6	21.6	76 E	46*	47*
1 12	0 2.77	+ 2 46.2	2.125	2.027	27.3	21.8	71 E	47*	41*
1 22	0 20.97	+ 4 44.3	2.263	2.061	25.8	21.9	66 E	47*	36*
2 1	0 39.35	+ 6 41.8	2.400	2.096	24.1	22.0	60 E	46*	32*
	475561 2006 TK_{96}								
12 23	23 27.20	+ 2 4.3	1.583	1.755	33.8	21.1	83 E	47	51*
1 2	23 47.62	+ 4 16.2	1.699	1.780	32.7	21.3	78 E	49	45*
1 12	0 8.40	+ 6 28.8	1.817	1.806	31.5	21.4	74 E	51*	40*
1 22	0 29.45	+ 8 40.5	1.936	1.833	30.1	21.6	69 E	52*	35*
2 1	0 50.76	+10 50.1	2.055	1.861	28.6	21.7	65 E	51*	31*
	480838 1999 VE_{199}								
12 23	23 27.45	− 1 9.4	1.490	1.660	35.9	21.1	82 E	44	53*
1 2	23 47.68	+ 1 27.9	1.572	1.656	35.3	21.2	77 E	46	47*
1 12	0 8.93	+ 4 8.8	1.655	1.656	34.6	21.3	73 E	49*	42*
1 22	0 31.08	+ 6 51.0	1.738	1.658	33.6	21.4	69 E	50*	37*
2 1	0 54.05	+ 9 32.2	1.821	1.662	32.5	21.5	65 E	50*	33*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	332285 2006 SL_{411}								
	h m	° ′			°	m	°	°	°
12 23	23 28.32	−16 58.9	1.674	1.720	33.7	21.3	76 E	28	62*
1 2	23 49.95	−14 0.0	1.775	1.738	32.5	21.4	72 E	31	56*
1 12	0 11.52	−10 59.0	1.877	1.758	31.2	21.5	68 E	34*	51*
1 22	0 33.02	− 7 58.1	1.981	1.780	29.7	21.6	64 E	36*	46*
2 1	0 54.47	− 4 59.5	2.086	1.804	28.2	21.7	60 E	37*	41*
	354558 2004 TK_{70}								
12 23	23 28.44	− 5 31.2	1.548	1.684	35.1	21.1	80 E	39	56*
1 2	23 47.51	− 3 30.4	1.606	1.652	35.1	21.2	75 E	41	50*
1 12	0 8.13	− 1 17.8	1.663	1.623	34.8	21.2	70 E	43*	45*
1 22	0 30.15	+ 1 4.1	1.717	1.598	34.3	21.2	66 E	44*	40*
2 1	0 53.46	+ 3 32.8	1.769	1.576	33.6	21.2	62 E	45*	36*
2 11	1 17.98	+ 6 5.2	1.819	1.558	32.8	21.2	59 E	44*	33*
2 21	1 43.65	+ 8 37.7	1.869	1.544	31.9	21.3	56 E	43*	30*
3 2	2 10.44	+11 6.9	1.919	1.535	30.9	21.3	53 E	41*	28*
3 12	2 38.28	+13 29.0	1.969	1.530	29.8	21.3	50 E	39*	27*
3 22	3 7.09	+15 40.1	2.021	1.530	28.5	21.3	47 E	36*	25*
4 1	3 36.79	+17 36.9	2.075	1.534	27.2	21.3	45 E	34*	24*
4 11	4 7.21	+19 16.0	2.131	1.543	25.9	21.4	42 E	31*	23*
4 21	4 38.14	+20 34.7	2.189	1.557	24.4	21.4	40 E	28*	23*
5 1	5 9.38	+21 31.3	2.250	1.574	22.9	21.4	37 E	25*	22*
5 11	5 40.62	+22 4.7	2.314	1.596	21.3	21.5	35 E	21*	21*
	122106 2000 HC_{86}								
12 23	23 28.88	−11 36.0	1.868	1.918	30.1	20.2	78 E	33	60*
1 2	23 47.45	− 9 2.9	2.001	1.952	28.8	20.3	73 E	36	53*
1 12	0 6.03	− 6 30.8	2.135	1.988	27.3	20.5	68 E	38*	47*
1 22	0 24.59	− 4 0.8	2.269	2.023	25.7	20.6	63 E	39*	42*
2 1	0 43.16	− 1 34.0	2.401	2.060	24.0	20.7	58 E	39*	37*
2 11	1 1.73	+ 0 48.6	2.532	2.096	22.2	20.8	53 E	37*	33*
2 21	1 20.29	+ 3 6.0	2.658	2.133	20.3	20.9	48 E	35*	29*
3 2	1 38.88	+ 5 17.7	2.780	2.170	18.3	20.9	43 E	31*	25*
3 12	1 57.49	+ 7 22.8	2.896	2.207	16.3	21.0	39 E	28*	22*
3 22	2 16.13	+ 9 20.7	3.005	2.244	14.2	21.1	34 E	23*	19*
4 1	2 34.79	+11 10.8	3.107	2.281	12.1	21.1	29 E	18*	16*
4 11	2 53.47	+12 52.8	3.200	2.317	10.0	21.1	24 E	14*	13*
4 21	3 12.16	+14 26.2	3.283	2.353	7.9	21.1	19 E	9*	9*
5 1	3 30.83	+15 50.8	3.355	2.389	5.8	21.1	14 E	4*	6*
5 11	3 49.46	+17 6.3	3.417	2.424	3.7	21.0	9 E	—	2*
5 21	4 8.00	+18 12.7	3.467	2.459	1.8	21.0	4 E	—	—
5 31	4 26.42	+19 10.0	3.505	2.493	1.2	21.0	3 W	—	—
6 10	4 44.65	+19 58.2	3.530	2.526	2.9	21.2	7 W	—	1*
6 20	5 2.65	+20 37.6	3.542	2.559	4.9	21.3	12 W	—	6*
6 30	5 20.35	+21 8.6	3.541	2.591	6.9	21.4	18 W	4*	10*
	382820 2003 WB_9								
12 23	23 29.31	+ 4 20.6	1.445	1.663	36.0	21.5	84 E	49	49*
1 2	23 52.77	+ 6 4.4	1.555	1.690	35.0	21.6	80 E	51	45*
1 12	0 16.29	+ 7 51.7	1.668	1.719	33.7	21.8	76 E	53*	40*
1 22	0 39.79	+ 9 40.0	1.785	1.750	32.3	21.9	72 E	53*	37*
2 1	1 3.27	+11 27.4	1.904	1.781	30.8	22.1	68 E	53*	33*
	129737 1999 AA_9								
12 23	23 29.54	− 8 12.6	1.506	1.637	36.2	19.9	79 E	37	58*
1 2	23 49.08	− 5 40.0	1.571	1.615	35.9	20.0	75 E	39	52*
1 12	0 9.90	− 2 58.6	1.634	1.596	35.4	20.0	70 E	42*	46*
1 22	0 31.85	− 0 10.8	1.695	1.579	34.8	20.1	66 E	43*	41*
2 1	0 54.86	+ 2 41.0	1.755	1.564	33.9	20.1	62 E	44*	37*
2 11	1 18.88	+ 5 33.8	1.813	1.553	33.0	20.1	59 E	44*	34*
2 21	1 43.86	+ 8 24.6	1.870	1.545	31.9	20.2	56 E	42*	31*
3 2	2 9.83	+11 10.3	1.927	1.540	30.7	20.2	53 E	41*	28*
3 12	2 36.74	+13 47.5	1.984	1.538	29.5	20.2	50 E	39*	26*
3 22	3 4.56	+16 12.9	2.041	1.540	28.1	20.2	47 E	36*	24*
4 1	3 33.26	+18 23.5	2.099	1.545	26.7	20.3	44 E	34*	23*
4 11	4 2.71	+20 16.3	2.157	1.553	25.2	20.3	41 E	31*	22*
4 21	4 32.78	+21 48.8	2.216	1.564	23.7	20.3	39 E	28*	21*
5 1	5 3.29	+22 59.4	2.276	1.578	22.1	20.3	36 E	25*	20*
5 11	5 34.00	+23 46.7	2.336	1.596	20.5	20.4	34 E	21*	19*
5 21	6 4.68	+24 10.5	2.397	1.615	18.8	20.4	31 E	18*	18*
5 31	6 35.08	+24 11.0	2.458	1.637	17.1	20.4	28 E	15*	17*
6 10	7 4.96	+23 49.5	2.518	1.661	15.3	20.5	26 E	11*	15*
6 20	7 34.15	+23 7.5	2.578	1.687	13.5	20.5	23 E	8*	14*
6 30	8 2.49	+22 7.1	2.636	1.714	11.6	20.5	20 E	6*	12*
7 10	8 29.89	+20 50.7	2.691	1.743	9.7	20.5	17 E	4*	9*
7 20	8 56.32	+19 20.7	2.744	1.773	7.8	20.5	14 E	2*	7*
7 30	9 21.77	+17 39.5	2.793	1.804	5.9	20.5	11 E	—	4*
8 9	9 46.25	+15 49.6	2.837	1.836	4.0	20.4	7 E	—	1*
8 19	10 9.83	+13 52.9	2.876	1.868	2.2	20.4	4 E	—	—
8 29	10 32.58	+11 51.6	2.909	1.900	1.4	20.4	3 E	—	—
9 8	10 54.55	+ 9 47.5	2.935	1.933	2.6	20.6	5 W	—	—
9 18	11 15.82	+ 7 42.1	2.953	1.966	4.5	20.7	9 W	3*	—
9 28	11 36.45	+ 5 37.2	2.962	1.999	6.5	20.9	13 W	7*	—

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
129737 1999 AA_9									*(continuation)*
	h m	° ′			°	m	°	°	°
10 8	11 56.50	+ 3 33.9	2.963	2.031	8.4	21.0	17 W	11*	3*
10 18	12 16.01	+ 1 33.6	2.954	2.063	10.4	21.1	22 W	15*	6*
10 28	12 35.01	− 0 22.6	2.934	2.095	12.3	21.2	27 W	19*	9*
11 7	12 53.51	− 2 13.6	2.905	2.127	14.2	21.3	32 W	23*	13*
11 17	13 11.50	− 3 58.5	2.864	2.157	16.0	21.3	37 W	27*	18*
11 27	13 28.95	− 5 36.4	2.813	2.188	17.7	21.4	42 W	30*	23*
12 7	13 45.81	− 7 6.3	2.751	2.217	19.3	21.4	48 W	32*	28*
12 17	14 1.99	− 8 27.8	2.679	2.246	20.7	21.4	54 W	34*	35*
12 27	14 17.37	− 9 40.0	2.598	2.274	22.0	21.4	60 W	34*	42*
1 6	14 31.80	−10 42.4	2.507	2.301	23.1	21.4	67 W	34*	49*
1 16	14 45.12	−11 34.8	2.409	2.328	23.9	21.4	73 W	33*	57*
152685 1998 MZ									
12 23	23 29.54	− 3 31.3	0.696	1.113	60.8	20.8	81 E	41	55*
12 28	23 31.98	− 3 14.7	0.692	1.064	64.1	20.8	77 E	42	51*
1 2	23 34.94	− 2 54.7	0.684	1.013	67.6	20.8	72 E	42*	47*
1 7	23 38.18	− 2 32.8	0.671	0.962	71.5	20.8	68 E	42*	44*
1 12	23 41.41	− 2 10.8	0.652	0.910	76.0	20.7	64 E	41*	40*
1 17	23 44.23	− 1 51.4	0.629	0.858	81.2	20.7	60 E	40*	36*
1 22	23 46.14	− 1 37.8	0.600	0.807	87.5	20.7	55 E	38*	32*
1 27	23 46.37	− 1 34.8	0.566	0.757	95.1	20.8	50 E	36*	29*
2 1	23 43.86	− 1 49.4	0.528	0.710	104.5	20.9	44 E	32*	24*
2 6	23 37.12	− 2 30.9	0.489	0.667	116.2	21.3	37 E	27*	19*
309203 2007 GG									
12 23	23 30.56	−10 20.9	1.005	1.260	49.9	20.1	79 E	35	59*
1 2	23 57.28	− 7 18.8	1.005	1.221	51.3	20.0	76 E	38	54*
1 12	0 26.68	− 3 51.8	1.003	1.192	52.4	20.0	74 E	41*	50*
1 22	0 58.65	− 0 4.0	1.002	1.174	53.1	20.0	72 E	45*	47*
1 27	1 15.59	+ 1 55.8	1.003	1.169	53.2	20.0	72 E	46*	45*
2 1	1 33.15	+ 3 58.1	1.005	1.167	53.3	20.0	72 E	48*	44*
2 6	1 51.32	+ 6 1.6	1.009	1.169	53.2	20.0	72 E	49*	43*
2 11	2 10.07	+ 8 4.7	1.015	1.173	53.0	20.0	72 E	51*	42*
2 16	2 29.37	+10 5.8	1.024	1.180	52.7	20.0	72 E	52*	41*
2 21	2 49.17	+12 3.2	1.035	1.191	52.2	20.1	72 E	53*	40*
2 26	3 9.44	+13 55.2	1.050	1.203	51.6	20.1	72 E	54*	39*
3 2	3 30.09	+15 40.1	1.068	1.219	50.8	20.2	73 E	55*	39*
3 7	3 51.03	+17 16.3	1.089	1.237	50.0	20.2	73 E	56*	38*
3 12	4 12.14	+18 42.4	1.115	1.257	49.1	20.3	73 E	57*	38*
3 22	4 54.46	+21 1.1	1.178	1.304	47.0	20.4	73 E	57*	37*
4 1	5 36.11	+22 32.4	1.256	1.358	44.7	20.6	73 E	57*	37*
4 11	6 16.21	+23 17.5	1.349	1.417	42.4	20.8	72 E	56*	38*
4 21	6 54.13	+23 21.7	1.455	1.480	40.0	20.9	71 E	53*	38*
5 1	7 29.54	+22 51.8	1.573	1.547	37.7	21.1	70 E	50*	39*
5 11	8 2.34	+21 55.4	1.701	1.615	35.3	21.3	68 E	46*	40*
279577 2011 DY_{22}									
12 23	23 31.09	− 1 36.7	1.535	1.706	34.8	19.7	82 E	43	54*
1 2	23 51.52	+ 1 10.2	1.641	1.725	33.9	19.9	78 E	46	48*
1 12	0 12.41	+ 3 55.5	1.749	1.745	32.7	20.0	73 E	49*	42*
1 22	0 33.69	+ 6 37.7	1.858	1.768	31.4	20.1	69 E	50*	37*
2 1	0 55.33	+ 9 15.4	1.969	1.792	29.9	20.2	65 E	50*	33*
2 11	1 17.30	+11 47.1	2.081	1.818	28.3	20.3	61 E	49*	29*
2 21	1 39.59	+14 11.4	2.192	1.846	26.6	20.4	57 E	47*	26*
3 2	2 2.19	+16 27.1	2.303	1.875	24.8	20.5	53 E	44*	23*
3 12	2 25.09	+18 33.1	2.412	1.905	23.0	20.6	49 E	40*	21*
3 22	2 48.25	+20 28.2	2.518	1.936	21.1	20.7	44 E	36*	19*
4 1	3 11.66	+22 11.5	2.621	1.967	19.2	20.7	40 E	32*	17*
4 11	3 35.27	+23 42.4	2.720	1.999	17.2	20.8	36 E	28*	15*
4 21	3 59.02	+25 0.1	2.814	2.032	15.2	20.8	32 E	24*	13*
5 1	4 22.85	+26 4.5	2.902	2.065	13.1	20.9	28 E	20*	11*
5 11	4 46.66	+26 55.1	2.984	2.097	11.1	20.9	24 E	15*	9*
5 21	5 10.38	+27 32.1	3.059	2.131	9.1	20.9	19 E	11*	6*
5 31	5 33.91	+27 55.7	3.126	2.163	7.1	20.9	15 E	7*	3*
6 10	5 57.15	+28 6.3	3.184	2.196	5.1	20.8	11 E	4*	—
6 20	6 20.01	+28 4.6	3.233	2.229	3.3	20.8	7 E	1*	—
6 30	6 42.41	+27 51.4	3.273	2.261	2.2	20.8	5 E	—	—
7 10	7 4.25	+27 27.5	3.302	2.293	2.7	20.9	6 W	—	—
7 20	7 25.50	+26 54.1	3.320	2.325	4.2	21.0	10 W	4*	—
7 30	7 46.08	+26 12.2	3.327	2.356	6.1	21.1	14 W	8*	1*
8 9	8 5.95	+25 23.2	3.322	2.386	7.9	21.3	19 W	12*	4*
8 19	8 25.08	+24 28.1	3.305	2.416	9.8	21.4	24 W	17*	7*
8 29	8 43.43	+23 28.5	3.276	2.445	11.6	21.4	29 W	22*	10*
9 8	9 0.97	+22 25.5	3.235	2.474	13.4	21.5	35 W	27*	13*
270147 2001 SL_{62}									
12 23	23 31.11	− 1 5.7	1.707	1.854	31.7	20.8	82 E	44	54*
1 2	23 49.47	+ 1 24.4	1.836	1.884	30.6	20.9	77 E	46	47*
1 12	0 8.17	+ 3 52.3	1.966	1.915	29.3	21.1	72 E	48*	42*
1 22	0 27.15	+ 6 17.3	2.097	1.948	27.8	21.2	68 E	49*	36*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
270147 2001 SL_{62}									*(continuation)*
	h m	° ′			°	m	°	°	°
2 1	0 46.40	+ 8 38.6	2.227	1.981	26.2	21.3	63 E	49*	32*
2 11	1 5.87	+10 55.4	2.356	2.015	24.5	21.4	58 E	47*	28*
330848 2009 PT_5									
12 23	23 31.28	+ 1 3.1	1.819	1.964	29.8	21.4	83 E	46	52*
1 2	23 48.44	+ 2 51.8	1.957	1.995	28.8	21.5	78 E	48	46*
1 12	0 6.03	+ 4 43.1	2.095	2.026	27.5	21.7	72 E	49*	41*
1 22	0 23.94	+ 6 35.5	2.232	2.058	26.1	21.8	67 E	49*	36*
2 1	0 42.14	+ 8 28.1	2.367	2.090	24.5	21.9	62 E	48*	31*
218082 2002 GU_{118}									
12 23	23 31.34	− 6 44.2	1.997	2.071	27.9	21.2	80 E	38	57*
1 2	23 47.14	− 4 41.5	2.148	2.109	26.7	21.4	74 E	40	51*
1 12	0 3.23	− 2 38.4	2.298	2.147	25.3	21.5	69 E	42*	45*
1 22	0 19.55	− 0 35.7	2.445	2.185	23.7	21.7	63 E	42*	39*
2 1	0 36.06	+ 1 25.7	2.588	2.221	22.0	21.8	58 E	41*	34*
484616 2008 SY_{105}									
12 23	23 31.83	− 7 29.6	1.512	1.655	35.8	21.2	80 E	38	58*
1 2	23 53.04	− 5 24.8	1.583	1.641	35.5	21.2	76 E	40	52*
1 12	0 15.29	− 3 9.5	1.653	1.631	34.8	21.3	71 E	42*	47*
1 22	0 38.42	− 0 46.6	1.723	1.624	34.0	21.3	67 E	43*	43*
2 1	1 2.34	+ 1 40.8	1.794	1.621	33.1	21.4	64 E	44*	39*
2 11	1 26.94	+ 4 9.5	1.864	1.621	31.9	21.5	60 E	43*	36*
140333 2001 TD_2									
12 23	23 33.02	+13 15.3	0.991	1.380	45.4	21.4	89 E	58	43*
1 2	23 45.55	+14 47.2	1.069	1.351	46.1	21.6	82 E	60*	37*
1 12	0 0.15	+16 29.5	1.136	1.315	46.6	21.6	76 E	61*	32*
1 22	0 16.57	+18 20.5	1.191	1.271	47.0	21.7	71 E	60*	27*
2 1	0 34.77	+20 18.8	1.230	1.220	47.4	21.7	66 E	57*	22*
108906 2001 PL_9									
12 23	23 33.46	−20 43.3	1.150	1.314	46.5	20.5	76 E	24	65*
1 2	23 52.81	−19 17.8	1.180	1.261	47.4	20.4	71 E	26	59*
1 12	0 13.92	−17 33.8	1.197	1.205	48.3	20.4	66 E	27*	54*
1 22	0 36.67	−15 32.0	1.199	1.147	49.5	20.3	62 E	28*	50*
2 1	1 1.07	−13 12.3	1.186	1.087	51.1	20.2	59 E	29*	46*
2 11	1 27.14	−10 33.8	1.158	1.028	53.3	20.1	57 E	30*	44*
2 21	1 54.96	− 7 34.7	1.114	0.969	56.2	20.0	55 E	30*	42*
3 2	2 24.70	− 4 11.4	1.056	0.914	59.9	19.9	53 E	30*	40*
3 7	2 40.33	− 2 19.3	1.022	0.889	62.1	19.8	52 E	30*	39*
3 12	2 56.49	− 0 19.2	0.985	0.866	64.6	19.7	52 E	31*	38*
3 17	3 13.22	+ 1 49.9	0.946	0.845	67.2	19.7	52 E	31*	38*
3 22	3 30.55	+ 4 9.2	0.905	0.827	70.1	19.6	51 E	32*	37*
3 27	3 48.54	+ 6 39.8	0.862	0.812	73.1	19.6	51 E	32*	36*
4 1	4 7.24	+ 9 22.9	0.819	0.801	76.2	19.5	51 E	33*	35*
4 11	4 47.12	+15 29.9	0.733	0.790	82.2	19.5	51 E	35*	33*
4 21	5 31.47	+22 32.2	0.655	0.797	87.1	19.4	52 E	39*	30*
5 1	6 22.57	+30 13.3	0.591	0.819	89.7	19.4	54 E	43*	26*
5 3	6 33.87	+31 46.5	0.581	0.825	89.9	19.4	55 E	44*	25*
5 5	6 45.59	+33 19.0	0.571	0.832	89.9	19.4	56 E	45*	24*
5 7	6 57.75	+34 49.9	0.562	0.840	89.9	19.3	56 E	46*	24*
5 9	7 10.38	+36 18.6	0.554	0.847	89.7	19.3	57 E	47*	23*
5 11	7 23.51	+37 44.5	0.547	0.856	89.3	19.3	58 E	48*	22*
5 13	7 37.13	+39 6.6	0.540	0.864	88.9	19.3	59 E	50*	21*
5 15	7 51.25	+40 24.2	0.535	0.873	88.4	19.3	60 E	51*	21*
5 17	8 5.87	+41 36.6	0.530	0.882	87.7	19.2	61 E	52*	20*
5 19	8 20.97	+42 42.9	0.526	0.892	87.0	19.2	62 E	53*	19*
5 21	8 36.51	+43 42.4	0.523	0.902	86.2	19.2	63 E	54*	19*
5 23	8 52.45	+44 34.5	0.521	0.912	85.2	19.2	64 E	56*	18*
5 25	9 8.70	+45 18.6	0.520	0.923	84.3	19.2	65 E	57*	18*
5 27	9 25.19	+45 54.3	0.519	0.934	83.2	19.1	66 E	58*	18*
5 29	9 41.83	+46 21.2	0.519	0.945	82.1	19.1	67 E	59*	17*
5 31	9 58.51	+46 39.3	0.520	0.956	81.0	19.1	69 E	61*	17*
6 2	10 15.13	+46 48.6	0.522	0.967	79.8	19.1	70 E	62*	17*
6 4	10 31.57	+46 49.1	0.524	0.979	78.6	19.1	71 E	63*	17
6 6	10 47.75	+46 41.2	0.526	0.990	77.4	19.1	72 E	64*	17
6 8	11 3.56	+46 25.2	0.530	1.002	76.2	19.1	73 E	65*	18
6 10	11 18.95	+46 1.5	0.534	1.014	74.9	19.1	75 E	66*	18
6 12	11 33.84	+45 30.8	0.538	1.025	73.7	19.1	76 E	67*	18
6 14	11 48.19	+44 53.7	0.543	1.037	72.5	19.1	77 E	68*	19
6 16	12 1.99	+44 10.6	0.549	1.049	71.3	19.1	78 E	68*	20
6 18	12 15.21	+43 22.3	0.555	1.061	70.1	19.1	79 E	69*	21
6 20	12 27.85	+42 29.3	0.561	1.073	68.9	19.1	80 E	70*	22
6 25	12 57.00	+40 0.2	0.580	1.103	66.0	19.2	83 E	70*	24
6 30	13 22.90	+37 13.7	0.601	1.133	63.4	19.2	85 E	70*	27
7 5	13 45.98	+34 16.5	0.624	1.162	60.9	19.3	87 E	69*	30

