21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
152742 1998 XE_{12}									
	h m	° ′			°	m	°	°	°
7 25	8 11.73	+17 23.1	2.161	1.147	2.3	21.3	3 W	—	—
7 30	8 26.04	+16 21.3	2.110	1.098	3.1	21.2	3 W	—	—
8 4	8 40.91	+15 12.4	2.054	1.045	4.1	21.1	4 W	—	—
8 9	8 56.48	+13 55.5	1.994	0.987	5.1	21.0	5 W	—	—
8 14	9 12.86	+12 29.6	1.929	0.926	6.1	20.8	6 W	—	—
8 19	9 30.25	+10 53.7	1.859	0.859	6.9	20.6	6 W	—	—
8 24	9 48.87	+ 9 6.2	1.785	0.787	7.6	20.4	6 W	—	—
8 29	10 9.05	+ 7 5.9	1.707	0.709	8.0	20.1	6 W	—	—
9 3	10 31.23	+ 4 51.0	1.623	0.624	8.0	19.7	5 W	—	—
9 8	10 56.00	+ 2 20.4	1.533	0.533	8.0	19.2	4 W	—	—
9 13	11 24.21	− 0 25.6	1.432	0.435	10.1	18.7	4 E	—	—
9 15	11 36.70	− 1 35.2	1.387	0.395	12.7	18.5	5 E	—	—
9 17	11 49.99	− 2 45.5	1.339	0.355	17.0	18.4	6 E	—	—
9 19	12 4.09	− 3 54.5	1.286	0.316	23.6	18.3	7 E	—	1*
9 21	12 18.95	− 4 58.9	1.227	0.280	33.3	18.2	9 E	—	3*
9 23	12 34.23	− 5 53.2	1.159	0.251	46.6	18.2	10 E	—	4*
9 24	12 41.82	− 6 14.0	1.122	0.240	54.8	18.3	11 E	—	5*
9 25	12 49.20	− 6 29.2	1.084	0.233	63.9	18.4	12 E	—	6*
9 26	12 56.21	− 6 37.7	1.043	0.229	73.7	18.6	13 E	—	7*
9 27	13 2.69	− 6 38.8	1.002	0.230	83.7	18.8	13 E	—	7*
9 28	13 8.52	− 6 32.2	0.960	0.235	93.6	19.2	14 E	—	7*
9 29	13 13.62	− 6 18.2	0.919	0.243	103.1	19.6	14 E	—	7*
9 30	13 17.98	− 5 57.4	0.879	0.254	111.8	20.1	14 E	1*	7*
10 1	13 21.63	− 5 30.6	0.841	0.269	119.7	20.7	13 E	2*	7*
10 2	13 24.62	− 4 58.7	0.805	0.285	126.7	21.3	13 E	2*	6*
437905 2001 XU_{30}									
7 25	8 24.52	+22 38.7	1.888	0.877	4.0	21.3	3 E	—	—
7 30	8 49.56	+21 21.3	1.846	0.836	5.0	21.2	4 E	—	—
8 4	9 15.21	+19 45.3	1.806	0.801	6.5	21.1	5 E	—	—
8 9	9 41.29	+17 50.4	1.770	0.771	8.6	21.1	7 E	—	—
8 14	10 7.64	+15 37.0	1.738	0.749	11.1	21.1	8 E	—	1*
8 19	10 34.09	+13 6.5	1.710	0.735	13.9	21.1	10 E	1*	3*
8 24	11 0.48	+10 21.3	1.687	0.730	16.9	21.1	12 E	2*	5*
8 29	11 26.69	+ 7 24.5	1.669	0.734	19.8	21.2	14 E	2*	8*
9 3	11 52.62	+ 4 19.6	1.657	0.747	22.5	21.3	16 E	3*	10*
9 8	12 18.20	+ 1 10.9	1.652	0.768	24.8	21.5	19 E	3*	12*
96315 1997 AP_{10}									
7 25	8 48.72	+16 7.8	3.026	2.026	4.2	21.3	8 E	—	2*
8 4	9 7.12	+14 41.9	2.985	1.973	1.9	21.1	4 E	—	—
8 14	9 25.98	+13 6.0	2.928	1.916	1.3	20.9	2 W	—	—
8 24	9 45.35	+11 19.7	2.855	1.854	3.5	21.0	6 W	—	—
9 3	10 5.35	+ 9 22.3	2.769	1.787	6.0	20.9	11 W	3*	3*
9 13	10 26.11	+ 7 13.0	2.670	1.716	8.6	20.9	15 W	6*	5*
9 23	10 47.84	+ 4 51.1	2.559	1.639	11.2	20.8	19 W	10*	8*
10 3	11 10.81	+ 2 15.3	2.438	1.557	14.0	20.7	22 W	13*	10*
10 13	11 35.40	− 0 35.5	2.310	1.469	16.8	20.5	25 W	16*	13*
10 23	12 2.10	− 3 42.3	2.177	1.376	19.7	20.4	28 W	18*	15*
11 2	12 31.63	− 7 5.8	2.042	1.277	22.6	20.2	30 W	19*	16*
11 12	13 4.94	−10 45.3	1.909	1.171	25.5	19.9	31 W	18*	18*
11 17	13 23.39	−12 39.9	1.845	1.116	26.9	19.8	31 W	18*	18*
11 22	13 43.30	−14 36.7	1.783	1.060	28.3	19.6	31 W	17*	19*
11 27	14 4.87	−16 34.2	1.725	1.002	29.6	19.5	30 W	16*	19*
12 2	14 28.35	−18 30.0	1.671	0.943	30.7	19.3	29 W	14*	19*
12 7	14 53.95	−20 21.3	1.623	0.883	31.5	19.1	28 W	13*	18*
12 12	15 21.86	−22 3.7	1.580	0.823	32.0	18.9	26 W	11*	17*
12 17	15 52.24	−23 32.1	1.545	0.763	31.9	18.7	24 W	9*	16*
12 22	16 25.11	−24 40.4	1.518	0.705	31.1	18.5	22 W	7*	14*
12 27	17 0.34	−25 22.0	1.498	0.649	29.2	18.2	19 W	4*	11*
1 1	17 37.58	−25 30.3	1.487	0.599	25.9	17.9	15 W	2*	9*
1 6	18 16.24	−25 0.4	1.484	0.558	21.0	17.6	12 W	—	5*
1 11	18 55.55	−23 49.7	1.486	0.529	14.6	17.3	8 W	—	2*
1 16	19 34.60	−21 59.6	1.493	0.515	7.1	17.0	4 W	—	—
1 21	20 12.51	−19 35.8	1.503	0.519	1.0	16.6	1 E	—	—
1915 Quetzálcoatl									
7 25	8 53.87	+13 14.9	2.079	1.099	10.1	21.5	11 E	—	5*
8 4	9 34.92	+12 6.8	2.073	1.092	10.0	21.4	11 E	—	5*
8 14	10 15.69	+10 35.3	2.078	1.100	10.0	21.5	11 E	—	5*
8 24	10 55.70	+ 8 44.9	2.095	1.121	10.1	21.5	11 E	—	5*
9 3	11 34.58	+ 6 41.3	2.124	1.155	10.2	21.6	12 E	1*	5*
275792 2001 QH_{142}									
7 25	9 8.87	+13 42.6	2.291	1.326	10.5	21.5	14 E	—	8*
8 4	9 35.19	+ 9 36.0	2.272	1.299	9.5	21.4	12 E	—	6*
8 14	10 1.59	+ 5 14.2	2.250	1.273	9.1	21.3	11 E	—	4*
8 24	10 28.33	+ 0 39.2	2.225	1.250	9.2	21.2	11 E	—	2*
9 3	10 55.75	− 4 6.6	2.199	1.230	9.8	21.2	12 E	—	1*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
275792 2001 QH_{142} *(continuation)*									
	h m	° ′			°	m	°	°	°
9 13	11 24.23	− 8 59.9	2.173	1.213	10.7	21.2	13 E	—	—
9 23	11 54.17	−13 55.5	2.150	1.201	11.7	21.2	14 W	—	1*
10 3	12 26.03	−18 47.3	2.130	1.193	12.7	21.2	15 W	—	3*
10 13	13 0.24	−23 27.0	2.115	1.189	13.4	21.2	16 W	—	4*
10 23	13 37.15	−27 44.6	2.108	1.190	13.9	21.2	17 W	—	4*
11 2	14 16.93	−31 29.1	2.108	1.195	14.1	21.2	17 W	—	4*
11 12	14 59.43	−34 29.5	2.117	1.205	13.9	21.2	17 W	—	4*
11 22	15 44.00	−36 36.5	2.133	1.219	13.4	21.3	17 W	—	3*
12 2	16 29.58	−37 44.2	2.156	1.237	12.6	21.3	16 W	—	3*
12 12	17 14.81	−37 52.1	2.185	1.259	11.5	21.3	15 W	—	2*
12 22	17 58.36	−37 4.2	2.218	1.283	10.4	21.3	14 W	—	2*
1 1	18 39.28	−35 28.4	2.252	1.309	9.3	21.4	12 W	—	1*
1 11	19 17.08	−33 13.9	2.286	1.338	8.5	21.4	12 W	—	2*
1 21	19 51.64	−30 29.8	2.318	1.367	8.2	21.5	11 W	—	3*
261879 2006 GO_{53}									
7 25	9 13.74	+ 3 15.7	3.740	2.820	7.6	21.5	22 E	—	14*
8 4	9 27.70	+ 1 53.1	3.760	2.807	6.2	21.4	17 E	—	8*
8 14	9 41.77	+ 0 23.9	3.765	2.794	5.1	21.3	14 E	—	2*
8 24	9 55.90	− 1 11.6	3.755	2.779	4.7	21.3	13 W	—	3*
9 3	10 10.07	− 2 53.1	3.731	2.763	5.1	21.3	14 W	—	7*
9 13	10 24.25	− 4 40.4	3.692	2.747	6.2	21.3	17 W	—	11*
9 23	10 38.40	− 6 33.1	3.639	2.729	7.7	21.3	21 W	4*	15*
10 3	10 52.52	− 8 30.9	3.573	2.710	9.3	21.3	26 W	8*	19*
10 13	11 6.57	−10 33.6	3.494	2.690	11.1	21.4	31 W	13*	23*
10 23	11 20.52	−12 40.6	3.403	2.669	12.8	21.3	36 W	17*	28*
11 2	11 34.33	−14 51.8	3.300	2.647	14.5	21.3	42 W	20*	32*
11 12	11 47.97	−17 6.8	3.187	2.624	16.2	21.3	48 W	22*	38*
11 22	12 1.36	−19 25.1	3.064	2.600	17.8	21.2	53 W	23*	43*
12 2	12 14.43	−21 46.5	2.934	2.575	19.2	21.2	59 W	22*	49*
12 12	12 27.08	−24 10.5	2.797	2.549	20.6	21.1	65 W	21*	56*
12 22	12 39.17	−26 36.7	2.654	2.522	21.7	21.0	72 W	18	64*
1 1	12 50.54	−29 4.7	2.509	2.493	22.7	20.9	78 W	16	71*
1 11	13 0.94	−31 33.7	2.361	2.464	23.4	20.7	84 W	13	78*
1 21	13 10.08	−34 2.8	2.213	2.434	23.8	20.6	91 W	11	82*
455672 2005 DE									
7 25	9 22.54	+18 33.0	2.807	1.848	8.5	21.5	16 E	3*	8*
8 4	9 44.32	+15 25.9	2.784	1.802	6.6	21.3	12 E	—	5*
8 14	10 6.24	+12 6.2	2.756	1.759	4.7	21.1	8 E	—	2*
8 24	10 28.32	+ 8 34.3	2.725	1.720	2.9	21.0	5 E	—	—
9 3	10 50.67	+ 4 51.0	2.690	1.683	1.7	20.8	3 E	—	—
9 13	11 13.40	+ 0 57.5	2.654	1.651	2.4	20.8	4 W	—	—
9 23	11 36.62	− 3 4.7	2.617	1.624	4.0	20.8	7 W	—	1*
10 3	12 0.48	− 7 13.4	2.580	1.601	5.8	20.8	9 W	—	3*
10 13	12 25.18	−11 26.0	2.545	1.584	7.7	20.9	12 W	—	6*
10 23	12 50.87	−15 39.0	2.513	1.573	9.4	20.9	15 W	1*	9*
11 2	13 17.75	−19 48.5	2.484	1.567	11.0	20.9	18 W	2*	11*
11 12	13 46.02	−23 49.8	2.459	1.568	12.6	21.0	20 W	2*	14*
11 22	14 15.79	−27 37.7	2.438	1.574	14.0	21.0	23 W	2*	17*
12 2	14 47.16	−31 6.9	2.422	1.586	15.3	21.1	25 W	2*	19*
12 12	15 20.08	−34 12.2	2.410	1.604	16.5	21.1	28 W	1*	22*
12 22	15 54.35	−36 48.9	2.401	1.627	17.7	21.2	30 W	—	24*
1 1	16 29.60	−38 53.6	2.395	1.655	18.7	21.2	33 W	—	27*
1 11	17 5.28	−40 24.7	2.390	1.688	19.7	21.3	35 W	—	29*
1 21	17 40.73	−41 22.2	2.385	1.725	20.7	21.4	38 W	—	31*
152667 1998 FR_{11}									
7 25	10 15.24	+13 41.8	3.235	2.396	11.8	21.5	29 E	9*	21*
8 4	10 30.42	+12 20.2	3.208	2.312	10.0	21.3	23 E	6*	16*
8 14	10 46.50	+10 50.5	3.167	2.226	8.1	21.1	18 E	3*	11*
8 24	11 3.50	+ 9 12.5	3.110	2.137	6.1	20.9	13 E	1*	6*
9 3	11 21.48	+ 7 26.0	3.039	2.046	4.1	20.6	8 E	—	2*
9 13	11 40.55	+ 5 30.8	2.955	1.953	2.3	20.4	4 E	—	—
9 23	12 0.83	+ 3 26.7	2.859	1.858	1.8	20.2	3 E	—	—
10 3	12 22.51	+ 1 13.6	2.753	1.761	3.4	20.1	6 W	—	—
10 13	12 45.86	− 1 8.7	2.639	1.662	5.5	20.0	9 W	3*	—
10 23	13 11.17	− 3 39.7	2.519	1.561	7.8	19.8	12 W	6*	—
11 2	13 38.87	− 6 18.6	2.397	1.459	10.0	19.7	15 W	8*	1*
11 12	14 9.44	− 9 3.7	2.275	1.357	12.1	19.5	17 W	10*	3*
11 22	14 43.45	−11 51.3	2.158	1.255	14.0	19.3	18 W	11*	4*
11 27	15 1.94	−13 14.4	2.102	1.205	14.8	19.1	18 W	11*	5*
12 2	15 21.52	−14 35.6	2.049	1.155	15.5	19.0	18 W	10*	5*
12 7	15 42.26	−15 53.6	2.000	1.107	16.1	18.9	18 W	10*	6*
12 12	16 4.20	−17 6.8	1.955	1.061	16.5	18.8	18 W	9*	6*
12 17	16 27.37	−18 13.4	1.914	1.017	16.7	18.6	17 W	9*	6*
12 22	16 51.74	−19 11.5	1.878	0.975	16.6	18.5	16 W	7*	6*
12 27	17 17.27	−19 58.7	1.848	0.937	16.3	18.4	15 W	6*	6*
1 1	17 43.83	−20 33.1	1.823	0.904	15.6	18.2	14 W	5*	5*
1 6	18 11.26	−20 52.7	1.805	0.875	14.6	18.1	13 W	4*	4*
1 11	18 39.31	−20 55.9	1.793	0.852	13.2	18.0	11 W	2*	4*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
						(continuation)			
152667 1998 FR_{11}									
	h m	° ′			°	m	°	°	°
1 16	19 7.70	−20 41.9	1.788	0.836	11.6	17.9	10 W	1*	2*
1 21	19 36.13	−20 10.4	1.789	0.827	9.8	17.8	8 W	—	1*
488450 1994 JX									
7 25	10 27.18	+32 5.4	2.583	1.798	17.2	21.4	32 E	23*	12*
8 4	10 50.79	+28 40.1	2.547	1.727	16.4	21.3	29 E	20*	11*
8 14	11 14.57	+24 57.4	2.508	1.655	15.5	21.1	26 E	18*	9*
8 24	11 38.56	+20 57.3	2.465	1.586	14.5	21.0	23 E	16*	8*
9 3	12 2.83	+16 40.1	2.422	1.518	13.4	20.8	20 E	13*	6*
9 13	12 27.52	+12 6.7	2.378	1.453	12.2	20.6	18 E	11*	4*
9 23	12 52.75	+ 7 18.8	2.336	1.392	10.8	20.4	15 E	9*	3*
10 3	13 18.74	+ 2 18.4	2.297	1.336	9.2	20.3	12 E	6*	1*
10 13	13 45.76	− 2 51.2	2.260	1.287	7.4	20.1	10 E	3*	—
10 23	14 14.09	− 8 5.6	2.228	1.246	5.4	19.9	7 E	—	—
10 28	14 28.87	−10 42.9	2.214	1.229	4.4	19.8	5 E	—	—
11 2	14 44.11	−13 19.1	2.202	1.214	3.3	19.7	4 E	—	—
11 7	14 59.89	−15 53.4	2.191	1.202	2.3	19.6	3 E	—	—
11 12	15 16.23	−18 24.7	2.181	1.193	1.7	19.5	2 E	—	—
11 17	15 33.20	−20 51.7	2.174	1.186	1.9	19.5	2 E	—	—
11 22	15 50.83	−23 13.3	2.168	1.183	2.7	19.5	3 E	—	—
11 27	16 9.17	−25 28.1	2.164	1.182	3.7	19.6	4 W	—	—
12 2	16 28.23	−27 34.7	2.162	1.185	4.8	19.7	6 W	—	—
12 7	16 48.03	−29 31.9	2.162	1.191	5.9	19.7	7 W	—	—
12 12	17 8.53	−31 18.1	2.165	1.199	6.9	19.8	8 W	—	—
12 17	17 29.68	−32 52.2	2.169	1.211	7.9	19.9	10 W	—	1*
12 22	17 51.41	−34 13.0	2.176	1.225	8.8	19.9	11 W	—	1*
12 27	18 13.59	−35 19.7	2.185	1.241	9.6	20.0	12 W	—	2*
1 1	18 36.10	−36 11.6	2.197	1.260	10.3	20.1	13 W	—	2*
1 6	18 58.75	−36 48.6	2.211	1.282	11.0	20.1	14 W	—	3*
1 11	19 21.37	−37 10.6	2.227	1.305	11.5	20.2	15 W	—	3*
1 16	19 43.77	−37 18.2	2.245	1.330	12.0	20.3	16 W	—	3*
1 21	20 5.79	−37 12.2	2.265	1.357	12.4	20.4	17 W	—	4*
9856 1991 EE									
7 25	10 39.38	+ 9 53.9	2.345	1.632	21.3	21.4	36 E	10*	28*
8 4	11 0.94	+ 8 12.4	2.310	1.542	20.2	21.2	32 E	8*	25*
8 14	11 24.15	+ 6 16.8	2.262	1.451	19.3	21.0	28 E	7*	22*
8 24	11 49.17	+ 4 6.9	2.203	1.359	18.5	20.7	25 E	6*	19*
9 3	12 16.28	+ 1 42.5	2.135	1.267	18.0	20.5	23 E	5*	16*
9 13	12 45.84	− 0 56.3	2.058	1.176	17.9	20.3	21 E	5*	15*
9 23	13 18.26	− 3 48.2	1.977	1.089	18.4	20.0	20 E	5*	13*
10 3	13 54.03	− 6 50.5	1.892	1.009	19.6	19.8	20 E	6*	13*
10 8	14 13.34	− 8 24.2	1.850	0.972	20.5	19.7	20 E	6*	13*
10 13	14 33.68	− 9 58.4	1.809	0.938	21.6	19.6	20 E	6*	13*
10 18	14 55.10	−11 31.9	1.768	0.909	22.9	19.5	21 E	7*	14*
10 23	15 17.62	−13 3.1	1.730	0.883	24.4	19.5	22 E	7*	14*
10 28	15 41.27	−14 30.5	1.693	0.863	26.1	19.4	22 E	8*	15*
11 2	16 6.02	−15 52.0	1.660	0.849	27.9	19.4	24 E	9*	16*
11 7	16 31.80	−17 5.6	1.630	0.841	29.7	19.4	25 E	10*	17*
11 12	16 58.51	−18 9.0	1.604	0.839	31.4	19.4	26 E	11*	18*
11 17	17 25.98	−19 0.0	1.584	0.844	33.0	19.4	28 E	12*	19*
11 22	17 53.98	−19 36.9	1.568	0.855	34.3	19.5	29 E	13*	20*
11 27	18 22.28	−19 58.4	1.560	0.872	35.4	19.5	31 E	14*	21*
12 2	18 50.60	−20 3.6	1.557	0.895	36.0	19.6	32 E	15*	22*
12 7	19 18.65	−19 52.6	1.562	0.923	36.4	19.7	34 E	16*	23*
12 12	19 46.16	−19 26.1	1.574	0.954	36.4	19.8	35 E	17*	24*
12 17	20 12.88	−18 45.3	1.593	0.990	36.1	19.9	36 E	18*	25*
12 22	20 38.64	−17 52.0	1.618	1.028	35.5	20.0	37 E	20*	25*
12 27	21 3.30	−16 48.4	1.650	1.068	34.7	20.1	38 E	21*	25*
1 1	21 26.81	−15 36.6	1.689	1.110	33.8	20.2	39 E	22*	25*
1 6	21 49.12	−14 18.5	1.732	1.154	32.7	20.3	39 E	23*	25*
1 11	22 10.26	−12 56.2	1.781	1.198	31.5	20.4	40 E	24*	25*
1 16	22 30.27	−11 31.3	1.834	1.244	30.2	20.5	40 E	24*	25*
1 21	22 49.21	−10 5.1	1.890	1.289	28.9	20.6	39 E	25*	24*
138258 2000 GD_2									
7 25	10 47.17	−12 26.6	1.256	0.967	52.5	21.5	49 E	—	42*
8 4	11 6.89	−15 49.1	1.225	0.900	54.5	21.3	46 E	—	37*
8 14	11 27.49	−19 0.9	1.166	0.821	58.3	21.1	44 E	—	33*
8 24	11 49.09	−21 46.8	1.074	0.729	64.9	20.9	41 E	—	29*
9 3	12 11.20	−23 26.3	0.949	0.627	76.6	20.6	37 E	—	25*
9 13	12 31.04	−22 8.1	0.792	0.520	98.0	20.7	31 E	—	20*
283369 2000 EX_{13}									
7 25	11 7.45	+ 3 34.5	2.247	1.682	25.1	21.4	45 E	11*	38*
8 4	11 29.76	+ 0 59.6	2.266	1.644	24.0	21.4	41 E	8*	35*
8 14	11 53.02	− 1 43.2	2.281	1.608	22.8	21.3	38 E	6*	32*
8 24	12 17.28	− 4 31.8	2.292	1.575	21.6	21.2	35 E	5*	29*
9 3	12 42.63	− 7 24.1	2.300	1.546	20.4	21.2	32 E	3*	26*
9 13	13 9.15	−10 17.2	2.308	1.519	19.2	21.1	30 E	2*	24*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
						(continuation)			
283369 2000 EX_{13}									
	h m	° ′			°	m	°	°	°
9 23	13 36.92	−13 7.8	2.314	1.497	18.0	21.0	27 E	2*	21*
10 3	14 6.03	−15 52.0	2.322	1.480	16.8	21.0	25 E	1*	19*
10 13	14 36.52	−18 25.4	2.331	1.467	15.5	20.9	23 E	—	17*
10 23	15 8.36	−20 43.4	2.343	1.459	14.2	20.9	21 E	—	15*
11 2	15 41.45	−22 41.4	2.357	1.456	12.9	20.8	19 E	—	13*
11 12	16 15.60	−24 15.3	2.376	1.458	11.5	20.8	17 E	—	11*
11 22	16 50.49	−25 21.6	2.397	1.466	10.0	20.8	15 E	—	9*
12 2	17 25.72	−25 58.0	2.423	1.478	8.5	20.8	13 E	—	7*
12 12	18 0.86	−26 3.9	2.452	1.496	7.0	20.7	11 E	—	4*
12 22	18 35.44	−25 40.0	2.484	1.517	5.4	20.7	8 E	—	2*
1 1	19 9.08	−24 48.4	2.518	1.543	3.7	20.7	6 E	—	—
1 11	19 41.47	−23 32.3	2.553	1.572	2.2	20.7	3 E	—	—
1 21	20 12.41	−21 55.4	2.588	1.605	1.2	20.7	2 E	—	—
326742 2003 QN_{47}									
7 25	11 35.25	−20 42.8	1.603	1.459	38.4	21.5	63 E	—	55*
8 4	11 55.90	−23 21.0	1.611	1.408	38.5	21.4	60 E	—	51*
8 14	12 19.28	−26 7.9	1.609	1.358	38.8	21.3	57 E	—	47*
8 24	12 45.79	−28 59.8	1.598	1.309	39.2	21.3	55 E	—	44*
9 3	13 15.97	−31 50.5	1.579	1.263	39.7	21.2	53 E	—	41*
9 13	13 50.45	−34 31.6	1.555	1.220	40.3	21.1	52 E	—	40*
9 23	14 29.73	−36 50.5	1.528	1.182	41.0	21.0	51 E	—	39*
10 3	15 13.98	−38 30.9	1.501	1.150	41.8	20.9	50 E	—	39*
10 13	16 2.65	−39 14.6	1.477	1.124	42.5	20.9	50 E	—	40*
10 23	16 54.11	−38 45.2	1.459	1.106	42.9	20.8	49 E	—	41*
11 2	17 45.99	−36 53.9	1.451	1.097	43.1	20.8	49 E	2*	43*
11 12	18 35.90	−33 43.6	1.454	1.097	42.9	20.8	49 E	7*	43*
11 22	19 22.17	−29 27.7	1.470	1.105	42.2	20.8	49 E	12*	42*
12 2	20 4.21	−24 25.4	1.499	1.123	41.1	20.8	48 E	17*	40*
12 12	20 42.25	−18 56.2	1.541	1.148	39.7	20.9	48 E	23*	36*
12 22	21 16.87	−13 16.7	1.595	1.180	37.9	21.0	48 E	27*	32*
1 1	21 48.80	− 7 38.9	1.658	1.218	36.0	21.1	47 E	31*	27*
1 11	22 18.76	− 2 10.8	1.730	1.260	34.0	21.2	46 E	34*	22*
1 21	22 47.30	+ 3 2.8	1.807	1.306	32.0	21.3	45 E	36*	18*
142561 2002 TX_{68}									
7 25	11 39.52	+13 26.3	1.811	1.374	33.8	21.5	49 E	23*	37*
8 4	12 6.52	+11 0.6	1.815	1.337	33.4	21.4	46 E	22*	36*
8 14	12 34.49	+ 8 20.5	1.814	1.303	33.1	21.4	45 E	21*	35*
8 24	13 3.50	+ 5 28.0	1.809	1.272	32.8	21.3	43 E	20*	34*
9 3	13 33.62	+ 2 25.7	1.803	1.244	32.6	21.2	42 E	19*	33*
9 13	14 4.99	− 0 43.4	1.796	1.221	32.4	21.2	41 E	19*	32*
9 23	14 37.67	− 3 54.6	1.791	1.203	32.2	21.1	40 E	18*	31*
10 3	15 11.75	− 7 3.0	1.789	1.191	31.9	21.1	39 E	18*	30*
10 13	15 47.25	−10 2.2	1.792	1.184	31.5	21.1	38 E	18*	30*
10 23	16 24.08	−12 45.5	1.802	1.184	31.0	21.1	38 E	17*	29*
11 2	17 2.06	−15 6.4	1.819	1.189	30.2	21.1	37 E	17*	28*
11 12	17 40.90	−16 58.9	1.845	1.201	29.3	21.1	36 E	17*	27*
11 22	18 20.15	−18 18.8	1.879	1.218	28.1	21.1	36 E	17*	26*
12 2	18 59.33	−19 3.8	1.921	1.241	26.7	21.2	34 E	17*	24*
12 12	19 37.93	−19 13.9	1.970	1.268	25.2	21.2	33 E	17*	22*
12 22	20 15.50	−18 51.5	2.026	1.298	23.5	21.3	32 E	16*	20*
1 1	20 51.72	−18 0.2	2.088	1.332	21.8	21.4	30 E	16*	19*
1 11	21 26.39	−16 44.6	2.153	1.369	19.9	21.4	28 E	15*	17*
482650 2013 BK_{18}									
7 25	12 44.93	+27 49.9	0.816	0.947	69.9	21.5	61 E	44*	33*
7 30	13 13.64	+24 28.5	0.798	0.979	68.8	21.5	64 E	45*	36*
8 4	13 41.56	+20 39.8	0.787	1.013	67.3	21.5	67 E	45*	41*
8 9	14 8.54	+16 30.5	0.784	1.048	65.4	21.5	70 E	44*	45*
8 14	14 34.45	+12 9.1	0.790	1.084	63.2	21.5	73 E	43*	49*
152828 1999 VT_{25}									
7 25	13 42.67	+ 9 27.6	0.256	0.998	86.6	21.2	79 E	41*	54*
7 27	14 5.35	+ 7 33.7	0.260	1.017	82.4	21.1	83 E	42*	56*
7 29	14 26.94	+ 5 40.3	0.266	1.035	78.3	21.0	87 E	42*	58
7 31	14 47.25	+ 3 50.2	0.275	1.053	74.5	21.0	90 E	42*	60
8 2	15 6.19	+ 2 5.4	0.286	1.071	71.0	21.0	94 E	42*	62
8 4	15 23.75	+ 0 27.3	0.298	1.089	67.8	21.0	96 E	42*	64
8 9	16 1.90	− 3 4.8	0.336	1.133	61.1	21.2	102 E	40*	67
8 14	16 33.04	− 5 52.0	0.381	1.175	56.1	21.4	106 E	38*	70
8 19	16 58.77	− 8 2.0	0.431	1.215	52.5	21.6	108 E	37*	72
8 24	17 20.47	− 9 43.2	0.486	1.254	49.8	21.9	109 E	35*	74
497245 2005 FH									
7 25	21 7.26	− 6 1.4	2.640	3.619	5.1	22.7	162 W	39	70
8 4	20 58.11	− 7 20.5	2.571	3.574	2.8	22.5	170 W	38	71
8 14	20 48.48	− 8 48.9	2.533	3.529	3.6	22.5	167 E	36	73
8 24	20 39.11	−10 21.7	2.527	3.482	6.4	22.6	157 E	35	74
9 3	20 30.71	−11 54.1	2.551	3.434	9.5	22.7	146 E	33	76