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
						(continuation)			
	108906 2001 PL_9								
	h m	° ′			°	m	°	°	°
7 10	14 6.69	+31 13.5	0.650	1.191	58.6	19.4	88 E	68*	33
7 15	14 25.46	+28 8.7	0.679	1.220	56.4	19.4	90 E	66*	36
7 20	14 42.68	+25 4.7	0.710	1.248	54.5	19.5	91 E	64*	39
7 25	14 58.65	+22 4.0	0.743	1.275	52.8	19.6	92 E	61*	42
7 30	15 13.64	+19 8.4	0.779	1.301	51.2	19.7	92 E	59*	45
8 4	15 27.83	+16 19.0	0.817	1.327	49.8	19.8	92 E	57*	48
8 9	15 41.40	+13 36.8	0.857	1.352	48.5	19.9	92 E	54*	50
8 14	15 54.48	+11 2.3	0.899	1.376	47.4	20.0	92 E	52*	53
8 19	16 7.18	+ 8 35.9	0.944	1.400	46.3	20.2	91 E	50*	55
8 29	16 31.80	+ 4 8.5	1.038	1.444	44.4	20.4	90 E	46*	60*
9 8	16 55.73	+ 0 15.3	1.139	1.484	42.7	20.6	87 E	43*	63*
9 18	17 19.31	− 3 4.7	1.246	1.521	41.1	20.8	84 E	40*	65*
9 28	17 42.75	− 5 52.8	1.356	1.554	39.6	21.0	81 E	37*	64*
10 8	18 6.13	− 8 11.0	1.470	1.583	38.0	21.2	77 E	35*	63*
10 18	18 29.52	−10 1.2	1.584	1.608	36.4	21.3	73 E	33*	60*
10 28	18 52.96	−11 25.5	1.697	1.630	34.7	21.4	69 E	32*	56*
	269881 2000 GF_{15}								
12 23	23 33.50	− 4 45.6	2.114	2.195	26.3	21.2	81 E	40	57*
1 2	23 47.76	− 2 50.5	2.268	2.232	25.2	21.4	75 E	42	50*
1 12	0 2.52	− 0 54.3	2.421	2.268	23.9	21.5	69 E	44*	43*
1 22	0 17.68	+ 1 2.0	2.571	2.304	22.4	21.6	63 E	44*	38*
2 1	0 33.17	+ 2 57.9	2.717	2.340	20.8	21.7	57 E	42*	32*
	152942 2000 FN_{10}								
12 23	23 33.78	+ 4 30.3	2.200	2.335	24.8	21.4	85 E	50	50*
1 2	23 43.43	+ 6 11.1	2.376	2.375	23.9	21.6	78 E	51*	43*
1 12	23 54.10	+ 7 53.5	2.548	2.415	22.7	21.7	71 E	52*	36*
1 22	0 5.59	+ 9 37.2	2.713	2.452	21.2	21.9	64 E	51*	30*
2 1	0 17.75	+11 22.2	2.870	2.487	19.6	22.0	58 E	48*	25*
	226201 2002 UH_{38}								
12 23	23 33.87	−13 46.9	1.843	1.903	30.4	20.8	78 E	31	62*
1 2	23 49.96	−12 50.1	1.917	1.867	30.1	20.9	72 E	32	56*
1 12	0 7.52	−11 38.6	1.985	1.832	29.5	20.9	67 E	33*	50*
1 22	0 26.37	−10 14.6	2.046	1.798	28.7	20.9	61 E	33*	45*
2 1	0 46.39	− 8 40.1	2.100	1.766	27.8	20.9	57 E	32*	41*
2 11	1 7.49	− 6 57.2	2.148	1.735	26.9	20.9	53 E	31*	38*
2 21	1 29.60	− 5 8.1	2.189	1.706	25.8	20.8	49 E	29*	35*
3 2	1 52.69	− 3 14.8	2.224	1.678	24.7	20.8	45 E	27*	33*
3 12	2 16.74	− 1 19.7	2.254	1.654	23.7	20.8	42 E	24*	30*
3 22	2 41.72	+ 0 34.8	2.281	1.632	22.6	20.7	39 E	21*	29*
4 1	3 7.62	+ 2 26.4	2.305	1.613	21.6	20.7	36 E	18*	27*
4 11	3 34.40	+ 4 12.3	2.326	1.597	20.5	20.7	34 E	15*	26*
4 21	4 2.00	+ 5 50.1	2.348	1.584	19.5	20.6	32 E	11*	24*
5 1	4 30.35	+ 7 17.3	2.369	1.575	18.5	20.6	30 E	8*	23*
5 11	4 59.31	+ 8 31.4	2.392	1.569	17.4	20.6	28 E	5*	21*
5 21	5 28.76	+ 9 30.7	2.417	1.567	16.3	20.6	26 E	2*	20*
5 31	5 58.50	+10 13.6	2.444	1.569	15.1	20.6	24 E	—	18*
6 10	6 28.35	+10 39.2	2.473	1.575	13.8	20.5	22 E	—	16*
6 20	6 58.11	+10 47.4	2.504	1.584	12.5	20.5	20 E	—	13*
6 30	7 27.60	+10 38.6	2.537	1.597	11.0	20.5	17 E	—	11*
7 10	7 56.64	+10 13.6	2.572	1.613	9.5	20.5	15 E	—	8*
7 20	8 25.10	+ 9 34.2	2.607	1.632	8.0	20.5	13 E	—	5*
7 30	8 52.89	+ 8 41.9	2.642	1.655	6.4	20.5	10 E	—	2*
8 9	9 19.94	+ 7 38.9	2.676	1.679	5.0	20.5	8 E	—	—
8 19	9 46.23	+ 6 27.3	2.708	1.706	3.9	20.5	7 W	—	—
8 29	10 11.76	+ 5 9.2	2.736	1.736	3.6	20.5	6 W	—	—
9 8	10 36.54	+ 3 46.9	2.760	1.767	4.4	20.6	8 W	—	2*
9 18	11 0.62	+ 2 22.2	2.778	1.799	5.8	20.8	10 W	2*	3*
9 28	11 24.02	+ 0 57.1	2.790	1.833	7.6	20.9	14 W	6*	5*
10 8	11 46.79	− 0 26.5	2.794	1.868	9.4	21.0	18 W	10*	7*
10 18	12 8.96	− 1 46.9	2.790	1.904	11.3	21.1	22 W	14*	9*
10 28	12 30.55	− 3 2.4	2.778	1.940	13.2	21.2	27 W	18*	12*
11 7	12 51.57	− 4 11.5	2.756	1.977	15.1	21.3	31 W	22*	15*
11 17	13 12.02	− 5 12.6	2.725	2.014	16.9	21.4	36 W	26*	18*
11 27	13 31.86	− 6 4.3	2.683	2.052	18.6	21.5	42 W	29*	22*
	233949 2009 WC_{216}								
12 23	23 34.41	−30 38.7	1.760	1.740	32.6	20.6	73 E	14	66*
12 28	23 44.18	−29 5.4	1.784	1.727	32.5	20.6	71 E	16	63*
1 2	23 54.20	−27 28.7	1.808	1.713	32.3	20.6	69 E	18	61*
1 7	0 4.46	−25 48.8	1.831	1.700	32.1	20.6	67 E	19*	58*
1 12	0 14.92	−24 6.1	1.854	1.688	31.8	20.6	65 E	21*	56*
1 17	0 25.57	−22 20.7	1.876	1.676	31.5	20.6	63 E	22*	54*
1 22	0 36.39	−20 32.9	1.898	1.665	31.2	20.6	61 E	23*	51*
1 27	0 47.39	−18 42.9	1.919	1.654	30.9	20.6	60 E	25*	49*
2 1	0 58.53	−16 51.2	1.940	1.645	30.5	20.6	58 E	26*	47*
2 6	1 9.83	−14 58.1	1.961	1.635	30.1	20.6	56 E	26*	45*
2 11	1 21.27	−13 3.9	1.983	1.627	29.7	20.6	55 E	27*	44*
2 16	1 32.84	−11 9.0	2.004	1.619	29.3	20.6	53 E	27*	42*
	233949 2009 WC_{216}								
2 21	1 44.56	− 9 13.8	2.026	1.612	28.8	20.6	52 E	27*	40*
2 26	1 56.42	− 7 18.7	2.047	1.606	28.3	20.6	50 E	27*	39*
3 2	2 8.43	− 5 24.2	2.070	1.601	27.8	20.6	49 E	27*	37*
3 7	2 20.57	− 3 30.7	2.092	1.597	27.2	20.6	47 E	27*	36*
3 12	2 32.85	− 1 38.5	2.116	1.593	26.6	20.6	46 E	26*	34*
3 17	2 45.27	+ 0 11.7	2.139	1.590	26.0	20.6	44 E	26*	33*
3 22	2 57.84	+ 1 59.8	2.164	1.588	25.4	20.6	43 E	25*	31*
3 27	3 10.56	+ 3 45.2	2.189	1.587	24.7	20.6	42 E	24*	30*
4 1	3 23.43	+ 5 27.5	2.214	1.587	24.0	20.7	40 E	23*	29*
4 6	3 36.44	+ 7 6.4	2.240	1.588	23.2	20.7	39 E	22*	28*
4 11	3 49.59	+ 8 41.5	2.266	1.590	22.5	20.7	37 E	21*	26*
4 16	4 2.87	+10 12.5	2.293	1.592	21.7	20.7	36 E	19*	25*
4 21	4 16.30	+11 39.2	2.321	1.596	20.8	20.7	34 E	18*	24*
4 26	4 29.85	+13 1.1	2.349	1.600	20.0	20.7	33 E	17*	23*
5 1	4 43.53	+14 18.1	2.377	1.605	19.1	20.7	31 E	15*	22*
5 6	4 57.31	+15 30.0	2.405	1.611	18.2	20.7	30 E	14*	20*
5 11	5 11.18	+16 36.6	2.433	1.618	17.3	20.7	28 E	12*	19*
5 16	5 25.15	+17 37.8	2.461	1.625	16.3	20.7	27 E	11*	18*
5 21	5 39.18	+18 33.5	2.490	1.633	15.4	20.7	25 E	10*	17*
5 26	5 53.27	+19 23.7	2.518	1.642	14.4	20.7	24 E	8*	15*
5 31	6 7.40	+20 8.3	2.545	1.652	13.4	20.7	22 E	7*	14*
6 5	6 21.54	+20 47.3	2.573	1.662	12.4	20.7	21 E	6*	13*
6 10	6 35.68	+21 20.7	2.600	1.673	11.4	20.7	19 E	5*	11*
6 15	6 49.80	+21 48.8	2.626	1.685	10.4	20.7	18 E	4*	10*
6 20	7 3.88	+22 11.5	2.652	1.697	9.4	20.7	16 E	3*	8*
6 25	7 17.91	+22 29.1	2.676	1.710	8.5	20.7	14 E	2*	7*
6 30	7 31.86	+22 41.7	2.700	1.723	7.5	20.7	13 E	1*	5*
7 5	7 45.72	+22 49.4	2.723	1.737	6.5	20.7	11 E	1*	4*
7 10	7 59.46	+22 52.6	2.745	1.751	5.6	20.7	10 E	—	2*
7 15	8 13.09	+22 51.4	2.766	1.766	4.7	20.7	8 E	—	1*
7 20	8 26.58	+22 46.0	2.786	1.781	3.9	20.6	7 E	—	—
7 25	8 39.93	+22 36.8	2.804	1.797	3.3	20.6	6 E	—	—
7 30	8 53.12	+22 24.0	2.821	1.812	3.0	20.6	5 E	—	—
8 4	9 6.14	+22 7.9	2.836	1.829	3.0	20.7	5 E	—	—
8 9	9 19.00	+21 48.8	2.850	1.845	3.3	20.7	6 E	—	—
8 14	9 31.69	+21 26.9	2.863	1.862	3.9	20.8	7 W	—	—
8 19	9 44.20	+21 2.5	2.873	1.878	4.6	20.9	9 W	2*	—
8 24	9 56.54	+20 36.0	2.882	1.896	5.4	20.9	10 W	4*	—
8 29	10 8.69	+20 7.6	2.889	1.913	6.3	21.0	12 W	5*	—
9 3	10 20.67	+19 37.7	2.895	1.930	7.2	21.1	14 W	7*	—
9 8	10 32.47	+19 6.4	2.898	1.948	8.1	21.1	16 W	9*	—
9 13	10 44.11	+18 34.1	2.900	1.966	9.0	21.2	18 W	11*	—
9 18	10 55.57	+18 1.0	2.899	1.983	9.9	21.2	20 W	14*	—
9 23	11 6.87	+17 27.5	2.897	2.001	10.8	21.3	22 W	16*	—
9 28	11 17.99	+16 53.8	2.892	2.019	11.7	21.3	24 W	18*	—
10 3	11 28.96	+16 20.1	2.885	2.037	12.6	21.4	26 W	20*	—
10 8	11 39.76	+15 46.8	2.877	2.055	13.4	21.4	29 W	22*	1*
10 13	11 50.40	+15 14.0	2.866	2.073	14.3	21.5	31 W	25*	2*
	514031 2014 KY_{75}								
12 23	23 34.81	+ 4 14.2	2.408	2.526	22.8	21.4	85 E	49	50*
1 2	23 44.18	+ 5 57.5	2.587	2.571	22.0	21.6	78 E	51*	43*
1 12	23 54.54	+ 7 41.7	2.762	2.614	20.8	21.7	71 E	52*	37*
1 22	0 5.69	+ 9 26.9	2.932	2.657	19.5	21.8	64 E	50*	30*
2 1	0 17.49	+11 12.8	3.095	2.699	18.0	21.9	58 E	47*	25*
	215757 2004 FU_{64}								
12 23	23 35.61	+ 6 7.8	1.308	1.585	38.3	20.9	86 E	51	49*
12 28	23 45.16	+ 8 7.0	1.377	1.610	37.4	21.0	84 E	53	45*
1 2	23 54.75	+ 9 59.7	1.447	1.635	36.6	21.2	82 E	55	42*
1 7	0 4.36	+11 46.7	1.518	1.660	35.7	21.3	80 E	57*	39*
1 12	0 14.02	+13 28.5	1.590	1.685	34.8	21.4	78 E	58*	36*
1 17	0 23.74	+15 5.6	1.661	1.710	33.9	21.5	76 E	59*	33*
	1620 Geographos								
12 23	23 36.08	+14 30.3	1.190	1.542	39.6	18.5	90 E	60	42*
1 2	23 56.79	+15 58.8	1.309	1.570	38.6	18.7	85 E	61	38*
1 12	0 17.80	+17 29.7	1.427	1.594	37.5	18.9	81 E	62*	34*
1 22	0 39.16	+19 1.8	1.543	1.615	36.2	19.1	76 E	62*	30*
2 1	1 0.94	+20 34.3	1.655	1.632	34.9	19.2	71 E	61*	27*
2 11	1 23.18	+22 5.8	1.763	1.645	33.4	19.3	67 E	58*	24*
2 21	1 45.91	+23 34.8	1.866	1.655	31.9	19.4	62 E	55*	21*
3 2	2 9.21	+24 59.8	1.963	1.661	30.3	19.5	58 E	51*	19*
3 12	2 33.08	+26 19.2	2.052	1.663	28.7	19.5	53 E	47*	17*
3 22	2 57.58	+27 31.1	2.133	1.662	27.0	19.6	49 E	43*	16*
4 1	3 22.73	+28 34.1	2.206	1.658	25.2	19.6	45 E	38*	15*
4 11	3 48.52	+29 26.3	2.270	1.650	23.5	19.6	41 E	34*	13*
4 21	4 14.93	+30 6.0	2.324	1.638	21.7	19.6	37 E	30*	12*
5 1	4 41.94	+30 31.5	2.369	1.623	19.9	19.5	33 E	26*	11*
5 11	5 9.47	+30 41.3	2.404	1.604	18.1	19.5	30 E	22*	10*
5 21	5 37.46	+30 33.9	2.428	1.581	16.3	19.4	26 E	18*	9*
5 31	6 5.82	+30 7.9	2.443	1.555	14.4	19.3	23 E	14*	8*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		1620 Geographos				*(continuation)*			
	h m	° ′			°	m	°	°	°
6 10	6 34.43	+29 22.2	2.447	1.526	12.6	19.2	19 E	10*	7*
6 20	7 3.22	+28 15.8	2.442	1.493	10.9	19.1	16 E	7*	5*
6 30	7 32.11	+26 47.9	2.428	1.456	9.1	19.0	13 E	5*	3*
7 10	8 1.05	+24 57.8	2.405	1.416	7.4	18.8	10 E	2*	2*
7 20	8 30.04	+22 44.9	2.373	1.373	5.7	18.6	8 E	—	—
7 30	8 59.10	+20 9.0	2.334	1.327	4.1	18.4	5 E	—	—
8 9	9 28.33	+17 9.7	2.289	1.278	2.5	18.2	3 E	—	—
8 19	9 57.87	+13 46.8	2.238	1.227	1.2	18.0	1 E	—	—
8 29	10 27.96	+10 0.8	2.183	1.173	0.8	17.8	1 W	—	—
9 8	10 58.87	+ 5 52.3	2.125	1.119	1.8	17.7	2 W	—	—
9 18	11 31.02	+ 1 23.0	2.066	1.064	2.8	17.6	3 W	—	—
9 28	12 4.89	− 3 23.7	2.008	1.010	3.6	17.5	4 W	—	—
10 3	12 22.66	− 5 52.0	1.980	0.984	4.0	17.4	4 W	—	—
10 8	12 41.10	− 8 22.1	1.953	0.959	4.4	17.4	4 W	—	—
10 13	13 0.30	−10 53.0	1.927	0.935	4.8	17.3	4 W	—	—
10 18	13 20.37	−13 22.9	1.903	0.913	5.1	17.2	5 W	—	—
10 23	13 41.37	−15 50.1	1.880	0.893	5.6	17.2	5 W	—	—
10 28	14 3.40	−18 12.2	1.859	0.875	6.1	17.1	5 W	—	—
11 2	14 26.51	−20 26.8	1.841	0.859	6.7	17.1	6 W	—	—
11 7	14 50.74	−22 31.0	1.824	0.846	7.3	17.1	6 E	—	—
11 12	15 16.07	−24 22.0	1.811	0.837	8.1	17.1	7 E	—	—
11 17	15 42.43	−25 56.9	1.800	0.831	9.0	17.1	8 E	—	—
11 22	16 9.67	−27 13.0	1.793	0.828	9.9	17.1	8 E	—	1*
11 27	16 37.57	−28 8.0	1.788	0.829	10.9	17.1	9 E	—	3*
12 2	17 5.87	−28 40.5	1.787	0.833	11.8	17.2	10 E	—	4*
12 7	17 34.25	−28 49.7	1.789	0.841	12.7	17.2	11 E	—	5*
12 12	18 2.40	−28 35.9	1.794	0.853	13.4	17.3	12 E	—	6*
12 17	18 30.01	−28 0.3	1.802	0.867	14.1	17.4	12 E	—	6*
12 22	18 56.84	−27 4.6	1.814	0.884	14.6	17.4	13 E	—	7*
12 27	19 22.68	−25 51.1	1.828	0.903	14.9	17.5	14 E	1*	7*
1 1	19 47.43	−24 22.5	1.846	0.925	15.1	17.6	14 E	2*	7*
1 6	20 11.03	−22 41.4	1.866	0.948	15.2	17.7	15 E	3*	7*
1 11	20 33.48	−20 50.5	1.889	0.972	15.1	17.8	15 E	5*	7*
1 16	20 54.81	−18 52.0	1.914	0.998	14.9	17.8	15 E	5*	6*
		378610 2008 FT_6							
12 23	23 36.37	− 4 30.9	1.179	1.430	43.0	20.2	82 E	40	57*
1 2	23 53.55	− 0 37.6	1.210	1.384	43.9	20.2	78 E	44	49*
1 12	0 13.17	+ 3 26.4	1.236	1.343	44.6	20.2	73 E	48*	43*
1 22	0 35.17	+ 7 38.8	1.259	1.306	45.1	20.2	70 E	51*	37*
2 1	0 59.62	+11 56.5	1.279	1.275	45.4	20.2	67 E	53*	32*
2 11	1 26.66	+16 15.0	1.296	1.251	45.5	20.2	65 E	54*	28*
2 21	1 56.52	+20 27.8	1.314	1.235	45.5	20.2	63 E	54*	25*
2 26	2 12.59	+22 29.8	1.323	1.229	45.5	20.2	62 E	54*	24*
3 2	2 29.46	+24 27.3	1.332	1.226	45.4	20.2	62 E	54*	23*
3 7	2 47.15	+26 19.0	1.342	1.225	45.2	20.2	61 E	54*	22*
3 12	3 5.64	+28 3.5	1.353	1.226	45.0	20.2	61 E	53*	21*
3 17	3 24.94	+29 39.5	1.365	1.229	44.7	20.2	60 E	53*	21*
3 22	3 45.01	+31 5.6	1.379	1.234	44.4	20.3	60 E	53*	20*
3 27	4 5.79	+32 20.4	1.394	1.242	44.0	20.3	60 E	53*	20*
4 1	4 27.20	+33 22.9	1.412	1.251	43.6	20.3	60 E	52*	20*
4 6	4 49.09	+34 11.9	1.431	1.262	43.1	20.3	59 E	52*	21*
4 11	5 11.32	+34 46.8	1.452	1.275	42.5	20.4	59 E	52*	21*
4 16	5 33.72	+35 7.1	1.475	1.289	41.9	20.4	59 E	51*	22*
4 21	5 56.11	+35 12.9	1.501	1.305	41.2	20.5	59 E	50*	22*
4 26	6 18.32	+35 4.4	1.530	1.323	40.5	20.5	59 E	50*	23*
5 1	6 40.18	+34 42.3	1.560	1.342	39.7	20.6	58 E	49*	24*
5 6	7 1.54	+34 7.5	1.594	1.362	38.9	20.6	58 E	47*	25*
5 11	7 22.27	+33 21.2	1.630	1.383	38.1	20.7	58 E	46*	26*
5 16	7 42.31	+32 24.5	1.668	1.405	37.2	20.8	57 E	44*	27*
5 21	8 1.59	+31 18.9	1.709	1.428	36.3	20.8	57 E	43*	28*
5 26	8 20.09	+30 5.7	1.752	1.453	35.3	20.9	56 E	41*	29*
5 31	8 37.81	+28 46.2	1.797	1.477	34.4	20.9	55 E	39*	30*
6 5	8 54.76	+27 21.5	1.844	1.503	33.4	21.0	55 E	36*	31*
6 10	9 10.97	+25 52.8	1.893	1.529	32.3	21.1	54 E	34*	32*
6 15	9 26.48	+24 21.1	1.944	1.555	31.3	21.1	53 E	32*	33*
6 20	9 41.34	+22 47.1	1.996	1.582	30.3	21.2	52 E	30*	34*
6 25	9 55.59	+21 11.7	2.050	1.609	29.2	21.3	51 E	28*	34*
6 30	10 9.29	+19 35.4	2.104	1.636	28.1	21.3	49 E	26*	35*
7 5	10 22.47	+17 58.8	2.160	1.664	27.1	21.4	48 E	24*	35*
7 10	10 35.18	+16 22.4	2.217	1.691	26.0	21.5	47 E	22*	35*
		303142 2004 DU_{24}							
12 23	23 36.51	− 3 23.4	1.172	1.431	43.0	18.7	83 E	42	56*
1 2	23 59.18	− 0 18.3	1.206	1.402	43.5	18.7	79 E	45	50*
1 12	0 23.94	+ 2 58.5	1.240	1.380	43.7	18.8	76 E	48*	45*
1 22	0 50.63	+ 6 22.5	1.276	1.364	43.6	18.8	73 E	51*	41*
2 1	1 19.18	+ 9 48.5	1.313	1.356	43.3	18.8	71 E	53*	37*
2 11	1 49.46	+13 10.5	1.355	1.355	42.7	18.9	69 E	54*	34*
2 21	2 21.37	+16 21.6	1.402	1.362	41.9	18.9	67 E	54*	32*
3 2	2 54.73	+19 15.3	1.455	1.377	40.9	19.0	65 E	54*	31*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		303142 2004 DU_{24}				*(continuation)*			
	h m	° ′			°	m	°	°	°
3 12	3 29.28	+21 45.2	1.515	1.398	39.6	19.1	64 E	53*	30*
3 22	4 4.64	+23 46.3	1.584	1.426	38.2	19.2	62 E	52*	29*
4 1	4 40.38	+25 15.6	1.661	1.459	36.6	19.3	61 E	50*	29*
4 6	4 58.23	+25 47.8	1.702	1.478	35.8	19.4	60 E	49*	29*
4 11	5 15.98	+26 11.6	1.746	1.498	34.9	19.4	59 E	48*	29*
4 16	5 33.57	+26 27.3	1.791	1.519	34.1	19.5	58 E	46*	29*
4 21	5 50.95	+26 35.1	1.838	1.541	33.1	19.6	57 E	45*	29*
4 26	6 8.07	+26 35.4	1.887	1.564	32.2	19.6	56 E	43*	29*
5 1	6 24.89	+26 28.4	1.938	1.588	31.2	19.7	55 E	41*	29*
5 6	6 41.35	+26 14.8	1.990	1.612	30.3	19.7	54 E	39*	30*
5 11	6 57.44	+25 54.9	2.043	1.638	29.3	19.8	52 E	37*	30*
5 16	7 13.13	+25 29.3	2.098	1.663	28.3	19.9	51 E	35*	30*
5 21	7 28.42	+24 58.5	2.154	1.690	27.3	19.9	50 E	33*	30*
5 26	7 43.29	+24 23.0	2.210	1.717	26.3	20.0	49 E	31*	30*
5 31	7 57.75	+23 43.3	2.268	1.744	25.2	20.0	47 E	28*	30*
6 5	8 11.79	+22 59.9	2.326	1.771	24.2	20.1	46 E	26*	30*
6 10	8 25.42	+22 13.2	2.384	1.799	23.1	20.2	44 E	24*	30*
6 20	8 51.51	+20 31.6	2.501	1.856	21.0	20.3	41 E	20*	29*
6 30	9 16.15	+18 41.4	2.618	1.913	18.8	20.4	37 E	16*	27*
7 10	9 39.45	+16 45.3	2.733	1.971	16.7	20.4	34 E	12*	25*
7 20	10 1.56	+14 45.1	2.844	2.028	14.5	20.5	30 E	9*	22*
7 30	10 22.61	+12 42.6	2.951	2.086	12.3	20.6	26 E	7*	19*
8 9	10 42.72	+10 39.2	3.052	2.143	10.1	20.6	22 E	4*	15*
8 19	11 2.01	+ 8 36.1	3.145	2.200	7.9	20.7	17 E	2*	11*
8 29	11 20.57	+ 6 34.1	3.230	2.256	5.7	20.7	13 E	1*	6*
9 8	11 38.48	+ 4 34.3	3.305	2.311	3.5	20.7	8 E	—	2*
9 18	11 55.82	+ 2 37.3	3.369	2.366	1.4	20.6	3 E	—	—
9 28	12 12.62	+ 0 43.6	3.420	2.420	1.3	20.7	3 W	—	—
10 8	12 28.91	− 1 5.9	3.459	2.473	3.2	20.9	8 W	2*	—
10 18	12 44.73	− 2 51.0	3.483	2.525	5.3	21.1	14 W	7*	1*
10 28	13 0.06	− 4 30.9	3.494	2.577	7.3	21.2	19 W	12*	6*
11 7	13 14.89	− 6 5.2	3.489	2.627	9.3	21.3	25 W	17*	10*
11 17	13 29.18	− 7 33.5	3.469	2.676	11.1	21.4	31 W	21*	15*
		380160 2000 JO_{78}							
12 23	23 36.52	+ 6 38.2	1.512	1.757	34.0	21.0	87 E	52	49*
1 2	23 57.84	+ 8 27.7	1.663	1.813	32.5	21.3	82 E	53	44*
1 12	0 18.73	+10 15.1	1.817	1.870	30.9	21.5	78 E	55*	39*
1 22	0 39.25	+12 0.0	1.973	1.926	29.2	21.7	73 E	56*	35*
2 1	0 59.52	+13 42.0	2.130	1.981	27.4	21.9	68 E	54*	31*
		20786 2000 RG_{62}							
12 23	23 36.82	−10 16.3	1.923	2.004	28.9	18.8	80 E	35	61*
1 2	23 53.27	− 8 2.6	2.060	2.034	27.8	18.9	75 E	37	54*
1 12	0 10.07	− 5 48.0	2.196	2.063	26.5	19.1	69 E	39*	48*
1 22	0 27.14	− 3 33.7	2.331	2.092	25.0	19.2	64 E	40*	42*
2 1	0 44.43	− 1 20.8	2.462	2.122	23.3	19.3	59 E	39*	37*
2 11	1 1.92	+ 0 49.7	2.589	2.151	21.6	19.4	53 E	37*	33*
2 21	1 19.58	+ 2 56.8	2.711	2.180	19.8	19.4	48 E	35*	29*
3 2	1 37.40	+ 4 59.7	2.827	2.208	17.8	19.5	43 E	31*	25*
3 12	1 55.37	+ 6 57.6	2.935	2.236	15.8	19.5	38 E	27*	22*
3 22	2 13.48	+ 8 49.6	3.036	2.264	13.8	19.6	33 E	22*	18*
4 1	2 31.73	+10 35.2	3.127	2.291	11.7	19.6	28 E	18*	15*
4 11	2 50.09	+12 13.7	3.209	2.318	9.7	19.6	23 E	13*	12*
4 21	3 8.55	+13 44.6	3.280	2.344	7.5	19.6	18 E	8*	9*
5 1	3 27.09	+15 7.5	3.340	2.369	5.5	19.5	13 E	3*	5*
5 11	3 45.67	+16 21.9	3.389	2.394	3.4	19.5	8 E	—	2*
5 21	4 4.27	+17 27.6	3.426	2.418	1.7	19.4	4 E	—	—
5 31	4 22.84	+18 24.5	3.451	2.441	1.7	19.4	4 W	—	—
6 10	4 41.33	+19 12.5	3.463	2.463	3.5	19.6	8 W	—	2*
6 20	4 59.67	+19 51.6	3.463	2.485	5.4	19.7	13 W	—	7*
6 30	5 17.81	+20 22.0	3.449	2.506	7.4	19.8	18 W	3*	11*
7 10	5 35.66	+20 44.0	3.423	2.526	9.3	19.9	24 W	8*	15*
7 20	5 53.17	+20 57.9	3.384	2.545	11.2	20.0	29 W	14*	19*
7 30	6 10.23	+21 4.5	3.332	2.563	13.0	20.0	35 W	20*	22*
8 9	6 26.76	+21 4.3	3.268	2.581	14.7	20.1	40 W	26*	25*
8 19	6 42.66	+20 58.2	3.192	2.597	16.4	20.1	46 W	33*	27*
8 29	6 57.82	+20 47.2	3.104	2.613	17.8	20.1	52 W	39*	30*
9 8	7 12.10	+20 32.4	3.006	2.628	19.1	20.1	59 W	45*	32*
9 18	7 25.39	+20 15.3	2.899	2.641	20.2	20.0	65 W	51*	35*
9 28	7 37.49	+19 57.2	2.783	2.654	21.1	20.0	72 W	57*	37*
10 8	7 48.24	+19 40.0	2.661	2.666	21.6	19.9	80 W	61*	39*
10 18	7 57.41	+19 25.5	2.533	2.677	21.8	19.8	87 W	64*	41*
10 28	8 4.73	+19 15.7	2.404	2.687	21.6	19.7	95 W	64	43*
11 7	8 9.93	+19 12.8	2.275	2.697	20.9	19.6	104 W	64	44*
11 17	8 12.69	+19 18.8	2.151	2.705	19.6	19.4	114 W	64	45
11 27	8 12.72	+19 35.4	2.035	2.712	17.6	19.2	124 W	65	44
12 7	8 9.81	+20 3.1	1.933	2.718	14.9	19.0	135 W	65	44
12 17	8 3.92	+20 41.3	1.849	2.724	11.5	18.8	146 W	66	43
12 27	7 55.32	+21 27.5	1.788	2.728	7.5	18.6	159 W	66	43