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
221787 2007 VZ_{30}									
7 25	21 13.04	−19 36.9	0.794	1.797	7.4	22.6	167 W	25	84
7 30	21 5.99	−20 1.4	0.776	1.788	4.0	22.4	173 W	25	84
8 4	20 58.39	−20 25.2	0.764	1.778	1.8	22.2	177 W	25	84
8 9	20 50.55	−20 46.9	0.758	1.768	4.3	22.3	172 E	24	85
8 14	20 42.80	−21 5.2	0.757	1.758	8.0	22.5	166 E	24	85
8 19	20 35.49	−21 19.3	0.762	1.747	11.6	22.6	160 E	24	85
8 24	20 28.89	−21 28.8	0.772	1.736	15.1	22.8	153 E	24	85
411280 2010 SL_{13}									
7 25	21 15.17	−11 18.3	1.617	2.607	6.3	22.9	164 W	34	75
8 4	21 3.91	−12 8.1	1.568	2.580	2.2	22.6	174 W	33	76
8 14	20 51.91	−13 3.8	1.547	2.550	4.1	22.7	170 E	32	77
8 24	20 40.48	−13 59.5	1.555	2.520	8.8	22.9	158 E	31	78
9 3	20 30.77	−14 50.3	1.588	2.487	13.2	23.1	146 E	30	79
436329 2010 GX_{62}									
7 25	21 16.91	+11 43.2	3.193	4.069	8.2	26.2	145 W	57	52
8 4	21 8.80	+11 11.6	3.193	4.112	6.8	26.2	151 W	56	53
8 14	21 0.68	+10 25.1	3.220	4.153	6.2	26.2	154 E	55	54
8 24	20 53.11	+ 9 26.6	3.277	4.194	6.6	26.3	152 E	54	55
9 3	20 46.54	+ 8 20.1	3.361	4.233	7.7	26.4	146 E	53	56
516641 2008 GB_{110}									
7 25	21 17.40	+37 50.0	1.665	2.352	21.8	23.7	121 W	83	26
7 30	21 11.58	+37 41.1	1.647	2.361	21.1	23.7	123 W	83	26
8 4	21 5.50	+37 19.4	1.632	2.368	20.5	23.7	125 W	82	27
8 9	20 59.36	+36 44.8	1.621	2.376	19.9	23.6	127 E	82	27
8 14	20 53.34	+35 57.2	1.614	2.382	19.4	23.6	129 E	81	28
8 19	20 47.62	+34 57.6	1.612	2.389	19.0	23.6	130 E	80	29
8 24	20 42.36	+33 46.8	1.614	2.395	18.8	23.6	130 E	79	30
504680 2009 EO_{2}									
7 25	21 20.62	− 0 28.5	1.545	2.504	9.8	23.4	155 W	45	64
8 4	21 7.55	− 0 45.9	1.502	2.491	6.8	23.2	163 W	44	65
8 14	20 53.76	− 1 21.6	1.487	2.475	6.7	23.1	164 E	44	65
8 24	20 40.66	− 2 10.9	1.500	2.458	9.7	23.3	156 E	43	66
9 3	20 29.50	− 3 7.7	1.540	2.438	13.6	23.5	145 E	42	67
523654 2011 SR_{5}									
7 25	21 20.95	+25 16.4	1.144	1.977	22.3	23.5	132 W	70	39
7 30	21 10.90	+24 53.6	1.108	1.967	21.1	23.4	136 W	70	39
8 4	21 0.10	+24 13.2	1.077	1.956	20.1	23.3	138 W	69	40
8 9	20 48.83	+23 14.0	1.052	1.943	19.5	23.2	140 E	68	41
8 14	20 37.45	+21 56.3	1.033	1.929	19.3	23.2	141 E	67	42
8 19	20 26.32	+20 21.1	1.021	1.914	19.6	23.1	141 E	65	44
8 24	20 15.76	+18 31.0	1.015	1.897	20.5	23.1	139 E	64	45
469896 2005 WC_{1}									
7 25	21 27.33	+16 56.6	1.026	1.915	20.2	23.2	139 W	62	47
7 30	21 17.92	+17 10.3	1.023	1.932	18.5	23.1	143 W	62	47
8 4	21 8.24	+17 10.4	1.025	1.947	17.2	23.1	145 W	62	47
8 9	20 58.59	+16 57.0	1.033	1.962	16.4	23.1	147 E	62	47
8 14	20 49.27	+16 31.3	1.047	1.976	16.2	23.2	147 E	62	47
8 19	20 40.57	+15 54.7	1.067	1.989	16.5	23.2	146 E	61	48
8 24	20 32.70	+15 9.3	1.092	2.001	17.2	23.3	144 E	60	49
5335 Damocles									
7 25	21 30.37	+10 33.7	17.330	18.169	1.8	26.0	145 W	56	53
8 4	21 28.31	+10 30.9	17.252	18.146	1.6	26.0	151 W	56	53
8 14	21 26.18	+10 25.3	17.200	18.124	1.4	26.0	155 E	55	54
8 24	21 24.05	+10 17.2	17.177	18.102	1.3	25.9	156 E	55	54
9 3	21 22.01	+10 6.9	17.180	18.079	1.5	26.0	152 E	55	54
437313 2013 EK_{73}									
7 25	21 31.03	−14 19.9	12.481	13.448	1.4	24.5	162 W	31	78
8 4	21 28.76	−14 32.6	12.470	13.475	0.6	24.4	172 W	30	79
8 14	21 26.40	−14 45.5	12.489	13.501	0.1	24.4	178 E	30	79
8 24	21 24.07	−14 58.3	12.538	13.528	0.9	24.5	168 E	30	79
9 3	21 21.87	−15 10.3	12.616	13.555	1.6	24.6	158 E	30	79
541995 2012 HE_{8}									
7 25	21 41.86	−12 7.3	1.664	2.635	8.2	22.8	158 W	33	76
8 4	21 31.48	−13 2.8	1.628	2.634	3.7	22.5	170 W	32	77
8 14	21 20.15	−14 2.7	1.620	2.632	1.3	22.3	177 E	31	78
8 24	21 9.04	−15 0.6	1.640	2.628	5.9	22.6	164 E	30	79
9 3	20 59.30	−15 51.2	1.688	2.623	10.3	22.9	152 E	29	80
138727 2000 SU_{180}									
7 25	21 48.83	−17 22.4	1.795	2.764	7.9	23.0	158 W	28	81
8 4	21 36.89	−17 58.7	1.711	2.716	3.6	22.7	170 W	27	82
8 14	21 23.18	−18 34.4	1.656	2.666	1.9	22.5	175 E	26	83
8 24	21 8.90	−19 3.7	1.631	2.615	6.5	22.6	163 E	26	83
9 3	20 55.43	−19 22.3	1.635	2.561	11.2	22.8	150 E	26	83