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		20786 2000 RG_{62}			*(continuation)*				
	h m	° ′			°	m	°	°	°
1 1	7 50.21	+21 52.3	1.768	2.730	5.3	18.5	165 W	67	42
1 6	7 44.70	+22 17.4	1.755	2.731	3.1	18.3	171 W	67	42
1 11	7 38.95	+22 42.2	1.750	2.733	0.8	18.1	178 W	68	41
1 16	7 33.10	+23 6.0	1.752	2.734	1.7	18.2	175 E	68	41
		100553 Dariofo							
12 23	23 37.38	− 4 50.7	1.963	2.075	28.0	20.8	82 E	40	57*
1 2	23 49.77	− 2 49.3	2.083	2.074	27.4	20.9	76 E	42	50*
1 12	0 3.33	− 0 44.2	2.199	2.071	26.4	21.0	70 E	44*	44*
1 22	0 17.88	+ 1 23.7	2.309	2.068	25.2	21.1	64 E	44*	38*
2 1	0 33.31	+ 3 33.5	2.413	2.063	23.8	21.1	58 E	43*	32*
2 11	0 49.51	+ 5 44.4	2.509	2.057	22.3	21.1	52 E	40*	27*
2 21	1 6.43	+ 7 55.5	2.596	2.050	20.6	21.1	47 E	37*	23*
3 2	1 24.05	+10 5.7	2.674	2.042	18.8	21.1	42 E	33*	20*
3 12	1 42.33	+12 14.1	2.743	2.033	16.9	21.1	37 E	28*	16*
3 22	2 1.28	+14 19.6	2.802	2.023	15.0	21.1	32 E	24*	13*
4 1	2 20.93	+16 21.2	2.851	2.012	13.0	21.1	27 E	20*	10*
4 11	2 41.27	+18 17.7	2.889	1.999	11.0	21.0	22 E	15*	7*
4 21	3 2.33	+20 7.8	2.918	1.986	9.0	20.9	18 E	11*	4*
5 1	3 24.14	+21 50.5	2.936	1.972	7.0	20.8	14 E	7*	2*
5 11	3 46.69	+23 24.3	2.945	1.957	5.0	20.7	10 E	3*	—
5 21	4 10.00	+24 48.0	2.944	1.941	3.3	20.6	6 E	—	—
5 31	4 34.05	+26 0.4	2.935	1.925	2.2	20.5	4 E	—	—
6 10	4 58.80	+27 0.0	2.916	1.907	2.8	20.5	5 W	—	—
6 20	5 24.21	+27 45.8	2.889	1.889	4.4	20.6	8 W	2*	—
6 30	5 50.21	+28 16.7	2.855	1.870	6.3	20.6	12 W	4*	1*
7 10	6 16.69	+28 31.7	2.813	1.851	8.2	20.7	15 W	8*	3*
7 20	6 43.54	+28 30.2	2.765	1.831	10.2	20.7	19 W	11*	5*
7 30	7 10.66	+28 11.6	2.710	1.810	12.2	20.7	22 W	15*	7*
8 9	7 37.89	+27 35.8	2.650	1.790	14.2	20.7	26 W	18*	8*
8 19	8 5.14	+26 42.9	2.584	1.769	16.1	20.7	29 W	22*	9*
8 29	8 32.29	+25 33.4	2.514	1.747	18.0	20.7	32 W	25*	11*
9 8	8 59.24	+24 8.0	2.441	1.726	19.9	20.6	36 W	29*	12*
9 18	9 25.95	+22 27.6	2.364	1.705	21.8	20.6	39 W	32*	13*
9 28	9 52.37	+20 33.4	2.284	1.684	23.6	20.5	42 W	35*	15*
10 8	10 18.47	+18 26.9	2.202	1.663	25.4	20.5	46 W	38*	16*
10 18	10 44.28	+16 9.6	2.118	1.643	27.2	20.4	49 W	41*	18*
10 28	11 9.79	+13 43.1	2.033	1.623	28.9	20.4	52 W	44*	21*
11 7	11 35.06	+11 9.3	1.947	1.605	30.5	20.3	55 W	46*	23*
11 17	12 0.12	+ 8 29.8	1.861	1.587	32.1	20.2	59 W	47*	27*
11 27	12 24.99	+ 5 46.6	1.774	1.570	33.6	20.1	62 W	47*	31*
12 7	12 49.73	+ 3 1.5	1.688	1.555	35.1	20.0	65 W	46*	35*
12 17	13 14.36	+ 0 16.2	1.602	1.541	36.4	19.9	68 W	45*	41*
12 27	13 38.87	− 2 27.4	1.517	1.528	37.7	19.8	72 W	42*	46*
1 6	14 3.25	− 5 8.0	1.434	1.517	38.8	19.7	75 W	40	52*
1 16	14 27.45	− 7 44.4	1.351	1.509	39.8	19.6	79 W	37	58*
		474538 2003 WT_{21}							
12 23	23 37.80	+20 57.4	1.421	1.769	33.7	19.9	93 E	66	37*
1 2	0 3.28	+18 46.0	1.537	1.792	33.3	20.1	88 E	64	36*
1 12	0 27.91	+17 4.7	1.661	1.817	32.5	20.3	82 E	62*	35*
1 22	0 51.73	+15 48.9	1.793	1.843	31.4	20.4	77 E	60*	34*
2 1	1 14.85	+14 54.0	1.928	1.869	30.0	20.6	72 E	57*	33*
2 11	1 37.36	+14 15.4	2.064	1.897	28.5	20.7	66 E	53*	31*
2 21	1 59.34	+13 48.9	2.199	1.926	26.7	20.8	61 E	49*	30*
3 2	2 20.91	+13 30.7	2.331	1.955	24.8	20.9	56 E	44*	29*
3 12	2 42.11	+13 17.7	2.459	1.984	22.8	21.0	51 E	39*	27*
3 22	3 3.02	+13 7.1	2.580	2.014	20.7	21.1	46 E	34*	26*
4 1	3 23.67	+12 56.5	2.694	2.044	18.6	21.2	41 E	28*	25*
4 11	3 44.09	+12 43.9	2.799	2.074	16.5	21.2	36 E	22*	23*
4 21	4 4.30	+12 27.7	2.895	2.103	14.4	21.2	31 E	17*	21*
5 1	4 24.30	+12 6.4	2.981	2.133	12.4	21.3	27 E	10*	19*
5 11	4 44.08	+11 38.9	3.056	2.163	10.5	21.3	23 E	4*	16*
5 21	5 3.64	+11 4.1	3.119	2.192	8.9	21.3	20 E	—	14*
5 31	5 22.96	+10 21.4	3.172	2.220	7.6	21.3	17 E	—	10*
6 10	5 41.99	+ 9 30.0	3.213	2.249	6.8	21.3	15 E	—	6*
6 20	6 0.72	+ 8 29.6	3.243	2.277	6.6	21.3	15 E	—	2*
6 30	6 19.12	+ 7 19.6	3.261	2.304	7.2	21.4	16 W	—	5*
7 10	6 37.14	+ 6 0.0	3.269	2.331	8.1	21.5	19 W	—	10*
		6170 Levasseur							
12 23	23 38.50	+ 3 50.6	1.938	2.112	27.7	17.7	86 E	49	51*
1 2	23 47.88	+ 5 50.6	2.026	2.075	27.7	17.8	79 E	51	44*
1 12	23 59.24	+ 7 58.5	2.109	2.037	27.4	17.8	72 E	52*	37*
1 22	0 12.34	+10 13.6	2.185	1.999	26.7	17.8	66 E	52*	31*
2 1	0 27.07	+12 35.1	2.254	1.962	25.9	17.8	60 E	50*	26*
2 11	0 43.31	+15 1.9	2.314	1.926	24.8	17.8	55 E	47*	21*
2 21	1 1.04	+17 32.6	2.366	1.890	23.7	17.8	50 E	43*	17*
3 2	1 20.27	+20 6.0	2.410	1.856	22.4	17.7	46 E	39*	13*
3 12	1 41.05	+22 40.1	2.445	1.822	21.1	17.7	41 E	35*	10*
3 22	2 3.46	+25 12.6	2.473	1.790	19.8	17.6	38 E	32*	8*
4 1	2 27.62	+27 40.8	2.495	1.759	18.6	17.6	34 E	28*	5*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		6170 Levasseur			*(continuation)*				
	h m	° ′			°	m	°	°	°
4 11	2 53.62	+30 1.3	2.510	1.731	17.4	17.5	31 E	25*	3*
4 21	3 21.56	+32 10.5	2.521	1.705	16.2	17.4	28 E	22*	2*
5 1	3 51.49	+34 4.0	2.529	1.681	15.2	17.4	26 E	20*	1*
5 11	4 23.32	+35 37.2	2.533	1.659	14.2	17.3	24 E	18*	—
5 21	4 56.87	+36 45.4	2.537	1.641	13.3	17.3	22 E	16*	—
5 26	5 14.19	+37 8.8	2.539	1.633	12.8	17.2	21 E	15*	—
5 31	5 31.80	+37 24.5	2.540	1.626	12.4	17.2	20 E	14*	—
6 5	5 49.62	+37 32.1	2.542	1.620	12.0	17.2	19 E	13*	—
6 10	6 7.57	+37 31.3	2.544	1.614	11.6	17.2	19 E	13*	—
6 15	6 25.60	+37 22.0	2.546	1.609	11.2	17.2	18 E	12*	—
6 20	6 43.61	+37 4.2	2.548	1.606	10.8	17.1	17 E	11*	—
6 25	7 1.52	+36 37.8	2.551	1.603	10.4	17.1	17 E	11*	—
6 30	7 19.26	+36 3.1	2.555	1.601	10.0	17.1	16 E	10*	—
7 5	7 36.76	+35 20.4	2.559	1.600	9.6	17.1	15 E	9*	—
7 10	7 53.96	+34 30.1	2.563	1.600	9.2	17.1	15 E	9*	—
7 15	8 10.82	+33 32.5	2.568	1.601	8.9	17.1	14 E	8*	—
7 20	8 27.30	+32 28.2	2.573	1.603	8.5	17.1	13 E	7*	—
7 30	8 59.02	+30 1.9	2.585	1.609	7.8	17.1	12 E	6*	—
8 9	9 29.00	+27 15.8	2.598	1.619	7.3	17.1	12 E	5*	—
8 19	9 57.30	+24 14.4	2.611	1.632	7.1	17.1	11 E	3*	—
8 29	10 24.00	+21 2.2	2.624	1.648	7.2	17.1	12 W	4*	—
9 8	10 49.25	+17 43.0	2.636	1.668	7.7	17.2	13 W	6*	—
9 18	11 13.22	+14 20.0	2.645	1.691	8.5	17.2	14 W	8*	—
9 28	11 36.09	+10 55.9	2.651	1.716	9.7	17.3	17 W	11*	—
10 8	11 57.99	+ 7 33.2	2.652	1.743	11.0	17.4	20 W	14*	1*
10 18	12 19.07	+ 4 13.3	2.648	1.772	12.6	17.5	23 W	17*	4*
10 28	12 39.43	+ 0 57.8	2.638	1.803	14.2	17.6	26 W	20*	8*
11 7	12 59.14	− 2 12.4	2.620	1.836	15.9	17.7	30 W	22*	12*
11 17	13 18.28	− 5 16.6	2.594	1.870	17.6	17.8	35 W	25*	17*
11 27	13 36.84	− 8 14.1	2.560	1.905	19.2	17.8	40 W	27*	22*
12 7	13 54.83	−11 4.9	2.518	1.941	20.8	17.9	44 W	28*	28*
12 17	14 12.22	−13 49.1	2.467	1.978	22.3	17.9	50 W	28*	35*
12 27	14 28.91	−16 26.7	2.407	2.015	23.6	17.9	55 W	27*	42*
1 6	14 44.78	−18 58.3	2.340	2.053	24.8	18.0	61 W	25*	49*
1 16	14 59.68	−21 24.8	2.265	2.091	25.7	18.0	67 W	23*	57*
		6261 Chione							
12 23	23 38.92	−17 8.9	1.842	1.900	30.4	18.2	78 E	28	65*
1 2	23 54.59	−15 52.8	1.909	1.860	30.2	18.3	72 E	29	58*
1 12	0 11.86	−14 22.6	1.969	1.821	29.7	18.3	67 E	30*	52*
1 22	0 30.53	−12 40.2	2.023	1.783	29.1	18.3	62 E	31*	47*
2 1	0 50.48	−10 47.4	2.069	1.746	28.3	18.2	57 E	31*	43*
2 11	1 11.61	− 8 46.1	2.110	1.711	27.5	18.2	53 E	30*	40*
2 21	1 33.85	− 6 38.3	2.144	1.679	26.6	18.2	49 E	28*	37*
3 2	1 57.18	− 4 25.9	2.173	1.648	25.7	18.1	46 E	26*	34*
3 12	2 21.55	− 2 11.3	2.198	1.621	24.7	18.1	43 E	24*	32*
3 22	2 46.95	+ 0 3.1	2.220	1.596	23.8	18.1	40 E	22*	30*
4 1	3 13.38	+ 2 14.5	2.241	1.576	22.9	18.0	38 E	19*	28*
4 11	3 40.76	+ 4 20.0	2.261	1.558	21.9	18.0	36 E	16*	27*
4 21	4 9.06	+ 6 16.8	2.282	1.545	21.0	18.0	33 E	13*	25*
5 1	4 38.16	+ 8 2.0	2.305	1.536	19.9	17.9	31 E	10*	24*
5 11	5 7.94	+ 9 32.8	2.330	1.531	18.8	17.9	29 E	7*	23*
5 21	5 38.21	+10 47.1	2.359	1.531	17.6	17.9	27 E	4*	21*
5 31	6 8.79	+11 43.2	2.390	1.535	16.3	17.9	25 E	1*	19*
6 10	6 39.44	+12 20.2	2.425	1.543	14.9	17.9	23 E	—	17*
6 20	7 9.94	+12 37.8	2.463	1.556	13.4	17.9	21 E	—	15*
6 30	7 40.10	+12 36.6	2.504	1.572	11.8	17.9	18 E	—	12*
7 10	8 9.71	+12 17.8	2.546	1.593	10.1	17.9	16 E	—	10*
7 20	8 38.66	+11 43.2	2.589	1.616	8.3	17.9	13 E	—	7*
7 30	9 6.83	+10 54.9	2.632	1.643	6.4	17.9	10 E	—	4*
8 9	9 34.17	+ 9 55.1	2.674	1.673	4.5	17.8	7 E	—	1*
8 19	10 0.66	+ 8 46.2	2.713	1.705	2.6	17.8	4 E	—	—
8 29	10 26.32	+ 7 30.6	2.749	1.740	1.2	17.8	2 W	—	—
9 8	10 51.17	+ 6 10.6	2.780	1.776	2.2	17.9	4 W	—	—
9 18	11 15.26	+ 4 48.3	2.806	1.814	4.1	18.1	7 W	1*	—
9 28	11 38.64	+ 3 25.7	2.825	1.853	6.1	18.3	11 W	5*	1*
10 8	12 1.34	+ 2 4.9	2.837	1.893	8.1	18.4	16 W	9*	2*
10 18	12 23.41	+ 0 47.4	2.840	1.934	10.1	18.6	20 W	13*	5*
10 28	12 44.88	− 0 24.9	2.835	1.975	12.1	18.7	25 W	18*	7*
11 7	13 5.75	− 1 30.5	2.820	2.017	14.0	18.8	29 W	22*	10*
11 17	13 26.02	− 2 28.0	2.796	2.059	15.8	18.9	34 W	26*	14*
11 27	13 45.65	− 3 15.8	2.762	2.101	17.5	18.9	40 W	30*	18*
12 7	14 4.60	− 3 52.7	2.718	2.142	19.1	19.0	45 W	33*	23*
12 17	14 22.78	− 4 17.5	2.665	2.184	20.5	19.0	51 W	36*	28*
12 27	14 40.08	− 4 28.9	2.602	2.225	21.8	19.1	57 W	38*	34*
1 6	14 56.37	− 4 26.1	2.532	2.266	22.8	19.1	63 W	39*	41*
1 16	15 11.48	− 4 8.1	2.454	2.306	23.6	19.1	70 W	40*	47*

337371 2001 QL_3

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 23	23 39.75	− 9 46.7	1.603	1.744	33.9	20.7	81 E	35	61*
1 2	0 0.90	− 7 18.8	1.716	1.769	32.7	20.9	77 E	38	55*
1 12	0 22.07	− 4 48.5	1.832	1.797	31.4	21.0	72 E	40*	50*
1 22	0 43.22	− 2 18.5	1.950	1.826	30.0	21.2	68 E	42*	45*
2 1	1 4.37	+ 0 9.5	2.069	1.857	28.4	21.3	64 E	42*	41*
2 11	1 25.52	+ 2 33.5	2.188	1.889	26.7	21.4	59 E	42*	37*
2 21	1 46.66	+ 4 51.8	2.307	1.922	25.0	21.5	55 E	40*	33*

235041 2003 FA_{55}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 40.12	−10 49.3	2.167	2.230	25.8	20.7	81 E	34	62*
1 2	23 49.51	− 8 15.1	2.257	2.194	25.5	20.7	74 E	37	53*
1 12	0 0.53	− 5 37.0	2.342	2.157	24.8	20.8	67 E	39*	46*
1 22	0 12.95	− 2 55.7	2.420	2.121	23.9	20.8	61 E	39*	39*
2 1	0 26.63	− 0 11.4	2.491	2.085	22.7	20.8	55 E	38*	33*
2 11	0 41.45	+ 2 35.1	2.554	2.049	21.4	20.7	49 E	36*	27*
2 21	0 57.35	+ 5 23.5	2.607	2.013	19.9	20.7	44 E	33*	23*
3 2	1 14.31	+ 8 12.9	2.651	1.977	18.3	20.6	39 E	30*	18*
3 12	1 32.31	+11 2.6	2.687	1.942	16.6	20.6	34 E	26*	15*
3 22	1 51.40	+13 51.5	2.713	1.907	14.8	20.5	29 E	22*	11*
4 1	2 11.65	+16 38.4	2.731	1.874	13.1	20.4	25 E	18*	8*
4 11	2 33.12	+19 21.8	2.740	1.842	11.3	20.3	21 E	15*	5*
4 21	2 55.91	+21 59.9	2.743	1.810	9.7	20.2	18 E	11*	2*
5 1	3 20.14	+24 30.5	2.739	1.781	8.1	20.1	14 E	8*	—
5 11	3 45.87	+26 51.0	2.729	1.753	6.8	20.0	12 E	6*	—
5 21	4 13.21	+28 58.6	2.715	1.727	5.9	19.9	10 E	4*	—
5 31	4 42.16	+30 50.2	2.697	1.704	5.5	19.9	9 E	2*	—
6 10	5 12.67	+32 22.2	2.676	1.682	5.6	19.8	9 W	2*	—
6 20	5 44.62	+33 31.2	2.654	1.664	6.3	19.8	10 W	4*	—
6 30	6 17.73	+34 14.4	2.630	1.649	7.3	19.8	12 W	5*	—
7 10	6 51.65	+34 29.3	2.607	1.636	8.4	19.8	14 W	7*	—
7 20	7 25.93	+34 14.5	2.585	1.627	9.5	19.8	15 W	9*	—
7 30	8 0.09	+33 30.3	2.563	1.621	10.7	19.9	17 W	11*	—
8 9	8 33.68	+32 17.7	2.543	1.619	11.8	19.9	19 W	13*	—
8 19	9 6.34	+30 39.4	2.524	1.620	12.9	19.9	21 W	15*	—
8 29	9 37.79	+28 38.8	2.506	1.624	14.0	19.9	23 W	16*	—
9 8	10 7.87	+26 19.9	2.489	1.632	15.1	20.0	25 W	18*	—
9 18	10 36.54	+23 47.0	2.473	1.643	16.2	20.0	27 W	21*	—
9 28	11 3.80	+21 4.3	2.455	1.658	17.3	20.1	29 W	23*	—
10 8	11 29.72	+18 15.6	2.437	1.675	18.4	20.1	32 W	26*	2*
10 18	11 54.40	+15 24.4	2.416	1.695	19.6	20.1	35 W	29*	4*
10 28	12 17.90	+12 33.8	2.391	1.718	20.8	20.2	38 W	32*	7*
11 7	12 40.32	+ 9 46.3	2.362	1.743	22.0	20.2	41 W	35*	11*
11 17	13 1.73	+ 7 3.8	2.328	1.770	23.2	20.3	45 W	37*	15*
11 27	13 22.14	+ 4 28.1	2.288	1.799	24.4	20.3	49 W	40*	19*
12 7	13 41.57	+ 2 0.3	2.241	1.829	25.5	20.3	53 W	41*	25*
12 17	13 59.98	− 0 18.8	2.187	1.861	26.6	20.3	58 W	42*	31*
12 27	14 17.27	− 2 28.7	2.126	1.894	27.5	20.4	63 W	41*	38*
1 6	14 33.34	− 4 29.6	2.058	1.928	28.3	20.3	69 W	40*	46*
1 16	14 48.02	− 6 21.6	1.983	1.963	28.9	20.3	74 W	39*	53*

306479 1999 SE_{16}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 40.15	− 0 55.6	1.413	1.643	36.6	20.0	85 E	44	55*
1 2	0 3.41	− 0 9.4	1.494	1.639	36.2	20.1	80 E	45	51*
1 12	0 27.41	+ 0 52.6	1.576	1.639	35.6	20.2	76 E	46*	47*
1 22	0 51.96	+ 2 6.3	1.661	1.643	34.7	20.3	72 E	46*	44*
2 1	1 16.94	+ 3 28.0	1.747	1.650	33.6	20.4	68 E	46*	41*
2 11	1 42.24	+ 4 54.0	1.834	1.661	32.3	20.5	64 E	45*	39*
2 21	2 7.76	+ 6 21.0	1.923	1.676	30.9	20.6	61 E	44*	37*
3 2	2 33.47	+ 7 45.8	2.013	1.694	29.4	20.6	57 E	42*	35*
3 12	2 59.30	+ 9 5.7	2.103	1.716	27.9	20.7	54 E	39*	33*
3 22	3 25.17	+10 18.2	2.195	1.740	26.2	20.8	51 E	35*	32*
4 1	3 51.05	+11 21.3	2.286	1.767	24.5	20.9	47 E	32*	31*
4 11	4 16.84	+12 13.4	2.378	1.796	22.8	20.9	44 E	28*	30*
4 21	4 42.47	+12 53.3	2.468	1.828	21.0	21.0	41 E	24*	28*
5 1	5 7.87	+13 20.3	2.558	1.861	19.2	21.1	37 E	19*	27*
5 11	5 32.95	+13 33.9	2.646	1.896	17.4	21.1	34 E	14*	25*
5 21	5 57.62	+13 34.1	2.731	1.932	15.5	21.2	31 E	9*	23*
5 31	6 21.81	+13 21.3	2.813	1.969	13.7	21.2	27 E	5*	21*
6 10	6 45.46	+12 55.8	2.892	2.008	11.9	21.2	24 E	—	18*
6 20	7 8.51	+12 18.7	2.966	2.047	10.1	21.3	21 E	—	15*
6 30	7 30.92	+11 30.5	3.034	2.086	8.4	21.3	17 E	—	11*
7 10	7 52.66	+10 32.6	3.096	2.127	6.8	21.3	14 E	—	7*
7 20	8 13.71	+ 9 25.8	3.151	2.167	5.5	21.3	12 E	—	2*
7 30	8 34.07	+ 8 11.3	3.198	2.207	4.7	21.4	10 W	—	—
8 9	8 53.74	+ 6 50.2	3.237	2.248	4.7	21.4	11 W	—	3*

25330 1999 KV_4

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 41.01	− 6 56.6	1.178	1.430	43.0	19.4	82 E	38	59*
1 2	23 54.78	− 3 24.0	1.214	1.376	44.1	19.4	77 E	42	52*
1 12	0 10.94	+ 0 18.6	1.243	1.320	45.0	19.4	72 E	45*	44*
1 22	0 29.33	+ 4 10.7	1.262	1.265	45.8	19.4	67 E	47*	38*
2 1	0 49.99	+ 8 11.8	1.272	1.211	46.7	19.3	63 E	49*	33*

25330 1999 KV_4 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 11	1 13.02	+12 20.5	1.272	1.159	47.6	19.2	60 E	49*	28*
2 21	1 38.71	+16 34.2	1.262	1.110	48.8	19.2	58 E	48*	25*
3 2	2 7.52	+20 48.9	1.244	1.065	50.1	19.1	56 E	48*	22*
3 7	2 23.26	+22 54.6	1.232	1.046	50.9	19.0	55 E	47*	20*
3 12	2 39.99	+24 57.8	1.218	1.028	51.7	19.0	54 E	47*	19*
3 17	2 57.82	+26 57.1	1.203	1.012	52.6	19.0	54 E	47*	19*
3 22	3 16.84	+28 50.8	1.186	0.998	53.5	18.9	54 E	47*	18*
3 27	3 37.13	+30 37.1	1.169	0.987	54.4	18.9	54 E	47*	18*
4 1	3 58.75	+32 13.7	1.150	0.978	55.3	18.9	54 E	47*	18*
4 6	4 21.73	+33 38.1	1.132	0.972	56.2	18.8	54 E	47*	18*
4 11	4 46.05	+34 47.5	1.114	0.970	57.0	18.8	54 E	47*	18*
4 16	5 11.62	+35 39.3	1.096	0.969	57.7	18.8	55 E	47*	19*
4 21	5 38.30	+36 10.6	1.080	0.972	58.4	18.8	55 E	48*	19*
4 26	6 5.83	+36 19.2	1.066	0.978	58.8	18.8	56 E	48*	21*
5 1	6 33.89	+36 3.3	1.053	0.987	59.1	18.8	57 E	48*	22*
5 6	7 2.10	+35 22.0	1.043	0.998	59.2	18.8	58 E	48*	24*
5 11	7 30.06	+34 15.5	1.036	1.011	59.1	18.8	59 E	48*	26*
5 16	7 57.45	+32 44.8	1.033	1.027	58.8	18.8	60 E	47*	28*
5 21	8 23.96	+30 52.2	1.034	1.045	58.3	18.9	61 E	46*	30*
5 26	8 49.40	+28 40.4	1.038	1.065	57.6	18.9	63 E	45*	33*
5 31	9 13.63	+26 12.9	1.047	1.086	56.7	18.9	64 E	43*	36*
6 5	9 36.61	+23 33.4	1.061	1.109	55.7	19.0	65 E	41*	38*
6 10	9 58.34	+20 45.5	1.078	1.133	54.6	19.0	65 E	39*	41*
6 15	10 18.90	+17 52.6	1.100	1.158	53.4	19.1	66 E	37*	44*
6 20	10 38.36	+14 57.5	1.127	1.184	52.1	19.1	67 E	35*	47*
6 25	10 56.84	+12 2.9	1.157	1.210	50.8	19.2	67 E	32*	49*
6 30	11 14.44	+ 9 10.8	1.191	1.237	49.5	19.3	68 E	30*	52*
7 5	11 31.25	+ 6 22.8	1.229	1.264	48.1	19.4	68 E	27*	54*
7 10	11 47.37	+ 3 40.2	1.270	1.292	46.7	19.4	68 E	25*	55*
7 15	12 2.90	+ 1 3.7	1.314	1.319	45.4	19.5	68 E	23*	57*
7 20	12 17.93	− 1 26.1	1.361	1.347	44.1	19.6	67 E	21*	58*
7 30	12 46.77	− 6 4.8	1.462	1.402	41.5	19.8	66 E	18*	59*
8 9	13 14.37	−10 15.4	1.570	1.456	38.9	19.9	64 E	15*	58*
8 19	13 41.13	−13 58.9	1.684	1.510	36.4	20.1	62 E	13*	56*
8 29	14 7.38	−17 16.8	1.802	1.561	34.0	20.3	60 E	11*	54*
9 8	14 33.31	−20 10.9	1.921	1.611	31.6	20.4	57 E	9*	51*
9 18	14 59.10	−22 42.5	2.040	1.659	29.3	20.5	54 E	8*	48*
9 28	15 24.87	−24 53.2	2.159	1.704	26.9	20.6	50 E	7*	44*
10 8	15 50.66	−26 43.7	2.274	1.748	24.6	20.7	47 E	6*	41*
10 18	16 16.52	−28 15.1	2.385	1.789	22.3	20.8	43 E	5*	37*
10 28	16 42.43	−29 27.9	2.491	1.827	20.0	20.9	39 E	4*	33*
11 7	17 8.33	−30 22.9	2.590	1.864	17.6	20.9	35 E	3*	29*
11 17	17 34.18	−31 0.7	2.682	1.897	15.3	21.0	31 E	2*	25*
11 27	17 59.88	−31 22.0	2.764	1.929	13.1	21.0	26 E	1*	20*
12 7	18 25.33	−31 27.6	2.837	1.958	10.8	21.0	22 E	—	16*
12 17	18 50.47	−31 18.4	2.899	1.984	8.7	21.0	18 E	—	12*
12 27	19 15.19	−30 55.4	2.949	2.008	6.7	21.0	14 E	—	8*
1 6	19 39.41	−30 19.8	2.988	2.029	5.1	20.9	11 E	—	4*
1 16	20 3.10	−29 32.9	3.014	2.048	4.3	20.9	9 E	—	1*

16816 1997 UF_9

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 41.12	−13 19.8	2.271	2.312	24.8	20.8	80 E	32	63*
1 2	23 48.57	−11 6.9	2.412	2.314	23.9	21.0	72 E	34	55*
1 12	23 57.40	− 8 54.6	2.546	2.312	22.7	21.0	65 E	35*	47*
1 22	0 7.36	− 6 43.1	2.670	2.307	21.2	21.1	58 E	35*	40*
2 1	0 18.26	− 4 32.1	2.782	2.299	19.6	21.1	51 E	34*	33*
2 11	0 29.95	− 2 21.6	2.880	2.287	17.7	21.1	45 E	31*	27*
2 21	0 42.33	− 0 11.7	2.963	2.272	15.7	21.1	38 E	27*	22*
3 2	0 55.34	+ 1 57.7	3.031	2.253	13.5	21.1	32 E	22*	17*
3 12	1 8.93	+ 4 6.4	3.081	2.231	11.3	21.0	26 E	17*	13*
3 22	1 23.06	+ 6 14.5	3.115	2.206	8.9	20.9	20 E	12*	9*
4 1	1 37.76	+ 8 21.8	3.131	2.177	6.5	20.8	14 E	6*	5*
4 11	1 53.02	+10 28.3	3.129	2.144	4.1	20.6	9 E	1*	1*
4 21	2 8.88	+12 33.8	3.110	2.108	1.6	20.4	3 E	—	—
5 1	2 25.41	+14 38.2	3.074	2.068	1.0	20.3	2 W	—	—
5 11	2 42.68	+16 41.4	3.022	2.024	3.6	20.4	7 W	—	1*
5 21	3 0.78	+18 43.3	2.954	1.976	6.2	20.4	12 W	1*	5*
5 31	3 19.86	+20 43.5	2.871	1.924	8.8	20.4	17 W	4*	9*
6 10	3 40.08	+22 41.7	2.775	1.867	11.5	20.4	21 W	8*	13*
6 20	4 1.66	+24 37.4	2.666	1.807	14.2	20.3	26 W	12*	15*
6 30	4 24.86	+26 29.7	2.547	1.742	17.0	20.2	30 W	16*	17*
7 10	4 50.04	+28 17.2	2.419	1.672	19.8	20.1	34 W	21*	18*
7 15	5 3.50	+29 8.5	2.352	1.636	21.2	20.1	36 W	23*	18*
7 20	5 17.63	+29 57.7	2.284	1.598	22.6	20.0	37 W	26*	19*
7 25	5 32.49	+30 44.2	2.215	1.559	24.1	19.9	39 W	28*	18*
7 30	5 48.16	+31 27.4	2.145	1.519	25.6	19.8	40 W	30*	18*
8 4	6 4.71	+32 6.5	2.074	1.477	27.1	19.7	42 W	32*	18*
8 9	6 22.23	+32 40.5	2.004	1.434	28.6	19.7	43 W	34*	17*
8 14	6 40.82	+33 8.1	1.934	1.390	30.2	19.6	44 W	36*	16*
8 19	7 0.53	+33 27.9	1.866	1.345	31.8	19.4	44 W	37*	16*

16816 1997 UF_9 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 24	7 21.42	+33 37.9	1.798	1.298	33.4	19.3	45 W	38*	15*
8 29	7 43.54	+33 36.0	1.733	1.250	35.1	19.2	45 W	39*	14*
9 3	8 6.89	+33 19.7	1.671	1.201	36.7	19.1	45 W	39*	12*
9 8	8 31.44	+32 46.2	1.613	1.150	38.4	19.0	45 W	39*	11*
9 13	8 57.08	+31 52.6	1.559	1.098	40.0	18.8	45 W	38*	10*
9 18	9 23.66	+30 36.1	1.510	1.046	41.5	18.7	44 W	38*	9*
9 23	9 50.97	+28 54.1	1.467	0.992	43.0	18.6	42 W	36*	7*
9 28	10 18.74	+26 44.7	1.432	0.938	44.2	18.4	41 W	35*	6*
10 3	10 46.73	+24 6.9	1.404	0.884	45.1	18.3	39 W	33*	5*
10 8	11 14.68	+21 0.8	1.385	0.830	45.6	18.1	36 W	30*	4*
10 13	11 42.40	+17 27.8	1.375	0.778	45.5	18.0	34 W	28*	3*
10 18	12 9.77	+13 30.5	1.374	0.727	44.6	17.8	31 W	25*	2*
10 23	12 36.76	+ 9 12.5	1.382	0.680	42.7	17.6	28 W	22*	1*
10 28	13 3.43	+ 4 38.3	1.398	0.639	39.6	17.4	24 W	18*	1*
11 2	13 29.93	− 0 6.7	1.422	0.606	35.4	17.2	21 W	15*	—
11 7	13 56.47	− 4 56.4	1.451	0.583	30.1	17.0	17 W	11*	—
11 12	14 23.28	− 9 43.5	1.483	0.572	24.2	16.9	14 W	7*	—
11 17	14 50.55	−14 20.1	1.518	0.575	18.2	16.7	10 W	4*	—
11 22	15 18.40	−18 38.0	1.554	0.591	13.0	16.7	8 W	—	—
11 27	15 46.83	−22 30.6	1.591	0.619	9.5	16.7	6 W	—	—
12 2	16 15.78	−25 52.9	1.630	0.656	8.5	16.8	6 W	—	—
12 7	16 45.06	−28 42.0	1.669	0.699	9.2	17.1	7 W	—	—
12 12	17 14.43	−30 57.1	1.711	0.748	10.4	17.3	8 W	—	—
12 17	17 43.56	−32 39.0	1.755	0.800	11.5	17.5	9 E	—	—
12 22	18 12.14	−33 49.6	1.800	0.853	12.3	17.8	11 E	—	1*
12 27	18 39.84	−34 32.0	1.847	0.907	12.8	18.0	12 E	—	3*
1 1	19 6.43	−34 49.5	1.896	0.961	12.9	18.2	13 E	—	4*
1 6	19 31.72	−34 45.7	1.946	1.015	12.9	18.3	13 E	—	5*
1 11	19 55.63	−34 24.3	1.997	1.068	12.7	18.5	14 E	—	5*
1 16	20 18.12	−33 48.6	2.048	1.120	12.4	18.6	14 E	—	6*