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
540599 2017 UY_{6}									
7 25	21 48.99	+12 2.7	2.467	3.319	11.1	22.0	141 W	57	52
8 4	21 42.05	+11 16.7	2.376	3.289	9.1	21.8	149 W	56	53
8 14	21 34.14	+10 7.1	2.310	3.258	7.4	21.6	155 W	55	54
8 24	21 25.94	+ 8 35.9	2.271	3.227	7.0	21.5	157 E	54	55
9 3	21 18.18	+ 6 47.9	2.260	3.195	8.1	21.6	153 E	52	57
9 13	21 11.58	+ 4 49.6	2.278	3.161	10.3	21.6	146 E	50	59
174806 2003 XL									
7 25	21 52.43	−12 26.3	2.554	3.506	6.8	22.5	156 W	33	76
8 4	21 43.20	−12 56.3	2.540	3.538	3.5	22.3	168 W	32	77
8 14	21 33.42	−13 28.0	2.556	3.569	0.3	22.1	179 E	32	77
8 24	21 23.85	−13 58.2	2.603	3.599	3.3	22.4	168 E	31	78
9 3	21 15.20	−14 24.2	2.680	3.627	6.4	22.6	156 E	31	78
405762 2005 YO_{180}									
7 25	21 53.09	−23 41.7	0.881	1.860	12.1	22.1	157 W	21	88
7 30	21 45.65	−24 27.0	0.844	1.839	9.3	21.9	163 W	21	88
8 4	21 36.96	−25 12.3	0.813	1.817	6.9	21.7	168 W	20	89
8 9	21 27.20	−25 55.3	0.788	1.794	5.8	21.5	170 W	19	90
8 14	21 16.67	−26 33.4	0.769	1.771	7.3	21.5	167 E	18	89
8 19	21 5.74	−27 4.5	0.756	1.747	10.3	21.6	162 E	18	89
8 24	20 54.84	−27 26.9	0.749	1.722	13.9	21.6	156 E	18	89
8 29	20 44.39	−27 39.7	0.747	1.696	17.7	21.7	149 E	17	88
9 3	20 34.79	−27 42.9	0.751	1.669	21.5	21.8	143 E	17	88
9 8	20 26.38	−27 37.0	0.759	1.642	25.1	21.9	136 E	17	88
525511 2005 GY_{119}									
7 25	21 55.43	+16 54.7	2.055	2.875	14.2	22.5	136 W	62	47
8 4	21 47.93	+16 51.9	1.973	2.854	12.2	22.3	144 W	62	47
8 14	21 39.16	+16 20.3	1.913	2.831	10.6	22.1	149 W	61	48
8 24	21 29.95	+15 20.0	1.878	2.808	9.9	22.1	152 E	60	49
9 3	21 21.22	+13 54.3	1.867	2.784	10.6	22.0	150 E	59	50
9 13	21 13.88	+12 10.1	1.881	2.759	12.4	22.1	144 E	57	52
37384 2001 WU_{1}									
7 25	21 56.66	−38 18.2	3.947	4.864	5.7	21.8	152 W	7	78
7 30	21 52.98	−38 44.2	3.937	4.870	5.3	21.7	154 W	6	77
8 4	21 49.08	−39 7.9	3.935	4.875	5.0	21.7	155 W	6	77
8 9	21 45.02	−39 28.9	3.939	4.880	4.9	21.7	156 W	6	77
8 14	21 40.86	−39 46.7	3.951	4.885	5.1	21.8	155 W	5	76
8 19	21 36.70	−40 1.3	3.969	4.890	5.5	21.8	153 E	5	76
8 24	21 32.59	−40 12.3	3.995	4.895	6.0	21.8	150 E	5	76
8 29	21 28.62	−40 19.7	4.027	4.899	6.6	21.9	146 E	5	76
9 3	21 24.83	−40 23.6	4.066	4.904	7.2	21.9	142 E	5	76
9 8	21 21.30	−40 23.9	4.110	4.908	7.9	22.0	138 E	5	76
9 13	21 18.09	−40 20.9	4.161	4.912	8.5	22.0	134 E	5	76
380455 2003 UL_{3}									
7 25	22 0.86	− 6 54.3	1.931	2.867	9.7	22.2	152 W	38	71
7 30	21 54.74	− 7 36.9	1.933	2.900	7.5	22.2	158 W	37	72
8 4	21 48.38	− 8 21.4	1.943	2.933	5.3	22.1	164 W	37	72
8 9	21 41.90	− 9 6.8	1.960	2.965	3.2	22.0	171 W	36	73
8 14	21 35.44	− 9 52.3	1.985	2.996	1.5	22.0	175 W	35	74
8 19	21 29.14	−10 36.9	2.019	3.027	2.1	22.1	174 E	34	75
8 24	21 23.13	−11 19.9	2.061	3.057	3.9	22.3	168 E	34	75
8 29	21 17.50	−12 0.6	2.110	3.087	5.8	22.4	162 E	33	76
9 3	21 12.35	−12 38.6	2.167	3.116	7.6	22.6	156 E	32	77
297235 1981 EN_{11}									
7 25	22 6.90	−14 28.3	2.040	2.983	8.8	21.7	153 W	31	78
8 4	21 58.29	−15 3.8	1.972	2.963	5.1	21.5	165 W	30	79
8 14	21 48.25	−15 42.2	1.931	2.943	1.3	21.1	176 W	29	80
8 24	21 37.69	−16 18.8	1.919	2.921	3.3	21.3	170 E	29	80
9 3	21 27.58	−16 49.2	1.936	2.898	7.4	21.5	158 E	28	81
9 13	21 18.88	−17 10.2	1.980	2.874	11.1	21.7	147 E	28	81
508912 2004 BB									
7 25	22 13.93	−17 18.8	1.227	2.178	12.6	22.4	152 W	28	81
7 30	22 8.00	−18 53.7	1.230	2.206	9.8	22.3	158 W	26	83
8 4	22 1.55	−20 27.1	1.240	2.234	7.1	22.2	164 W	25	84
8 9	21 54.76	−21 56.9	1.257	2.261	5.0	22.2	169 W	23	86
8 14	21 47.84	−23 21.1	1.282	2.287	4.2	22.2	171 W	22	87
8 19	21 41.02	−24 37.8	1.314	2.313	5.3	22.3	168 E	20	89
8 24	21 34.50	−25 46.0	1.353	2.338	7.2	22.5	163 E	19	90
8 29	21 28.45	−26 45.0	1.398	2.363	9.4	22.7	157 E	18	89
9 3	21 23.03	−27 34.8	1.451	2.388	11.5	22.9	152 E	17	88
163250 2002 GH_{1}									
7 25	22 16.29	+ 7 56.9	3.146	3.975	9.5	21.6	140 W	53	56
8 4	22 9.74	+ 7 6.6	3.085	3.992	7.4	21.5	150 W	52	57
8 14	22 2.37	+ 6 1.4	3.050	4.009	5.3	21.4	158 W	51	58
8 24	21 54.69	+ 4 43.7	3.045	4.025	4.1	21.3	164 E	50	59

163250 2002 GH_1 *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 3	21 47.23	+ 3 17.5	3.070	4.039	4.6	21.4	161 E	48	61
9 13	21 40.53	+ 1 47.4	3.127	4.053	6.3	21.5	154 E	47	62

137044 1998 UC_{50}

7 25	22 16.35	−12 8.2	2.324	3.246	8.9	21.6	150 W	33	76
8 4	22 8.20	−12 46.9	2.264	3.244	5.5	21.4	162 W	32	77
8 14	21 58.78	−13 29.9	2.232	3.241	1.9	21.1	174 W	32	77
8 24	21 48.87	−14 12.9	2.230	3.237	1.9	21.1	174 E	31	78
9 3	21 39.29	−14 51.8	2.258	3.232	5.6	21.4	162 E	30	79
9 13	21 30.86	−15 23.2	2.314	3.225	9.0	21.6	150 E	30	79

450138 1998 BO_{26}

7 25	22 16.44	−11 10.2	2.238	3.159	9.2	22.1	150 W	34	75
8 4	22 8.27	−11 46.5	2.197	3.176	5.8	21.9	162 W	33	76
8 14	21 58.96	−12 27.4	2.184	3.193	2.0	21.7	174 W	33	76
8 24	21 49.32	−13 8.5	2.201	3.208	1.8	21.7	174 E	32	77
9 3	21 40.17	−13 45.7	2.247	3.223	5.5	21.9	162 E	31	78
9 13	21 32.27	−14 16.0	2.321	3.236	8.8	22.2	151 E	31	78

494697 2004 SW_{55}

7 25	22 19.17	−32 24.7	0.538	1.505	19.8	21.2	150 W	13	84
7 30	22 16.58	−34 28.4	0.505	1.483	18.3	21.0	153 W	11	82
8 4	22 12.34	−36 39.7	0.477	1.459	17.5	20.8	154 W	8	79
8 9	22 6.33	−38 54.6	0.453	1.436	17.7	20.7	154 W	6	77
8 14	21 58.57	−41 7.8	0.433	1.412	19.2	20.6	153 W	4	75
8 19	21 49.23	−43 13.4	0.416	1.387	21.6	20.6	150 E	2	73
8 24	21 38.61	−45 5.7	0.403	1.362	24.9	20.6	145 E	—	71
8 29	21 27.18	−46 39.9	0.394	1.337	28.7	20.6	140 E	—	69
9 3	21 15.57	−47 52.6	0.387	1.312	32.8	20.6	135 E	—	68
9 8	21 4.51	−48 42.3	0.382	1.287	36.9	20.7	130 E	—	67
9 13	20 54.70	−49 9.4	0.379	1.261	40.9	20.7	125 E	—	67
9 18	20 46.69	−49 16.0	0.376	1.236	44.9	20.8	120 E	—	67
9 23	20 40.77	−49 4.9	0.374	1.210	48.7	20.8	115 E	—	67
9 28	20 37.07	−48 38.7	0.372	1.185	52.3	20.8	111 E	—	67
10 3	20 35.60	−47 59.7	0.369	1.161	55.8	20.9	106 E	—	68
10 8	20 36.26	−47 9.3	0.365	1.137	59.1	20.9	103 E	—	69
10 13	20 38.91	−46 8.9	0.361	1.113	62.3	20.9	99 E	—	70
10 18	20 43.28	−44 59.1	0.354	1.090	65.4	20.9	96 E	—	71
10 23	20 49.14	−43 39.9	0.346	1.069	68.4	20.9	93 E	1	72
10 28	20 56.24	−42 10.4	0.337	1.048	71.4	20.9	90 E	3	74*
11 2	21 4.39	−40 29.6	0.325	1.029	74.4	20.9	87 E	5	75*
11 7	21 13.45	−38 35.9	0.312	1.012	77.3	20.9	85 E	6	75*
11 12	21 23.24	−36 27.2	0.298	0.996	80.2	20.9	83 E	9	75*
11 17	21 33.60	−34 0.9	0.282	0.983	83.0	20.8	81 E	11	74*
11 22	21 44.39	−31 13.4	0.265	0.971	85.8	20.8	79 E	14	73*
11 27	21 55.54	−28 0.0	0.247	0.962	88.4	20.7	77 E	17	70*
12 2	22 7.07	−24 14.3	0.228	0.956	90.8	20.6	76 E	21	67*
12 7	22 19.04	−19 48.5	0.210	0.952	92.9	20.5	75 E	25	64*
12 12	22 31.60	−14 32.7	0.192	0.951	94.4	20.4	74 E	30	59*
12 14	22 36.82	−12 9.9	0.185	0.951	94.9	20.3	74 E	33	57*
12 16	22 42.18	− 9 36.5	0.178	0.952	95.1	20.2	74 E	35	55*
12 18	22 47.71	− 6 51.8	0.171	0.953	95.3	20.2	75 E	38	53*
12 20	22 53.44	− 3 55.1	0.165	0.955	95.2	20.1	75 E	41	50*
12 22	22 59.40	− 0 45.9	0.159	0.957	94.9	20.0	76 E	44	48*
12 27	23 15.67	+ 8 3.1	0.147	0.964	93.3	19.8	78 E	53*	41*
1 1	23 34.72	+18 5.8	0.138	0.974	90.0	19.5	82 E	63*	33*
1 6	23 58.02	+28 55.5	0.134	0.985	85.2	19.3	87 E	74*	25*
1 11	0 27.62	+39 42.0	0.135	0.999	79.3	19.1	93 E	85*	17*
1 13	0 41.82	+43 45.9	0.137	1.006	76.8	19.1	95 E	89*	14*
1 15	0 57.66	+47 35.4	0.140	1.012	74.3	19.0	98 E	87	12*
1 17	1 15.33	+51 7.1	0.143	1.019	71.8	19.0	100 E	84	9*
1 19	1 34.99	+54 18.0	0.147	1.026	69.4	19.0	103 E	81	7*
1 21	1 56.73	+57 5.6	0.152	1.033	67.0	19.0	105 E	78	5*

318450 2005 EJ

7 25	22 23.87	−41 48.7	0.729	1.667	20.3	21.3	145 W	3	74
7 30	22 16.52	−42 51.0	0.717	1.666	18.9	21.3	148 W	2	73
8 4	22 7.72	−43 43.6	0.709	1.665	18.0	21.2	150 W	1	72
8 9	21 57.80	−44 23.0	0.705	1.663	17.7	21.2	150 W	1	72
8 14	21 47.20	−44 46.4	0.706	1.661	18.0	21.2	150 W	—	71
8 19	21 36.49	−44 52.3	0.712	1.659	19.0	21.2	148 E	—	71
8 24	21 26.21	−44 40.4	0.722	1.656	20.4	21.3	145 E	—	71
8 29	21 16.84	−44 11.9	0.736	1.652	22.2	21.4	142 E	1	72
9 3	21 8.75	−43 28.4	0.753	1.649	24.1	21.5	138 E	2	73
9 8	21 2.20	−42 32.5	0.775	1.644	26.0	21.6	134 E	2	73
9 13	20 57.33	−41 26.4	0.799	1.640	27.9	21.7	130 E	4	75

376246 2011 ES_{77}

7 25	22 25.33	−10 9.2	2.614	3.514	8.9	22.2	148 W	35	74
8 4	22 19.14	−11 8.1	2.539	3.505	6.0	22.0	159 W	34	75
8 14	22 11.70	−12 14.1	2.491	3.495	2.7	21.8	171 W	33	76
8 24	22 3.58	−13 22.6	2.473	3.483	0.8	21.6	177 E	32	77
9 3	21 55.45	−14 28.8	2.485	3.471	4.2	21.9	165 E	31	78
9 13	21 48.02	−15 28.3	2.527	3.458	7.4	22.0	154 E	30	79