181826 1998 SP_{49}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 41.29	− 3 46.9	1.707	1.874	31.4	20.7	84 E	41	57*
1 2	0 0.49	− 1 58.2	1.847	1.913	30.3	20.8	79 E	43	52*
1 12	0 19.68	− 0 6.7	1.989	1.953	28.9	21.0	74 E	45*	46*
1 22	0 38.84	+ 1 46.0	2.131	1.993	27.4	21.2	69 E	46*	42*
2 1	0 57.99	+ 3 38.2	2.272	2.033	25.7	21.3	63 E	45*	37*
2 11	1 17.12	+ 5 28.4	2.412	2.074	23.9	21.4	58 E	43*	33*

50143 2000 AB_{132}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 41.58	− 8 2.7	1.556	1.722	34.4	19.2	82 E	37	60*
1 2	0 1.84	− 5 6.0	1.666	1.744	33.4	19.3	78 E	40	54*
1 12	0 22.34	− 2 11.0	1.778	1.768	32.2	19.5	73 E	43*	48*
1 22	0 43.02	+ 0 40.5	1.893	1.794	30.8	19.6	69 E	45*	43*
2 1	1 3.89	+ 3 27.2	2.008	1.821	29.3	19.7	65 E	45*	38*
2 11	1 24.93	+ 6 7.4	2.124	1.850	27.7	19.8	61 E	45*	34*
2 21	1 46.15	+ 8 40.0	2.240	1.880	25.9	19.9	56 E	43*	31*
3 2	2 7.56	+11 4.0	2.355	1.911	24.1	20.0	52 E	40*	28*
3 12	2 29.15	+13 18.1	2.467	1.942	22.2	20.1	48 E	37*	25*
3 22	2 50.92	+15 21.7	2.577	1.974	20.3	20.1	43 E	33*	22*
4 1	3 12.86	+17 14.1	2.682	2.007	18.3	20.2	39 E	29*	20*
4 11	3 34.95	+18 54.5	2.783	2.040	16.2	20.2	35 E	25*	18*
4 21	3 57.14	+20 22.6	2.878	2.073	14.2	20.3	30 E	21*	15*
5 1	4 19.40	+21 38.1	2.966	2.106	12.1	20.3	26 E	16*	13*
5 11	4 41.67	+22 40.8	3.047	2.139	10.0	20.3	22 E	12*	10*
5 21	5 3.88	+23 30.8	3.120	2.173	7.8	20.3	17 E	7*	7*
5 31	5 25.97	+24 8.3	3.184	2.205	5.7	20.3	13 E	3*	4*
6 10	5 47.85	+24 33.6	3.239	2.238	3.6	20.2	8 E	—	—
6 20	6 9.46	+24 47.3	3.283	2.270	1.6	20.2	4 E	—	—
6 30	6 30.72	+24 49.9	3.317	2.302	0.9	20.2	2 W	—	—
7 10	6 51.54	+24 42.3	3.340	2.333	2.8	20.4	6 W	—	—
7 20	7 11.89	+24 25.4	3.352	2.364	4.8	20.5	11 W	4*	2*
7 30	7 31.68	+24 0.2	3.351	2.394	6.8	20.6	16 W	8*	5*
8 9	7 50.87	+23 27.8	3.338	2.423	8.8	20.7	21 W	13*	8*
8 19	8 9.41	+22 49.5	3.313	2.452	10.7	20.8	27 W	19*	11*
8 29	8 27.25	+22 6.4	3.276	2.480	12.5	20.9	32 W	24*	14*
9 8	8 44.32	+21 19.9	3.226	2.507	14.3	20.9	38 W	30*	16*
9 18	9 0.60	+20 31.4	3.164	2.534	15.9	21.0	44 W	35*	19*
9 28	9 16.01	+19 42.5	3.090	2.559	17.4	21.0	50 W	41*	22*
10 8	9 30.47	+18 54.7	3.005	2.584	18.7	21.0	56 W	47*	25*
10 18	9 43.90	+18 9.8	2.910	2.608	19.8	21.0	63 W	52*	28*
10 28	9 56.16	+17 29.6	2.806	2.632	20.7	21.0	70 W	57*	32*
11 7	10 7.13	+16 56.1	2.695	2.654	21.3	20.9	77 W	60*	35*
11 17	10 16.62	+16 31.2	2.578	2.675	21.6	20.8	85 W	62*	39*
11 27	10 24.40	+16 17.3	2.458	2.696	21.4	20.8	93 W	61	43*
12 7	10 30.23	+16 16.3	2.338	2.716	20.8	20.6	102 W	61	46*
12 17	10 33.83	+16 30.0	2.221	2.734	19.6	20.5	111 W	61	47*
12 27	10 34.92	+16 59.6	2.112	2.752	17.8	20.4	121 W	62	47
1 6	10 33.30	+17 44.8	2.016	2.769	15.4	20.2	132 W	63	46
1 16	10 28.87	+18 43.8	1.936	2.785	12.3	20.0	143 W	64	45

80366 1999 XA_{142}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 23	23 41.62	−21 57.2	2.648	2.609	21.6	20.0	77 E	23	67*
1 2	23 50.11	−19 32.5	2.750	2.583	20.9	20.1	70 E	25	58*
1 12	23 59.94	−17 6.0	2.846	2.557	20.1	20.1	63 E	27*	51*
1 22	0 10.91	−14 38.4	2.934	2.531	19.0	20.1	57 E	28*	44*
2 1	0 22.84	−12 10.1	3.014	2.503	17.6	20.1	50 E	27*	38*
2 11	0 35.61	− 9 41.6	3.084	2.475	16.2	20.1	44 E	25*	32*
2 21	0 49.10	− 7 13.4	3.142	2.446	14.5	20.0	38 E	22*	27*
3 2	1 3.26	− 4 45.7	3.190	2.416	12.8	20.0	33 E	18*	22*
3 12	1 18.02	− 2 19.1	3.226	2.386	11.0	19.9	27 E	14*	18*
3 22	1 33.36	+ 0 6.1	3.249	2.354	9.1	19.8	22 E	9*	14*
4 1	1 49.26	+ 2 29.4	3.261	2.323	7.2	19.7	17 E	4*	10*
4 11	2 5.71	+ 4 50.4	3.260	2.291	5.3	19.6	12 E	—	6*
4 21	2 22.73	+ 7 8.7	3.248	2.258	3.6	19.5	8 E	—	2*
5 1	2 40.34	+ 9 23.7	3.225	2.225	2.7	19.4	6 E	—	—
5 11	2 58.54	+11 34.9	3.190	2.191	3.3	19.3	7 W	—	—
5 21	3 17.39	+13 41.9	3.145	2.158	4.9	19.4	10 W	—	4*
5 31	3 36.92	+15 44.0	3.090	2.124	6.9	19.4	14 W	—	8*
6 10	3 57.16	+17 40.7	3.026	2.090	8.9	19.4	19 W	1*	12*
6 20	4 18.16	+19 31.3	2.954	2.056	11.1	19.4	23 W	5*	15*
6 30	4 39.96	+21 15.3	2.874	2.022	13.2	19.4	27 W	10*	18*
7 10	5 2.58	+22 51.9	2.788	1.988	15.3	19.4	31 W	15*	20*
7 20	5 26.08	+24 20.5	2.696	1.955	17.4	19.3	35 W	21*	21*
7 30	5 50.46	+25 40.3	2.599	1.923	19.5	19.3	39 W	26*	22*
8 9	6 15.73	+26 50.8	2.498	1.891	21.5	19.2	43 W	32*	22*
8 19	6 41.92	+27 51.4	2.395	1.860	23.5	19.2	47 W	37*	22*
8 29	7 8.96	+28 41.4	2.289	1.830	25.4	19.1	51 W	42*	22*
9 8	7 36.84	+29 20.5	2.184	1.801	27.2	19.0	55 W	47*	22*
9 18	8 5.48	+29 48.5	2.079	1.774	28.9	18.9	58 W	51*	21*
9 28	8 34.77	+30 5.5	1.975	1.749	30.5	18.8	62 W	55*	21*
10 8	9 4.58	+30 11.8	1.874	1.725	31.9	18.7	66 W	59*	21*
10 18	9 34.76	+30 8.2	1.776	1.704	33.2	18.6	69 W	62*	21*
10 28	10 5.08	+29 56.1	1.683	1.685	34.3	18.5	73 W	66*	21*
11 7	10 35.34	+29 37.2	1.594	1.668	35.3	18.4	76 W	69*	21*
11 17	11 5.27	+29 13.8	1.511	1.654	36.0	18.3	80 W	71*	22*
11 27	11 34.53	+28 48.9	1.433	1.644	36.6	18.1	83 W	73*	24*
12 7	12 2.82	+28 25.4	1.359	1.636	37.0	18.0	87 W	73*	25*
12 17	12 29.76	+28 6.7	1.291	1.631	37.1	17.9	91 W	73	28*
12 27	12 54.93	+27 56.3	1.228	1.629	37.0	17.8	94 W	73	30*
1 6	13 17.90	+27 56.5	1.168	1.631	36.6	17.7	98 W	73	32*
1 16	13 38.17	+28 9.8	1.112	1.636	36.0	17.6	102 W	73	34*

10563 Izhdubar

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 42.01	−45 12.9	1.208	1.273	46.6	19.5	70 E	—	62*
12 28	23 50.69	−40 13.8	1.230	1.270	46.3	19.5	69 E	5	63*
1 2	23 58.72	−35 21.7	1.257	1.265	45.9	19.6	68 E	10	61*
1 7	0 6.30	−30 38.2	1.287	1.260	45.4	19.6	66 E	14*	59*
1 12	0 13.54	−26 4.8	1.320	1.253	44.9	19.6	64 E	19*	56*
1 17	0 20.52	−21 41.8	1.355	1.245	44.2	19.6	62 E	23*	52*
1 22	0 27.34	−17 29.6	1.392	1.236	43.5	19.7	60 E	26*	48*
2 1	0 40.66	− 9 36.5	1.468	1.215	41.8	19.7	55 E	31*	40*
2 11	0 53.82	− 2 21.4	1.542	1.189	39.8	19.7	50 E	34*	33*
2 21	1 7.04	+ 4 22.1	1.608	1.158	37.6	19.7	46 E	34*	25*
2 26	1 13.77	+ 7 34.3	1.637	1.141	36.5	19.6	43 E	33*	22*
3 2	1 20.60	+10 41.2	1.662	1.123	35.4	19.6	41 E	33*	18*
3 7	1 27.58	+13 43.7	1.683	1.104	34.4	19.6	39 E	31*	15*
3 12	1 34.74	+16 42.6	1.699	1.084	33.4	19.5	37 E	30*	12*
3 17	1 42.14	+19 38.8	1.711	1.064	32.5	19.5	35 E	29*	9*
3 22	1 49.83	+22 32.9	1.716	1.042	31.9	19.4	33 E	27*	6*
3 27	1 57.89	+25 25.7	1.716	1.020	31.4	19.4	32 E	26*	4*
4 1	2 6.41	+28 17.8	1.709	0.997	31.2	19.3	31 E	25*	1*
4 6	2 15.50	+31 9.7	1.696	0.974	31.3	19.2	30 E	24*	—
4 11	2 25.31	+34 1.8	1.676	0.950	31.8	19.2	30 E	23*	—
4 16	2 36.05	+36 54.4	1.650	0.927	32.7	19.1	30 E	22*	—
4 21	2 47.97	+39 47.5	1.616	0.903	34.1	19.0	30 E	22*	—
4 26	3 1.43	+42 40.6	1.576	0.880	36.0	19.0	31 E	22*	—
5 1	3 16.88	+45 32.9	1.529	0.857	38.3	18.9	32 E	23*	—
5 3	3 23.76	+46 41.1	1.508	0.848	39.4	18.9	32 E	23*	—
5 5	3 31.10	+47 48.7	1.487	0.840	40.5	18.9	33 E	23*	—
5 7	3 38.95	+48 55.3	1.464	0.831	41.7	18.9	33 E	24*	—
5 9	3 47.39	+50 0.8	1.441	0.823	43.0	18.8	34 E	24*	—
5 11	3 56.46	+51 4.6	1.416	0.815	44.4	18.8	34 E	25*	—
5 13	4 6.24	+52 6.5	1.391	0.807	45.8	18.8	35 E	25*	—
5 15	4 16.79	+53 5.8	1.365	0.800	47.3	18.8	36 E	26*	—
5 17	4 28.20	+54 2.0	1.339	0.793	48.8	18.8	36 E	27*	—
5 19	4 40.52	+54 54.1	1.312	0.786	50.4	18.7	37 E	27*	—
5 21	4 53.81	+55 41.5	1.284	0.779	52.0	18.7	37 E	28*	—
5 23	5 8.12	+56 22.9	1.256	0.773	53.7	18.7	38 E	29*	—
5 25	5 23.45	+56 57.2	1.227	0.768	55.4	18.7	39 E	30*	—
5 27	5 39.80	+57 23.2	1.199	0.763	57.2	18.7	39 E	31*	—
5 29	5 57.08	+57 39.3	1.170	0.758	58.9	18.7	40 E	32*	—

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 31	6 15.19	+57 44.3	1.141	0.754	60.7	18.6	40 E	33*	—
6 2	6 33.95	+57 36.6	1.113	0.750	62.4	18.6	41 E	34*	—
6 4	6 53.13	+57 14.9	1.085	0.747	64.2	18.6	41 E	35*	—
6 6	7 12.46	+56 38.1	1.057	0.744	65.9	18.6	42 E	36*	—
6 8	7 31.66	+55 45.4	1.031	0.742	67.6	18.6	43 E	36*	—
6 10	7 50.46	+54 36.1	1.005	0.740	69.3	18.6	43 E	37*	—
6 12	8 8.60	+53 10.2	0.980	0.739	70.8	18.6	43 E	37*	2*
6 14	8 25.89	+51 27.8	0.957	0.739	72.3	18.6	44 E	38*	4*
6 16	8 42.18	+49 29.3	0.935	0.739	73.7	18.6	44 E	38*	7*
6 18	8 57.37	+47 15.6	0.914	0.740	75.0	18.6	45 E	38*	9*
6 20	9 11.44	+44 47.6	0.896	0.741	76.1	18.6	45 E	37*	12*
6 22	9 24.37	+42 6.8	0.880	0.743	77.1	18.6	45 E	37*	15*
6 24	9 36.21	+39 14.5	0.866	0.745	77.9	18.6	46 E	36*	17*
6 26	9 47.00	+36 12.4	0.854	0.748	78.5	18.6	46 E	35*	20*
6 28	9 56.82	+33 2.3	0.844	0.752	78.9	18.6	47 E	33*	23*
6 30	10 5.74	+29 45.9	0.837	0.756	79.1	18.6	47 E	31*	26*
7 2	10 13.83	+26 25.3	0.833	0.760	79.2	18.6	47 E	30*	29*
7 4	10 21.17	+23 2.2	0.831	0.765	79.0	18.6	48 E	27*	31*
7 6	10 27.84	+19 38.4	0.831	0.771	78.7	18.6	48 E	25*	34*
7 8	10 33.90	+16 15.6	0.834	0.776	78.2	18.6	48 E	23*	36*
7 10	10 39.41	+12 55.3	0.839	0.783	77.6	18.6	49 E	20*	38*
7 12	10 44.44	+ 9 38.7	0.846	0.789	76.8	18.6	49 E	18*	40*
7 14	10 49.02	+ 6 27.0	0.855	0.796	75.9	18.6	49 E	15*	41*
7 16	10 53.23	+ 3 20.9	0.866	0.804	74.9	18.6	50 E	13*	43*
7 18	10 57.08	+ 0 21.0	0.878	0.811	73.9	18.6	50 E	10*	44*
7 20	11 0.64	− 2 32.2	0.891	0.819	72.8	18.7	50 E	8*	44*
7 25	11 8.40	− 9 14.9	0.929	0.840	69.9	18.7	51 E	2*	45*
7 30	11 14.92	−15 15.3	0.971	0.862	67.0	18.8	51 E	—	44*
8 4	11 20.53	−20 36.6	1.015	0.885	64.1	18.8	52 E	—	42*
8 9	11 25.54	−25 24.2	1.059	0.908	61.5	18.9	52 E	—	39*
8 14	11 30.17	−29 43.4	1.101	0.932	59.1	19.0	52 E	—	37*
8 19	11 34.61	−33 39.6	1.140	0.955	56.9	19.0	52 E	—	34*
8 24	11 39.01	−37 17.5	1.176	0.979	55.1	19.1	53 E	—	31*
8 29	11 43.49	−40 41.2	1.208	1.002	53.4	19.2	53 E	—	28*
9 3	11 48.18	−43 54.2	1.235	1.025	52.0	19.2	53 E	—	26*
9 8	11 53.21	−46 59.4	1.257	1.047	50.9	19.3	54 E	—	24*
9 13	11 58.72	−49 59.5	1.275	1.068	49.9	19.3	54 E	—	22*
9 18	12 4.87	−52 56.8	1.288	1.088	49.2	19.4	55 E	—	20*
9 23	12 11.85	−55 53.3	1.296	1.108	48.6	19.4	56 E	—	19*
9 28	12 19.92	−58 50.5	1.301	1.127	48.1	19.4	57 E	—	18*
9 30	12 23.53	−60 1.9	1.301	1.134	48.0	19.4	57 W	—	19*
10 2	12 27.41	−61 13.6	1.301	1.141	47.8	19.5	58 W	—	19*
10 4	12 31.59	−62 25.7	1.301	1.148	47.7	19.5	58 W	—	20*
10 6	12 36.13	−63 38.4	1.299	1.155	47.6	19.5	59 W	—	20*
10 8	12 41.08	−64 51.5	1.298	1.161	47.5	19.5	59 W	—	21*
10 10	12 46.51	−66 5.2	1.296	1.168	47.5	19.5	60 W	—	21*
10 12	12 52.50	−67 19.3	1.293	1.174	47.4	19.5	60 W	—	22*
10 14	12 59.16	−68 33.9	1.290	1.180	47.4	19.5	61 W	—	22*
10 16	13 6.62	−69 48.9	1.287	1.186	47.3	19.5	61 W	—	22*
10 18	13 15.05	−71 4.1	1.283	1.192	47.3	19.5	62 W	—	22*
10 19	13 19.70	−71 41.7	1.281	1.194	47.3	19.5	62 W	—	22*
10 20	13 24.67	−72 19.3	1.279	1.197	47.3	19.5	62 W	—	22*
10 21	13 30.01	−72 56.8	1.277	1.200	47.3	19.5	62 W	—	22*
10 22	13 35.75	−73 34.2	1.274	1.202	47.3	19.5	63 W	—	22*
10 23	13 41.96	−74 11.4	1.272	1.205	47.3	19.5	63 W	—	22*
10 24	13 48.67	−74 48.4	1.270	1.207	47.3	19.5	63 W	—	22*
10 25	13 55.95	−75 24.9	1.267	1.210	47.3	19.5	63 W	—	22*
10 26	14 3.89	−76 1.0	1.265	1.212	47.3	19.5	64 E	—	22*
10 27	14 12.54	−76 36.6	1.263	1.215	47.3	19.5	64 E	—	23*
10 28	14 22.01	−77 11.3	1.260	1.217	47.2	19.5	64 E	—	23*
10 29	14 32.40	−77 45.2	1.258	1.220	47.2	19.5	64 E	—	23*
10 30	14 43.82	−78 17.9	1.255	1.222	47.2	19.5	65 E	—	24*
10 31	14 56.37	−78 49.2	1.253	1.224	47.2	19.5	65 E	—	24*
11 1	15 10.17	−79 18.8	1.250	1.226	47.2	19.5	65 E	—	25*
11 2	15 25.34	−79 46.4	1.248	1.228	47.2	19.5	65 E	—	25*
11 3	15 41.95	−80 11.5	1.245	1.230	47.2	19.5	66 E	—	26*
11 4	16 0.06	−80 33.7	1.242	1.232	47.2	19.5	66 E	—	27*
11 5	16 19.67	−80 52.6	1.240	1.234	47.2	19.5	66 E	—	27*
11 6	16 40.67	−81 7.7	1.237	1.236	47.2	19.5	66 E	—	28*
11 7	17 2.87	−81 18.4	1.235	1.238	47.2	19.5	67 E	—	28*
11 8	17 25.99	−81 24.5	1.233	1.240	47.2	19.5	67 E	—	29*
11 9	17 49.63	−81 25.6	1.230	1.242	47.2	19.5	67 E	—	30*
11 10	18 13.35	−81 21.5	1.228	1.244	47.2	19.5	67 E	—	30*
11 11	18 36.68	−81 12.2	1.226	1.245	47.2	19.5	67 E	—	31*
11 12	18 59.23	−80 57.8	1.223	1.247	47.2	19.5	68 E	—	32*
11 13	19 20.65	−80 38.7	1.221	1.249	47.2	19.5	68 E	—	32*
11 14	19 40.74	−80 15.1	1.219	1.250	47.2	19.5	68 E	—	33*
11 15	19 59.36	−79 47.5	1.217	1.252	47.2	19.5	68 E	—	34*
11 16	20 16.49	−79 16.3	1.215	1.253	47.2	19.5	68 E	—	35*
11 17	20 32.16	−78 41.8	1.213	1.255	47.2	19.5	69 E	—	35*

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 18	20 46.45	−78 4.5	1.212	1.256	47.2	19.5	69 E	—	36*
11 19	20 59.46	−77 24.7	1.210	1.257	47.2	19.5	69 E	—	37*
11 20	21 11.31	−76 42.7	1.208	1.259	47.2	19.5	69 E	—	38*
11 21	21 22.10	−75 58.7	1.207	1.260	47.2	19.5	69 E	—	39*
11 22	21 31.96	−75 12.9	1.206	1.261	47.1	19.5	69 E	—	40*
11 23	21 40.98	−74 25.7	1.204	1.262	47.1	19.5	70 E	—	40*
11 24	21 49.25	−73 37.0	1.203	1.263	47.1	19.5	70 E	—	41*
11 25	21 56.87	−72 47.2	1.202	1.264	47.1	19.5	70 E	—	42*
11 26	22 3.89	−71 56.2	1.201	1.265	47.1	19.5	70 E	—	43*
11 27	22 10.40	−71 4.3	1.201	1.266	47.1	19.5	70 E	—	44*
11 28	22 16.44	−70 11.5	1.200	1.267	47.0	19.5	70 E	—	45*
11 29	22 22.07	−69 17.8	1.200	1.268	47.0	19.5	70 E	—	45*
11 30	22 27.33	−68 23.5	1.200	1.269	47.0	19.5	70 E	—	46*
12 1	22 32.26	−67 28.4	1.199	1.270	47.0	19.5	70 E	—	47*
12 2	22 36.89	−66 32.8	1.200	1.270	46.9	19.5	70 E	—	48*
12 3	22 41.25	−65 36.6	1.200	1.271	46.9	19.5	70 E	—	49*
12 4	22 45.38	−64 40.0	1.200	1.272	46.9	19.5	70 E	—	50*
12 5	22 49.29	−63 42.9	1.201	1.272	46.9	19.5	70 E	—	50*
12 6	22 53.00	−62 45.4	1.202	1.273	46.8	19.5	70 E	—	51*
12 7	22 56.53	−61 47.5	1.202	1.273	46.8	19.5	70 E	—	52*
12 9	23 3.12	−59 50.8	1.205	1.274	46.7	19.5	70 E	—	54*
12 11	23 9.17	−57 53.2	1.208	1.274	46.6	19.5	70 E	—	55*
12 13	23 14.77	−55 54.9	1.212	1.275	46.6	19.5	70 E	—	56*
12 15	23 19.99	−53 56.1	1.216	1.275	46.5	19.5	70 E	—	58*
12 17	23 24.88	−51 57.1	1.222	1.275	46.4	19.5	70 E	—	59*
12 19	23 29.49	−49 58.2	1.228	1.275	46.3	19.5	69 E	—	60*
12 21	23 33.86	−47 59.4	1.234	1.274	46.1	19.5	69 E	—	60*
12 23	23 38.02	−46 1.1	1.242	1.274	46.0	19.5	69 E	—	61*
12 25	23 42.01	−44 3.4	1.250	1.273	45.9	19.6	68 E	1	61*
12 27	23 45.83	−42 6.4	1.259	1.272	45.7	19.6	68 E	3	61*
1 1	23 54.81	−37 18.3	1.284	1.269	45.3	19.6	67 E	8	61*
1 6	0 3.16	−32 37.5	1.312	1.264	44.8	19.6	65 E	12*	59*
1 11	0 11.04	−28 5.6	1.344	1.259	44.2	19.6	63 E	17*	56*
1 16	0 18.58	−23 43.3	1.378	1.252	43.6	19.7	61 E	21*	53*

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12 23	23 42.22	− 7 39.5	1.628	1.786	33.1	19.6	82 E	37	60*
1 2	0 1.85	− 5 3.4	1.747	1.813	32.0	19.8	78 E	40	54*
1 12	0 21.68	− 2 27.6	1.867	1.840	30.7	19.9	73 E	42*	48*
1 22	0 41.65	+ 0 6.2	1.990	1.869	29.3	20.0	69 E	44*	43*
2 1	1 1.77	+ 2 36.6	2.113	1.900	27.8	20.2	64 E	44*	39*
2 11	1 22.01	+ 5 2.1	2.235	1.931	26.1	20.3	59 E	43*	35*
2 21	1 42.37	+ 7 21.6	2.356	1.963	24.3	20.4	55 E	41*	31*
3 2	2 2.87	+ 9 34.1	2.475	1.995	22.5	20.4	50 E	39*	28*
3 12	2 23.49	+11 38.4	2.591	2.028	20.6	20.5	46 E	35*	25*
3 22	2 44.24	+13 33.7	2.702	2.062	18.6	20.6	41 E	31*	22*
4 1	3 5.10	+15 19.4	2.809	2.095	16.6	20.6	37 E	27*	20*
4 11	3 26.06	+16 54.9	2.909	2.129	14.5	20.7	32 E	22*	17*
4 21	3 47.08	+18 19.6	3.002	2.163	12.4	20.7	28 E	17*	14*
5 1	4 8.15	+19 33.3	3.088	2.196	10.3	20.7	23 E	13*	12*
5 11	4 29.19	+20 35.7	3.165	2.229	8.2	20.7	18 E	8*	9*
5 21	4 50.17	+21 26.9	3.233	2.263	6.1	20.7	14 E	4*	5*
5 31	5 11.02	+22 6.8	3.291	2.295	4.0	20.7	9 E	—	2*
6 10	5 31.68	+22 35.8	3.339	2.328	1.8	20.6	4 E	—	—
6 20	5 52.09	+22 54.2	3.375	2.359	0.4	20.5	1 W	—	—
6 30	6 12.17	+23 2.4	3.400	2.391	2.4	20.7	6 W	—	—
7 10	6 31.84	+23 1.2	3.413	2.421	4.4	20.9	11 W	1*	3*
7 20	6 51.07	+22 51.3	3.414	2.451	6.4	21.0	16 W	6*	7*
7 30	7 9.76	+22 33.5	3.402	2.481	8.4	21.1	21 W	11*	10*
8 9	7 27.86	+22 8.8	3.378	2.510	10.3	21.2	26 W	16*	13*
8 19	7 45.31	+21 38.3	3.340	2.538	12.1	21.3	32 W	22*	16*
8 29	8 2.04	+21 3.2	3.290	2.565	13.9	21.3	38 W	28*	19*
9 8	8 17.98	+20 24.6	3.228	2.591	15.5	21.4	43 W	34*	22*
9 18	8 33.06	+19 44.0	3.154	2.617	17.0	21.4	50 W	40*	24*
9 28	8 47.18	+19 2.8	3.068	2.642	18.3	21.4	56 W	46*	27*
10 8	9 0.24	+18 22.7	2.972	2.666	19.4	21.4	63 W	51*	30*
10 18	9 12.11	+17 45.3	2.867	2.689	20.3	21.3	70 W	56*	34*
10 28	9 22.64	+17 12.6	2.754	2.711	20.9	21.3	77 W	60*	37*
11 7	9 31.64	+16 46.5	2.636	2.733	21.2	21.2	85 W	62*	40*
11 17	9 38.90	+16 29.0	2.515	2.753	21.0	21.1	93 W	61	44*
11 27	9 44.15	+16 22.5	2.393	2.773	20.4	21.0	102 W	61	46*
12 7	9 47.15	+16 28.5	2.275	2.792	19.2	20.9	112 W	61	47*
12 17	9 47.64	+16 48.6	2.165	2.810	17.3	20.7	122 W	62	47
12 27	9 45.41	+17 23.1	2.067	2.827	14.9	20.6	133 W	62	47
1 6	9 40.48	+18 10.6	1.988	2.843	11.7	20.4	144 W	63	46
1 16	9 33.02	+19 7.8	1.931	2.858	8.0	20.2	156 W	64	45

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12 23	23 42.90	− 4 53.6	3.162	3.205	17.8	20.5	84 E	40	58*
1 2	23 51.58	− 3 53.1	3.303	3.207	17.3	20.5	76 E	41	51*
1 12	0 1.31	− 2 46.1	3.441	3.210	16.5	20.6	68 E	42*	44*
1 22	0 11.92	− 1 33.7	3.573	3.213	15.5	20.7	61 E	41*	38*

186024 2001 QG_{207} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 1	0 23.28	− 0 17.1	3.697	3.218	14.3	20.7	54 E	38*	32*
2 11	0 35.26	+ 1 2.6	3.812	3.223	13.0	20.7	47 E	34*	27*
2 21	0 47.75	+ 2 24.4	3.916	3.228	11.5	20.7	40 E	29*	22*
3 2	1 0.69	+ 3 47.3	4.009	3.235	9.8	20.7	34 E	24*	18*
3 12	1 13.98	+ 5 10.4	4.090	3.242	8.1	20.7	28 E	18*	14*
3 22	1 27.56	+ 6 32.8	4.158	3.249	6.4	20.6	21 E	13*	10*
4 1	1 41.38	+ 7 53.8	4.212	3.258	4.6	20.6	15 E	7*	6*
4 11	1 55.38	+ 9 12.5	4.252	3.267	2.8	20.5	9 E	1*	2*
4 21	2 9.51	+10 28.2	4.279	3.276	1.1	20.4	4 E	—	—
5 1	2 23.71	+11 40.4	4.291	3.286	1.3	20.4	4 W	—	—
5 11	2 37.94	+12 48.5	4.288	3.297	3.0	20.6	10 W	—	4*
5 21	2 52.13	+13 51.9	4.272	3.309	4.7	20.7	16 W	—	10*
5 31	3 6.22	+14 50.3	4.242	3.321	6.4	20.7	22 W	2*	15*
6 10	3 20.15	+15 43.4	4.199	3.333	8.1	20.8	28 W	6*	21*
6 20	3 33.82	+16 30.8	4.143	3.346	9.7	20.8	34 W	11*	26*
6 30	3 47.16	+17 12.4	4.074	3.360	11.2	20.9	40 W	16*	30*
7 10	4 0.05	+17 48.1	3.993	3.374	12.6	20.9	46 W	23*	34*
7 20	4 12.38	+18 18.0	3.902	3.389	13.9	20.9	53 W	30*	37*
7 30	4 24.03	+18 42.2	3.800	3.404	14.9	20.9	60 W	37*	39*
8 9	4 34.84	+19 0.9	3.690	3.419	15.8	20.9	67 W	44*	41*
8 19	4 44.65	+19 14.4	3.574	3.435	16.5	20.8	74 W	51*	43*
8 29	4 53.28	+19 23.2	3.452	3.452	16.8	20.8	82 W	58*	44*
9 8	5 0.54	+19 27.8	3.327	3.468	16.9	20.7	90 W	62*	44*
9 18	5 6.23	+19 28.7	3.202	3.485	16.6	20.6	98 W	64*	45
9 28	5 10.14	+19 26.5	3.080	3.503	15.9	20.5	107 W	64	45
10 8	5 12.12	+19 21.8	2.964	3.521	14.8	20.4	116 W	64	45
10 18	5 12.06	+19 15.0	2.860	3.539	13.2	20.3	126 W	64	45
10 28	5 9.93	+19 6.6	2.771	3.558	11.1	20.2	136 W	64	45
11 7	5 5.88	+18 57.2	2.702	3.576	8.6	20.0	147 W	64	45
11 17	5 0.21	+18 47.1	2.657	3.595	5.8	19.9	159 W	64	45
11 27	4 53.44	+18 37.0	2.639	3.615	2.7	19.7	170 W	64	45
12 7	4 46.21	+18 27.8	2.652	3.634	1.3	19.6	175 E	63	46
12 17	4 39.23	+18 20.5	2.694	3.654	4.0	19.8	165 E	63	46
12 27	4 33.18	+18 16.3	2.766	3.674	6.8	20.0	154 E	63	46
1 6	4 28.56	+18 16.2	2.865	3.694	9.3	20.2	143 E	63	46
1 16	4 25.70	+18 20.7	2.986	3.715	11.4	20.4	132 E	63	46

280481 2004 HL_{48}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 44.10	+10 2.8	2.097	2.313	25.2	20.7	90 E	55	47*
1 2	23 55.53	+ 9 40.8	2.192	2.277	25.3	20.8	82 E	55	42*
1 12	0 8.58	+ 9 36.8	2.284	2.241	25.1	20.8	75 E	54*	38*
1 22	0 23.03	+ 9 48.1	2.371	2.204	24.5	20.8	68 E	52*	33*
2 1	0 38.72	+10 12.1	2.451	2.166	23.6	20.8	62 E	49*	29*
2 11	0 55.53	+10 46.4	2.523	2.128	22.5	20.8	56 E	45*	26*
2 21	1 13.36	+11 28.4	2.586	2.089	21.2	20.8	50 E	40*	23*
3 2	1 32.17	+12 15.8	2.639	2.050	19.7	20.8	44 E	36*	20*
3 12	1 51.89	+13 6.2	2.683	2.011	18.1	20.7	39 E	31*	18*
3 22	2 12.52	+13 57.4	2.717	1.972	16.4	20.6	34 E	26*	16*
4 1	2 34.04	+14 47.1	2.741	1.933	14.7	20.5	29 E	21*	14*
4 11	2 56.45	+15 33.0	2.756	1.895	12.9	20.4	25 E	16*	12*
4 21	3 19.73	+16 13.1	2.761	1.857	11.1	20.3	21 E	11*	10*
5 1	3 43.89	+16 45.0	2.759	1.819	9.3	20.2	17 E	7*	8*
5 11	4 8.87	+17 6.6	2.749	1.783	7.6	20.1	14 E	2*	6*
5 21	4 34.65	+17 15.8	2.733	1.748	6.1	20.0	11 E	—	4*
5 31	5 1.18	+17 10.8	2.711	1.714	4.9	19.9	8 E	—	2*
6 10	5 28.35	+16 49.8	2.685	1.682	4.3	19.8	7 E	—	—
6 20	5 56.08	+16 11.4	2.655	1.652	4.5	19.7	7 E	—	—
6 30	6 24.25	+15 14.7	2.623	1.624	5.3	19.7	8 W	—	—
7 10	6 52.72	+13 59.1	2.590	1.599	6.4	19.7	10 W	—	3*
7 20	7 21.40	+12 24.7	2.556	1.577	7.7	19.7	12 W	—	6*
7 30	7 50.15	+10 32.2	2.524	1.558	9.1	19.7	14 W	—	8*
8 9	8 18.87	+ 8 23.0	2.493	1.543	10.4	19.7	16 W	—	10*
8 19	8 47.50	+ 5 58.9	2.464	1.531	11.6	19.7	18 W	—	12*
8 29	9 15.96	+ 3 22.4	2.438	1.523	12.8	19.7	19 W	3*	13*
9 8	9 44.22	+ 0 36.5	2.415	1.520	13.9	19.7	21 W	5*	15*
9 18	10 12.29	− 2 15.6	2.394	1.520	14.9	19.7	23 W	7*	16*
9 28	10 40.15	− 5 10.6	2.376	1.525	16.0	19.8	25 W	9*	17*
10 8	11 7.82	− 8 5.0	2.360	1.534	17.0	19.8	27 W	11*	19*
10 18	11 35.31	−10 55.6	2.344	1.546	18.0	19.8	29 W	12*	20*
10 28	12 2.63	−13 39.2	2.329	1.562	19.1	19.9	31 W	14*	22*
11 7	12 29.77	−16 13.1	2.312	1.582	20.2	19.9	33 W	15*	24*
11 17	12 56.72	−18 34.8	2.293	1.605	21.3	20.0	36 W	16*	27*
11 27	13 23.41	−20 42.2	2.271	1.631	22.5	20.0	39 W	17*	30*
12 7	13 49.78	−22 33.6	2.244	1.659	23.7	20.1	43 W	18*	33*
12 17	14 15.70	−24 7.9	2.212	1.689	24.9	20.1	46 W	18*	37*
12 27	14 41.00	−25 24.0	2.174	1.722	26.1	20.2	50 W	18*	42*
1 6	15 5.51	−26 21.6	2.129	1.756	27.2	20.2	55 W	17*	47*
1 16	15 29.02	−27 0.6	2.078	1.792	28.2	20.2	60 W	17*	52*

455165 1999 AL_{10}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 23	23 45.62	+49 53.4	1.009	1.582	36.9	19.4	105 E	85	11*
12 28	23 58.01	+49 54.3	1.029	1.581	37.2	19.5	104 E	85	11*
1 2	0 11.75	+49 56.3	1.049	1.581	37.5	19.5	102 E	85	10*
1 7	0 26.73	+49 58.5	1.071	1.582	37.7	19.6	101 E	85	10*
1 12	0 42.83	+49 59.8	1.093	1.584	37.8	19.6	99 E	85	9*
1 17	0 59.96	+49 59.1	1.117	1.587	37.9	19.7	98 E	85*	9*
1 22	1 17.98	+49 55.5	1.142	1.592	37.9	19.7	97 E	85*	9*
1 27	1 36.75	+49 48.0	1.169	1.597	37.9	19.8	95 E	85*	9*
2 1	1 56.13	+49 36.0	1.198	1.604	37.8	19.8	94 E	84*	10*
2 6	2 15.93	+49 18.7	1.229	1.611	37.7	19.9	93 E	83*	10*
2 11	2 35.99	+48 55.6	1.261	1.620	37.5	20.0	91 E	83*	11*
2 16	2 56.13	+48 26.3	1.296	1.630	37.3	20.0	90 E	82*	11*
2 21	3 16.20	+47 50.8	1.334	1.641	37.0	20.1	89 E	81*	12*
2 26	3 36.07	+47 9.2	1.373	1.652	36.7	20.2	87 E	80*	13*
3 2	3 55.62	+46 21.9	1.416	1.665	36.4	20.2	86 E	79*	14*
3 7	4 14.73	+45 29.3	1.460	1.679	36.0	20.3	84 E	78*	15*
3 12	4 33.34	+44 31.7	1.507	1.693	35.6	20.4	82 E	76*	17*
3 17	4 51.38	+43 29.8	1.556	1.708	35.1	20.5	81 E	75*	18*
3 22	5 8.84	+42 24.1	1.607	1.724	34.6	20.5	79 E	73*	19*
3 27	5 25.70	+41 15.3	1.660	1.740	34.0	20.6	77 E	71*	20*
4 1	5 41.95	+40 3.8	1.716	1.757	33.4	20.7	76 E	69*	21*
4 6	5 57.61	+38 50.1	1.773	1.775	32.8	20.8	74 E	66*	23*
4 11	6 12.69	+37 34.8	1.831	1.793	32.1	20.8	72 E	64*	24*
4 16	6 27.21	+36 18.0	1.891	1.812	31.4	20.9	70 E	61*	25*
4 21	6 41.21	+35 0.3	1.953	1.832	30.6	21.0	68 E	58*	26*
4 26	6 54.72	+33 41.8	2.015	1.852	29.8	21.1	66 E	55*	27*
5 1	7 7.76	+32 22.8	2.079	1.872	29.0	21.1	64 E	52*	28*
5 6	7 20.35	+31 3.5	2.143	1.892	28.1	21.2	62 E	49*	29*
5 11	7 32.54	+29 44.1	2.207	1.913	27.2	21.2	60 E	46*	30*
5 16	7 44.34	+28 24.6	2.272	1.935	26.3	21.3	58 E	42*	31*
5 21	7 55.79	+27 5.1	2.337	1.956	25.3	21.4	56 E	39*	31*
5 26	8 6.91	+25 45.8	2.402	1.978	24.4	21.4	54 E	36*	32*
5 31	8 17.72	+24 26.6	2.467	2.000	23.4	21.5	52 E	32*	32*

428090 2006 PU_{32}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 46.08	+20 38.9	1.665	2.000	29.4	21.3	95 E	66	38*
1 2	23 59.48	+22 3.9	1.804	2.030	29.0	21.5	88 E	67	33*
1 12	0 14.34	+23 33.3	1.942	2.060	28.3	21.7	83 E	68*	28*
1 22	0 30.43	+25 6.1	2.079	2.090	27.3	21.8	77 E	67*	24*
2 1	0 47.60	+26 41.4	2.214	2.120	26.2	21.9	72 E	64*	20*

215263 2001 OW_{23}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 46.23	+28 55.4	1.175	1.631	36.7	18.5	98 E	74	31*
12 28	23 59.83	+28 48.7	1.214	1.639	36.6	18.6	96 E	74	30*
1 2	0 13.68	+28 43.9	1.255	1.649	36.5	18.7	94 E	74	29*
1 7	0 27.72	+28 40.7	1.298	1.659	36.3	18.7	92 E	74	28*
1 12	0 41.89	+28 38.9	1.343	1.669	36.1	18.8	90 E	74	28*
1 22	1 10.48	+28 38.0	1.439	1.693	35.5	19.0	87 E	73*	27*
2 1	1 39.17	+28 39.2	1.541	1.719	34.6	19.1	83 E	72*	26*
2 11	2 7.72	+28 40.3	1.650	1.747	33.6	19.3	79 E	69*	25*
2 21	2 35.96	+28 39.3	1.765	1.777	32.4	19.5	75 E	66*	25*
3 2	3 3.79	+28 34.7	1.883	1.809	31.1	19.6	70 E	62*	25*
3 12	3 31.11	+28 25.1	2.005	1.843	29.5	19.7	66 E	58*	25*
3 22	3 57.85	+28 9.4	2.129	1.877	27.9	19.8	62 E	53*	25*
4 1	4 23.98	+27 46.7	2.254	1.913	26.1	20.0	58 E	49*	24*
4 11	4 49.44	+27 16.5	2.378	1.950	24.3	20.1	53 E	44*	24*
4 21	5 14.22	+26 38.4	2.499	1.987	22.4	20.2	49 E	38*	24*
5 1	5 38.30	+25 52.3	2.618	2.024	20.4	20.2	44 E	33*	23*
5 11	6 1.66	+24 58.1	2.733	2.062	18.3	20.3	40 E	27*	23*
5 21	6 24.29	+23 56.0	2.841	2.100	16.2	20.4	35 E	21*	21*
5 31	6 46.21	+22 46.4	2.944	2.138	14.1	20.4	31 E	15*	20*
6 10	7 7.39	+21 29.4	3.039	2.176	12.0	20.4	26 E	10*	17*
6 20	7 27.87	+20 5.7	3.125	2.214	9.8	20.4	22 E	5*	14*
6 30	7 47.65	+18 35.6	3.202	2.251	7.7	20.4	17 E	1*	11*
7 10	8 6.74	+16 59.6	3.269	2.289	5.6	20.4	13 E	—	7*
7 20	8 25.18	+15 18.2	3.326	2.325	3.6	20.4	8 E	—	2*
7 30	8 42.98	+13 31.9	3.371	2.361	2.2	20.4	5 E	—	—
8 9	9 0.14	+11 41.3	3.403	2.397	2.4	20.4	6 W	—	—
8 19	9 16.68	+ 9 46.7	3.424	2.432	4.0	20.6	10 W	—	3*
8 29	9 32.62	+ 7 48.7	3.431	2.466	5.8	20.7	14 W	3*	8*
9 8	9 47.95	+ 5 47.9	3.426	2.499	7.8	20.8	20 W	8*	11*
9 18	10 2.67	+ 3 44.5	3.407	2.532	9.7	20.9	25 W	13*	15*
9 28	10 16.74	+ 1 39.1	3.375	2.564	11.5	21.0	31 W	18*	20*
10 8	10 30.15	− 0 27.8	3.330	2.595	13.2	21.1	36 W	23*	24*
10 18	10 42.84	− 2 35.9	3.272	2.626	14.9	21.1	43 W	27*	29*
10 28	10 54.74	− 4 44.6	3.202	2.655	16.4	21.1	49 W	30*	34*
11 7	11 5.76	− 6 53.3	3.121	2.684	17.7	21.1	55 W	33*	39*
11 17	11 15.77	− 9 1.6	3.029	2.712	18.8	21.1	62 W	34*	46*
11 27	11 24.62	−11 8.8	2.929	2.739	19.7	21.1	69 W	34*	53*
12 7	11 32.13	−13 13.9	2.822	2.765	20.3	21.1	77 W	32	60*
12 17	11 38.06	−15 15.9	2.711	2.790	20.5	21.0	84 W	30	69*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		215263 2001 OW_{23}				*(continuation)*			
	h m	° ′			°	m	°	°	°
12 27	11 42.15	−17 13.3	2.597	2.814	20.4	20.9	92 W	28	78*
1 6	11 44.14	−19 3.8	2.484	2.837	19.9	20.8	101 W	26	83
1 16	11 43.75	−20 44.8	2.376	2.859	18.9	20.7	109 W	24	85
		11318 1994 XZ_4							
12 23	23 47.48	− 7 58.0	1.240	1.492	40.9	19.7	83 E	37	61*
1 2	0 9.60	− 4 0.6	1.295	1.482	40.8	19.8	80 E	41	55*
1 12	0 32.99	− 0 0.2	1.354	1.478	40.3	19.9	77 E	45*	49*
1 22	0 57.50	+ 3 59.0	1.417	1.480	39.6	20.0	74 E	49*	44*
2 1	1 23.09	+ 7 52.5	1.484	1.488	38.7	20.1	71 E	51*	39*
2 11	1 49.66	+11 35.8	1.556	1.501	37.6	20.2	68 E	52*	35*
2 21	2 17.15	+15 4.7	1.634	1.520	36.3	20.3	66 E	52*	32*
3 2	2 45.52	+18 15.3	1.717	1.543	34.9	20.4	63 E	52*	30*
3 12	3 14.63	+21 4.4	1.805	1.572	33.3	20.5	60 E	50*	28*
3 22	3 44.35	+23 29.5	1.898	1.604	31.7	20.6	58 E	48*	26*
4 1	4 14.50	+25 28.9	1.995	1.640	29.9	20.7	55 E	46*	25*
4 11	4 44.85	+27 1.9	2.097	1.679	28.1	20.8	52 E	43*	24*
4 21	5 15.14	+28 8.4	2.201	1.721	26.2	20.9	49 E	39*	23*
5 1	5 45.13	+28 49.4	2.307	1.766	24.3	21.0	46 E	36*	22*
5 11	6 14.56	+29 6.3	2.414	1.812	22.4	21.1	43 E	32*	22*
5 21	6 43.22	+29 1.1	2.522	1.859	20.4	21.2	40 E	28*	21*
5 31	7 10.96	+28 36.2	2.628	1.908	18.3	21.2	36 E	23*	20*
6 10	7 37.65	+27 54.0	2.733	1.958	16.3	21.3	33 E	19*	18*
6 20	8 3.25	+26 57.2	2.834	2.008	14.3	21.4	29 E	16*	16*
6 30	8 27.73	+25 48.2	2.931	2.059	12.2	21.4	25 E	12*	14*
7 10	8 51.10	+24 29.3	3.023	2.110	10.2	21.5	22 E	10*	11*
		480904 2002 RQ_{242}							
12 23	23 47.69	+32 55.3	1.114	1.604	37.2	20.6	100 E	78	27*
12 28	23 57.49	+33 21.1	1.145	1.601	37.5	20.6	97 E	78	26*
1 2	0 8.15	+33 49.2	1.176	1.599	37.8	20.7	95 E	79	24*
1 7	0 19.59	+34 19.2	1.207	1.597	37.9	20.7	93 E	79	23*
1 12	0 31.77	+34 50.5	1.239	1.596	38.0	20.8	91 E	80*	21*
1 17	0 44.64	+35 22.3	1.271	1.596	38.0	20.9	89 E	80*	20*
1 22	0 58.18	+35 54.3	1.304	1.597	38.0	20.9	87 E	79*	19*
1 27	1 12.34	+36 25.6	1.337	1.599	37.9	21.0	86 E	79*	18*
2 1	1 27.07	+36 55.8	1.371	1.601	37.7	21.0	84 E	77*	18*
2 6	1 42.32	+37 24.1	1.406	1.604	37.5	21.1	82 E	76*	17*
2 11	1 58.04	+37 49.9	1.441	1.609	37.2	21.1	81 E	75*	17*
2 16	2 14.17	+38 12.5	1.478	1.613	36.9	21.2	79 E	73*	16*
2 21	2 30.66	+38 31.4	1.515	1.619	36.6	21.2	77 E	71*	16*
2 26	2 47.46	+38 46.1	1.554	1.626	36.2	21.3	76 E	70*	16*
3 2	3 4.48	+38 56.3	1.593	1.633	35.8	21.3	74 E	68*	16*
3 7	3 21.66	+39 1.5	1.634	1.641	35.3	21.4	73 E	67*	17*
3 12	3 38.92	+39 1.5	1.675	1.650	34.8	21.4	71 E	65*	17*
3 17	3 56.20	+38 56.1	1.718	1.659	34.2	21.5	70 E	64*	17*
		79512 1998 KE_3							
12 23	23 47.85	−46 29.9	2.668	2.522	21.6	20.5	71 E	—	62*
12 28	23 53.39	−44 34.5	2.716	2.526	21.2	20.5	68 E	—	61*
1 2	23 59.14	−42 40.4	2.764	2.531	20.8	20.5	66 E	2	59*
1 7	0 5.06	−40 47.7	2.812	2.535	20.4	20.6	64 E	4*	57*
1 12	0 11.13	−38 56.6	2.859	2.539	19.9	20.6	61 E	6*	55*
1 17	0 17.32	−37 7.1	2.906	2.543	19.4	20.6	59 E	7*	53*
1 22	0 23.63	−35 19.4	2.952	2.547	18.8	20.6	57 E	8*	51*
1 27	0 30.03	−33 33.5	2.998	2.550	18.3	20.7	54 E	9*	48*
2 1	0 36.51	−31 49.5	3.042	2.553	17.7	20.7	52 E	10*	46*
2 6	0 43.07	−30 7.5	3.085	2.555	17.0	20.7	49 E	10*	43*
2 11	0 49.68	−28 27.5	3.126	2.558	16.4	20.7	47 E	10*	41*
2 16	0 56.35	−26 49.5	3.166	2.560	15.7	20.7	45 E	9*	39*
2 21	1 3.06	−25 13.6	3.204	2.562	15.1	20.7	42 E	9*	36*
2 26	1 9.82	−23 39.8	3.240	2.563	14.4	20.7	40 E	7*	34*
3 2	1 16.62	−22 8.2	3.274	2.564	13.7	20.7	38 E	6*	32*
3 7	1 23.44	−20 38.7	3.305	2.565	13.0	20.7	36 E	5*	30*
3 12	1 30.29	−19 11.3	3.334	2.566	12.4	20.7	34 E	3*	27*
3 17	1 37.17	−17 46.1	3.361	2.566	11.7	20.7	32 E	1*	25*
3 22	1 44.07	−16 23.0	3.385	2.566	11.1	20.7	30 E	—	23*
3 27	1 50.98	−15 2.1	3.406	2.566	10.5	20.7	28 E	—	21*
4 1	1 57.91	−13 43.3	3.424	2.566	9.9	20.7	26 E	—	19*
4 6	2 4.85	−12 26.6	3.439	2.565	9.4	20.7	25 E	—	17*
4 11	2 11.80	−11 12.1	3.451	2.564	9.0	20.6	24 E	—	14*
4 16	2 18.75	− 9 59.7	3.460	2.563	8.7	20.6	23 E	—	12*
4 21	2 25.71	− 8 49.3	3.465	2.561	8.4	20.6	22 E	—	10*
4 26	2 32.67	− 7 41.0	3.467	2.559	8.3	20.6	22 E	—	7*
5 1	2 39.63	− 6 34.8	3.466	2.557	8.4	20.6	22 E	—	5*
5 6	2 46.58	− 5 30.6	3.461	2.554	8.5	20.6	22 W	—	5*
5 11	2 53.52	− 4 28.4	3.452	2.552	8.8	20.6	23 W	—	8*
5 16	3 0.44	− 3 28.1	3.440	2.549	9.2	20.6	24 W	—	11*
5 21	3 7.35	− 2 29.8	3.425	2.545	9.7	20.6	25 W	—	14*
5 26	3 14.24	− 1 33.4	3.406	2.542	10.3	20.6	27 W	—	17*
5 31	3 21.10	− 0 38.8	3.383	2.538	11.0	20.7	28 W	—	20*
6 5	3 27.93	+ 0 13.9	3.356	2.534	11.7	20.7	30 W	—	23*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		79512 1998 KE_3				*(continuation)*			
	h m	° ′			°	m	°	°	°
6 10	3 34.72	+ 1 4.9	3.326	2.529	12.4	20.7	32 W	—	26*
6 15	3 41.46	+ 1 54.2	3.293	2.525	13.2	20.7	35 W	—	28*
6 20	3 48.16	+ 2 41.9	3.255	2.520	14.1	20.7	37 W	—	31*
6 25	3 54.79	+ 3 28.0	3.215	2.514	14.9	20.7	39 W	2*	33*
6 30	4 1.36	+ 4 12.7	3.171	2.509	15.7	20.7	42 W	5*	36*
7 5	4 7.84	+ 4 55.9	3.123	2.503	16.6	20.7	45 W	8*	38*
7 10	4 14.24	+ 5 37.8	3.072	2.497	17.4	20.6	47 W	12*	40*
7 15	4 20.54	+ 6 18.6	3.018	2.490	18.2	20.6	50 W	16*	42*
7 20	4 26.73	+ 6 58.3	2.961	2.484	19.0	20.6	53 W	19*	44*
7 25	4 32.78	+ 7 37.0	2.901	2.477	19.8	20.6	56 W	23*	45*
7 30	4 38.69	+ 8 15.0	2.838	2.470	20.6	20.5	59 W	27*	46*
8 4	4 44.43	+ 8 52.4	2.773	2.462	21.3	20.5	62 W	31*	47*
8 9	4 50.00	+ 9 29.4	2.705	2.454	22.0	20.5	65 W	35*	48*
8 19	5 0.48	+10 43.2	2.561	2.438	23.2	20.4	72 W	42*	50*
8 29	5 9.89	+11 58.3	2.410	2.421	24.1	20.3	79 W	49*	50*
9 8	5 17.98	+13 17.5	2.253	2.402	24.7	20.1	86 W	55*	50*
9 18	5 24.36	+14 44.1	2.093	2.383	24.9	19.9	94 W	59*	49*
9 28	5 28.57	+16 22.0	1.933	2.363	24.5	19.7	103 W	61	48
10 8	5 30.04	+18 15.8	1.777	2.341	23.3	19.5	112 W	63	46
10 13	5 29.51	+19 20.0	1.701	2.330	22.4	19.4	117 W	64	45
10 18	5 28.01	+20 29.8	1.629	2.319	21.3	19.2	122 W	65	44
10 23	5 25.43	+21 45.5	1.560	2.307	19.9	19.1	128 W	67	42
10 28	5 21.67	+23 7.3	1.495	2.295	18.3	18.9	134 W	68	41
11 7	5 10.21	+26 7.5	1.382	2.271	14.2	18.6	146 W	71	38
11 17	4 53.15	+29 22.7	1.297	2.246	9.3	18.2	158 W	74	35
11 27	4 30.93	+32 36.5	1.246	2.220	5.4	18.0	168 W	78	31
12 2	4 18.41	+34 6.3	1.234	2.206	5.6	17.9	167 E	79	30
12 7	4 5.40	+35 28.1	1.231	2.193	7.5	18.0	163 E	80	29
12 12	3 52.33	+36 40.3	1.238	2.179	10.1	18.1	157 E	82	27
12 17	3 39.63	+37 42.3	1.253	2.165	12.8	18.2	151 E	83	26
12 22	3 27.72	+38 34.5	1.276	2.151	15.6	18.3	144 E	84	25
12 27	3 16.94	+39 18.1	1.305	2.137	18.1	18.5	138 E	84	25
1 1	3 7.51	+39 54.8	1.341	2.123	20.4	18.6	131 E	85	24
1 6	2 59.56	+40 26.3	1.381	2.108	22.4	18.7	125 E	85	24
1 11	2 53.16	+40 54.5	1.425	2.093	24.1	18.8	120 E	86	23
1 16	2 48.31	+41 21.0	1.471	2.078	25.6	18.9	114 E	86	23*
		489152 2006 DC_{217}							
12 23	23 48.05	+17 33.4	1.271	1.657	36.3	21.1	94 E	63	41*
1 2	0 1.90	+19 46.0	1.334	1.628	37.1	21.2	88 E	65	35*
1 12	0 18.71	+22 7.4	1.394	1.602	37.5	21.3	83 E	67*	30*
1 22	0 38.27	+24 34.9	1.452	1.580	37.6	21.3	78 E	67*	26*
2 1	1 0.53	+27 5.6	1.507	1.561	37.4	21.4	74 E	66*	22*
2 11	1 25.44	+29 35.5	1.559	1.546	37.1	21.4	71 E	64*	19*
2 21	1 53.00	+31 59.5	1.610	1.536	36.5	21.5	68 E	61*	16*
3 2	2 23.19	+34 12.1	1.661	1.529	35.9	21.5	65 E	59*	15*
		82676 2001 PV_{23}							
12 23	23 48.32	+ 3 25.9	1.621	1.868	31.8	18.8	88 E	48	53*
1 2	0 5.89	+ 5 36.2	1.755	1.902	30.9	18.9	83 E	51	47*
1 12	0 23.98	+ 7 45.3	1.891	1.936	29.7	19.1	78 E	53*	42*
1 22	0 42.49	+ 9 52.4	2.029	1.972	28.4	19.3	73 E	54*	37*
2 1	1 1.37	+11 56.6	2.166	2.008	27.0	19.4	68 E	53*	33*
2 11	1 20.56	+13 57.0	2.302	2.044	25.4	19.5	63 E	51*	29*
2 21	1 40.04	+15 52.6	2.436	2.080	23.6	19.6	58 E	48*	25*
3 2	1 59.78	+17 42.7	2.567	2.117	21.8	19.7	53 E	44*	22*
3 12	2 19.77	+19 26.4	2.693	2.154	20.0	19.8	48 E	40*	19*
3 22	2 39.96	+21 2.9	2.814	2.190	18.0	19.9	43 E	35*	17*
4 1	3 0.36	+22 31.5	2.928	2.227	16.0	19.9	38 E	31*	14*
4 11	3 20.91	+23 51.7	3.035	2.263	14.0	20.0	33 E	26*	12*
4 21	3 41.58	+25 3.0	3.134	2.299	12.0	20.0	28 E	21*	10*
5 1	4 2.33	+26 4.9	3.224	2.334	9.9	20.0	23 E	16*	7*
5 11	4 23.09	+26 57.2	3.303	2.369	7.9	20.0	19 E	12*	4*
5 21	4 43.81	+27 39.9	3.373	2.403	5.9	20.0	14 E	7*	1*
5 31	5 4.42	+28 12.9	3.431	2.437	4.0	20.0	10 E	3*	—
6 10	5 24.84	+28 36.3	3.477	2.470	2.5	19.9	6 E	—	—
6 20	5 45.01	+28 50.6	3.511	2.502	2.4	20.0	6 W	—	—
6 30	6 4.85	+28 56.1	3.532	2.534	3.7	20.1	9 W	3*	—
7 10	6 24.27	+28 53.4	3.541	2.565	5.4	20.2	14 W	7*	1*
7 20	6 43.22	+28 43.2	3.536	2.595	7.2	20.3	19 W	11*	5*
7 30	7 1.60	+28 26.3	3.518	2.624	9.1	20.4	24 W	16*	8*
8 9	7 19.35	+28 3.8	3.486	2.653	10.9	20.5	30 W	22*	11*
8 19	7 36.40	+27 36.6	3.442	2.680	12.6	20.6	35 W	27*	14*
8 29	7 52.66	+27 5.9	3.384	2.707	14.2	20.6	41 W	33*	17*
9 8	8 8.06	+26 33.0	3.313	2.733	15.7	20.6	47 W	39*	19*
9 18	8 22.52	+25 59.2	3.231	2.758	17.1	20.7	54 W	46*	22*
9 28	8 35.90	+25 26.1	3.137	2.782	18.2	20.6	60 W	52*	25*
10 8	8 48.11	+24 55.2	3.034	2.805	19.2	20.6	67 W	58*	27*
10 18	8 58.98	+24 28.2	2.922	2.828	19.9	20.6	75 W	64*	30*