306431 1998 SR_{49}

7 25	22 31.94	−55 58.7	1.844	2.668	15.4	21.5	136 W	—	60
7 30	22 25.04	−56 48.1	1.808	2.641	15.3	21.4	137 W	—	59
8 4	22 16.88	−57 30.6	1.778	2.614	15.3	21.4	137 W	—	58
8 9	22 7.60	−58 4.3	1.753	2.586	15.6	21.3	137 W	—	58
8 14	21 57.45	−58 27.3	1.733	2.558	16.0	21.3	136 W	—	58
8 19	21 46.77	−58 38.2	1.718	2.530	16.7	21.3	134 E	—	57
8 24	21 35.94	−58 36.1	1.708	2.501	17.4	21.3	132 E	—	57
8 29	21 25.36	−58 20.8	1.703	2.472	18.3	21.3	130 E	—	58
9 3	21 15.42	−57 52.5	1.702	2.443	19.3	21.3	127 E	—	58
9 8	21 6.46	−57 12.0	1.706	2.413	20.4	21.3	124 E	—	59
9 13	20 58.72	−56 20.6	1.713	2.383	21.4	21.3	120 E	—	60
9 18	20 52.37	−55 19.8	1.724	2.353	22.4	21.3	117 E	—	61
9 23	20 47.47	−54 11.0	1.738	2.322	23.4	21.3	113 E	—	62
9 28	20 44.00	−52 55.7	1.754	2.291	24.4	21.4	109 E	—	63
10 3	20 41.92	−51 35.1	1.773	2.260	25.2	21.4	106 E	—	64
10 8	20 41.15	−50 10.3	1.793	2.229	26.0	21.4	102 E	—	66
10 13	20 41.60	−48 42.3	1.815	2.197	26.7	21.4	99 E	—	67
10 18	20 43.14	−47 11.6	1.837	2.164	27.3	21.4	95 E	—	69
10 23	20 45.67	−45 39.0	1.860	2.132	27.8	21.4	91 E	—	70
10 28	20 49.08	−44 4.5	1.884	2.099	28.2	21.4	88 E	1	72*
11 2	20 53.28	−42 28.5	1.907	2.066	28.6	21.4	85 E	3	72*
11 7	20 58.18	−40 51.1	1.931	2.033	28.8	21.4	81 E	4	72*
11 12	21 3.70	−39 12.3	1.953	2.000	29.0	21.4	78 E	6	70*
11 17	21 9.78	−37 32.1	1.975	1.966	29.1	21.4	75 E	7	68*
11 22	21 16.34	−35 50.5	1.996	1.932	29.1	21.4	72 E	9	66*
11 27	21 23.33	−34 7.2	2.016	1.898	29.0	21.4	69 E	11	63*
12 2	21 30.72	−32 22.2	2.034	1.864	28.9	21.4	66 E	13*	60*
12 7	21 38.45	−30 35.4	2.051	1.830	28.7	21.3	63 E	14*	56*
12 12	21 46.50	−28 46.5	2.066	1.796	28.5	21.3	60 E	16*	53*
12 17	21 54.83	−26 55.5	2.080	1.761	28.2	21.3	58 E	17*	49*
12 22	22 3.42	−25 2.2	2.092	1.727	27.8	21.2	55 E	19*	46*
12 27	22 12.24	−23 6.4	2.102	1.693	27.4	21.2	52 E	20*	43*
1 1	22 21.29	−21 8.1	2.111	1.659	27.0	21.1	50 E	21*	39*
1 6	22 30.56	−19 7.1	2.117	1.625	26.5	21.1	48 E	22*	36*
1 11	22 40.04	−17 3.3	2.122	1.592	26.0	21.0	45 E	23*	33*
1 16	22 49.73	−14 56.6	2.125	1.558	25.5	21.0	43 E	23*	30*
1 21	22 59.62	−12 47.1	2.126	1.526	25.0	20.9	41 E	24*	27*

503274 2015 QE_9

7 25	22 34.10	−10 2.4	0.914	1.843	18.2	21.5	146 W	35	74
8 4	22 27.99	−12 21.0	0.841	1.820	12.5	21.1	157 W	33	76
8 14	22 18.09	−15 11.3	0.789	1.795	6.0	20.6	169 W	30	79
8 24	22 5.47	−18 16.5	0.760	1.768	4.1	20.4	173 E	27	82
8 29	21 58.69	−19 47.5	0.755	1.754	7.3	20.5	167 E	25	84
9 3	21 51.99	−21 13.5	0.755	1.740	10.9	20.7	161 E	24	85
9 8	21 45.66	−22 32.1	0.761	1.725	14.6	20.8	154 E	22	87
9 13	21 40.00	−23 41.2	0.772	1.711	18.1	20.9	148 E	21	88
9 18	21 35.27	−24 39.8	0.787	1.695	21.4	21.1	142 E	20	89
9 23	21 31.62	−25 27.5	0.805	1.680	24.4	21.2	136 E	20	89
9 28	21 29.18	−26 4.4	0.827	1.664	27.2	21.3	131 E	19	90
10 3	21 28.01	−26 31.0	0.852	1.648	29.7	21.4	125 E	18	89

525338 2005 AU_{28}

7 25	22 34.90	−29 1.2	1.840	2.751	11.5	21.8	147 W	16	87
7 30	22 30.22	−29 19.3	1.798	2.737	10.0	21.7	152 W	16	87
8 4	22 24.84	−29 35.7	1.762	2.722	8.6	21.6	156 W	15	86
8 9	22 18.86	−29 49.5	1.733	2.708	7.4	21.5	160 W	15	86
8 14	22 12.39	−29 59.5	1.711	2.693	6.6	21.4	162 W	15	86
8 19	22 5.59	−30 4.8	1.695	2.678	6.5	21.4	163 W	15	86
8 24	21 58.64	−30 4.7	1.687	2.663	7.1	21.4	161 E	15	86
8 29	21 51.71	−29 58.8	1.685	2.647	8.3	21.4	158 E	15	86
9 3	21 44.98	−29 46.8	1.690	2.631	9.9	21.5	153 E	15	86
9 8	21 38.63	−29 28.7	1.702	2.615	11.6	21.6	149 E	16	87
9 13	21 32.82	−29 4.9	1.720	2.599	13.3	21.6	144 E	16	87
9 18	21 27.68	−28 35.8	1.743	2.583	15.0	21.7	138 E	16	87

523613 2006 SJ_{198}

7 25	22 35.31	− 5 37.4	1.913	2.796	12.5	22.1	144 W	39	70
8 4	22 27.82	− 6 9.9	1.816	2.768	8.9	21.8	155 W	39	70
8 14	22 18.22	− 6 55.9	1.743	2.739	4.8	21.5	167 W	38	71
8 24	22 7.24	− 7 51.5	1.698	2.708	1.3	21.2	177 E	37	72
9 3	21 55.87	− 8 51.2	1.682	2.675	4.8	21.4	167 E	36	73
9 13	21 45.26	− 9 49.0	1.695	2.641	9.3	21.6	155 E	35	74

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
500922 2013 PE_{26}									
	h m	° ′			°	m	°	°	°
7 25	22 36.13	+11 14.2	1.659	2.473	17.2	21.8	134 W	56	53
7 30	22 28.48	+11 54.4	1.623	2.479	15.6	21.7	139 W	57	52
8 4	22 20.05	+12 28.3	1.594	2.485	14.0	21.6	144 W	57	52
8 9	22 10.96	+12 55.1	1.571	2.490	12.5	21.5	148 W	58	51
8 14	22 1.39	+13 14.3	1.556	2.494	11.2	21.4	152 W	58	51
8 19	21 51.55	+13 25.4	1.549	2.497	10.3	21.4	154 E	58	51
8 24	21 41.67	+13 28.5	1.550	2.500	10.1	21.4	154 E	58	51
8 29	21 31.98	+13 24.1	1.559	2.502	10.5	21.4	153 E	58	51
9 3	21 22.70	+13 12.7	1.576	2.503	11.5	21.5	150 E	58	51
9 8	21 14.04	+12 55.5	1.600	2.503	12.8	21.6	147 E	58	51
9 13	21 6.16	+12 33.7	1.632	2.503	14.3	21.7	142 E	58	51
154275 2002 SR_{41}									
7 25	22 42.72	+17 36.2	0.770	1.610	29.7	21.9	128 W	63	46
7 30	22 34.95	+18 12.9	0.739	1.613	27.3	21.7	133 W	63	46
8 4	22 25.64	+18 36.5	0.712	1.615	24.9	21.6	138 W	64	45
8 9	22 14.92	+18 44.5	0.689	1.615	22.6	21.4	142 W	64	45
8 14	22 3.05	+18 34.8	0.670	1.614	20.4	21.3	146 W	64	45
8 19	21 50.42	+18 6.1	0.657	1.611	18.9	21.2	149 E	63	46
8 24	21 37.49	+17 18.7	0.649	1.607	18.2	21.1	150 E	62	47
8 29	21 24.77	+16 13.7	0.647	1.602	18.5	21.1	150 E	61	48
9 3	21 12.76	+14 54.0	0.650	1.595	19.9	21.2	147 E	60	49
9 8	21 1.88	+13 23.2	0.658	1.587	22.1	21.3	144 E	58	51
9 13	20 52.47	+11 45.6	0.672	1.577	24.6	21.4	139 E	57	52
9 18	20 44.71	+10 5.3	0.689	1.566	27.3	21.5	134 E	55	54
164120 2003 YK									
7 25	23 2.63	−15 40.1	1.002	1.899	19.9	21.4	140 W	29	80
7 30	22 56.12	−16 1.0	0.985	1.916	16.9	21.3	147 W	29	80
8 4	22 48.57	−16 23.7	0.973	1.933	13.7	21.2	153 W	29	80
8 9	22 40.15	−16 46.9	0.966	1.949	10.4	21.0	160 W	28	81
8 14	22 31.10	−17 8.9	0.966	1.964	7.2	20.9	166 W	28	81
8 19	22 21.72	−17 28.3	0.972	1.979	4.3	20.8	172 W	28	81
8 24	22 12.30	−17 43.9	0.985	1.993	3.3	20.8	173 W	27	82
8 29	22 3.16	−17 55.1	1.005	2.006	5.3	21.0	169 E	27	82
9 3	21 54.58	−18 1.2	1.031	2.018	8.2	21.2	163 E	27	82
9 8	21 46.79	−18 2.2	1.064	2.030	11.1	21.4	157 E	27	82
9 13	21 39.98	−17 58.3	1.102	2.042	13.8	21.6	151 E	27	82
9 18	21 34.27	−17 49.8	1.147	2.052	16.3	21.7	145 E	27	82
9 23	21 29.70	−17 37.3	1.195	2.062	18.6	21.9	139 E	27	82
415780 2000 WO_{10}									
7 25	23 10.85	−27 51.5	1.504	2.371	16.1	21.3	140 W	17	88
7 30	23 9.72	−28 54.3	1.452	2.348	14.8	21.2	144 W	16	87
8 4	23 7.74	−30 0.3	1.404	2.324	13.6	21.1	147 W	15	86
8 9	23 4.91	−31 8.2	1.361	2.300	12.4	20.9	151 W	14	85
8 14	23 1.24	−32 16.2	1.325	2.276	11.5	20.8	153 W	13	84
8 19	22 56.78	−33 22.6	1.294	2.251	11.0	20.7	155 W	12	83
8 24	22 51.63	−34 25.3	1.269	2.227	11.1	20.6	155 W	11	82
8 29	22 45.92	−35 22.4	1.250	2.202	11.7	20.6	154 W	10	81
9 3	22 39.82	−36 11.9	1.237	2.177	12.8	20.6	151 E	9	80
9 8	22 33.54	−36 52.4	1.229	2.151	14.3	20.6	148 E	8	79
9 13	22 27.33	−37 22.5	1.227	2.126	16.1	20.7	144 E	8	79
9 18	22 21.44	−37 41.7	1.230	2.100	18.0	20.7	140 E	7	78
9 23	22 16.09	−37 49.9	1.237	2.075	19.9	20.7	135 E	7	78
9 28	22 11.47	−37 47.3	1.249	2.049	21.7	20.8	131 E	7	78
10 3	22 7.73	−37 34.6	1.264	2.023	23.5	20.8	126 E	7	78
10 8	22 4.98	−37 12.4	1.281	1.997	25.2	20.9	122 E	8	79
10 13	22 3.31	−36 41.6	1.301	1.971	26.7	20.9	117 E	8	79
10 18	22 2.72	−36 3.3	1.323	1.944	28.1	21.0	113 E	9	80
10 23	22 3.21	−35 18.2	1.346	1.918	29.4	21.0	109 E	10	81
10 28	22 4.73	−34 27.1	1.371	1.892	30.5	21.1	105 E	11	82
11 2	22 7.24	−33 30.4	1.396	1.866	31.4	21.1	101 E	11	82
11 7	22 10.68	−32 28.8	1.421	1.839	32.3	21.2	98 E	13	84
11 12	22 14.99	−31 22.5	1.446	1.813	33.0	21.2	94 E	14	85
11 17	22 20.09	−30 12.0	1.471	1.787	33.6	21.2	91 E	15	85*
11 22	22 25.92	−28 57.4	1.495	1.762	34.1	21.2	88 E	16	82*
11 27	22 32.41	−27 38.8	1.519	1.736	34.5	21.2	85 E	17	78*
12 2	22 39.50	−26 16.4	1.541	1.711	34.8	21.2	82 E	19	75*
12 7	22 47.16	−24 50.3	1.563	1.686	35.1	21.2	79 E	20	71*
12 12	22 55.32	−23 20.4	1.584	1.661	35.2	21.2	77 E	22	67*
12 17	23 3.94	−21 47.0	1.604	1.637	35.3	21.2	74 E	23	64*
12 22	23 12.99	−20 10.1	1.623	1.613	35.4	21.2	72 E	25	60*
12 27	23 22.43	−18 29.7	1.641	1.590	35.4	21.2	69 E	27	57*
1 1	23 32.24	−16 46.0	1.657	1.567	35.4	21.2	67 E	28*	54*
1 6	23 42.40	−14 59.0	1.673	1.545	35.3	21.2	65 E	30*	51*
1 11	23 52.90	−13 8.9	1.688	1.524	35.2	21.2	63 E	31*	48*
1 16	0 3.71	−11 16.0	1.702	1.503	35.1	21.2	61 E	32*	45*
1 21	0 14.82	− 9 20.4	1.716	1.484	34.9	21.2	60 E	34*	43*

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
492815 2014 QS_{269}									
	h m	° ′			°	m	°	°	°
7 25	23 19.41	− 1 30.9	2.483	3.250	13.5	21.3	132 W	43	66
8 4	23 17.94	− 2 26.1	2.358	3.220	11.2	21.1	142 W	43	66
8 14	23 14.74	− 3 38.1	2.255	3.190	8.3	20.9	153 W	41	68
8 24	23 10.06	− 5 4.5	2.175	3.160	5.0	20.6	164 W	40	69
9 3	23 4.30	− 6 41.1	2.124	3.131	1.4	20.3	176 W	38	71
9 8	23 1.21	− 7 31.3	2.109	3.116	0.7	20.2	178 E	37	72
9 13	22 58.08	− 8 21.6	2.101	3.101	2.5	20.3	172 E	37	72
9 18	22 55.02	− 9 11.1	2.101	3.087	4.4	20.4	166 E	36	73
9 23	22 52.11	− 9 58.9	2.108	3.072	6.3	20.5	160 E	35	74
9 28	22 49.44	−10 44.3	2.122	3.058	8.1	20.6	155 E	34	75
10 3	22 47.09	−11 26.6	2.142	3.043	9.8	20.7	149 E	34	75
10 8	22 45.13	−12 5.2	2.168	3.029	11.4	20.8	143 E	33	76
10 13	22 43.62	−12 39.7	2.200	3.015	12.8	20.9	138 E	32	77
10 18	22 42.60	−13 9.7	2.236	3.000	14.2	20.9	132 E	32	77
10 23	22 42.10	−13 35.2	2.277	2.986	15.4	21.0	127 E	31	78
10 28	22 42.14	−13 56.0	2.322	2.972	16.4	21.1	122 E	31	78
11 2	22 42.73	−14 12.2	2.370	2.958	17.4	21.1	117 E	31	78
11 7	22 43.86	−14 23.9	2.421	2.945	18.1	21.2	112 E	31	78
11 12	22 45.54	−14 31.2	2.474	2.931	18.8	21.3	108 E	30	79
11 17	22 47.73	−14 34.2	2.529	2.917	19.3	21.3	103 E	30	79
11 22	22 50.42	−14 33.2	2.584	2.904	19.6	21.4	99 E	30	78*
11 27	22 53.59	−14 28.4	2.641	2.891	19.9	21.4	94 E	31	77*
12 2	22 57.20	−14 20.0	2.698	2.877	20.0	21.5	90 E	31	73*
12 7	23 1.24	−14 8.2	2.755	2.864	20.1	21.5	86 E	31	70*
482054 2010 AE									
7 25	23 29.64	+15 21.4	0.818	1.599	32.9	21.5	121 W	60	49
7 30	23 24.07	+16 30.5	0.804	1.623	30.4	21.4	126 W	62	47
8 4	23 17.22	+17 29.1	0.793	1.647	27.8	21.3	131 W	62	47
8 9	23 9.20	+18 15.5	0.786	1.670	25.1	21.2	136 W	63	46
8 14	23 0.21	+18 48.2	0.782	1.692	22.4	21.2	141 W	64	45
8 19	22 50.52	+19 6.2	0.783	1.713	19.8	21.1	145 W	64	45
8 24	22 40.46	+19 9.2	0.788	1.734	17.6	21.1	149 W	64	45
8 29	22 30.40	+18 57.6	0.799	1.754	15.9	21.1	152 W	64	45
9 3	22 20.69	+18 32.6	0.815	1.774	15.0	21.1	153 E	64	45
9 8	22 11.66	+17 56.3	0.836	1.793	14.9	21.2	153 E	63	46
9 13	22 3.59	+17 11.3	0.863	1.811	15.6	21.3	151 E	62	47
9 18	21 56.69	+16 20.3	0.896	1.828	16.8	21.5	148 E	61	48
9 23	21 51.05	+15 26.1	0.933	1.845	18.3	21.6	145 E	60	49
9 28	21 46.70	+14 31.0	0.975	1.861	19.9	21.8	141 E	60	49
138846 2000 VJ_{61}									
7 25	23 45.77	+22 56.9	2.573	3.121	17.4	21.4	114 W	68	41
8 4	23 40.82	+23 41.4	2.486	3.150	15.7	21.3	123 W	69	40
8 14	23 33.66	+24 5.7	2.413	3.178	13.8	21.2	132 W	69	40
8 24	23 24.67	+24 6.5	2.359	3.204	11.6	21.1	140 W	69	40
9 3	23 14.46	+23 42.1	2.328	3.228	9.5	21.0	148 W	69	40
9 13	23 3.83	+22 53.1	2.323	3.251	8.1	21.0	153 E	68	41
9 23	22 53.70	+21 43.3	2.346	3.272	8.0	21.0	153 E	67	42
10 3	22 44.87	+20 19.2	2.397	3.292	9.2	21.1	148 E	65	44
10 13	22 37.96	+18 48.4	2.475	3.310	11.0	21.3	141 E	64	45
10 23	22 33.31	+17 18.6	2.576	3.327	12.8	21.4	132 E	62	47
513171 2004 MD_6									
8 4	0 0.29	+59 9.4	0.808	1.349	48.5	22.4	95 W	76	5
8 6	0 0.48	+60 40.8	0.793	1.340	49.0	22.4	95 W	74	3
8 8	0 0.41	+62 13.5	0.779	1.330	49.5	22.3	95 W	73	2
8 10	0 0.05	+63 47.3	0.765	1.319	50.0	22.3	95 W	71	—
8 12	23 59.34	+65 22.4	0.751	1.309	50.5	22.2	95 W	70	—
8 14	23 58.22	+66 58.7	0.738	1.298	51.1	22.2	94 W	68	—
8 16	23 56.60	+68 36.2	0.724	1.287	51.7	22.2	94 W	66	—
8 18	23 54.35	+70 14.7	0.711	1.275	52.4	22.1	94 W	65	—
8 20	23 51.31	+71 54.4	0.698	1.263	53.1	22.1	93 W	63	—
8 22	23 47.24	+73 35.0	0.686	1.251	53.9	22.0	93 W	61	—
8 24	23 41.76	+75 16.5	0.673	1.238	54.7	22.0	92 W	60	—
8 25	23 38.34	+76 7.5	0.667	1.232	55.1	22.0	92 W	59	—
8 26	23 34.34	+76 58.6	0.661	1.225	55.5	22.0	92 W	58	—
8 27	23 29.63	+77 49.8	0.655	1.218	56.0	21.9	91 W	57	—
8 28	23 24.06	+78 40.9	0.649	1.212	56.5	21.9	91 W	56	—
8 29	23 17.43	+79 31.8	0.643	1.205	57.0	21.9	91 W	55	—
8 30	23 9.43	+80 22.4	0.637	1.198	57.5	21.9	90 W	55	—
8 31	22 59.71	+81 12.5	0.632	1.191	58.0	21.9	90 W	54	—
9 1	22 47.73	+82 1.8	0.626	1.184	58.5	21.9	90 W	53	—
9 2	22 32.78	+82 49.7	0.620	1.176	59.1	21.8	89 E	52	—
9 3	22 13.88	+83 35.5	0.614	1.169	59.6	21.8	89 E	51	—
9 4	21 49.69	+84 18.3	0.609	1.162	60.2	21.8	88 E	51	—
9 5	21 18.60	+84 56.3	0.603	1.154	60.8	21.8	88 E	50	—
9 6	20 39.06	+85 27.3	0.598	1.147	61.4	21.8	87 E	50	—
9 7	19 50.66	+85 48.3	0.592	1.139	62.1	21.8	87 E	49	—
9 8	18 55.80	+85 56.2	0.587	1.131	62.7	21.7	86 E	49	—