82676 2001 PV_{23} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 28	9 8.33	+24 7.0	2.804	2.849	20.2	20.5	82 W	68*	33*
11 7	9 15.95	+23 53.2	2.682	2.869	20.2	20.4	91 W	69	36*
11 17	9 21.59	+23 48.6	2.559	2.889	19.7	20.3	99 W	69	38*
11 27	9 24.97	+23 54.6	2.438	2.907	18.8	20.2	109 W	69	40*
12 7	9 25.84	+24 11.9	2.324	2.925	17.2	20.1	119 W	69	40
12 17	9 23.97	+24 40.3	2.221	2.942	15.1	19.9	129 W	70	39
12 27	9 19.24	+25 17.7	2.135	2.957	12.3	19.7	140 W	70	39
1 6	9 11.82	+26 0.5	2.070	2.972	9.1	19.6	152 W	71	38
1 16	9 2.15	+26 43.5	2.032	2.986	5.6	19.4	163 W	72	37

411201 2010 LJ_{14}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 48.66	−13 21.5	0.985	1.287	49.1	20.2	82 E	32	65*
1 2	0 10.99	−11 40.9	1.004	1.242	50.6	20.2	77 E	33	60*
1 12	0 35.57	− 9 38.0	1.015	1.200	51.9	20.1	74 E	35	55*
1 22	1 2.26	− 7 14.7	1.019	1.162	53.2	20.1	71 E	37*	52*
2 1	1 31.05	− 4 33.0	1.017	1.129	54.4	20.1	69 E	39*	49*
2 11	2 1.98	− 1 35.8	1.009	1.102	55.5	20.0	67 E	41*	46*
2 21	2 35.12	+ 1 33.5	0.999	1.083	56.5	20.0	66 E	42*	45*
2 26	2 52.57	+ 3 11.2	0.993	1.077	57.0	20.0	66 E	43*	44*
3 2	3 10.64	+ 4 49.9	0.988	1.072	57.3	20.0	66 E	44*	44*
3 7	3 29.31	+ 6 28.7	0.983	1.070	57.6	20.0	66 E	44*	43*
3 12	3 48.59	+ 8 6.4	0.979	1.070	57.8	20.0	66 E	45*	43*
3 17	4 8.48	+ 9 41.9	0.976	1.072	57.9	20.0	66 E	45*	43*
3 22	4 28.97	+11 13.9	0.975	1.077	57.9	20.0	66 E	46*	42*
3 27	4 50.03	+12 40.9	0.976	1.083	57.7	20.0	67 E	46*	42*
4 1	5 11.59	+14 1.5	0.979	1.092	57.4	20.0	67 E	47*	42*
4 6	5 33.58	+15 14.1	0.985	1.102	57.0	20.0	67 E	47*	42*
4 11	5 55.90	+16 17.5	0.993	1.114	56.4	20.1	68 E	47*	42*
4 16	6 18.42	+17 10.7	1.005	1.128	55.8	20.1	68 E	47*	42*
4 21	6 41.04	+17 52.6	1.020	1.144	55.0	20.1	69 E	47*	42*
4 26	7 3.62	+18 22.9	1.038	1.161	54.1	20.2	69 E	47*	42*
5 1	7 26.01	+18 41.3	1.059	1.180	53.2	20.2	70 E	47*	43*
5 6	7 48.08	+18 47.9	1.083	1.199	52.2	20.3	70 E	46*	43*
5 11	8 9.70	+18 43.3	1.110	1.220	51.1	20.4	70 E	45*	43*
5 16	8 30.79	+18 28.1	1.141	1.241	50.0	20.4	70 E	44*	44*
5 21	8 51.27	+18 3.2	1.175	1.263	48.9	20.5	70 E	43*	44*
5 26	9 11.10	+17 29.7	1.211	1.286	47.8	20.6	70 E	41*	45*
5 31	9 30.25	+16 48.5	1.250	1.309	46.6	20.6	70 E	40*	46*
6 5	9 48.70	+16 0.7	1.291	1.333	45.5	20.7	69 E	38*	46*
6 10	10 6.45	+15 7.5	1.335	1.357	44.3	20.8	69 E	37*	47*
6 15	10 23.53	+14 9.7	1.381	1.382	43.2	20.9	68 E	35*	48*
6 20	10 39.99	+13 8.2	1.429	1.406	42.0	21.0	68 E	34*	49*
6 25	10 55.85	+12 3.7	1.478	1.431	40.9	21.0	67 E	32*	49*
6 30	11 11.15	+10 56.9	1.529	1.455	39.7	21.1	66 E	31*	50*
7 5	11 25.93	+ 9 48.6	1.581	1.480	38.6	21.2	65 E	29*	50*
7 10	11 40.24	+ 8 39.2	1.635	1.504	37.5	21.3	64 E	28*	50*
7 15	11 54.12	+ 7 29.2	1.689	1.528	36.4	21.3	63 E	27*	50*
7 20	12 7.62	+ 6 19.0	1.745	1.552	35.3	21.4	62 E	25*	50*
7 25	12 20.78	+ 5 8.9	1.801	1.576	34.2	21.5	61 E	24*	50*

439848 1998 SF_{110}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 48.71	+ 4 30.5	1.556	1.821	32.7	21.1	89 E	50	52*
1 2	0 7.82	+ 6 42.1	1.685	1.856	31.8	21.3	84 E	52	47*
1 12	0 27.34	+ 8 52.1	1.818	1.893	30.6	21.5	79 E	54*	42*
1 22	0 47.17	+10 59.3	1.953	1.931	29.3	21.7	74 E	55*	37*
2 1	1 7.29	+13 2.9	2.090	1.971	27.9	21.8	69 E	55*	33*

316829 1999 YS

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 48.76	+25 44.1	2.481	2.779	20.6	19.8	97 E	71	34*
1 2	23 57.87	+24 37.8	2.571	2.740	21.0	19.9	89 E	70	31*
1 12	0 8.69	+23 50.1	2.663	2.699	21.1	19.9	82 E	68*	27*
1 22	0 20.99	+23 19.4	2.752	2.658	20.9	19.9	74 E	65*	24*
2 1	0 34.58	+23 3.8	2.836	2.616	20.3	20.0	67 E	60*	20*
2 11	0 49.31	+23 1.1	2.914	2.574	19.5	20.0	60 E	54*	17*
2 21	1 5.06	+23 9.0	2.983	2.531	18.4	19.9	54 E	48*	14*
3 2	1 21.74	+23 25.1	3.043	2.487	17.1	19.9	48 E	42*	12*
3 12	1 39.28	+23 47.2	3.093	2.442	15.7	19.8	42 E	36*	9*
3 22	1 57.64	+24 13.0	3.131	2.397	14.1	19.8	36 E	30*	7*
4 1	2 16.78	+24 40.4	3.158	2.351	12.4	19.7	30 E	24*	5*
4 11	2 36.67	+25 7.1	3.174	2.305	10.6	19.6	25 E	19*	3*
4 21	2 57.30	+25 31.1	3.177	2.259	8.7	19.5	20 E	14*	1*
5 1	3 18.64	+25 50.4	3.170	2.212	6.8	19.3	15 E	9*	—
5 11	3 40.65	+26 2.8	3.151	2.166	4.9	19.2	10 E	4*	—
5 21	4 3.31	+26 6.4	3.122	2.119	3.1	19.0	6 E	—	—
5 31	4 26.57	+25 59.3	3.082	2.072	2.1	18.9	4 W	—	—
6 10	4 50.36	+25 39.5	3.033	2.026	2.9	18.8	6 W	—	—
6 20	5 14.62	+25 5.3	2.976	1.981	4.8	18.9	9 W	1*	1*
6 30	5 39.27	+24 15.0	2.912	1.936	6.9	18.9	13 W	3*	5*
7 10	6 4.20	+23 7.1	2.841	1.892	9.0	18.9	17 W	5*	8*
7 20	6 29.35	+21 40.2	2.764	1.849	11.2	18.8	21 W	8*	11*
7 30	6 54.62	+19 53.4	2.683	1.808	13.4	18.8	24 W	11*	14*

316829 1999 YS *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 9	7 19.93	+17 45.7	2.600	1.768	15.5	18.8	28 W	15*	17*
8 19	7 45.24	+15 16.7	2.515	1.731	17.7	18.7	31 W	18*	20*
8 29	8 10.49	+12 26.4	2.429	1.696	19.7	18.7	34 W	21*	22*
9 8	8 35.67	+ 9 15.3	2.345	1.664	21.7	18.6	38 W	23*	25*
9 18	9 0.79	+ 5 44.2	2.263	1.635	23.5	18.6	41 W	25*	28*
9 28	9 25.88	+ 1 55.0	2.185	1.610	25.3	18.5	43 W	26*	30*
10 8	9 50.99	− 2 9.8	2.112	1.589	26.9	18.4	46 W	27*	33*
10 18	10 16.20	− 6 27.2	2.044	1.572	28.3	18.4	48 W	27*	36*
10 28	10 41.57	−10 52.9	1.983	1.560	29.6	18.3	51 W	27*	39*
11 2	10 54.35	−13 7.4	1.954	1.556	30.2	18.3	52 W	26*	41*
11 7	11 7.20	−15 22.2	1.927	1.552	30.7	18.3	53 W	25*	43*
11 12	11 20.13	−17 36.6	1.902	1.550	31.3	18.3	54 W	24*	44*
11 17	11 33.16	−19 50.0	1.878	1.550	31.7	18.3	56 W	23*	46*
11 22	11 46.28	−22 1.7	1.855	1.550	32.2	18.3	57 W	21*	48*
11 27	11 59.50	−24 11.0	1.834	1.552	32.5	18.2	58 W	20*	49*
12 2	12 12.83	−26 17.2	1.813	1.555	32.9	18.2	59 W	18*	51*
12 7	12 26.26	−28 19.7	1.794	1.559	33.2	18.2	60 W	16*	53*
12 12	12 39.79	−30 18.1	1.775	1.564	33.5	18.2	61 W	15*	54*
12 17	12 53.40	−32 11.8	1.756	1.571	33.8	18.2	63 W	13*	56*
12 22	13 7.07	−34 0.3	1.738	1.579	34.1	18.2	64 W	11*	58*
12 27	13 20.78	−35 43.1	1.720	1.587	34.3	18.2	65 W	9	59*
1 1	13 34.50	−37 19.9	1.702	1.597	34.5	18.2	67 W	8	61*
1 6	13 48.20	−38 50.6	1.683	1.608	34.7	18.2	68 W	6	62*
1 11	14 1.83	−40 15.0	1.665	1.620	34.8	18.2	70 W	5	64*
1 16	14 15.32	−41 32.8	1.645	1.633	34.9	18.2	72 W	3	65*

145963 1999 YC_7

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 48.83	+21 37.5	2.707	2.968	19.3	21.3	96 E	67	37*
1 2	23 56.08	+21 31.8	2.843	2.967	19.3	21.4	87 E	67	33*
1 12	0 4.85	+21 40.2	2.978	2.965	19.0	21.5	80 E	66*	28*
1 22	0 14.93	+22 1.2	3.108	2.962	18.5	21.6	72 E	63*	24*
2 1	0 26.12	+22 33.3	3.232	2.958	17.6	21.6	65 E	58*	19*

105406 2000 QN_{150}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 48.84	+ 4 34.5	1.486	1.763	33.9	19.8	89 E	50	52*
1 2	0 8.14	+ 6 32.6	1.604	1.787	33.2	20.0	84 E	52	47*
1 12	0 28.02	+ 8 32.4	1.724	1.813	32.2	20.1	79 E	54*	42*
1 22	0 48.37	+10 32.1	1.845	1.839	31.0	20.3	74 E	55*	38*
2 1	1 9.14	+12 30.3	1.967	1.866	29.6	20.4	69 E	54*	34*
2 11	1 30.26	+14 25.4	2.090	1.894	28.1	20.5	65 E	53*	30*
2 21	1 51.71	+16 15.7	2.211	1.923	26.5	20.6	60 E	50*	27*
3 2	2 13.46	+18 0.1	2.330	1.952	24.8	20.7	56 E	47*	24*
3 12	2 35.48	+19 37.2	2.446	1.981	23.0	20.8	51 E	43*	22*
3 22	2 57.73	+21 5.9	2.559	2.011	21.1	20.9	47 E	38*	20*
4 1	3 20.19	+22 25.3	2.668	2.041	19.2	21.0	42 E	34*	18*
4 11	3 42.80	+23 34.5	2.770	2.070	17.2	21.0	38 E	29*	16*
4 21	4 5.51	+24 32.9	2.867	2.100	15.2	21.0	33 E	25*	14*
5 1	4 28.27	+25 19.9	2.957	2.129	13.1	21.1	29 E	20*	12*
5 11	4 50.99	+25 55.3	3.039	2.158	11.1	21.1	24 E	15*	10*
5 21	5 13.61	+26 19.0	3.113	2.187	9.0	21.1	20 E	11*	7*
5 31	5 36.04	+26 31.0	3.178	2.215	6.9	21.1	15 E	7*	5*
6 10	5 58.20	+26 31.5	3.233	2.243	4.8	21.0	11 E	3*	1*
6 20	6 20.02	+26 21.1	3.278	2.270	2.8	21.0	6 E	—	—
6 30	6 41.42	+26 0.2	3.312	2.297	1.3	20.9	3 E	—	—
7 10	7 2.33	+25 29.6	3.335	2.323	2.1	21.0	5 W	—	—
7 20	7 22.72	+24 50.0	3.346	2.348	4.0	21.1	9 W	2*	—
7 30	7 42.51	+24 2.3	3.345	2.373	5.9	21.3	14 W	7*	3*
8 9	8 1.66	+23 7.5	3.333	2.397	7.9	21.4	19 W	11*	6*
8 19	8 20.16	+22 6.5	3.308	2.420	9.9	21.5	24 W	16*	9*

269902 2000 HU_3

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 49.12	− 1 43.1	1.729	1.933	30.5	21.2	86 E	43	57*
1 2	0 6.51	+ 0 14.3	1.869	1.968	29.5	21.4	81 E	45	51*
1 12	0 24.24	+ 2 13.2	2.010	2.004	28.4	21.6	75 E	47*	46*
1 22	0 42.23	+ 4 12.0	2.152	2.041	27.0	21.7	70 E	48*	41*
2 1	1 0.45	+ 6 9.6	2.293	2.078	25.4	21.9	65 E	48*	36*

42286 2001 TN_{41}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	23 49.55	−17 30.0	1.873	1.963	29.6	20.6	80 E	28	67*
1 2	0 0.53	−14 17.1	1.999	1.970	28.7	20.7	74 E	31	59*
1 12	0 12.60	−11 10.4	2.121	1.974	27.5	20.8	68 E	34*	51*
1 22	0 25.58	− 8 9.2	2.237	1.976	26.1	20.9	62 E	35*	44*
2 1	0 39.35	− 5 12.9	2.346	1.974	24.5	21.0	56 E	35*	38*
2 11	0 53.81	− 2 21.2	2.445	1.969	22.7	21.0	50 E	34*	33*
2 21	1 8.90	+ 0 26.3	2.534	1.961	20.8	21.0	45 E	31*	28*
3 2	1 24.62	+ 3 9.8	2.612	1.951	18.8	21.0	39 E	28*	23*
3 12	1 40.94	+ 5 49.2	2.677	1.937	16.7	21.0	34 E	24*	19*
3 22	1 57.90	+ 8 24.6	2.730	1.921	14.6	20.9	29 E	19*	15*
4 1	2 15.53	+10 55.7	2.770	1.901	12.3	20.8	24 E	15*	12*
4 11	2 33.86	+13 22.4	2.796	1.878	10.1	20.8	19 E	11*	8*
4 21	2 52.99	+15 44.2	2.809	1.853	7.8	20.6	14 E	6*	5*

42286 2001 TN_{41} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 1	3 12.99	+18 0.8	2.808	1.824	5.4	20.5	10 E	2*	1*
5 11	3 33.95	+20 11.3	2.795	1.792	3.2	20.3	6 E	—	—
5 21	3 55.99	+22 14.9	2.768	1.757	1.3	20.1	2 E	—	—
5 31	4 19.25	+24 10.7	2.730	1.720	2.2	20.1	4 W	—	—
6 10	4 43.85	+25 57.2	2.681	1.679	4.4	20.2	7 W	—	—
6 20	5 9.97	+27 32.5	2.621	1.635	6.8	20.2	11 W	3*	1*
6 30	5 37.75	+28 54.6	2.553	1.588	9.2	20.2	14 W	7*	3*
7 10	6 7.33	+30 0.5	2.477	1.539	11.5	20.1	18 W	10*	4*
7 20	6 38.83	+30 46.8	2.395	1.487	13.8	20.1	20 W	13*	5*
7 25	6 55.32	+31 1.3	2.353	1.459	15.0	20.0	22 W	15*	5*
7 30	7 12.31	+31 9.3	2.309	1.432	16.1	20.0	23 W	16*	5*
8 4	7 29.78	+31 10.1	2.266	1.403	17.2	19.9	24 W	18*	5*
8 9	7 47.74	+31 3.0	2.222	1.375	18.3	19.9	25 W	19*	4*
8 14	8 6.16	+30 47.5	2.178	1.345	19.4	19.8	26 W	20*	4*
8 19	8 25.02	+30 22.7	2.134	1.315	20.4	19.8	27 W	21*	4*
8 24	8 44.28	+29 48.1	2.091	1.285	21.5	19.7	28 W	22*	3*
8 29	9 3.89	+29 2.9	2.050	1.255	22.4	19.6	28 W	22*	3*
9 3	9 23.81	+28 6.6	2.009	1.224	23.3	19.6	29 W	23*	2*
9 8	9 43.99	+26 58.6	1.970	1.194	24.1	19.5	29 W	23*	2*
9 18	10 24.89	+24 6.4	1.899	1.132	25.6	19.3	29 W	23*	1*
9 28	11 6.16	+20 25.2	1.839	1.073	26.6	19.2	29 W	22*	—
10 8	11 47.44	+15 57.1	1.792	1.016	27.0	19.0	27 W	21*	—
10 13	12 8.02	+13 27.1	1.774	0.990	26.9	18.9	27 W	20*	—
10 18	12 28.55	+10 47.8	1.759	0.965	26.7	18.9	26 W	20*	—
10 23	12 49.03	+ 8 0.7	1.749	0.942	26.2	18.8	25 W	19*	—
10 28	13 9.48	+ 5 7.2	1.741	0.921	25.6	18.7	24 W	18*	—
11 2	13 29.92	+ 2 9.1	1.738	0.903	24.7	18.6	22 W	16*	—
11 7	13 50.41	− 0 51.8	1.738	0.888	23.7	18.6	21 W	15*	—
11 12	14 11.00	− 3 53.6	1.741	0.877	22.5	18.5	20 W	14*	—
11 17	14 31.73	− 6 54.1	1.747	0.869	21.3	18.4	19 W	12*	1*
11 22	14 52.66	− 9 51.1	1.755	0.864	19.9	18.4	17 W	11*	2*
11 27	15 13.84	−12 42.7	1.766	0.864	18.6	18.4	16 W	9*	2*
12 2	15 35.31	−15 26.7	1.779	0.867	17.3	18.4	15 W	8*	3*
12 7	15 57.11	−18 1.2	1.794	0.875	16.2	18.4	14 W	6*	4*
12 12	16 19.24	−20 24.3	1.811	0.885	15.2	18.4	14 W	5*	4*
12 17	16 41.70	−22 34.6	1.829	0.899	14.5	18.4	13 W	3*	5*
12 22	17 4.44	−24 30.6	1.848	0.917	14.0	18.4	13 W	2*	6*
12 27	17 27.41	−26 11.4	1.868	0.937	13.7	18.5	13 W	—	7*
1 1	17 50.51	−27 36.3	1.889	0.959	13.6	18.6	13 W	—	7*
1 6	18 13.64	−28 45.0	1.911	0.983	13.7	18.7	14 W	—	8*
1 11	18 36.68	−29 37.6	1.934	1.010	13.8	18.7	14 W	—	8*
1 16	18 59.50	−30 14.5	1.957	1.037	14.1	18.8	15 W	—	9*

4183 Cuno

12 23	23 50.48	+ 6 53.2	2.365	2.562	22.6	19.4	90 E	52	50*
1 2	23 56.49	+ 7 4.4	2.459	2.507	22.8	19.4	81 E	52	45*
1 12	0 4.43	+ 7 30.5	2.547	2.450	22.6	19.5	73 E	52*	39*
1 22	0 14.05	+ 8 9.6	2.625	2.391	22.0	19.5	65 E	50*	33*
2 1	0 25.19	+ 9 0.4	2.691	2.329	21.1	19.4	58 E	46*	27*
2 11	0 37.71	+10 1.1	2.744	2.264	19.9	19.4	51 E	42*	23*
2 21	0 51.51	+11 10.2	2.783	2.196	18.5	19.3	45 E	37*	18*
3 2	1 6.55	+12 26.6	2.806	2.126	17.0	19.2	39 E	31*	15*
3 12	1 22.83	+13 48.6	2.813	2.053	15.3	19.1	33 E	26*	11*
3 22	1 40.38	+15 15.0	2.805	1.976	13.5	18.9	28 E	21*	8*
4 1	1 59.29	+16 44.2	2.781	1.897	11.6	18.7	23 E	16*	5*
4 11	2 19.66	+18 14.6	2.743	1.815	9.7	18.5	18 E	11*	3*
4 21	2 41.67	+19 44.2	2.690	1.729	7.8	18.3	14 E	7*	—
5 1	3 5.54	+21 10.7	2.625	1.641	6.0	18.0	10 E	4*	—
5 11	3 31.49	+22 31.0	2.548	1.549	4.2	17.8	6 E	—	—
5 21	3 59.85	+23 41.3	2.463	1.455	2.8	17.5	4 E	—	—
5 26	4 15.03	+24 11.2	2.417	1.406	2.3	17.3	3 E	—	—
5 31	4 30.92	+24 36.7	2.370	1.358	2.0	17.2	3 W	—	—
6 5	4 47.57	+24 56.7	2.321	1.308	2.1	17.1	3 W	—	—
6 10	5 5.00	+25 10.5	2.271	1.259	2.3	16.9	3 W	—	—
6 15	5 23.26	+25 16.8	2.222	1.209	2.7	16.8	3 W	—	—
6 20	5 42.36	+25 14.6	2.171	1.159	3.0	16.7	3 W	—	—
6 25	6 2.31	+25 2.6	2.121	1.109	3.2	16.6	3 W	—	—
6 30	6 23.10	+24 39.4	2.072	1.059	3.3	16.4	3 W	—	—
7 5	6 44.71	+24 3.7	2.024	1.010	3.2	16.3	3 W	—	—
7 10	7 7.12	+23 14.3	1.977	0.963	2.8	16.1	3 W	—	—
7 15	7 30.26	+22 9.8	1.933	0.917	2.1	15.9	2 W	—	—
7 20	7 54.08	+20 49.4	1.890	0.874	1.1	15.7	1 W	—	—
7 30	8 43.38	+17 19.1	1.814	0.800	2.3	15.5	2 E	—	—
8 9	9 34.23	+12 45.3	1.751	0.747	7.3	15.5	5 E	—	—
8 19	10 25.87	+ 7 20.7	1.704	0.726	13.4	15.6	10 E	—	3*
8 24	10 51.76	+ 4 26.4	1.687	0.728	16.6	15.7	12 E	—	6*
8 29	11 17.58	+ 1 28.7	1.676	0.739	19.5	15.8	14 E	—	8*
9 3	11 43.27	− 1 28.7	1.671	0.758	22.0	16.0	16 E	—	10*

4183 Cuno *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 8	12 8.78	− 4 22.2	1.672	0.785	24.0	16.1	18 E	—	12*
9 13	12 34.05	− 7 8.9	1.680	0.817	25.5	16.3	20 E	—	14*
9 18	12 59.02	− 9 45.9	1.695	0.855	26.5	16.4	22 E	—	16*
9 23	13 23.65	−12 11.3	1.716	0.896	27.0	16.5	24 E	—	18*
9 28	13 47.85	−14 23.5	1.744	0.941	27.1	16.7	25 E	1*	19*
10 3	14 11.57	−16 21.6	1.778	0.988	26.8	16.8	26 E	1*	20*
10 8	14 34.74	−18 5.3	1.817	1.036	26.2	17.0	27 E	2*	21*
10 18	15 19.26	−20 50.4	1.911	1.135	24.5	17.2	28 E	3*	22*
10 28	16 1.05	−22 43.1	2.020	1.235	22.3	17.5	28 E	4*	22*
11 7	16 39.94	−23 50.7	2.138	1.334	19.7	17.7	27 E	5*	21*
11 12	16 58.30	−24 10.2	2.200	1.383	18.4	17.8	26 E	5*	20*
11 17	17 15.95	−24 21.5	2.263	1.432	17.1	17.9	25 E	6*	19*
11 22	17 32.91	−24 25.3	2.326	1.480	15.8	17.9	24 E	6*	17*
11 27	17 49.20	−24 22.7	2.390	1.527	14.4	18.0	23 E	6*	16*
12 2	18 4.85	−24 14.2	2.452	1.573	13.1	18.1	21 E	6*	14*
12 7	18 19.88	−24 0.6	2.514	1.619	11.7	18.2	20 E	5*	12*
12 12	18 34.33	−23 42.5	2.575	1.664	10.4	18.2	18 E	5*	10*
12 17	18 48.23	−23 20.4	2.634	1.709	9.0	18.3	16 E	4*	8*
12 22	19 1.61	−22 54.8	2.691	1.752	7.7	18.3	14 E	3*	6*
12 27	19 14.48	−22 26.1	2.746	1.795	6.4	18.4	12 E	2*	4*
1 1	19 26.89	−21 54.7	2.799	1.837	5.1	18.4	10 E	1*	2*
1 6	19 38.84	−21 20.9	2.849	1.878	3.8	18.4	7 E	—	—
1 11	19 50.38	−20 45.1	2.896	1.918	2.6	18.4	5 E	—	—
1 16	20 1.52	−20 7.5	2.940	1.958	1.3	18.4	3 E	—	—

259353 2003 GT_{41}

12 23	23 51.13	−12 25.3	1.686	1.838	32.0	20.9	83 E	33	65*
1 2	0 9.67	− 9 34.3	1.831	1.886	30.6	21.1	78 E	35	58*
1 12	0 27.98	− 6 48.8	1.978	1.934	29.1	21.3	73 E	38*	52*
1 22	0 46.12	− 4 9.5	2.126	1.982	27.4	21.4	68 E	40*	47*
2 1	1 4.16	− 1 36.7	2.274	2.029	25.7	21.6	63 E	41*	41*

492143 2013 OE

12 23	23 51.63	− 9 8.7	0.404	1.023	73.0	18.1	84 E	36	63*
1 2	0 29.71	−10 47.9	0.379	1.003	76.1	18.1	82 E	34	63*
1 12	1 14.83	−12 12.4	0.354	0.997	77.5	17.9	82 E	33	65*
1 22	2 7.34	−13 9.4	0.334	1.007	76.6	17.8	84 E	32	68*
1 27	2 36.26	−13 20.8	0.328	1.017	75.1	17.7	86 E	32	70*
2 1	3 6.66	−13 17.0	0.324	1.030	72.9	17.7	89 E	32	72*
2 6	3 38.10	−12 56.2	0.323	1.047	70.2	17.6	92 E	32	74*
2 11	4 10.00	−12 17.6	0.327	1.067	67.1	17.6	95 E	33	75*
2 16	4 41.72	−11 22.5	0.334	1.089	63.7	17.6	99 E	34	75*
2 21	5 12.64	−10 13.4	0.346	1.114	60.2	17.6	102 E	35	74
2 26	5 42.26	− 8 54.7	0.363	1.141	56.8	17.6	105 E	36	73
3 2	6 10.24	− 7 31.3	0.385	1.170	53.6	17.7	108 E	37	72
3 7	6 36.36	− 6 7.7	0.411	1.200	50.7	17.8	111 E	39	70
3 12	7 0.56	− 4 47.6	0.442	1.232	48.2	18.0	112 E	40	69
3 17	7 22.91	− 3 33.5	0.477	1.264	46.1	18.2	114 E	41	68
3 22	7 43.54	− 2 27.0	0.516	1.298	44.3	18.3	114 E	43	66
3 27	8 2.63	− 1 29.0	0.559	1.332	42.9	18.5	115 E	44	65
4 1	8 20.35	− 0 40.1	0.606	1.367	41.7	18.7	115 E	44	65
4 11	8 52.33	+ 0 31.6	0.711	1.438	39.9	19.1	113 E	46	63
4 21	9 20.60	+ 1 11.8	0.828	1.509	38.6	19.5	110 E	46	63
5 1	9 46.12	+ 1 25.0	0.957	1.580	37.5	19.9	107 E	46*	63
5 11	10 9.54	+ 1 16.0	1.095	1.651	36.5	20.3	103 E	45*	63
5 21	10 31.35	+ 0 49.3	1.243	1.721	35.5	20.6	99 E	42*	63
5 31	10 51.94	+ 0 8.3	1.397	1.790	34.4	20.9	95 E	38*	64
6 10	11 11.57	− 0 43.8	1.557	1.857	33.1	21.2	90 E	34*	65
6 20	11 30.44	− 1 44.5	1.721	1.922	31.8	21.4	85 E	30*	66*