513171 2004 MD_6 *(continuation)*

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 9	18 0.07	+85 49.5	0.582	1.123	63.4	21.7	86 E	49*	—
9 10	17 9.58	+85 28.6	0.577	1.115	64.1	21.7	85 E	49*	—
9 11	16 27.62	+84 56.2	0.571	1.107	64.8	21.7	84 E	50*	—
9 12	15 54.33	+84 15.1	0.566	1.099	65.6	21.7	84 E	50*	—
9 13	15 28.32	+83 27.7	0.561	1.090	66.3	21.7	83 E	50*	—
9 14	15 7.94	+82 35.6	0.556	1.082	67.1	21.7	82 E	50*	—
9 15	14 51.77	+81 40.0	0.551	1.074	67.9	21.7	82 E	50*	—
9 16	14 38.76	+80 41.6	0.546	1.065	68.8	21.6	81 E	50*	—
9 17	14 28.11	+79 40.9	0.541	1.056	69.6	21.6	80 E	50*	—
9 18	14 19.28	+78 38.2	0.536	1.047	70.5	21.6	79 E	50*	—
9 19	14 11.84	+77 33.6	0.532	1.038	71.4	21.6	78 E	49*	—
9 20	14 5.49	+76 27.4	0.527	1.029	72.4	21.6	78 E	49*	—
9 21	14 0.02	+75 19.6	0.522	1.020	73.3	21.6	77 E	49*	—
9 22	13 55.26	+74 10.3	0.518	1.011	74.3	21.6	76 E	48*	—
9 23	13 51.06	+72 59.4	0.514	1.002	75.4	21.6	75 E	48*	—
9 24	13 47.33	+71 47.0	0.509	0.992	76.4	21.6	74 E	48*	—
9 25	13 44.00	+70 33.1	0.505	0.983	77.5	21.6	73 E	47*	—
9 26	13 40.99	+69 17.5	0.501	0.973	78.6	21.6	72 E	47*	—
9 27	13 38.26	+68 0.4	0.497	0.963	79.8	21.6	71 E	46*	—
9 28	13 35.77	+66 41.6	0.493	0.953	81.0	21.6	70 E	45*	—
9 29	13 33.47	+65 21.2	0.489	0.944	82.2	21.6	69 E	45*	—
9 30	13 31.36	+63 59.0	0.485	0.933	83.4	21.6	68 E	44*	—
10 1	13 29.39	+62 35.0	0.482	0.923	84.7	21.6	67 E	43*	—

184061 2004 FM_{148}

8 4	0 3.87	−29 4.0	2.143	2.954	13.9	21.4	136 W	16	87
8 9	0 1.67	−29 44.4	2.097	2.942	12.9	21.3	139 W	15	86
8 14	23 58.78	−30 25.0	2.056	2.930	12.0	21.2	143 W	15	86
8 19	23 55.22	−31 4.7	2.020	2.918	11.0	21.1	146 W	14	85
8 24	23 51.04	−31 42.3	1.991	2.905	10.3	21.1	149 W	13	84
8 29	23 46.29	−32 16.7	1.967	2.893	9.7	21.0	151 W	13	84
9 3	23 41.06	−32 46.7	1.950	2.880	9.5	21.0	152 W	12	83
9 8	23 35.48	−33 11.2	1.939	2.867	9.6	21.0	152 W	12	83
9 13	23 29.68	−33 29.3	1.935	2.853	10.0	21.0	150 W	12	83
9 18	23 23.82	−33 40.2	1.937	2.840	10.8	21.0	148 E	11	82
9 23	23 18.06	−33 43.6	1.945	2.826	11.8	21.0	145 E	11	82
9 28	23 12.54	−33 39.3	1.959	2.812	12.9	21.1	141 E	11	82
10 3	23 7.40	−33 27.4	1.979	2.798	14.0	21.1	137 E	12	83
10 8	23 2.76	−33 8.2	2.004	2.783	15.2	21.2	133 E	12	83
10 13	22 58.73	−32 42.1	2.034	2.769	16.4	21.2	129 E	12	83
10 18	22 55.37	−32 9.9	2.067	2.754	17.4	21.3	124 E	13	84
10 23	22 52.73	−31 32.2	2.105	2.739	18.4	21.4	120 E	13	84
10 28	22 50.82	−30 49.7	2.146	2.723	19.3	21.4	115 E	14	85
11 2	22 49.65	−30 2.9	2.189	2.708	20.0	21.5	111 E	15	86

303959 2005 YW_{195}

8 4	0 11.00	+ 1 56.6	1.925	2.675	17.3	21.4	128 W	47	62
8 14	0 5.00	+ 2 49.3	1.805	2.653	14.6	21.1	139 W	48	61
8 24	23 56.04	+ 3 32.8	1.705	2.630	11.1	20.8	150 W	49	60
9 3	23 44.45	+ 4 6.5	1.629	2.606	7.0	20.6	162 W	49	60
9 13	23 30.96	+ 4 29.8	1.582	2.581	3.3	20.3	171 W	49	60
9 23	23 16.79	+ 4 44.5	1.565	2.555	4.6	20.3	168 E	50	59
10 3	23 3.30	+ 4 53.2	1.577	2.529	8.9	20.5	157 E	50	59
10 13	22 51.80	+ 5 0.0	1.617	2.501	13.2	20.7	145 E	50	59
10 23	22 43.17	+ 5 9.5	1.680	2.472	17.0	20.9	133 E	50	59
11 2	22 37.83	+ 5 25.2	1.760	2.443	20.0	21.1	123 E	50	59
11 12	22 35.82	+ 5 49.9	1.853	2.413	22.3	21.2	113 E	51	58
11 22	22 36.95	+ 6 25.2	1.952	2.382	23.8	21.4	103 E	51	57*
12 2	22 40.86	+ 7 12.0	2.054	2.350	24.7	21.5	95 E	52	53*

152664 1998 FW_4

8 4	0 12.36	− 1 41.1	0.712	1.566	30.1	21.2	129 W	43	66
8 9	0 19.86	− 0 47.7	0.633	1.513	29.8	20.9	132 W	44	65
8 14	0 28.00	+ 0 12.2	0.557	1.459	29.6	20.5	135 W	45	64
8 19	0 37.14	+ 1 21.9	0.485	1.405	29.5	20.2	137 W	46	63
8 24	0 47.85	+ 2 46.5	0.415	1.351	29.7	19.7	139 W	48	61
8 29	1 1.08	+ 4 34.2	0.349	1.296	30.3	19.3	140 W	50	59
9 3	1 18.52	+ 6 58.5	0.286	1.241	31.8	18.8	140 W	52	57
9 5	1 27.33	+ 8 11.4	0.262	1.218	32.8	18.6	139 W	53	56
9 7	1 37.65	+ 9 36.1	0.239	1.196	34.2	18.4	138 W	55	54
9 9	1 49.92	+11 15.2	0.217	1.174	36.0	18.2	137 W	56	53
9 11	2 4.77	+13 11.8	0.195	1.152	38.5	18.0	135 W	58	51
9 13	2 23.05	+15 29.4	0.176	1.131	41.7	17.8	132 W	60	49
9 14	2 33.82	+16 46.8	0.166	1.120	43.7	17.7	130 W	62	47
9 15	2 45.92	+18 10.1	0.158	1.109	46.0	17.7	127 W	63	46
9 16	2 59.52	+19 39.1	0.149	1.098	48.7	17.6	125 W	65	44
9 17	3 14.84	+21 13.1	0.142	1.087	51.6	17.5	122 W	66	43
9 18	3 32.09	+22 50.5	0.135	1.076	55.0	17.5	119 W	68	41
9 19	3 51.43	+24 29.2	0.129	1.065	58.7	17.5	115 W	69	40
9 20	4 12.98	+26 5.6	0.124	1.055	62.9	17.5	111 W	71	38

152664 1998 FW_4 *(continuation)*

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 21	4 36.72	+27 35.4	0.120	1.044	67.4	17.6	106 W	73	36
9 22	5 2.43	+28 53.5	0.117	1.033	72.1	17.6	101 W	74	35
9 23	5 29.71	+29 54.7	0.115	1.023	77.1	17.8	96 W	75*	34
9 24	5 57.91	+30 35.0	0.115	1.012	82.2	17.9	91 W	75*	33*
9 25	6 26.23	+30 52.2	0.116	1.002	87.2	18.1	86 W	73*	32*
9 26	6 53.88	+30 46.8	0.118	0.992	92.0	18.3	81 W	70*	31*
9 27	7 20.15	+30 21.1	0.121	0.981	96.5	18.5	77 W	66*	29*
9 28	7 44.55	+29 39.1	0.126	0.971	100.7	18.8	72 W	63*	28*
9 29	8 6.81	+28 45.5	0.131	0.961	104.4	19.1	68 W	60*	26*
9 30	8 26.88	+27 44.3	0.138	0.951	107.8	19.3	65 W	56*	25*
10 1	8 44.83	+26 39.1	0.145	0.941	110.7	19.6	62 W	54*	23*
10 2	9 0.81	+25 32.7	0.152	0.931	113.2	19.8	59 W	51*	22*
10 3	9 15.03	+24 27.0	0.161	0.921	115.3	20.1	56 W	49*	21*
10 4	9 27.69	+23 23.1	0.169	0.912	117.1	20.3	54 W	47*	20*
10 5	9 38.99	+22 21.7	0.179	0.902	118.6	20.5	52 W	45*	19*
10 6	9 49.12	+21 23.4	0.188	0.893	119.7	20.7	51 W	44*	19*
10 7	9 58.24	+20 28.1	0.198	0.884	120.7	20.8	50 W	42*	18*
10 8	10 6.48	+19 35.9	0.208	0.875	121.4	21.0	48 W	41*	18*
10 9	10 13.97	+18 46.7	0.219	0.866	121.9	21.1	47 W	40*	17*
10 10	10 20.81	+18 0.2	0.229	0.857	122.2	21.2	47 W	39*	17*
10 11	10 27.09	+17 16.3	0.240	0.849	122.4	21.3	46 W	39*	17*
10 12	10 32.88	+16 34.7	0.252	0.840	122.4	21.4	45 W	38*	17*
10 13	10 38.26	+15 55.3	0.263	0.832	122.3	21.4	45 W	38*	17*
10 15	10 47.96	+14 42.0	0.286	0.817	121.7	21.5	44 W	37*	16*
10 17	10 56.55	+13 34.9	0.310	0.802	120.8	21.6	44 W	36*	17*
10 19	11 4.30	+12 32.7	0.334	0.788	119.5	21.6	44 W	36*	17*
10 21	11 11.41	+11 34.5	0.359	0.776	117.9	21.6	44 W	36*	17*

310402 1999 EE_5

8 4	0 34.42	−13 31.3	1.236	2.020	23.5	21.5	127 W	31	78
8 14	0 23.72	−13 3.2	1.165	2.039	19.1	21.2	139 W	32	77
8 24	0 8.40	−12 35.7	1.112	2.057	13.6	21.0	151 W	32	77
9 3	23 49.38	−12 2.0	1.085	2.074	7.6	20.7	164 W	33	76
9 13	23 28.52	−11 16.7	1.086	2.088	3.6	20.5	173 W	34	75
9 23	23 8.33	−10 17.2	1.119	2.101	7.7	20.8	164 E	35	74
10 3	22 51.02	− 9 5.5	1.181	2.112	13.3	21.2	151 E	36	73
10 13	22 37.96	− 7 45.1	1.267	2.121	18.1	21.5	139 E	37	72

311221 2005 AS_{28}

8 4	0 52.96	− 2 58.5	1.987	2.647	19.3	21.5	120 W	42	67
8 14	0 51.18	− 3 36.9	1.914	2.683	16.7	21.3	130 W	41	68
8 24	0 46.79	− 4 28.5	1.857	2.717	13.6	21.2	141 W	41	68
9 3	0 40.04	− 5 29.6	1.819	2.751	9.9	21.0	152 W	40	69
9 13	0 31.41	− 6 34.6	1.806	2.784	6.1	20.9	163 W	38	71
9 23	0 21.74	− 7 36.7	1.821	2.815	3.3	20.8	171 W	37	72
10 3	0 12.00	− 8 29.3	1.864	2.846	4.8	20.9	166 E	37	72
10 13	0 3.14	− 9 7.4	1.936	2.876	8.1	21.2	156 E	36	73
10 23	23 55.96	− 9 28.0	2.034	2.905	11.4	21.5	145 E	36	73

495398 2014 QY_{310}

8 4	1 10.29	+ 7 53.3	0.994	1.669	34.2	21.3	112 W	53*	56
8 14	1 20.39	+ 9 1.0	0.930	1.677	31.8	21.1	119 W	54	55
8 24	1 27.12	+ 9 48.2	0.874	1.688	28.6	20.9	127 W	55	54
9 3	1 30.03	+10 12.7	0.825	1.701	24.4	20.7	136 W	55	54
9 13	1 28.86	+10 13.2	0.789	1.717	19.2	20.4	146 W	55	54
9 23	1 23.97	+ 9 50.9	0.767	1.735	13.2	20.2	157 W	55	54
9 28	1 20.41	+ 9 32.5	0.763	1.745	9.9	20.1	163 W	55	54
10 3	1 16.35	+ 9 10.4	0.764	1.756	6.5	19.9	169 W	54	55
10 8	1 12.00	+ 8 45.8	0.769	1.767	3.1	19.8	175 W	54	55
10 13	1 7.61	+ 8 20.2	0.780	1.778	0.8	19.6	179 E	53	56
10 18	1 3.44	+ 7 55.1	0.797	1.790	3.9	19.9	173 E	53	56
10 23	0 59.67	+ 7 31.8	0.819	1.802	7.1	20.2	167 E	53	56
10 28	0 56.48	+ 7 11.4	0.846	1.815	10.1	20.4	161 E	52	57
11 2	0 54.01	+ 6 54.9	0.878	1.828	13.0	20.6	156 E	52	57
11 7	0 52.33	+ 6 43.1	0.915	1.842	15.5	20.8	150 E	52	57
11 12	0 51.52	+ 6 36.3	0.956	1.855	17.9	21.0	145 E	52	57
11 17	0 51.57	+ 6 34.7	1.002	1.869	19.9	21.2	140 E	52	57
11 22	0 52.46	+ 6 38.3	1.051	1.884	21.7	21.3	135 E	52	57

138815 2000 TQ_{64}

8 4	1 34.05	+ 4 22.3	1.428	1.992	29.0	21.4	108 W	49*	60
8 14	1 35.34	+ 4 47.9	1.366	2.039	26.2	21.3	117 W	50	59
8 24	1 33.02	+ 4 56.6	1.311	2.085	22.7	21.2	127 W	50	59
9 3	1 27.03	+ 4 48.8	1.268	2.130	18.3	21.0	138 W	50	59
9 13	1 17.64	+ 4 26.0	1.242	2.174	13.2	20.8	150 W	49	60
9 23	1 5.73	+ 3 52.3	1.238	2.217	7.6	20.6	163 W	49	60
10 3	0 52.62	+ 3 13.6	1.259	2.258	1.9	20.4	176 W	48	61
10 8	0 46.10	+ 2 54.7	1.281	2.279	1.5	20.4	177 E	48	61
10 13	0 39.88	+ 2 37.2	1.309	2.299	4.1	20.7	170 E	48	61

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
138815 2000 TQ_{64} *(continuation)*									
	h m	° ′			°	m	°	°	°
10 18	0 34.12	+ 2 22.0	1.344	2.319	6.7	20.9	164 E	47	62
10 23	0 28.96	+ 2 9.7	1.386	2.338	9.2	21.1	158 E	47	62
10 28	0 24.49	+ 2 0.8	1.434	2.357	11.4	21.2	152 E	47	62
11 2	0 20.78	+ 1 55.5	1.487	2.376	13.5	21.4	146 E	47	62
332079 2005 TZ_{27}									
8 4	1 37.73	+12 46.9	1.371	1.896	31.3	21.4	104 W	57*	51
8 14	1 49.51	+13 43.4	1.246	1.864	30.5	21.1	111 W	59	50
8 24	1 59.53	+14 24.7	1.126	1.832	29.2	20.8	118 W	59	50
9 3	2 7.28	+14 48.0	1.015	1.800	27.1	20.5	126 W	60	49
9 13	2 12.14	+14 49.5	0.913	1.769	24.0	20.2	134 W	60	49
9 23	2 13.56	+14 25.8	0.823	1.737	19.9	19.8	144 W	59	50
10 3	2 11.17	+13 34.2	0.747	1.706	14.6	19.3	155 W	59	50
10 13	2 5.08	+12 14.6	0.689	1.675	8.2	18.9	166 W	57	52
10 18	2 0.94	+11 26.0	0.667	1.660	4.6	18.6	172 W	56	53
10 23	1 56.31	+10 33.3	0.651	1.645	1.1	18.3	178 W	56	53
10 28	1 51.44	+ 9 38.5	0.639	1.631	3.3	18.4	175 E	55	54
11 2	1 46.60	+ 8 43.5	0.633	1.617	7.2	18.6	168 E	54	55
11 7	1 42.09	+ 7 51.0	0.631	1.603	11.1	18.7	162 E	53	56
11 12	1 38.19	+ 7 3.2	0.634	1.589	14.9	18.8	156 E	52	57
11 17	1 35.13	+ 6 22.1	0.642	1.576	18.5	19.0	150 E	51	58
11 22	1 33.07	+ 5 48.9	0.653	1.564	21.8	19.1	144 E	51	58
12 2	1 32.32	+ 5 9.7	0.685	1.540	27.7	19.4	133 E	50	59
12 12	1 36.30	+ 5 7.5	0.728	1.518	32.4	19.6	124 E	50	59
12 22	1 44.76	+ 5 39.0	0.777	1.499	36.1	19.8	116 E	51	58
12 27	1 50.50	+ 6 5.4	0.804	1.490	37.5	19.9	113 E	51	58
1 1	1 57.16	+ 6 37.9	0.831	1.482	38.8	20.0	109 E	52	57*
1 6	2 4.68	+ 7 15.6	0.859	1.475	39.8	20.1	106 E	52	56*
1 11	2 13.01	+ 7 57.8	0.888	1.469	40.7	20.2	103 E	53	55*
1 16	2 22.06	+ 8 43.5	0.918	1.463	41.4	20.3	101 E	54	54*
1 21	2 31.78	+ 9 32.0	0.948	1.458	41.9	20.3	98 E	55	52*
395182 2010 EP_{111}									
8 4	1 42.12	− 3 18.6	1.862	2.388	23.7	21.4	109 W	41*	67
8 14	1 45.41	− 2 18.9	1.702	2.341	22.7	21.1	117 W	43	66
8 24	1 46.00	− 1 20.6	1.550	2.294	20.9	20.8	126 W	44	65
9 3	1 43.33	− 0 22.0	1.411	2.246	18.3	20.4	136 W	45	64
9 13	1 36.87	+ 0 39.5	1.288	2.198	14.7	20.1	146 W	46	63
9 23	1 26.40	+ 1 46.8	1.186	2.150	10.0	19.7	158 W	47	62
10 3	1 12.20	+ 3 2.2	1.108	2.102	4.3	19.2	171 W	48	61
10 13	0 55.32	+ 4 26.9	1.059	2.054	2.6	19.0	175 E	49	60
10 23	0 37.69	+ 6 0.8	1.038	2.007	9.1	19.2	161 E	51	58
11 2	0 21.48	+ 7 42.1	1.046	1.960	15.5	19.4	148 E	53	56
11 12	0 8.59	+ 9 29.7	1.076	1.914	21.2	19.6	136 E	54	55
11 22	0 0.11	+11 23.5	1.125	1.869	25.9	19.8	124 E	56	53
12 2	23 56.34	+13 23.9	1.184	1.826	29.5	20.0	114 E	58	51
12 12	23 57.11	+15 32.2	1.251	1.784	32.2	20.1	105 E	61	48*
12 22	0 2.00	+17 49.2	1.319	1.744	34.0	20.2	97 E	63	42*
1 1	0 10.56	+20 15.1	1.387	1.707	35.2	20.3	90 E	65	36*
1 11	0 22.46	+22 49.8	1.452	1.672	35.8	20.4	84 E	68*	30*
1 21	0 37.43	+25 32.1	1.512	1.640	36.1	20.4	79 E	68*	25*
351508 2005 RN_{33}									
8 4	1 46.15	− 1 50.7	0.755	1.433	42.6	21.4	107 W	42*	66
8 14	2 11.25	− 1 21.7	0.682	1.404	42.5	21.2	110 W	44*	65
8 24	2 35.99	− 1 9.2	0.615	1.378	42.3	20.9	114 W	44	65
9 3	2 59.89	− 1 13.0	0.556	1.354	41.7	20.6	117 W	44	65
9 13	3 22.22	− 1 31.5	0.503	1.333	40.6	20.3	120 W	43	66
9 18	3 32.55	− 1 44.8	0.479	1.324	39.9	20.2	122 W	43	66
9 23	3 42.20	− 1 59.7	0.457	1.316	39.0	20.0	124 W	43	66
9 28	3 51.04	− 2 15.3	0.436	1.309	38.0	19.9	126 W	43	66
10 3	3 58.92	− 2 30.4	0.417	1.303	36.7	19.8	129 W	42	67
10 8	4 5.72	− 2 43.5	0.399	1.298	35.3	19.6	131 W	42	67
10 13	4 11.32	− 2 52.8	0.383	1.294	33.6	19.5	134 W	42	67
10 18	4 15.66	− 2 56.4	0.369	1.291	31.7	19.3	137 W	42	67
10 23	4 18.65	− 2 52.2	0.357	1.290	29.5	19.2	140 W	42	67
10 28	4 20.26	− 2 38.4	0.346	1.289	27.1	19.1	144 W	42	67
11 2	4 20.48	− 2 13.1	0.338	1.290	24.4	18.9	148 W	43	66
11 7	4 19.41	− 1 34.6	0.331	1.292	21.6	18.8	151 W	43	66
11 12	4 17.23	− 0 41.7	0.328	1.295	18.8	18.7	155 W	44	65
11 22	4 10.70	+ 1 46.9	0.329	1.304	14.3	18.6	161 W	47	62
12 2	4 3.44	+ 5 1.8	0.344	1.317	13.6	18.7	162 E	50	59
12 12	3 58.20	+ 8 41.7	0.372	1.334	17.1	19.0	156 E	54	55
12 17	3 57.02	+10 33.5	0.391	1.344	19.6	19.2	153 E	56	53
12 22	3 56.98	+12 23.1	0.414	1.355	22.1	19.4	149 E	57	52
12 27	3 58.12	+14 8.5	0.440	1.366	24.5	19.6	145 E	59	50
1 1	4 0.44	+15 48.7	0.469	1.379	26.8	19.9	141 E	61	48
351508 2005 RN_{33} *(continuation)*									
	h m	° ′			°	m	°	°	°
1 6	4 3.93	+17 22.9	0.501	1.392	28.8	20.1	137 E	62	47
1 11	4 8.54	+18 50.7	0.535	1.405	30.6	20.3	133 E	64	45
1 16	4 14.16	+20 11.8	0.572	1.419	32.2	20.5	130 E	65	44
1 21	4 20.71	+21 26.3	0.612	1.434	33.5	20.7	126 E	66	43
307161 2002 DY_{3}									
8 4	1 54.79	+12 17.3	1.224	1.727	35.3	21.5	101 W	56*	52
8 14	2 3.19	+15 44.9	1.099	1.699	34.8	21.2	107 W	61*	48
8 24	2 9.04	+19 36.0	0.980	1.668	33.7	20.9	114 W	65	44
9 3	2 11.39	+23 56.9	0.868	1.636	31.9	20.5	121 W	69	40
9 13	2 8.76	+28 52.0	0.769	1.603	29.4	20.1	129 W	74	35
9 18	2 5.00	+31 32.1	0.724	1.585	28.0	19.9	132 W	77	32
9 23	1 59.23	+34 19.0	0.684	1.567	26.6	19.8	136 W	79	30
9 28	1 51.14	+37 10.0	0.648	1.549	25.3	19.6	139 W	82	27
10 3	1 40.44	+40 0.7	0.617	1.530	24.3	19.4	141 W	85	24
10 8	1 26.91	+42 45.1	0.592	1.512	23.8	19.3	142 W	88	21
10 13	1 10.61	+45 16.0	0.572	1.492	24.1	19.2	142 E	90	19
10 15	1 3.37	+46 11.0	0.566	1.485	24.4	19.2	142 E	89	18
10 17	0 55.77	+47 2.2	0.560	1.477	24.8	19.1	142 E	88	17
10 19	0 47.87	+47 49.3	0.555	1.469	25.4	19.1	141 E	87	16
10 21	0 39.71	+48 32.0	0.552	1.461	26.1	19.1	140 E	86	15
10 23	0 31.37	+49 10.0	0.549	1.453	26.8	19.1	139 E	86	15
10 25	0 22.90	+49 43.2	0.546	1.445	27.7	19.1	138 E	85	14
10 27	0 14.41	+50 11.4	0.545	1.437	28.6	19.1	136 E	85	14
10 29	0 5.96	+50 34.9	0.544	1.429	29.6	19.1	135 E	84	13
10 31	23 57.63	+50 53.5	0.544	1.421	30.6	19.2	133 E	84	13
11 2	23 49.51	+51 7.7	0.544	1.413	31.7	19.2	132 E	84	13
11 4	23 41.67	+51 17.7	0.545	1.405	32.8	19.2	130 E	84	13
11 6	23 34.17	+51 23.9	0.547	1.397	33.8	19.2	128 E	84	13
11 8	23 27.07	+51 26.6	0.549	1.389	34.9	19.3	127 E	84	13
11 10	23 20.40	+51 26.5	0.551	1.381	36.0	19.3	125 E	84	13
11 12	23 14.20	+51 23.9	0.554	1.373	37.1	19.3	123 E	84	13
11 17	23 0.85	+51 9.7	0.562	1.353	39.7	19.4	119 E	84	13
11 22	22 50.60	+50 49.1	0.571	1.333	42.2	19.5	115 E	84	13*
11 27	22 43.35	+50 27.4	0.581	1.313	44.5	19.5	111 E	85	13*
12 2	22 38.87	+50 8.2	0.590	1.294	46.6	19.6	108 E	85	12*
12 7	22 36.94	+49 54.5	0.599	1.275	48.5	19.6	104 E	85	11*
12 12	22 37.30	+49 48.2	0.607	1.256	50.2	19.7	102 E	85	10*
12 17	22 39.71	+49 50.3	0.613	1.237	51.8	19.7	99 E	85	8*
12 22	22 44.02	+50 1.1	0.618	1.219	53.3	19.7	96 E	85*	7*
12 27	22 50.13	+50 20.4	0.621	1.202	54.7	19.8	94 E	83*	5*
1 1	22 58.02	+50 48.0	0.621	1.185	56.0	19.8	92 E	80*	3*
1 6	23 7.74	+51 23.5	0.619	1.170	57.2	19.8	91 E	78*	2*
1 11	23 19.34	+52 6.2	0.616	1.155	58.4	19.8	89 E	76*	—
1 16	23 32.96	+52 54.9	0.609	1.141	59.5	19.7	88 E	74*	—
1 21	23 48.81	+53 47.6	0.601	1.129	60.5	19.7	87 E	72*	—
408799 2000 SL_{55}									
8 4	2 7.01	+12 47.5	1.229	1.694	36.4	21.5	98 W	55*	51
8 14	2 20.49	+14 13.7	1.164	1.714	35.1	21.3	104 W	59*	50
8 24	2 31.16	+15 24.8	1.102	1.736	33.1	21.2	110 W	60	49
9 3	2 38.50	+16 20.0	1.043	1.760	30.4	21.0	118 W	61	48
9 13	2 41.93	+16 58.0	0.991	1.786	26.8	20.8	127 W	62	47
9 23	2 41.14	+17 17.8	0.948	1.814	22.3	20.7	137 W	62	47
10 3	2 36.18	+17 18.2	0.919	1.843	16.9	20.4	148 W	62	47
10 8	2 32.30	+17 11.1	0.910	1.858	13.9	20.3	153 W	62	47
10 13	2 27.69	+16 59.5	0.907	1.874	10.8	20.2	159 W	62	47
10 18	2 22.56	+16 44.0	0.908	1.889	7.6	20.1	165 W	62	47
10 23	2 17.14	+16 25.4	0.915	1.905	4.4	20.0	172 W	61	48
10 28	2 11.65	+16 4.5	0.928	1.921	1.6	19.9	177 W	61	48
11 2	2 6.35	+15 42.6	0.947	1.938	2.8	20.0	175 E	61	48
11 7	2 1.44	+15 20.8	0.972	1.954	5.7	20.2	169 E	60	49
11 12	1 57.13	+15 0.3	1.003	1.971	8.6	20.5	163 E	60	49
11 17	1 53.56	+14 42.2	1.040	1.987	11.3	20.7	157 E	60	49
11 22	1 50.81	+14 27.3	1.082	2.004	13.8	20.9	151 E	59	50
11 27	1 48.92	+14 16.0	1.128	2.021	16.0	21.1	146 E	59	50
12 2	1 47.91	+14 8.7	1.180	2.038	18.0	21.2	140 E	59	50
12 7	1 47.78	+14 5.7	1.235	2.055	19.7	21.4	135 E	59	50
285638 2000 SO_{10}									
8 4	2 20.81	+26 46.7	1.711	1.986	30.7	21.5	90 W	66*	37
8 9	2 22.50	+28 18.6	1.651	1.991	30.5	21.4	94 W	70*	36
8 14	2 23.39	+29 52.7	1.592	1.995	30.2	21.3	98 W	74*	34
8 19	2 23.36	+31 28.9	1.532	1.998	29.8	21.2	102 W	76	33
8 24	2 22.28	+33 7.2	1.474	2.000	29.1	21.1	106 W	78	31
8 29	2 20.00	+34 47.1	1.418	2.001	28.3	21.0	110 W	80	29
9 3	2 16.33	+36 27.9	1.364	2.002	27.4	20.9	114 W	81	28
9 8	2 11.09	+38 8.3	1.313	2.001	26.3	20.8	119 W	83	26
9 13	2 4.08	+39 46.6	1.265	1.999	25.0	20.7	123 W	85	24

285638 2000 SO_{10} *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 18	1 55.18	+41 20.4	1.221	1.996	23.7	20.5	127 W	86	23
9 23	1 44.29	+42 46.8	1.182	1.992	22.3	20.4	131 W	88	21
9 28	1 31.41	+44 2.2	1.149	1.987	21.0	20.3	135 W	89	20
10 3	1 16.72	+45 2.9	1.122	1.981	19.8	20.2	138 W	90	19
10 8	1 0.57	+45 45.1	1.101	1.974	19.0	20.2	140 W	89	18
10 13	0 43.53	+46 6.4	1.087	1.966	18.6	20.1	141 E	89	18
10 15	0 36.62	+46 8.7	1.084	1.963	18.6	20.1	141 E	89	18
10 17	0 29.73	+46 7.6	1.081	1.959	18.7	20.1	141 E	89	18
10 19	0 22.91	+46 3.0	1.080	1.955	18.8	20.1	141 E	89	18
10 21	0 16.20	+45 55.1	1.079	1.951	19.1	20.1	140 E	89	18
10 23	0 9.64	+45 44.0	1.080	1.947	19.4	20.1	140 E	89	18
10 28	23 54.16	+45 3.8	1.086	1.936	20.5	20.1	137 E	90	19
11 2	23 40.37	+44 8.8	1.099	1.924	21.9	20.2	134 E	89	20
11 7	23 28.58	+43 3.5	1.117	1.911	23.4	20.3	130 E	88	21
11 12	23 18.93	+41 52.6	1.139	1.897	25.0	20.3	126 E	87	22
11 17	23 11.37	+40 40.2	1.166	1.882	26.6	20.4	121 E	86	23
11 22	23 5.78	+39 29.5	1.196	1.865	28.1	20.5	117 E	84	25
11 27	23 2.00	+38 22.8	1.228	1.848	29.5	20.6	113 E	83	25*
12 2	22 59.86	+37 21.9	1.261	1.829	30.8	20.6	108 E	82	26*
12 7	22 59.19	+36 28.0	1.296	1.810	31.9	20.7	104 E	81	25*
12 12	22 59.83	+35 41.9	1.331	1.789	32.8	20.8	100 E	81	24*
12 17	23 1.62	+35 3.8	1.365	1.767	33.6	20.8	96 E	80	23*
12 22	23 4.43	+34 33.7	1.399	1.745	34.3	20.9	93 E	80	22*
12 27	23 8.16	+34 11.4	1.431	1.721	34.9	20.9	89 E	79*	20*
1 1	23 12.73	+33 56.7	1.461	1.695	35.3	20.9	85 E	78*	18*
1 6	23 18.07	+33 49.3	1.489	1.669	35.7	20.9	82 E	75*	16*
1 11	23 24.13	+33 48.9	1.514	1.641	36.0	20.9	79 E	73*	14*
1 16	23 30.87	+33 55.0	1.537	1.612	36.3	20.9	76 E	70*	12*
1 21	23 38.24	+34 7.2	1.557	1.582	36.5	20.9	73 E	67*	10*