409934 2006 UG_{64}

12 23	23 52.65	−26 27.7	1.080	1.297	47.8	21.0	78 E	19	70*
12 28	0 10.51	−24 45.1	1.113	1.315	46.9	21.1	77 E	20	69*
1 2	0 27.74	−22 56.6	1.147	1.334	45.9	21.2	77 E	22	68*
1 7	0 44.38	−21 3.7	1.184	1.354	45.0	21.2	77 E	24	66*
1 12	1 0.47	−19 7.8	1.222	1.375	44.0	21.3	76 E	26	65*
1 17	1 16.04	−17 10.1	1.262	1.397	43.1	21.4	76 E	28	63*
1 22	1 31.15	−15 11.8	1.305	1.419	42.1	21.5	75 E	30	62*

329923 2005 NK_{20}

12 23	23 52.97	+23 59.9	1.334	1.755	33.8	19.7	97 E	69	36*
1 2	0 17.33	+23 32.8	1.444	1.785	33.4	19.9	93 E	69	34*
1 12	0 41.74	+23 19.2	1.561	1.817	32.7	20.0	88 E	68	32*
1 22	1 6.06	+23 16.3	1.685	1.851	31.9	20.2	83 E	68*	31*
2 1	1 30.21	+23 21.6	1.814	1.885	30.8	20.4	79 E	66*	29*
2 11	1 54.14	+23 32.2	1.947	1.920	29.6	20.6	74 E	63*	27*
2 21	2 17.82	+23 45.7	2.082	1.956	28.1	20.7	69 E	60*	26*
3 2	2 41.24	+24 0.0	2.217	1.993	26.5	20.8	64 E	55*	25*
3 12	3 4.40	+24 13.0	2.352	2.030	24.8	20.9	59 E	51*	24*

(continuation)

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
329923 2005 NK_{20}									
3 22	3 27.28	+24 23.1	2.485	2.067	23.0	21.0	54 E	46*	23*
4 1	3 49.88	+24 29.0	2.614	2.104	21.1	21.1	49 E	41*	22*
4 11	4 12.16	+24 29.4	2.739	2.141	19.1	21.2	44 E	35*	21*
4 21	4 34.12	+24 23.5	2.857	2.177	17.1	21.3	39 E	30*	19*
5 1	4 55.73	+24 10.6	2.968	2.214	15.0	21.3	35 E	24*	18*
5 11	5 16.94	+23 50.3	3.071	2.250	12.8	21.4	30 E	18*	16*
5 21	5 37.74	+23 22.3	3.165	2.286	10.7	21.4	25 E	13*	14*
5 31	5 58.08	+22 46.6	3.249	2.321	8.5	21.4	20 E	7*	11*
6 10	6 17.94	+22 3.0	3.322	2.356	6.4	21.4	15 E	3*	8*
6 20	6 37.29	+21 11.8	3.384	2.390	4.2	21.3	10 E	—	4*
6 30	6 56.10	+20 13.2	3.433	2.423	2.3	21.3	5 E	—	—
7 10	7 14.34	+19 7.4	3.470	2.456	1.3	21.2	3 W	—	—
7 20	7 31.99	+17 54.9	3.494	2.488	2.8	21.4	7 W	—	1*
40719 1999 SZ_2									
12 23	23 53.11	+ 2 54.1	1.578	1.845	32.2	19.2	89 E	48	54*
1 2	0 10.82	+ 4 56.0	1.707	1.874	31.4	19.4	84 E	50	49*
1 12	0 29.10	+ 6 58.5	1.838	1.904	30.4	19.5	79 E	52*	43*
1 22	0 47.84	+ 9 0.4	1.971	1.935	29.2	19.7	73 E	53*	38*
2 1	1 6.99	+11 0.4	2.103	1.966	27.8	19.8	68 E	53*	34*
2 11	1 26.49	+12 57.4	2.234	1.998	26.2	19.9	63 E	51*	30*
2 21	1 46.29	+14 50.0	2.363	2.030	24.5	20.0	59 E	48*	27*
3 2	2 6.40	+16 37.4	2.489	2.062	22.8	20.1	54 E	44*	24*
3 12	2 26.76	+18 18.4	2.611	2.094	20.9	20.2	49 E	40*	21*
3 22	2 47.36	+19 52.1	2.728	2.126	19.0	20.3	44 E	36*	19*
4 1	3 8.18	+21 17.8	2.838	2.158	17.0	20.3	39 E	31*	17*
4 11	3 29.17	+22 34.7	2.942	2.190	15.0	20.4	34 E	26*	14*
4 21	3 50.30	+23 42.2	3.038	2.221	12.9	20.4	30 E	22*	12*
5 1	4 11.52	+24 39.8	3.125	2.252	10.9	20.4	25 E	17*	9*
5 11	4 32.76	+25 27.3	3.203	2.282	8.8	20.4	20 E	12*	7*
5 21	4 53.97	+26 4.4	3.271	2.311	6.7	20.4	15 E	8*	4*
5 31	5 15.08	+26 31.2	3.329	2.341	4.6	20.4	11 E	4*	1*
6 10	5 36.00	+26 47.7	3.375	2.369	2.7	20.3	6 E	—	—
6 20	5 56.68	+26 54.3	3.410	2.397	1.5	20.3	3 E	—	—
6 30	6 17.04	+26 51.4	3.433	2.424	2.4	20.4	6 W	—	—
7 10	6 36.99	+26 39.5	3.444	2.450	4.2	20.5	10 W	3*	—
7 20	6 56.48	+26 19.3	3.442	2.476	6.2	20.6	15 W	7*	4*
7 30	7 15.44	+25 51.6	3.427	2.501	8.1	20.7	20 W	12*	7*
8 9	7 33.79	+25 17.3	3.400	2.525	10.0	20.8	26 W	17*	10*
8 19	7 51.50	+24 37.4	3.359	2.548	11.9	20.9	31 W	23*	13*
8 29	8 8.48	+23 52.9	3.306	2.570	13.6	20.9	37 W	28*	16*
9 8	8 24.68	+23 5.1	3.240	2.591	15.3	21.0	43 W	34*	19*
9 18	8 40.03	+22 15.3	3.162	2.612	16.8	21.0	49 W	40*	22*
9 28	8 54.43	+21 24.7	3.073	2.631	18.2	21.0	55 W	46*	24*
10 8	9 7.79	+20 34.9	2.974	2.650	19.4	21.0	62 W	52*	28*
10 18	9 19.99	+19 47.5	2.865	2.667	20.3	20.9	69 W	57*	31*
10 28	9 30.88	+19 4.2	2.748	2.684	21.0	20.9	76 W	61*	34*
11 7	9 40.28	+18 26.7	2.626	2.700	21.4	20.8	84 W	63*	38*
11 17	9 47.97	+17 57.1	2.500	2.715	21.3	20.7	92 W	63	41*
11 27	9 53.69	+17 37.2	2.373	2.729	20.8	20.6	100 W	63	44*
12 7	9 57.16	+17 28.8	2.249	2.741	19.8	20.4	110 W	62	46*
12 17	9 58.11	+17 33.2	2.132	2.753	18.1	20.3	120 W	63	46
12 27	9 56.28	+17 50.9	2.026	2.764	15.8	20.1	130 W	63	46
1 6	9 51.60	+18 20.8	1.936	2.774	12.8	19.9	141 W	63	46
1 16	9 44.19	+19 0.3	1.869	2.783	9.1	19.7	153 W	64	45
184449 2005 NL_{55}									
12 23	23 53.62	− 0 34.9	1.738	1.963	30.0	21.0	88 E	44	57*
1 2	0 9.53	+ 1 30.6	1.879	1.996	29.2	21.1	82 E	47	51*
1 12	0 26.02	+ 3 36.1	2.021	2.030	28.1	21.3	76 E	49*	45*
1 22	0 42.97	+ 5 40.7	2.163	2.064	26.8	21.5	71 E	50*	40*
2 1	1 0.33	+ 7 43.5	2.304	2.098	25.3	21.6	66 E	49*	35*
455432 2003 RP_8									
12 23	23 53.77	+51 46.4	0.976	1.574	36.7	20.6	107 E	83	10*
12 28	0 14.38	+50 29.6	1.017	1.600	36.2	20.7	106 E	85	11*
1 2	0 34.11	+49 11.8	1.061	1.625	35.7	20.8	105 E	86	12*
1 7	0 52.98	+47 54.5	1.109	1.650	35.3	21.0	104 E	87	13*
1 12	1 10.99	+46 38.7	1.160	1.675	35.0	21.1	102 E	88	14*
1 17	1 28.21	+45 25.1	1.214	1.699	34.7	21.2	101 E	90	15*
1 22	1 44.69	+44 14.5	1.272	1.723	34.4	21.3	99 E	89	16*
1 27	2 0.51	+43 7.1	1.332	1.747	34.0	21.4	97 E	88	17*
368163 1999 RE_{198}									
12 23	23 54.34	− 0 24.7	1.396	1.679	35.8	21.2	88 E	45	57*
1 2	0 16.73	+ 1 7.7	1.510	1.706	34.9	21.4	84 E	46	52*
1 12	0 39.16	+ 2 46.9	1.627	1.735	33.8	21.6	79 E	48	48*
1 22	1 1.56	+ 4 29.8	1.747	1.766	32.5	21.7	75 E	49*	44*
2 1	1 23.95	+ 6 13.8	1.869	1.797	31.1	21.9	70 E	49*	41*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
216653 2003 UJ_{20}									
12 23	23 54.65	+ 4 21.9	1.695	1.959	30.1	21.0	90 E	49	53*
1 2	0 11.33	+ 5 35.2	1.831	1.987	29.5	21.2	84 E	51	48*
1 12	0 28.62	+ 6 55.6	1.969	2.016	28.5	21.4	78 E	52*	43*
1 22	0 46.38	+ 8 20.6	2.107	2.045	27.4	21.5	73 E	52*	39*
2 1	1 4.55	+ 9 48.5	2.243	2.074	26.0	21.6	67 E	51*	35*
326742 2003 QN_{47}									
12 23	23 55.24	+45 45.3	1.134	1.687	34.2	20.8	105 E	89	16*
12 28	0 6.15	+45 32.9	1.192	1.711	34.0	21.0	103 E	89	15*
1 2	0 17.48	+45 23.6	1.251	1.736	33.7	21.1	101 E	90	15*
1 7	0 29.15	+45 16.8	1.310	1.759	33.5	21.2	99 E	90	14*
1 12	0 41.12	+45 12.4	1.371	1.783	33.2	21.3	97 E	90	13*
1 17	0 53.36	+45 9.8	1.432	1.806	32.9	21.4	95 E	89*	13*
509529 2007 YG_1									
12 23	23 56.76	+21 20.5	1.010	1.494	40.8	20.7	97 E	66	38*
1 2	0 24.89	+22 6.7	1.103	1.525	40.0	20.9	94 E	67	36*
1 12	0 53.01	+22 54.3	1.203	1.558	39.1	21.1	90 E	68	34*
1 22	1 20.97	+23 41.3	1.310	1.591	38.1	21.3	87 E	69*	32*
2 1	1 48.71	+24 26.3	1.421	1.626	37.0	21.5	83 E	69*	31*
322651 1999 JP_5									
12 23	23 56.88	− 6 21.4	1.800	1.993	29.5	21.4	86 E	39	62*
1 2	0 11.74	− 3 50.3	1.945	2.028	28.6	21.5	80 E	41	55*
1 12	0 27.17	− 1 22.2	2.090	2.063	27.4	21.7	75 E	44*	49*
1 22	0 43.06	+ 1 2.2	2.234	2.097	26.0	21.8	69 E	45*	43*
2 1	0 59.36	+ 3 22.7	2.377	2.132	24.5	22.0	64 E	45*	38*
238852 2005 VZ_6									
12 23	23 57.27	+27 35.3	1.303	1.758	33.5	20.0	100 E	73	33*
1 2	0 11.39	+28 30.0	1.370	1.735	34.4	20.1	94 E	74	29*
1 12	0 28.62	+29 37.9	1.437	1.715	35.0	20.2	88 E	75*	25*
1 22	0 48.67	+30 55.5	1.501	1.696	35.2	20.3	83 E	74*	22*
2 1	1 11.35	+32 19.2	1.565	1.681	35.1	20.3	79 E	72*	19*
2 11	1 36.49	+33 44.6	1.627	1.668	34.8	20.4	75 E	69*	17*
2 21	2 3.92	+35 6.6	1.688	1.658	34.4	20.5	71 E	65*	16*
3 2	2 33.49	+36 20.2	1.749	1.650	33.7	20.5	68 E	62*	15*
3 12	3 4.93	+37 20.2	1.810	1.646	33.0	20.6	64 E	58*	14*
3 22	3 37.90	+38 1.6	1.873	1.646	32.1	20.6	61 E	55*	14*
4 1	4 11.96	+38 20.7	1.937	1.648	31.1	20.7	58 E	52*	15*
4 11	4 46.56	+38 14.6	2.002	1.653	29.9	20.7	55 E	49*	15*
4 21	5 21.14	+37 42.0	2.070	1.662	28.7	20.7	52 E	46*	16*
5 1	5 55.17	+36 43.1	2.141	1.673	27.3	20.8	50 E	42*	17*
5 11	6 28.18	+35 19.6	2.213	1.687	25.8	20.8	47 E	38*	18*
5 21	6 59.85	+33 33.9	2.288	1.704	24.2	20.9	44 E	33*	19*
5 31	7 30.02	+31 29.3	2.363	1.724	22.5	20.9	41 E	28*	20*
6 10	7 58.60	+29 9.0	2.439	1.745	20.7	21.0	37 E	24*	21*
6 20	8 25.63	+26 36.2	2.516	1.769	18.8	21.0	34 E	19*	20*
6 30	8 51.19	+23 53.9	2.591	1.795	16.9	21.0	31 E	15*	19*
7 10	9 15.41	+21 4.6	2.664	1.822	14.8	21.1	27 E	11*	18*
7 20	9 38.43	+18 10.4	2.735	1.851	12.8	21.1	24 E	8*	16*
7 30	10 0.40	+15 13.1	2.802	1.881	10.7	21.1	20 E	5*	13*
8 9	10 21.46	+12 14.2	2.864	1.912	8.5	21.1	16 E	2*	10*
8 19	10 41.73	+ 9 14.9	2.921	1.944	6.4	21.1	12 E	—	6*
8 29	11 1.33	+ 6 16.1	2.971	1.977	4.2	21.0	8 E	—	2*
9 8	11 20.37	+ 3 18.6	3.013	2.010	2.1	21.0	4 E	—	—
9 18	11 38.93	+ 0 23.1	3.048	2.044	0.9	20.9	2 W	—	—
9 28	11 57.08	− 2 29.9	3.073	2.078	2.6	21.1	5 W	—	—
10 8	12 14.88	− 5 20.0	3.089	2.112	4.7	21.3	10 W	1*	3*
10 18	12 32.39	− 8 6.7	3.094	2.146	6.8	21.4	15 W	5*	6*
318902 2005 UR_5									
12 23	23 57.30	−15 21.4	1.559	1.736	34.2	20.7	83 E	30	68*
1 2	0 14.89	−13 47.1	1.636	1.716	34.0	20.8	77 E	31	62*
1 12	0 33.80	−11 58.8	1.709	1.697	33.6	20.8	73 E	33*	56*
1 22	0 53.85	− 9 59.5	1.779	1.680	32.9	20.9	68 E	35*	51*
2 1	1 14.91	− 7 51.5	1.844	1.664	32.1	20.9	64 E	35*	47*
2 11	1 36.88	− 5 37.6	1.906	1.650	31.2	20.9	60 E	35*	44*
2 21	1 59.70	− 3 20.5	1.964	1.638	30.2	20.9	56 E	34*	41*
3 2	2 23.34	− 1 2.7	2.019	1.628	29.1	21.0	53 E	33*	38*
3 12	2 47.76	+ 1 12.9	2.072	1.620	28.0	21.0	50 E	31*	36*
3 22	3 12.91	+ 3 23.8	2.123	1.614	26.8	21.0	47 E	28*	34*
4 1	3 38.78	+ 5 27.4	2.172	1.610	25.5	21.0	44 E	25*	32*
4 11	4 5.30	+ 7 20.9	2.220	1.609	24.3	21.0	41 E	22*	30*
4 21	4 32.40	+ 9 2.1	2.268	1.610	22.9	21.0	39 E	19*	29*
5 1	4 59.99	+10 29.0	2.316	1.613	21.5	21.0	36 E	16*	27*
5 11	5 27.94	+11 39.8	2.364	1.618	20.1	21.0	33 E	12*	25*
5 21	5 56.12	+12 33.5	2.412	1.626	18.5	21.0	31 E	8*	23*
5 31	6 24.38	+13 9.3	2.459	1.635	17.0	21.0	28 E	5*	21*
6 10	6 52.57	+13 27.1	2.506	1.647	15.3	21.0	25 E	2*	19*
6 20	7 20.54	+13 27.3	2.553	1.661	13.6	21.0	23 E	—	17*

318902 2005 UR_5 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 30	7 48.17	+13 10.8	2.598	1.676	11.8	21.0	20 E	—	14*
7 10	8 15.34	+12 38.8	2.641	1.693	10.0	21.0	17 E	—	11*
7 20	8 41.99	+11 53.0	2.681	1.711	8.1	21.0	14 E	—	7*
7 30	9 8.05	+10 54.9	2.719	1.731	6.2	20.9	11 E	—	4*
8 9	9 33.50	+ 9 46.5	2.752	1.751	4.3	20.9	7 E	—	—
8 19	9 58.35	+ 8 29.8	2.781	1.773	2.5	20.8	4 E	—	—
8 29	10 22.61	+ 7 6.7	2.804	1.796	1.7	20.8	3 W	—	—
9 8	10 46.30	+ 5 39.0	2.820	1.819	2.8	20.9	5 W	—	—
9 18	11 9.48	+ 4 8.5	2.831	1.843	4.7	21.1	9 W	1*	—
9 28	11 32.18	+ 2 37.2	2.833	1.867	6.7	21.2	12 W	5*	2*
10 8	11 54.43	+ 1 6.7	2.828	1.892	8.7	21.3	17 W	10*	4*
10 18	12 16.30	− 0 21.4	2.814	1.917	10.7	21.4	21 W	14*	7*

1316 Kasan

12 23	23 57.59	+10 40.7	1.285	1.661	36.3	16.2	93 E	56	48*
1 2	0 22.01	+ 9 53.6	1.380	1.670	36.1	16.4	88 E	55	46*
1 12	0 46.61	+ 9 29.1	1.481	1.682	35.5	16.5	83 E	54	44*
1 22	1 11.24	+ 9 22.7	1.587	1.698	34.7	16.7	79 E	54*	42*
2 1	1 35.82	+ 9 29.9	1.696	1.716	33.6	16.8	74 E	53*	40*
2 11	2 0.27	+ 9 46.5	1.807	1.737	32.3	16.9	70 E	52*	39*
2 21	2 24.57	+10 8.8	1.919	1.761	30.8	17.1	66 E	49*	37*
3 2	2 48.74	+10 33.6	2.032	1.786	29.2	17.2	62 E	46*	36*
3 12	3 12.73	+10 58.0	2.144	1.814	27.5	17.3	57 E	42*	35*
3 22	3 36.55	+11 19.5	2.255	1.843	25.7	17.4	53 E	38*	33*
4 1	4 0.20	+11 36.2	2.363	1.875	23.9	17.5	49 E	34*	32*
4 11	4 23.63	+11 46.5	2.468	1.907	22.1	17.5	46 E	29*	31*
4 21	4 46.83	+11 49.1	2.570	1.940	20.2	17.6	42 E	24*	30*
5 1	5 9.77	+11 43.0	2.668	1.975	18.3	17.7	38 E	18*	28*
5 11	5 32.40	+11 27.7	2.760	2.010	16.5	17.7	34 E	13*	26*
5 21	5 54.68	+11 2.6	2.847	2.046	14.7	17.8	31 E	7*	24*
5 31	6 16.59	+10 27.7	2.929	2.082	13.0	17.8	27 E	2*	21*
6 10	6 38.06	+ 9 42.9	3.004	2.119	11.3	17.8	24 E	—	18*
6 20	6 59.07	+ 8 48.7	3.072	2.156	9.8	17.8	21 E	—	14*
6 30	7 19.60	+ 7 45.1	3.132	2.192	8.5	17.9	19 E	—	10*
7 10	7 39.60	+ 6 32.9	3.185	2.229	7.5	17.9	17 E	—	6*
7 20	7 59.08	+ 5 12.6	3.229	2.266	6.9	17.9	15 E	—	1*
7 30	8 18.00	+ 3 44.7	3.264	2.302	6.8	18.0	16 W	—	5*
8 9	8 36.35	+ 2 10.1	3.290	2.338	7.2	18.1	17 W	—	9*
8 19	8 54.14	+ 0 29.3	3.306	2.374	8.1	18.1	19 W	—	13*
8 29	9 11.33	− 1 16.9	3.312	2.409	9.2	18.2	22 W	—	16*
9 8	9 27.92	− 3 7.7	3.307	2.444	10.5	18.3	26 W	5*	20*
9 18	9 43.88	− 5 2.5	3.291	2.478	11.9	18.4	30 W	10*	24*
9 28	9 59.19	− 7 0.5	3.265	2.512	13.3	18.4	35 W	14*	27*
10 8	10 13.81	− 9 0.9	3.227	2.545	14.6	18.5	40 W	18*	31*
10 18	10 27.68	−11 3.1	3.179	2.577	15.9	18.5	45 W	22*	36*
10 28	10 40.73	−13 6.2	3.120	2.608	17.2	18.6	51 W	25*	40*
11 7	10 52.85	−15 9.3	3.051	2.639	18.3	18.6	57 W	26*	46*
11 17	11 3.94	−17 11.7	2.972	2.669	19.2	18.6	63 W	27*	52*
11 27	11 13.83	−19 12.2	2.885	2.699	20.0	18.6	69 W	26*	58*
12 7	11 22.33	−21 9.5	2.791	2.727	20.5	18.5	76 W	24	66*
12 17	11 29.23	−23 2.0	2.693	2.755	20.8	18.5	83 W	22	74*
12 27	11 34.25	−24 47.6	2.591	2.782	20.7	18.4	91 W	20	83*
1 6	11 37.15	−26 23.7	2.489	2.808	20.3	18.3	99 W	19	90
1 16	11 37.68	−27 46.7	2.390	2.833	19.4	18.2	107 W	17	88

217716 1999 VB_{80}

12 23	23 57.90	+ 1 3.0	1.439	1.734	34.6	20.5	89 E	46	56*
1 2	0 18.90	+ 2 47.0	1.565	1.770	33.6	20.7	85 E	48	51*
1 12	0 39.92	+ 4 34.2	1.696	1.807	32.4	20.9	80 E	50	47*
1 22	1 0.91	+ 6 22.4	1.829	1.844	31.1	21.1	75 E	51*	43*
2 1	1 21.90	+ 8 9.7	1.964	1.883	29.6	21.2	71 E	51*	39*
2 11	1 42.88	+ 9 54.3	2.099	1.922	28.0	21.4	66 E	50*	35*
2 21	2 3.86	+11 34.6	2.234	1.962	26.2	21.5	61 E	48*	32*

108573 2001 MN_4

12 23	23 58.24	−13 0.2	1.466	1.676	35.7	19.0	84 E	32	67*
1 2	0 15.13	− 8 12.3	1.566	1.691	34.9	19.2	80 E	37	58*
1 12	0 32.67	− 3 38.7	1.671	1.709	33.8	19.3	75 E	41*	51*
1 22	0 50.80	+ 0 40.1	1.780	1.729	32.5	19.4	71 E	45*	45*
2 1	1 9.50	+ 4 44.1	1.892	1.751	31.1	19.5	67 E	47*	39*
2 11	1 28.76	+ 8 33.0	2.005	1.776	29.5	19.6	62 E	47*	34*
2 21	1 48.57	+12 7.0	2.119	1.802	27.7	19.7	58 E	46*	29*
3 2	2 8.98	+15 26.2	2.232	1.830	25.9	19.8	54 E	44*	25*
3 12	2 29.97	+18 30.4	2.342	1.859	24.0	19.9	50 E	41*	22*
3 22	2 51.55	+21 19.4	2.450	1.889	22.1	20.0	45 E	38*	19*
4 1	3 13.74	+23 53.3	2.554	1.921	20.1	20.1	41 E	34*	16*
4 11	3 36.50	+26 11.7	2.654	1.953	18.1	20.1	37 E	30*	13*
4 21	3 59.82	+28 14.4	2.748	1.986	16.1	20.2	33 E	26*	11*
5 1	4 23.64	+30 1.2	2.836	2.019	14.2	20.2	29 E	22*	8*
5 11	4 47.87	+31 32.0	2.917	2.053	12.3	20.2	26 E	19*	6*
5 21	5 12.43	+32 46.9	2.991	2.087	10.4	20.2	22 E	15*	4*
5 31	5 37.21	+33 46.0	3.057	2.121	8.8	20.3	19 E	12*	1*

108573 2001 MN_4 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 10	6 2.07	+34 29.6	3.115	2.155	7.3	20.3	16 E	10*	—
6 20	6 26.88	+34 58.5	3.165	2.189	6.2	20.3	13 E	7*	—
6 30	6 51.51	+35 13.5	3.205	2.223	5.7	20.3	12 E	6*	—
7 10	7 15.80	+35 15.5	3.235	2.256	5.8	20.4	13 W	5*	—
7 20	7 39.66	+35 6.0	3.256	2.290	6.6	20.5	15 W	8*	—
7 30	8 2.99	+34 46.3	3.267	2.322	7.8	20.6	18 W	11*	—
8 9	8 25.68	+34 18.0	3.267	2.355	9.1	20.6	22 W	15*	—
8 19	8 47.69	+33 42.8	3.257	2.386	10.6	20.7	26 W	19*	—
8 29	9 8.96	+33 2.6	3.236	2.418	12.1	20.8	30 W	24*	—
9 8	9 29.45	+32 19.2	3.205	2.448	13.6	20.9	35 W	29*	2*
9 18	9 49.13	+31 34.4	3.163	2.478	15.1	20.9	40 W	34*	4*
9 28	10 7.98	+30 50.4	3.110	2.507	16.5	20.9	45 W	39*	6*
10 8	10 25.95	+30 9.0	3.048	2.536	17.7	21.0	51 W	45*	8*
10 18	10 43.00	+29 32.5	2.976	2.563	18.9	21.0	56 W	50*	11*
10 28	10 59.07	+29 2.9	2.896	2.590	19.9	21.0	62 W	56*	13*
11 7	11 14.08	+28 42.5	2.808	2.617	20.7	21.0	69 W	62*	16*
11 17	11 27.90	+28 33.3	2.714	2.642	21.2	20.9	75 W	68*	20*
11 27	11 40.37	+28 37.8	2.615	2.666	21.5	20.9	82 W	72*	23*
12 7	11 51.30	+28 57.6	2.513	2.690	21.5	20.8	89 W	74	26*
12 17	12 0.43	+29 34.5	2.411	2.713	21.1	20.7	97 W	75	29*
12 27	12 7.45	+30 29.4	2.312	2.735	20.3	20.6	105 W	75	32*
1 6	12 12.01	+31 41.8	2.219	2.756	19.2	20.5	113 W	77	32*
1 16	12 13.75	+33 9.6	2.136	2.776	17.6	20.4	121 W	78	31

22844 1999 RU_{111}

12 23	23 59.46	−20 15.0	1.700	1.833	32.1	17.2	81 E	25	70*
12 28	0 7.47	−19 47.3	1.732	1.814	32.1	17.2	79 E	25	67*
1 2	0 15.96	−19 14.9	1.763	1.796	32.1	17.3	76 E	26	64*
1 7	0 24.88	−18 38.0	1.793	1.778	32.0	17.3	73 E	26	61*
1 12	0 34.22	−17 57.0	1.821	1.761	31.8	17.3	71 E	27*	59*
1 22	0 54.03	−16 23.8	1.873	1.730	31.4	17.3	66 E	28*	54*
2 1	1 15.23	−14 37.6	1.920	1.702	30.8	17.3	62 E	29*	50*
2 11	1 37.67	−12 40.7	1.962	1.678	30.2	17.3	59 E	29*	47*
2 21	2 1.23	−10 35.6	2.001	1.659	29.5	17.3	56 E	28*	44*
3 2	2 25.85	− 8 24.9	2.038	1.643	28.8	17.3	53 E	27*	42*
3 12	2 51.42	− 6 11.4	2.074	1.632	28.0	17.3	50 E	25*	40*
3 22	3 17.85	− 3 58.2	2.110	1.626	27.2	17.3	48 E	23*	39*
4 1	3 45.06	− 1 48.5	2.149	1.625	26.3	17.3	46 E	21*	37*
4 11	4 12.89	+ 0 14.2	2.191	1.628	25.4	17.3	44 E	18*	36*
4 21	4 41.22	+ 2 7.1	2.237	1.637	24.3	17.4	42 E	16*	34*
5 1	5 9.88	+ 3 47.3	2.288	1.650	23.2	17.4	40 E	13*	33*
5 11	5 38.65	+ 5 12.5	2.344	1.668	21.9	17.4	38 E	9*	31*
5 21	6 7.35	+ 6 21.1	2.406	1.689	20.4	17.5	36 E	6*	29*
5 31	6 35.80	+ 7 12.5	2.472	1.715	18.9	17.5	33 E	3*	27*
6 10	7 3.79	+ 7 46.4	2.541	1.745	17.2	17.5	31 E	—	25*
6 20	7 31.19	+ 8 3.6	2.613	1.777	15.4	17.6	28 E	—	22*
6 30	7 57.87	+ 8 5.2	2.687	1.813	13.5	17.6	25 E	—	18*
7 10	8 23.75	+ 7 52.8	2.760	1.851	11.6	17.7	21 E	—	15*
7 20	8 48.77	+ 7 28.1	2.832	1.892	9.6	17.7	18 E	—	11*
7 30	9 12.92	+ 6 52.9	2.901	1.934	7.5	17.7	14 E	—	7*
8 9	9 36.20	+ 6 9.3	2.965	1.978	5.5	17.7	11 E	—	3*
8 19	9 58.63	+ 5 19.2	3.023	2.024	3.8	17.7	8 E	—	—
8 29	10 20.25	+ 4 24.2	3.073	2.070	2.7	17.7	6 W	—	—
9 8	10 41.09	+ 3 26.2	3.115	2.118	3.2	17.8	7 W	—	1*
9 18	11 1.19	+ 2 26.9	3.147	2.166	4.8	18.0	10 W	2*	3*
9 28	11 20.58	+ 1 27.6	3.168	2.214	6.7	18.1	15 W	7*	5*
10 8	11 39.28	+ 0 30.2	3.177	2.263	8.6	18.3	20 W	12*	8*
10 18	11 57.32	− 0 24.2	3.174	2.312	10.6	18.4	25 W	17*	11*
10 28	12 14.67	− 1 14.0	3.158	2.361	12.5	18.5	31 W	22*	14*
11 7	12 31.33	− 1 57.7	3.130	2.410	14.3	18.6	37 W	27*	18*
11 17	12 47.25	− 2 33.9	3.088	2.459	15.9	18.7	43 W	31*	22*
11 27	13 2.36	− 3 1.2	3.034	2.508	17.4	18.7	49 W	35*	27*
12 7	13 16.57	− 3 18.1	2.969	2.556	18.7	18.8	56 W	38*	33*
12 17	13 29.78	− 3 23.1	2.893	2.604	19.7	18.8	63 W	40*	39*
12 27	13 41.82	− 3 14.6	2.808	2.652	20.5	18.8	71 W	42*	46*
1 6	13 52.52	− 2 51.2	2.716	2.699	20.9	18.8	79 W	42	53*
1 16	14 1.68	− 2 11.6	2.619	2.745	21.0	18.7	87 W	43	59*