280136 2002 OM_4

8 4	2 27.45	−33 0.9	1.767	2.256	25.7	21.4	105 W	10*	83
8 9	2 32.79	−35 10.0	1.718	2.244	25.5	21.3	108 W	9*	81
8 14	2 37.67	−37 27.0	1.674	2.232	25.3	21.2	110 W	7*	79
8 19	2 42.01	−39 51.1	1.635	2.218	25.1	21.2	112 W	5*	76
8 24	2 45.72	−42 21.0	1.599	2.204	24.9	21.1	113 W	3	74
8 29	2 48.69	−44 55.5	1.569	2.189	24.8	21.0	114 W	—	71
9 3	2 50.77	−47 32.7	1.544	2.173	24.8	21.0	115 W	—	68
9 8	2 51.81	−50 10.7	1.523	2.157	25.0	20.9	115 W	—	66
9 13	2 51.62	−52 47.1	1.507	2.139	25.2	20.9	115 W	—	63
9 18	2 50.03	−55 19.5	1.496	2.121	25.5	20.9	115 W	—	61
9 23	2 46.83	−57 45.2	1.490	2.102	26.0	20.9	113 W	—	58
9 28	2 41.82	−60 1.9	1.488	2.082	26.5	20.9	112 W	—	56
10 3	2 34.84	−62 6.8	1.489	2.061	27.1	20.9	110 W	—	54
10 8	2 25.77	−63 57.5	1.493	2.039	27.7	20.9	108 W	—	52
10 13	2 14.67	−65 31.7	1.500	2.017	28.4	20.9	106 W	—	50
10 18	2 1.78	−66 47.6	1.509	1.993	29.1	20.9	103 W	—	49
10 23	1 47.53	−67 43.9	1.520	1.969	29.7	20.9	101 E	—	48
10 28	1 32.56	−68 20.4	1.531	1.943	30.4	20.9	98 E	—	48
11 2	1 17.63	−68 37.1	1.543	1.917	31.0	20.9	96 E	—	47
11 7	1 3.53	−68 35.2	1.555	1.890	31.6	20.9	93 E	—	47
11 12	0 50.94	−68 16.6	1.566	1.862	32.1	20.9	91 E	—	48
11 17	0 40.31	−67 43.4	1.577	1.832	32.6	20.9	88 E	—	48
11 22	0 31.87	−66 57.9	1.585	1.802	33.1	20.9	86 E	—	49
11 27	0 25.65	−66 2.1	1.592	1.771	33.6	20.9	83 E	—	50
12 2	0 21.60	−64 57.6	1.596	1.739	34.0	20.8	81 E	—	51
12 7	0 19.55	−63 45.8	1.598	1.706	34.5	20.8	79 E	—	52
12 12	0 19.33	−62 27.7	1.598	1.672	35.0	20.8	77 E	—	53*
12 17	0 20.73	−61 4.1	1.594	1.637	35.4	20.7	75 E	—	54*
12 22	0 23.54	−59 35.5	1.586	1.600	36.0	20.7	73 E	—	55*
12 27	0 27.60	−58 1.9	1.576	1.563	36.5	20.6	71 E	—	55*
1 1	0 32.77	−56 23.2	1.562	1.525	37.1	20.6	69 E	—	56*
1 6	0 38.93	−54 39.2	1.544	1.485	37.8	20.5	68 E	—	56*
1 11	0 45.95	−52 49.7	1.523	1.445	38.6	20.5	66 E	—	55*
1 16	0 53.75	−50 54.0	1.498	1.404	39.5	20.4	65 E	—	55*
1 21	1 2.24	−48 51.4	1.470	1.361	40.5	20.3	64 E	—	55*

365014 2008 OX_2

8 4	2 37.23	+27 47.4	0.548	1.119	64.7	21.4	86 W	65*	36
8 6	2 50.91	+28 48.4	0.530	1.100	66.6	21.4	85 W	65*	35
8 8	3 5.69	+29 47.4	0.512	1.081	68.7	21.3	83 W	65*	34
8 10	3 21.67	+30 43.1	0.496	1.061	70.9	21.3	82 W	65*	33
8 12	3 38.88	+31 33.9	0.482	1.041	73.3	21.3	80 W	64*	32*
8 14	3 57.35	+32 18.0	0.469	1.020	75.8	21.2	78 W	64*	31*
8 16	4 17.03	+32 53.2	0.459	0.999	78.5	21.2	75 W	62*	31*
8 18	4 37.84	+33 17.5	0.450	0.978	81.2	21.3	73 W	61*	30*
8 20	4 59.58	+33 28.9	0.443	0.956	84.1	21.3	70 W	59*	29*
8 22	5 22.03	+33 25.7	0.439	0.934	87.0	21.3	67 W	57*	27*
8 24	5 44.87	+33 6.9	0.437	0.912	90.0	21.4	64 W	54*	26*
8 26	6 7.77	+32 32.2	0.438	0.889	92.9	21.5	61 W	52*	25*

61416 2000 QL_{12}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 4	2 53.34	+13 4.9	2.627	2.762	21.5	21.5	87 W	51*	51
8 14	3 0.04	+13 20.6	2.505	2.779	21.3	21.4	95 W	56*	51
8 24	3 4.83	+13 26.4	2.384	2.794	20.6	21.2	103 W	58*	51
9 3	3 7.44	+13 22.0	2.267	2.808	19.4	21.1	112 W	58	51
9 13	3 7.61	+13 7.0	2.157	2.822	17.6	20.9	122 W	58	51
9 23	3 5.18	+12 41.6	2.060	2.834	15.2	20.8	132 W	58	51
10 3	3 0.14	+12 6.3	1.979	2.845	12.1	20.6	143 W	57	52
10 13	2 52.73	+11 22.6	1.920	2.855	8.5	20.4	155 W	56	53
10 23	2 43.53	+10 33.5	1.887	2.865	4.6	20.2	167 W	56	53
10 28	2 38.52	+10 8.2	1.881	2.869	2.7	20.0	172 W	55	54
11 2	2 33.40	+ 9 43.2	1.883	2.873	1.8	20.0	175 W	55	54
11 7	2 28.30	+ 9 19.2	1.893	2.877	2.9	20.1	172 E	54	55
11 12	2 23.36	+ 8 56.9	1.910	2.880	4.7	20.2	166 E	54	55
11 22	2 14.42	+ 8 19.4	1.965	2.887	8.6	20.5	154 E	53	56
12 2	2 7.34	+ 7 54.3	2.047	2.892	12.0	20.7	142 E	53	56
12 12	2 2.60	+ 7 43.5	2.151	2.896	14.8	20.9	131 E	53	56
12 22	2 0.38	+ 7 47.2	2.272	2.899	17.0	21.1	121 E	53	56
1 1	2 0.63	+ 8 4.3	2.405	2.901	18.5	21.3	111 E	53	56*
1 11	2 3.18	+ 8 33.3	2.546	2.902	19.4	21.4	101 E	54	54*

162161 1999 DK_3

8 4	2 53.76	−18 12.4	1.809	2.162	27.8	21.5	96 W	22*	82
8 14	3 3.29	−21 35.0	1.764	2.213	26.6	21.5	102 W	22*	86
8 24	3 10.10	−25 14.9	1.728	2.262	25.1	21.4	108 W	20*	89
9 3	3 13.78	−29 5.0	1.705	2.310	23.5	21.4	114 W	16	87
9 13	3 13.92	−32 55.4	1.696	2.356	21.9	21.4	119 W	12	83
9 23	3 10.29	−36 32.7	1.704	2.401	20.6	21.4	123 W	8	79
10 3	3 2.95	−39 43.2	1.730	2.444	19.6	21.4	125 W	5	76
10 13	2 52.42	−42 13.8	1.774	2.486	19.2	21.5	125 W	3	74
10 23	2 39.82	−43 54.7	1.835	2.526	19.1	21.6	124 W	1	72
11 2	2 26.64	−44 42.7	1.913	2.565	19.4	21.7	121 E	—	71
11 12	2 14.44	−44 39.9	2.004	2.602	19.9	21.9	117 E	—	71
11 22	2 4.49	−43 53.2	2.108	2.637	20.4	22.0	112 E	1	72

399404 2001 TL_{54}

8 4	3 2.23	+21 3.8	1.390	1.610	38.7	21.4	82 W	56*	43
8 9	3 14.68	+21 49.6	1.349	1.605	38.9	21.3	84 W	59*	42
8 14	3 27.04	+22 31.0	1.310	1.601	39.2	21.3	86 W	61*	41
8 19	3 39.26	+23 7.8	1.271	1.597	39.3	21.2	88 W	63*	41
8 24	3 51.30	+23 39.9	1.232	1.594	39.4	21.1	90 W	65*	40
8 29	4 3.10	+24 7.3	1.195	1.592	39.3	21.1	92 W	67*	40
9 3	4 14.59	+24 29.9	1.158	1.591	39.2	21.0	94 W	68*	40
9 8	4 25.70	+24 47.7	1.121	1.591	39.0	20.9	97 W	69*	39
9 13	4 36.35	+25 0.7	1.086	1.592	38.6	20.8	99 W	70*	39
9 18	4 46.47	+25 9.2	1.051	1.593	38.2	20.7	102 W	70	39
9 23	4 55.97	+25 13.3	1.016	1.595	37.5	20.7	104 W	70	39
9 28	5 4.77	+25 13.3	0.983	1.599	36.8	20.6	107 W	70	39
10 3	5 12.77	+25 9.3	0.951	1.602	35.8	20.5	110 W	70	39
10 8	5 19.87	+25 1.7	0.919	1.607	34.7	20.4	114 W	70	39
10 13	5 25.98	+24 50.7	0.889	1.612	33.4	20.3	117 W	70	39
10 23	5 34.90	+24 19.9	0.834	1.626	30.0	20.1	125 W	69	40
11 2	5 38.94	+23 39.3	0.787	1.641	25.6	19.8	134 W	69	40
11 12	5 37.82	+22 50.6	0.751	1.660	20.2	19.6	145 W	68	41
11 17	5 35.45	+22 24.0	0.738	1.670	17.1	19.5	150 W	67	42
11 22	5 32.02	+21 56.2	0.730	1.681	13.8	19.3	156 W	67	42
11 27	5 27.72	+21 27.6	0.726	1.692	10.3	19.2	162 W	66	43
12 2	5 22.80	+20 58.7	0.727	1.704	6.8	19.1	168 W	66	43
12 7	5 17.53	+20 30.3	0.734	1.717	3.4	18.9	174 W	66	43
12 12	5 12.24	+20 3.1	0.746	1.730	1.8	18.9	177 E	65	44
12 17	5 7.22	+19 37.9	0.763	1.743	4.5	19.1	172 E	65	44
12 22	5 2.73	+19 15.3	0.786	1.757	7.8	19.4	166 E	64	45
12 27	4 58.95	+18 56.0	0.814	1.771	10.9	19.6	160 E	64	45
1 1	4 56.04	+18 40.4	0.847	1.785	13.8	19.8	154 E	64	45
1 6	4 54.11	+18 28.6	0.885	1.800	16.4	20.0	149 E	63	46
1 11	4 53.19	+18 20.6	0.928	1.815	18.8	20.2	143 E	63	46
1 16	4 53.29	+18 16.2	0.974	1.831	20.9	20.4	138 E	63	46
1 21	4 54.36	+18 15.0	1.024	1.846	22.7	20.6	134 E	63	46

162149 1998 YQ_{11}

8 4	3 5.69	+28 10.2	1.904	1.994	30.1	21.5	80 W	61*	36*
8 14	3 24.36	+29 30.4	1.753	1.947	31.2	21.3	85 W	67*	34
8 24	3 43.11	+30 42.1	1.603	1.899	32.2	21.1	90 W	72*	33
9 3	4 1.83	+31 44.4	1.454	1.849	32.9	20.8	96 W	76*	32
9 13	4 20.32	+32 35.5	1.308	1.798	33.3	20.6	101 W	78	31
9 23	4 38.33	+33 13.6	1.166	1.745	33.4	20.2	107 W	78	31
9 28	4 47.05	+33 27.0	1.097	1.719	33.3	20.1	110 W	78	31
10 3	4 55.52	+33 36.2	1.030	1.692	33.0	19.9	113 W	79	30
10 8	5 3.67	+33 40.7	0.964	1.665	32.6	19.7	116 W	79	30

162149 1998 YQ_{11} *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 13	5 11.42	+33 40.0	0.900	1.638	32.1	19.5	119 W	79	30
10 18	5 18.71	+33 33.4	0.838	1.611	31.4	19.3	123 W	79	30
10 23	5 25.47	+33 20.2	0.778	1.584	30.5	19.1	126 W	78	31
10 28	5 31.59	+32 59.4	0.721	1.557	29.3	18.8	130 W	78	31
11 2	5 36.97	+32 29.7	0.666	1.530	28.0	18.6	134 W	77	32
11 7	5 41.49	+31 49.8	0.613	1.503	26.3	18.3	138 W	77	32
11 12	5 45.06	+30 57.8	0.564	1.476	24.3	18.0	142 W	76	33
11 17	5 47.60	+29 51.6	0.518	1.450	22.0	17.7	147 W	75	34
11 22	5 49.04	+28 28.9	0.475	1.423	19.3	17.4	152 W	73	36
11 27	5 49.30	+26 47.0	0.435	1.397	16.1	17.1	157 W	72	37
12 2	5 48.37	+24 43.3	0.399	1.372	12.6	16.7	162 W	70	39
12 7	5 46.31	+22 15.7	0.368	1.347	8.8	16.4	168 W	67	42
12 12	5 43.31	+19 23.0	0.341	1.323	5.5	16.0	173 W	64	45
12 17	5 39.62	+16 6.0	0.318	1.300	5.5	15.8	173 W	61	48
12 22	5 35.54	+12 27.6	0.299	1.277	9.5	15.8	168 E	57	52
12 27	5 31.44	+ 8 33.5	0.285	1.256	14.9	15.9	161 E	54	55
1 1	5 27.72	+ 4 31.5	0.275	1.236	20.6	16.0	154 E	50	59
1 6	5 24.78	+ 0 30.7	0.269	1.217	26.2	16.1	147 E	46	63
1 11	5 23.02	− 3 20.6	0.266	1.200	31.6	16.2	140 E	42	67
1 16	5 22.68	− 6 56.2	0.266	1.184	36.5	16.3	134 E	38	71
1 21	5 23.92	−10 12.1	0.267	1.171	40.8	16.4	129 E	35	74

506601 2006 AD_{104}

8 4	3 9.96	+21 54.5	1.463	1.638	37.7	21.4	81 W	56*	42*
8 9	3 23.52	+23 5.0	1.413	1.620	38.3	21.3	82 W	58*	41*
8 14	3 37.36	+24 12.8	1.364	1.603	38.9	21.2	83 W	61*	40*
8 19	3 51.46	+25 17.5	1.316	1.586	39.4	21.2	85 W	63*	39*
8 24	4 5.82	+26 18.6	1.270	1.571	40.0	21.1	86 W	66*	38
8 29	4 20.41	+27 15.9	1.226	1.557	40.4	21.0	88 W	68*	37
9 3	4 35.19	+28 8.9	1.184	1.544	40.8	20.9	89 W	70*	36
9 8	4 50.10	+28 57.3	1.143	1.532	41.1	20.8	91 W	72*	35
9 13	5 5.08	+29 40.7	1.104	1.521	41.4	20.7	92 W	73*	34*
9 18	5 20.06	+30 19.1	1.066	1.511	41.6	20.7	94 W	75*	34*
9 23	5 34.99	+30 52.3	1.031	1.503	41.7	20.6	95 W	76*	33*
9 28	5 49.77	+31 20.2	0.996	1.496	41.7	20.5	97 W	76	33*
10 3	6 4.30	+31 43.0	0.963	1.490	41.6	20.4	99 W	77	32*
10 8	6 18.47	+32 0.9	0.931	1.486	41.4	20.3	101 W	77	32*
10 13	6 32.16	+32 14.1	0.901	1.483	41.1	20.2	103 W	77	32*
10 18	6 45.27	+32 23.2	0.872	1.481	40.6	20.2	105 W	77	32*
10 23	6 57.70	+32 28.6	0.844	1.481	40.0	20.1	107 W	77	32
10 28	7 9.32	+32 30.9	0.818	1.482	39.2	20.0	109 W	78	31
11 2	7 20.02	+32 30.9	0.793	1.485	38.3	19.9	112 W	78	31
11 7	7 29.66	+32 29.1	0.769	1.489	37.1	19.8	115 W	77	32
11 12	7 38.14	+32 26.1	0.746	1.494	35.8	19.7	118 W	77	32
11 17	7 45.35	+32 22.6	0.725	1.501	34.2	19.6	121 W	77	32
11 22	7 51.22	+32 18.9	0.706	1.509	32.4	19.5	125 W	77	32
11 27	7 55.65	+32 15.3	0.689	1.518	30.3	19.4	129 W	77	32
12 2	7 58.56	+32 11.9	0.673	1.529	28.0	19.3	133 W	77	32
12 12	7 59.75	+32 4.5	0.650	1.553	22.5	19.1	143 W	77	32
12 22	7 55.28	+31 51.7	0.641	1.582	16.3	18.9	153 W	77	32
1 1	7 46.57	+31 26.8	0.647	1.615	9.7	18.7	164 W	76	33
1 6	7 41.35	+31 8.1	0.657	1.633	6.9	18.7	168 W	76	33
1 11	7 36.04	+30 44.9	0.673	1.651	5.4	18.7	171 W	76	33
1 16	7 30.99	+30 17.6	0.693	1.671	6.0	18.8	170 E	75	34
1 21	7 26.49	+29 46.7	0.719	1.690	8.1	19.0	166 E	75	34