442442 2011 UD_{169}

12 23	23 59.86	− 4 54.1	1.571	1.816	32.8	20.9	87 E	40	61*
1 2	0 19.97	− 2 48.3	1.717	1.868	31.5	21.1	83 E	42	56*
1 12	0 39.75	− 0 42.8	1.868	1.921	30.0	21.3	78 E	44	51*
1 22	0 59.25	+ 1 20.6	2.021	1.974	28.5	21.5	73 E	46*	46*
2 1	1 18.53	+ 3 20.7	2.176	2.028	26.8	21.6	68 E	46*	41*

394392 2007 EP_{88}

12 31	17 48.18	−20 59.8	0.761	0.284	135.3	21.4	12 W	3*	3*
1 1	17 40.84	−21 18.7	0.751	0.316	129.6	21.0	14 W	5*	6*
1 2	17 34.02	−21 38.7	0.744	0.347	124.6	20.8	17 W	6*	8*
1 3	17 27.69	−21 59.3	0.738	0.377	120.3	20.6	19 W	7*	11*
1 4	17 21.81	−22 20.3	0.733	0.405	116.4	20.4	22 W	8*	13*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		394392 2007 EP_{88} *(continuation)*							
	h m	° ′			°	m	°	°	°
1 5	17 16.34	−22 41.5	0.730	0.433	113.0	20.4	24 W	9*	15*
1 6	17 11.25	−23 2.8	0.727	0.459	109.9	20.3	26 W	10*	18*
1 7	17 6.51	−23 24.1	0.725	0.485	107.1	20.2	28 W	10*	20*
1 8	17 2.08	−23 45.4	0.723	0.510	104.5	20.2	30 W	11*	22*
1 9	16 57.93	−24 6.8	0.721	0.534	102.1	20.2	32 W	12*	24*
1 10	16 54.03	−24 28.0	0.719	0.557	99.9	20.1	34 W	12*	26*
1 11	16 50.37	−24 49.3	0.718	0.580	97.9	20.1	36 W	12*	28*
1 12	16 46.92	−25 10.5	0.717	0.602	96.0	20.1	38 W	13*	30*
1 14	16 40.56	−25 53.0	0.714	0.645	92.6	20.1	41 W	13*	33*
1 16	16 34.82	−26 35.5	0.711	0.686	89.5	20.1	44 W	14*	37*
1 18	16 29.55	−27 18.1	0.707	0.725	86.8	20.1	47 W	14*	40*
1 20	16 24.66	−28 0.9	0.703	0.762	84.3	20.1	50 W	14*	43*
1 22	16 20.04	−28 44.0	0.698	0.798	82.0	20.1	53 W	14*	47*
1 27	16 9.18	−30 33.8	0.683	0.881	76.9	20.1	61 W	13*	54*
2 1	15 58.41	−32 26.9	0.664	0.956	72.3	20.0	68 W	12*	62*
2 6	15 46.73	−34 24.0	0.642	1.025	68.1	20.0	75 W	11*	69*
2 11	15 33.20	−36 24.3	0.617	1.088	63.9	19.9	82 W	9	74*
2 13	15 27.05	−37 12.9	0.607	1.112	62.2	19.9	85 W	8	76*
2 15	15 20.37	−38 1.4	0.596	1.135	60.4	19.8	88 W	7	77*
2 17	15 13.10	−38 49.5	0.586	1.157	58.6	19.8	91 W	6	77*
2 19	15 5.16	−39 36.8	0.575	1.178	56.8	19.7	94 W	5	76
2 21	14 56.49	−40 22.5	0.565	1.199	54.9	19.7	97 W	5	76
2 23	14 47.02	−41 6.1	0.555	1.219	52.9	19.6	100 W	4	75
2 25	14 36.71	−41 46.6	0.545	1.238	50.9	19.5	104 W	3	74
2 27	14 25.52	−42 23.0	0.536	1.257	48.8	19.5	107 W	3	74
2 29	14 13.44	−42 54.2	0.527	1.275	46.7	19.4	110 W	2	73
3 2	14 0.50	−43 19.0	0.520	1.292	44.5	19.3	114 W	2	73
3 4	13 46.74	−43 36.2	0.513	1.309	42.3	19.3	117 W	1	72
3 6	13 32.26	−43 44.4	0.507	1.325	40.1	19.2	121 W	1	72
3 8	13 17.21	−43 42.6	0.503	1.341	37.8	19.2	124 W	1	72
3 10	13 1.77	−43 29.9	0.500	1.356	35.6	19.1	127 W	2	73
3 12	12 46.14	−43 5.9	0.498	1.370	33.5	19.1	130 W	2	73
3 14	12 30.56	−42 30.2	0.498	1.384	31.5	19.0	133 W	2	73
3 16	12 15.23	−41 43.4	0.499	1.397	29.7	19.0	136 W	3	74
3 18	12 0.38	−40 46.0	0.502	1.410	28.1	19.0	138 W	4	75
3 20	11 46.19	−39 39.1	0.507	1.422	26.7	19.0	140 E	5	76
3 22	11 32.80	−38 24.4	0.513	1.434	25.6	19.0	141 E	7	78
3 24	11 20.30	−37 3.2	0.522	1.445	24.9	19.0	142 E	8	79
3 26	11 8.75	−35 37.4	0.531	1.456	24.5	19.1	143 E	9	80
3 28	10 58.19	−34 8.5	0.543	1.467	24.5	19.1	143 E	11	82
3 30	10 48.59	−32 38.1	0.556	1.476	24.7	19.2	142 E	12	83
4 1	10 39.93	−31 7.5	0.570	1.486	25.1	19.3	141 E	14	85
4 3	10 32.16	−29 37.9	0.586	1.495	25.7	19.4	140 E	15	86
4 5	10 25.23	−28 10.1	0.603	1.503	26.5	19.5	138 E	17	88
4 7	10 19.08	−26 45.0	0.621	1.511	27.4	19.6	136 E	18	89
4 9	10 13.64	−25 22.9	0.640	1.518	28.3	19.7	134 E	20	89
4 11	10 8.86	−24 4.4	0.661	1.526	29.2	19.8	132 E	21	88
4 16	9 59.43	−21 4.3	0.715	1.541	31.5	20.1	127 E	24	85
4 21	9 53.00	−18 28.0	0.773	1.554	33.5	20.3	121 E	27	82
4 26	9 48.95	−16 14.7	0.835	1.564	35.3	20.5	116 E	29	80
5 1	9 46.81	−14 22.1	0.898	1.572	36.8	20.7	111 E	30*	78
5 6	9 46.18	−12 47.9	0.963	1.577	37.9	20.9	106 E	31*	77
5 11	9 46.77	−11 29.7	1.027	1.579	38.8	21.1	102 E	31*	75
5 16	9 48.36	−10 25.2	1.092	1.578	39.5	21.2	97 E	30*	74
5 21	9 50.77	− 9 32.7	1.155	1.575	39.9	21.4	93 E	28*	74
5 26	9 53.88	− 8 50.6	1.217	1.570	40.2	21.5	89 E	26*	73*
		439832 1995 OO_5							
1 2	7 44.69	+20 36.1	1.687	2.653	5.0	22.5	166 W	66	43
1 7	7 38.89	+20 51.9	1.685	2.664	2.6	22.3	173 W	66	43
1 12	7 32.95	+21 7.4	1.691	2.674	0.3	22.2	179 W	66	43
1 17	7 27.05	+21 22.2	1.704	2.685	2.1	22.4	174 E	66	43
1 22	7 21.35	+21 35.8	1.725	2.695	4.5	22.5	168 E	67	42
1 27	7 16.00	+21 48.0	1.753	2.705	6.7	22.7	161 E	67	42
2 1	7 11.15	+21 58.8	1.789	2.714	8.8	22.8	155 E	67	42
		358744 2008 CR_{118}							
1 2	7 46.87	+19 55.6	1.762	2.726	5.1	22.7	166 W	65	44
1 7	7 40.24	+20 16.3	1.740	2.718	2.8	22.6	172 W	65	44
1 12	7 33.32	+20 37.0	1.727	2.710	0.5	22.3	179 W	66	43
1 17	7 26.28	+20 57.2	1.721	2.701	2.2	22.5	174 E	66	43
1 22	7 19.30	+21 16.4	1.723	2.692	4.6	22.6	167 E	66	43
1 27	7 12.56	+21 34.3	1.734	2.682	7.0	22.8	161 E	67	42
2 1	7 6.25	+21 50.5	1.751	2.672	9.3	22.9	154 E	67	42
		378842 2008 TD_4							
1 2	7 49.19	+ 0 3.6	1.855	2.765	9.5	23.9	152 W	45	64
1 12	7 36.06	+ 0 2.3	1.798	2.735	7.7	23.7	158 W	45	64
1 22	7 22.22	+ 0 21.9	1.771	2.703	8.3	23.7	157 E	45	64
2 1	7 8.97	+ 1 0.6	1.775	2.669	10.9	23.8	149 E	46	63
2 11	6 57.54	+ 1 53.9	1.806	2.633	14.2	23.9	139 E	47	62

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		514914 2008 TN_{26}							
	h m	° ′			°	m	°	°	°
1 2	7 50.33	+12 2.4	1.846	2.795	6.5	24.1	161 W	57	52
1 12	7 36.52	+12 11.8	1.791	2.765	3.4	23.8	170 W	57	52
1 22	7 21.99	+12 28.2	1.769	2.733	5.1	23.8	166 E	57	52
2 1	7 8.14	+12 49.5	1.779	2.699	9.3	24.0	154 E	58	51
2 11	6 56.23	+13 13.5	1.818	2.662	13.4	24.2	141 E	58	51
		516461 2005 LF_8							
1 2	7 53.71	+24 56.9	1.916	2.876	5.2	22.6	165 W	70	39
1 7	7 47.82	+25 13.4	1.913	2.887	3.2	22.5	171 W	70	39
1 12	7 41.75	+25 28.5	1.917	2.898	1.5	22.4	176 W	70	39
1 17	7 35.66	+25 41.7	1.929	2.909	2.1	22.5	174 E	71	38
1 22	7 29.71	+25 52.7	1.949	2.919	3.9	22.6	168 E	71	38
1 27	7 24.06	+26 1.3	1.976	2.929	5.9	22.8	162 E	71	38
2 1	7 18.84	+26 7.6	2.011	2.939	7.8	22.9	156 E	71	38
		515049 2010 FL							
1 2	7 54.43	+32 29.8	2.134	3.086	5.6	23.8	162 W	77	32
1 7	7 47.48	+32 59.2	2.112	3.076	4.3	23.7	166 W	78	31
1 12	7 40.18	+33 25.4	2.097	3.066	3.8	23.7	168 W	78	31
1 17	7 32.70	+33 47.7	2.091	3.056	4.3	23.7	166 E	79	30
1 22	7 25.22	+34 5.8	2.093	3.045	5.7	23.8	162 E	79	30
1 27	7 17.93	+34 19.2	2.103	3.033	7.3	23.9	157 E	79	30
2 1	7 11.00	+34 28.1	2.121	3.021	9.0	23.9	151 E	79	30
		500749 2013 AP_{60}							
1 2	7 55.45	+ 0 45.6	4.130	5.021	5.2	23.9	152 W	46	63
1 12	7 47.96	+ 0 48.3	4.095	5.023	4.1	23.8	159 W	46	63
1 22	7 40.27	+ 1 0.0	4.091	5.024	3.9	23.8	159 E	46	63
2 1	7 32.86	+ 1 19.7	4.119	5.025	4.9	23.9	154 E	46	63
2 11	7 26.15	+ 1 45.9	4.178	5.024	6.4	24.0	146 E	47	62
		152667 1998 FR_{11}							
1 2	7 56.37	+18 25.6	3.797	4.746	3.5	22.9	163 W	63	46
1 12	7 48.33	+18 50.7	3.756	4.736	1.1	22.7	175 W	64	45
1 22	7 40.01	+19 16.2	3.748	4.725	1.6	22.8	172 E	64	45
2 1	7 31.94	+19 40.6	3.774	4.712	4.1	22.9	160 E	65	44
2 11	7 24.66	+20 2.8	3.831	4.699	6.3	23.1	148 E	65	44
		436094 2009 SC_{229}							
1 2	7 56.61	+21 26.1	1.929	2.887	5.5	23.2	164 W	66	43
1 7	7 50.43	+21 34.5	1.927	2.901	3.3	23.1	170 W	67	42
1 12	7 44.11	+21 42.3	1.932	2.914	1.1	22.9	177 W	67	42
1 17	7 37.78	+21 49.2	1.945	2.927	1.2	22.9	177 E	67	42
1 22	7 31.59	+21 54.9	1.966	2.940	3.3	23.1	170 E	67	42
1 27	7 25.71	+21 59.3	1.995	2.952	5.4	23.3	164 E	67	42
2 1	7 20.27	+22 2.3	2.031	2.965	7.4	23.4	157 E	67	42
		438342 2006 QQ_{169}							
1 2	7 57.00	+20 41.4	1.688	2.646	6.0	22.8	164 W	66	43
1 7	7 51.25	+20 59.7	1.677	2.651	3.7	22.7	170 W	66	43
1 12	7 45.24	+21 17.9	1.673	2.656	1.3	22.5	177 W	66	43
1 17	7 39.14	+21 35.5	1.677	2.660	1.1	22.5	177 E	67	42
1 22	7 33.13	+21 51.9	1.689	2.664	3.5	22.7	170 E	67	42
1 27	7 27.38	+22 6.8	1.708	2.668	5.9	22.9	164 E	67	42
2 1	7 22.04	+22 20.0	1.734	2.672	8.1	23.0	158 E	67	42
		370723 2004 RC_{57}							
1 2	7 59.64	+16 38.4	1.981	2.931	6.0	22.4	162 W	62	47
1 12	7 49.42	+17 18.0	1.959	2.939	2.1	22.1	174 W	62	47
1 22	7 38.78	+17 59.9	1.968	2.945	2.8	22.2	172 E	63	46
2 1	7 28.81	+18 40.7	2.008	2.951	6.7	22.5	159 E	64	45
2 11	7 20.50	+19 17.6	2.076	2.955	10.4	22.7	147 E	64	45
		65996 1998 MX_5							
1 2	8 1.41	+14 10.2	3.100	4.039	4.7	24.4	160 W	59	50
1 12	7 52.64	+14 22.8	3.099	4.073	2.2	24.3	171 W	59	50
1 22	7 43.74	+14 38.4	3.131	4.106	2.1	24.3	171 E	60	49
2 1	7 35.35	+14 55.4	3.196	4.139	4.5	24.5	161 E	60	49
2 11	7 28.05	+15 12.4	3.291	4.170	6.9	24.7	149 E	60	49
		373469 2000 SO_{42}							
1 2	8 1.48	+ 8 9.6	2.806	3.730	6.0	22.5	157 W	53	56
1 12	7 53.16	+ 8 32.8	2.757	3.717	3.8	22.3	166 W	54	55
1 22	7 44.38	+ 9 4.5	2.738	3.704	3.4	22.3	167 E	54	55
2 1	7 35.85	+ 9 42.5	2.752	3.690	5.4	22.4	159 E	55	54
2 11	7 28.27	+10 24.4	2.795	3.675	8.0	22.5	149 E	55	54
		439313 2012 VE_{82}							
1 2	8 3.07	+21 8.3	2.300	3.250	5.3	24.3	162 W	66	43
1 7	7 57.60	+21 32.7	2.283	3.253	3.4	24.2	169 W	67	42
1 12	7 51.89	+21 57.0	2.274	3.254	1.5	24.0	175 W	67	42
1 17	7 46.04	+22 20.6	2.273	3.256	0.6	24.0	178 E	67	42

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
439313 2012 VE_{82}									
	h m	° ′			°	m	°	°	°
1 22	7 40.20	+22 43.1	2.280	3.257	2.5	24.1	172 E	68	41
1 27	7 34.49	+23 4.1	2.295	3.258	4.4	24.3	165 E	68	41
2 1	7 29.04	+23 23.3	2.319	3.258	6.2	24.4	159 E	68	41
440012 2002 LE_{27}									
1 2	8 3.30	+16 11.8	2.123	3.069	6.1	23.8	161 W	61	48
1 12	7 52.33	+16 37.6	2.107	3.085	2.3	23.6	173 W	62	47
1 22	7 41.01	+17 5.5	2.122	3.099	2.6	23.7	172 E	62	47
2 1	7 30.38	+17 32.9	2.169	3.112	6.3	23.9	160 E	63	46
2 11	7 21.39	+17 57.7	2.245	3.124	9.7	24.2	148 E	63	46
454958 2015 TJ_{198}									
1 2	8 3.39	+30 5.2	1.783	2.733	6.6	22.3	161 W	75	34
1 7	7 57.54	+30 32.4	1.770	2.735	4.8	22.2	166 W	76	33
1 12	7 51.37	+30 56.9	1.764	2.737	3.7	22.2	170 W	76	33
1 17	7 45.03	+31 18.2	1.766	2.739	3.7	22.2	170 E	76	33
1 22	7 38.72	+31 35.7	1.775	2.740	5.0	22.3	166 E	77	32
1 27	7 32.62	+31 49.0	1.791	2.741	6.8	22.4	161 E	77	32
2 1	7 26.91	+31 58.1	1.815	2.741	8.6	22.5	155 E	77	32
523668 2012 UV_{27}									
1 2	8 7.20	+21 50.8	2.080	3.029	5.9	24.2	161 W	67	42
1 7	8 1.57	+22 2.6	2.061	3.029	3.9	24.0	168 W	67	42
1 12	7 55.65	+22 14.1	2.049	3.029	1.9	23.9	174 W	67	42
1 17	7 49.58	+22 24.7	2.046	3.029	0.5	23.8	178 E	67	42
1 22	7 43.51	+22 34.1	2.050	3.029	2.4	23.9	173 E	68	41
1 27	7 37.58	+22 42.2	2.063	3.028	4.5	24.1	166 E	68	41
2 1	7 31.94	+22 48.6	2.083	3.027	6.5	24.2	160 E	68	41
415811 2001 PK_{49}									
1 2	8 14.68	− 0 16.7	2.620	3.496	8.5	23.0	148 W	45	64
1 12	8 6.20	− 0 13.6	2.591	3.513	6.5	22.9	156 W	45	64
1 22	7 57.24	+ 0 4.4	2.590	3.530	5.5	22.9	160 E	45	64
2 1	7 48.56	+ 0 35.5	2.620	3.546	6.3	22.9	157 E	46	63
2 11	7 40.86	+ 1 16.5	2.679	3.561	8.2	23.1	149 E	46	63
317255 2002 DJ_{5}									
1 2	8 16.26	+29 35.2	1.228	2.174	9.4	22.6	159 W	75	34
1 7	8 6.68	+30 6.5	1.203	2.168	6.8	22.4	165 W	75	34
1 12	7 56.32	+30 33.6	1.186	2.161	4.7	22.3	170 W	76	33
1 17	7 45.48	+30 55.0	1.177	2.152	4.6	22.2	170 E	76	33
1 22	7 34.50	+31 9.7	1.176	2.143	6.5	22.3	166 E	76	33
1 27	7 23.77	+31 17.1	1.182	2.133	9.2	22.4	160 E	76	33
2 1	7 13.66	+31 17.5	1.196	2.122	12.1	22.6	153 E	76	33
379772 2011 HK_{28}									
1 2	8 16.81	+10 28.7	1.747	2.672	8.9	22.3	155 W	55	54
1 12	8 7.00	+11 4.7	1.694	2.659	5.1	22.1	166 W	56	53
1 22	7 56.07	+11 52.3	1.669	2.645	3.4	22.0	171 E	57	52
2 1	7 45.22	+12 47.3	1.674	2.630	6.5	22.1	163 E	58	51
2 11	7 35.69	+13 44.8	1.707	2.614	10.5	22.3	151 E	59	50
469722 2005 LP_{40}									
1 2	8 21.61	− 2 10.2	1.469	2.349	13.6	23.0	146 W	43	66
1 12	8 8.18	− 0 36.9	1.469	2.400	9.7	22.9	156 W	44	65
1 22	7 54.36	+ 1 19.5	1.498	2.449	7.6	22.9	161 E	46	63
2 1	7 41.62	+ 3 29.1	1.558	2.496	8.8	23.0	157 E	48	61
2 11	7 31.20	+ 5 40.9	1.648	2.541	11.8	23.3	148 E	51	58
407286 2010 GW_{140}									
1 2	8 24.36	+12 27.6	2.136	3.054	8.0	22.5	155 W	57	52
1 12	8 15.14	+12 45.8	2.080	3.044	4.5	22.3	166 W	58	51
1 22	8 4.92	+13 11.3	2.055	3.034	2.3	22.1	173 E	58	51
2 1	7 54.66	+13 41.3	2.060	3.022	4.8	22.3	165 E	59	50
2 11	7 45.40	+14 12.7	2.095	3.010	8.4	22.5	153 E	59	50
495857 2003 MT									
1 2	8 25.21	− 4 22.3	3.516	4.346	7.7	25.5	144 W	41	68
1 12	8 17.64	− 4 35.7	3.454	4.342	6.3	25.4	151 W	40	69
1 22	8 9.48	− 4 35.6	3.421	4.336	5.4	25.3	155 E	40	69
2 1	8 1.26	− 4 22.7	3.420	4.330	5.6	25.3	155 E	41	68
2 11	7 53.56	− 3 58.4	3.448	4.322	6.8	25.4	149 E	41	68
416843 2005 LA_{20}									
1 2	8 25.22	+13 39.1	2.548	3.464	6.9	22.4	155 W	59	50
1 12	8 16.93	+14 24.1	2.503	3.467	3.7	22.2	167 W	59	50
1 22	8 7.86	+15 14.4	2.489	3.471	1.4	22.1	175 E	60	49
2 1	7 58.79	+16 6.6	2.507	3.473	3.8	22.3	166 E	61	48
2 11	7 50.53	+16 57.3	2.556	3.474	7.0	22.5	155 E	62	47

(continuation)

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
231937 2001 FO_{32}									
	h m	° ′			°	m	°	°	°
1 2	8 27.77	−28 16.5	2.368	3.021	15.8	22.8	123 W	17	88
1 7	8 21.12	−28 21.9	2.345	3.032	15.2	22.8	126 W	17	88
1 12	8 14.12	−28 17.9	2.327	3.041	14.6	22.8	129 W	17	88
1 17	8 6.89	−28 4.2	2.314	3.050	14.1	22.7	131 W	17	88
1 22	7 59.60	−27 40.7	2.308	3.058	13.8	22.7	132 E	17	88
1 27	7 52.39	−27 7.6	2.308	3.066	13.6	22.7	133 E	18	89
2 1	7 45.43	−26 25.4	2.315	3.073	13.6	22.7	133 E	19	90
2 6	7 38.85	−25 35.0	2.328	3.079	13.7	22.8	132 E	19	90
192547 1998 TW_{6}									
1 2	8 28.53	+27 3.0	1.993	2.922	7.7	22.3	157 W	72	37
1 7	8 23.44	+27 25.3	1.963	2.916	5.9	22.2	162 W	72	37
1 12	8 17.90	+27 46.5	1.941	2.910	4.1	22.0	168 W	73	36
1 17	8 12.03	+28 6.0	1.927	2.903	2.9	21.9	172 W	73	36
1 22	8 5.97	+28 23.2	1.920	2.897	2.9	21.9	171 E	73	36
1 27	7 59.90	+28 37.5	1.921	2.890	4.3	22.0	167 E	74	35
2 1	7 53.97	+28 48.5	1.930	2.883	6.1	22.1	162 E	74	35
2 6	7 48.36	+28 56.1	1.946	2.875	8.0	22.2	156 E	74	35
2 11	7 43.19	+29 0.3	1.968	2.867	9.8	22.3	150 E	74	35
2 16	7 38.58	+29 1.3	1.998	2.859	11.6	22.4	144 E	74	35
347509 1999 RA_{104}									
1 2	8 31.26	+ 8 24.6	2.039	2.938	9.3	22.9	151 W	53	56
1 12	8 21.63	+ 8 45.8	1.991	2.943	5.9	22.7	162 W	54	55
1 22	8 10.94	+ 9 18.5	1.973	2.946	3.5	22.6	169 E	54	55
2 1	8 0.21	+ 9 59.3	1.986	2.948	5.0	22.7	165 E	55	54
2 11	7 50.50	+10 44.6	2.029	2.948	8.4	22.9	154 E	56	53
440904 2006 VA									
1 2	8 31.32	+17 48.0	1.923	2.845	8.4	23.1	155 W	63	46
1 12	8 20.71	+18 12.3	1.879	2.847	4.2	22.8	168 W	63	46
1 22	8 8.95	+18 38.8	1.864	2.848	0.6	22.5	178 E	64	45
2 1	7 57.21	+19 3.6	1.882	2.848	4.7	22.9	166 E	64	45
2 11	7 46.69	+19 24.1	1.929	2.847	8.9	23.1	154 E	64	45
463240 2012 FC									
1 2	8 34.18	−13 30.7	2.305	3.080	13.0	22.1	135 W	31	78
1 12	8 26.50	−13 30.5	2.208	3.045	11.4	21.9	142 W	31	78
1 22	8 17.50	−13 2.1	2.135	3.009	10.2	21.8	147 W	32	77
2 1	8 7.97	−12 4.4	2.088	2.972	10.0	21.7	148 E	33	76
2 11	7 58.86	−10 39.9	2.068	2.934	11.0	21.7	145 E	34	75
2 21	7 51.07	− 8 54.3	2.073	2.895	12.9	21.7	139 E	36	73
514150 2015 KJ_{57}									
1 2	8 34.86	+25 7.5	0.685	1.631	14.6	22.5	155 W	70	39
1 7	8 24.50	+25 42.7	0.693	1.657	10.3	22.4	162 W	71	38
1 12	8 13.72	+26 13.0	0.707	1.683	6.3	22.3	169 W	71	38
1 17	8 2.98	+26 36.9	0.726	1.708	3.6	22.2	174 W	72	37
1 22	7 52.73	+26 53.8	0.753	1.732	4.8	22.4	172 E	72	37
1 27	7 43.38	+27 3.8	0.785	1.756	8.0	22.7	166 E	72	37
2 1	7 35.23	+27 7.4	0.823	1.779	11.4	22.9	159 E	72	37
2 6	7 28.47	+27 5.6	0.867	1.802	14.5	23.2	153 E	72	37
101795 1999 HX_{2}									
1 2	8 35.79	+12 52.3	3.894	4.786	5.5	21.8	152 W	58	51
1 12	8 29.37	+13 26.7	3.823	4.775	3.3	21.6	164 W	58	51
1 22	8 22.27	+14 5.6	3.784	4.763	1.3	21.5	174 W	59	50
2 1	8 14.98	+14 46.9	3.777	4.751	2.1	21.5	170 E	60	49
2 11	8 7.99	+15 28.6	3.804	4.738	4.3	21.7	159 E	60	49
2 21	8 1.78	+16 8.6	3.860	4.724	6.5	21.8	147 E	61	48
394438 2007 PJ_{35}									
1 2	8 35.92	+21 54.3	1.922	2.843	8.5	21.6	155 W	67	42
1 7	8 31.07	+22 9.6	1.907	2.855	6.4	21.5	161 W	67	42
1 12	8 25.83	+22 24.9	1.899	2.866	4.4	21.4	167 W	67	42
1 17	8 20.34	+22 39.5	1.899	2.878	2.3	21.2	173 W	68	41
1 22	8 14.73	+22 53.1	1.906	2.889	1.0	21.2	177 W	68	41
1 27	8 9.17	+23 5.0	1.921	2.901	2.5	21.3	173 E	68	41
2 1	8 3.79	+23 15.1	1.944	2.911	4.5	21.5	167 E	68	41
2 6	7 58.75	+23 23.1	1.974	2.922	6.5	21.6	161 E	68	41
2 11	7 54.16	+23 28.9	2.011	2.933	8.3	21.7	154 E	68	41
2 16	7 50.11	+23 32.6	2.055	2.943	10.1	21.9	149 E	69	40
2 21	7 46.67	+23 34.2	2.105	2.953	11.7	22.0	143 E	69	40
17274 2000 LC_{16}									
1 2	8 36.42	+19 22.0	2.829	3.739	6.6	22.3	154 W	64	45
1 12	8 27.55	+19 46.7	2.806	3.770	3.5	22.2	167 W	65	44
1 22	8 17.99	+20 11.3	2.816	3.800	0.3	21.9	179 W	65	44
2 1	8 8.50	+20 33.5	2.858	3.829	2.9	22.2	169 E	66	43
2 11	7 59.84	+20 51.4	2.932	3.857	5.9	22.4	156 E	66	43