91227 1999 BG_9

8 4	3 16.51	+17 19.0	2.623	2.647	22.2	21.5	80 W	51*	47*
8 14	3 26.79	+17 52.4	2.470	2.625	22.7	21.3	87 W	57*	46
8 24	3 35.75	+18 18.3	2.316	2.603	22.8	21.2	95 W	62*	46
9 3	3 43.08	+18 36.5	2.163	2.579	22.4	21.0	103 W	64*	45
9 13	3 48.41	+18 46.5	2.015	2.555	21.6	20.8	111 W	64	45
9 23	3 51.34	+18 47.9	1.873	2.530	20.1	20.6	120 W	64	45
10 3	3 51.51	+18 40.1	1.741	2.504	17.8	20.3	130 W	64	45
10 13	3 48.60	+18 22.5	1.625	2.478	14.8	20.1	141 W	63	46
10 23	3 42.58	+17 54.7	1.527	2.450	11.0	19.8	152 W	63	46
11 2	3 33.75	+17 17.3	1.452	2.422	6.5	19.4	164 W	62	47
11 7	3 28.50	+16 55.6	1.424	2.407	4.0	19.2	170 W	62	47
11 12	3 22.90	+16 32.4	1.404	2.392	1.5	19.0	176 W	62	47
11 17	3 17.12	+16 8.4	1.390	2.378	1.6	19.0	176 E	61	48
11 22	3 11.34	+15 44.3	1.384	2.363	4.2	19.1	170 E	61	48
11 27	3 5.75	+15 20.9	1.384	2.347	6.8	19.3	164 E	60	49
12 2	3 0.51	+14 59.1	1.392	2.332	9.4	19.4	157 E	60	49
12 7	2 55.79	+14 39.5	1.405	2.317	11.9	19.5	151 E	60	49
12 12	2 51.73	+14 23.0	1.425	2.301	14.3	19.6	145 E	59	50
12 22	2 45.95	+14 1.0	1.479	2.269	18.4	19.8	133 E	59	50
1 1	2 43.57	+13 55.3	1.549	2.237	21.8	20.0	123 E	59	50
1 11	2 44.65	+14 5.9	1.630	2.204	24.3	20.1	113 E	59	50
1 21	2 48.98	+14 31.4	1.717	2.171	26.1	20.2	104 E	60	49*

253106 2002 UR_3

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 4	3 39.00	−15 54.2	2.281	2.412	24.8	21.4	85 W	20*	77*
8 14	3 42.88	−17 7.5	2.173	2.432	24.6	21.4	92 W	23*	81*
8 24	3 44.21	−18 39.5	2.062	2.448	24.0	21.2	100 W	25*	83
9 3	3 42.46	−20 28.6	1.954	2.459	23.0	21.1	108 W	25*	84
9 13	3 37.00	−22 31.2	1.853	2.467	21.5	20.9	116 W	22	87
9 23	3 27.32	−24 39.5	1.765	2.471	19.6	20.8	124 W	20	89
10 3	3 13.11	−26 42.0	1.695	2.472	17.7	20.6	131 W	18	89
10 13	2 54.63	−28 22.4	1.648	2.468	16.2	20.5	136 W	17	88
10 23	2 33.00	−29 23.9	1.629	2.460	15.7	20.5	138 W	16	87
10 28	2 21.60	−29 35.9	1.631	2.455	15.9	20.5	137 W	15	86
11 2	2 10.19	−29 34.3	1.640	2.449	16.5	20.5	136 E	15	86
11 7	1 59.06	−29 19.0	1.656	2.442	17.3	20.5	133 E	16	87
11 12	1 48.50	−28 50.7	1.679	2.434	18.2	20.6	130 E	16	87
11 17	1 38.72	−28 10.6	1.709	2.425	19.3	20.7	126 E	17	88
11 22	1 29.90	−27 20.2	1.744	2.415	20.3	20.7	122 E	18	89
11 27	1 22.13	−26 21.2	1.784	2.404	21.4	20.8	117 E	19	90
12 2	1 15.46	−25 15.2	1.828	2.391	22.3	20.9	113 E	20	89
12 7	1 9.90	−24 3.8	1.877	2.378	23.2	20.9	108 E	21	88
12 12	1 5.43	−22 48.4	1.928	2.364	23.9	21.0	104 E	22	87
12 17	1 2.00	−21 30.2	1.980	2.349	24.4	21.1	99 E	23	86
12 22	0 59.53	−20 10.0	2.035	2.333	24.8	21.1	95 E	25	83*
12 27	0 57.95	−18 48.7	2.090	2.315	25.1	21.2	90 E	26	78*
1 1	0 57.19	−17 26.8	2.145	2.297	25.3	21.2	86 E	28	73*
1 6	0 57.19	−16 4.6	2.199	2.278	25.3	21.3	82 E	29	68*
1 11	0 57.87	−14 42.5	2.253	2.257	25.2	21.3	78 E	30	63*
1 16	0 59.17	−13 20.8	2.304	2.235	25.0	21.3	74 E	32	58*
1 21	1 1.03	−11 59.4	2.354	2.213	24.6	21.3	70 E	33*	54*

170891 2004 TY_{16}

8 4	3 49.43	+27 8.1	2.089	1.997	28.6	21.4	71 W	53*	36*
8 14	4 10.48	+28 39.1	1.939	1.947	30.2	21.2	75 W	59*	35*
8 24	4 32.24	+30 4.6	1.790	1.896	31.7	21.0	80 W	65*	34*
9 3	4 54.75	+31 24.2	1.642	1.844	33.0	20.8	85 W	70*	32*
9 13	5 18.03	+32 37.3	1.497	1.791	34.2	20.6	89 W	75*	31*
9 23	5 42.09	+33 43.0	1.356	1.737	35.2	20.3	94 W	78*	30*
9 28	5 54.42	+34 13.0	1.287	1.710	35.7	20.2	96 W	79*	30*
10 3	6 6.96	+34 40.8	1.220	1.683	36.1	20.0	98 W	80	29*
10 8	6 19.69	+35 6.4	1.154	1.656	36.4	19.9	100 W	80	29*
10 13	6 32.61	+35 29.7	1.089	1.629	36.7	19.7	102 W	80	29*
10 18	6 45.72	+35 50.5	1.027	1.602	37.0	19.6	105 W	81	28*
10 23	6 59.03	+36 8.5	0.966	1.575	37.2	19.4	107 W	81	28
10 28	7 12.52	+36 23.6	0.907	1.548	37.4	19.2	109 W	81	28
11 2	7 26.19	+36 35.6	0.851	1.521	37.5	19.1	111 W	82	27
11 7	7 40.01	+36 44.0	0.796	1.495	37.6	18.9	113 W	82	27
11 12	7 53.96	+36 48.5	0.744	1.469	37.6	18.7	115 W	82	27
11 17	8 8.05	+36 48.6	0.694	1.443	37.6	18.5	117 W	82	27
11 22	8 22.25	+36 43.7	0.646	1.418	37.5	18.3	119 W	82	27
11 27	8 36.52	+36 33.1	0.600	1.394	37.4	18.1	121 W	82	27
12 2	8 50.81	+36 16.0	0.557	1.370	37.2	17.9	123 W	81	28
12 7	9 5.06	+35 51.4	0.517	1.347	37.0	17.7	125 W	81	28
12 12	9 19.20	+35 18.0	0.479	1.326	36.8	17.5	126 W	80	29
12 17	9 33.19	+34 34.5	0.443	1.305	36.4	17.3	128 W	80	29
12 22	9 46.94	+33 39.2	0.410	1.285	36.0	17.1	130 W	79	30
12 27	10 0.33	+32 30.6	0.379	1.267	35.6	16.9	131 W	78	31
1 1	10 13.23	+31 6.7	0.350	1.250	35.0	16.6	133 W	76	33
1 6	10 25.48	+29 25.6	0.324	1.234	34.2	16.4	135 W	74	35
1 11	10 36.96	+27 25.0	0.300	1.220	33.3	16.2	137 W	72	37
1 16	10 47.57	+25 3.0	0.279	1.208	32.2	16.0	139 W	70	39
1 21	10 57.15	+22 18.1	0.260	1.198	30.9	15.8	141 W	67	42

302193 2001 UA

8 4	4 2.37	+18 12.4	1.871	1.788	32.1	21.5	69 W	45*	43*
8 14	4 21.65	+19 26.6	1.806	1.815	32.5	21.4	74 W	51*	43*
8 24	4 39.54	+20 31.1	1.736	1.844	32.6	21.4	80 W	57*	43*
9 3	4 55.76	+21 27.7	1.663	1.873	32.5	21.3	85 W	62*	42*
9 13	5 9.93	+22 18.3	1.587	1.904	31.9	21.3	92 W	66*	42*
9 23	5 21.62	+23 5.0	1.509	1.935	30.8	21.2	99 W	68	41
10 3	5 30.38	+23 50.1	1.433	1.967	29.2	21.0	106 W	69	40
10 13	5 35.66	+24 35.4	1.359	1.998	26.9	20.9	115 W	70	39
10 23	5 36.99	+25 22.0	1.292	2.031	23.8	20.7	125 W	70	39
11 2	5 34.02	+26 9.2	1.236	2.063	19.8	20.5	135 W	71	38
11 12	5 26.74	+26 54.3	1.195	2.095	15.0	20.3	147 W	72	37
11 17	5 21.65	+27 14.7	1.182	2.111	12.4	20.2	153 W	72	37
11 22	5 15.79	+27 32.7	1.175	2.127	9.6	20.1	159 W	73	36
11 27	5 9.34	+27 47.9	1.174	2.143	6.8	20.0	165 W	73	36
12 2	5 2.52	+27 59.8	1.179	2.159	4.2	19.9	171 W	73	36
12 7	4 55.59	+28 8.1	1.192	2.174	2.5	19.8	174 W	73	36
12 12	4 48.82	+28 13.1	1.211	2.190	3.6	20.0	172 E	73	36
12 17	4 42.45	+28 15.1	1.236	2.206	5.9	20.1	167 E	73	36
12 22	4 36.69	+28 14.7	1.269	2.221	8.4	20.3	161 E	73	36

(continuation)

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
302193 2001 *UA*									
12 27	4 31.70	+28 12.5	1.307	2.236	10.8	20.5	155 E	73	36
1 1	4 27.58	+28 9.2	1.352	2.252	13.1	20.7	149 E	73	36
1 6	4 24.42	+28 5.5	1.402	2.267	15.1	20.8	143 E	73	36
1 11	4 22.24	+28 2.1	1.457	2.282	16.9	21.0	138 E	73	36
1 16	4 21.05	+27 59.3	1.516	2.296	18.5	21.2	132 E	73	36
1 21	4 20.80	+27 57.5	1.579	2.311	19.8	21.3	127 E	73	36
213869 2003 SG_{170}									
8 4	4 26.15	+13 32.1	1.716	1.579	35.6	21.3	65 W	37*	46*
8 9	4 41.33	+12 41.1	1.634	1.535	37.1	21.2	66 W	38*	46*
8 14	4 57.28	+11 38.9	1.554	1.491	38.8	21.1	67 W	39*	47*
8 19	5 14.07	+10 24.5	1.477	1.446	40.5	20.9	68 W	40*	48*
8 24	5 31.80	+ 8 56.7	1.403	1.400	42.3	20.8	69 W	40*	49*
8 29	5 50.54	+ 7 14.4	1.334	1.353	44.1	20.7	69 W	40*	50*
9 3	6 10.37	+ 5 16.7	1.270	1.307	46.1	20.6	69 W	39*	51*
9 8	6 31.38	+ 3 3.4	1.212	1.259	48.1	20.4	68 W	38*	52*
9 13	6 53.62	+ 0 35.0	1.161	1.212	50.1	20.3	68 W	36*	53*
9 18	7 17.12	− 2 6.9	1.118	1.164	52.2	20.2	66 W	34*	53*
9 23	7 41.90	− 4 59.3	1.083	1.116	54.3	20.1	65 W	31*	53*
9 28	8 7.92	− 7 57.9	1.058	1.069	56.2	20.0	62 W	29*	52*
10 3	8 35.09	−10 57.0	1.043	1.022	58.0	19.9	60 W	26*	51*
10 8	9 3.26	−13 50.4	1.038	0.977	59.4	19.9	57 W	23*	49*
10 13	9 32.23	−16 31.4	1.042	0.933	60.4	19.8	54 W	20*	47*
10 18	10 1.75	−18 54.2	1.056	0.891	60.8	19.7	51 W	18*	44*
10 23	10 31.57	−20 54.6	1.078	0.853	60.7	19.7	48 W	16*	41*
10 28	11 1.44	−22 29.8	1.107	0.818	59.9	19.6	45 W	14*	39*
11 2	11 31.12	−23 39.0	1.142	0.788	58.5	19.6	43 W	12*	36*
11 7	12 0.40	−24 22.7	1.181	0.765	56.5	19.5	40 W	12*	33*
11 12	12 29.10	−24 42.5	1.224	0.748	54.0	19.5	38 W	11*	31*
11 17	12 57.11	−24 40.8	1.268	0.739	51.1	19.4	36 W	11*	28*
11 22	13 24.32	−24 20.4	1.313	0.737	48.2	19.4	34 W	11*	26*
11 27	13 50.64	−23 44.3	1.357	0.744	45.3	19.5	32 W	11*	24*
12 2	14 16.01	−22 55.5	1.400	0.759	42.6	19.5	31 W	12*	23*
12 7	14 40.38	−21 56.4	1.442	0.781	40.3	19.5	31 W	13*	22*
12 12	15 3.70	−20 49.2	1.482	0.809	38.4	19.6	31 W	14*	21*
12 17	15 25.98	−19 35.6	1.519	0.843	36.8	19.7	31 W	15*	20*
12 22	15 47.23	−18 17.1	1.555	0.880	35.6	19.8	31 W	17*	20*
12 27	16 7.46	−16 54.7	1.589	0.921	34.7	20.0	32 W	18*	20*
1 1	16 26.71	−15 29.3	1.621	0.965	34.0	20.1	33 W	19*	20*
1 6	16 45.02	−14 1.4	1.651	1.010	33.5	20.2	35 W	21*	20*
1 11	17 2.41	−12 31.5	1.680	1.056	33.2	20.3	36 W	22*	21*
1 16	17 18.94	−11 0.0	1.706	1.103	32.9	20.5	38 W	24*	22*
1 21	17 34.64	− 9 27.1	1.731	1.151	32.7	20.6	39 W	25*	23*
523807 2003 *LG*									
8 4	4 51.23	+12 0.9	1.437	1.266	43.5	21.5	59 W	32*	44*
8 9	5 13.42	+12 31.7	1.367	1.204	45.9	21.3	58 W	33*	43*
8 14	5 37.53	+12 56.6	1.304	1.140	48.4	21.2	57 W	34*	41*
8 19	6 3.70	+13 13.6	1.247	1.075	51.0	21.0	56 W	34*	39*
8 24	6 32.00	+13 20.6	1.200	1.009	53.6	20.9	53 W	34*	37*
8 29	7 2.41	+13 15.0	1.162	0.942	56.2	20.7	51 W	33*	35*
9 3	7 34.75	+12 54.4	1.136	0.875	58.5	20.6	48 W	31*	32*
9 8	8 8.72	+12 16.9	1.122	0.807	60.4	20.4	44 W	30*	28*
9 13	8 43.88	+11 21.5	1.123	0.741	61.4	20.3	40 W	27*	25*
9 18	9 19.76	+10 8.3	1.138	0.677	61.2	20.1	36 W	25*	21*
9 23	9 55.92	+ 8 38.0	1.167	0.618	59.3	19.9	32 W	22*	17*
9 28	10 32.01	+ 6 52.0	1.209	0.567	55.4	19.7	28 W	19*	14*
10 3	11 7.79	+ 4 51.6	1.262	0.529	49.3	19.5	24 W	16*	10*
10 8	11 42.99	+ 2 39.2	1.323	0.508	41.3	19.3	20 W	12*	6*
10 13	12 17.29	+ 0 18.0	1.388	0.507	32.5	19.1	16 W	9*	3*
10 18	12 50.27	− 2 6.5	1.454	0.528	24.1	19.1	13 W	6*	—
10 23	13 21.60	− 4 28.6	1.520	0.565	17.3	19.1	10 W	4*	—
10 28	13 51.12	− 6 43.0	1.586	0.616	12.4	19.2	8 W	2*	—
11 2	14 18.79	− 8 46.4	1.652	0.674	9.3	19.4	6 W	—	—
11 7	14 44.70	−10 37.0	1.718	0.738	7.6	19.6	6 W	—	—
11 12	15 8.98	−12 14.2	1.785	0.804	6.6	19.8	5 E	—	—
11 17	15 31.75	−13 38.4	1.851	0.872	6.0	20.0	5 E	—	—
11 22	15 53.17	−14 50.2	1.918	0.939	5.6	20.2	5 E	—	—
11 27	16 13.35	−15 50.7	1.985	1.006	5.2	20.4	5 E	—	—
12 2	16 32.40	−16 40.8	2.050	1.072	4.8	20.6	5 E	—	—
12 7	16 50.43	−17 21.6	2.115	1.137	4.6	20.8	5 W	—	—
12 12	17 7.52	−17 54.1	2.177	1.201	4.5	21.0	6 W	—	—
12 17	17 23.74	−18 19.1	2.237	1.263	4.7	21.2	6 W	—	—
12 22	17 39.16	−18 37.6	2.295	1.324	5.1	21.3	7 W	1*	—
484199 2006 WS_1									
8 4	4 52.62	+37 21.8	0.568	0.847	89.3	21.4	57 W	47*	22*
8 9	4 57.27	+39 50.0	0.599	0.887	83.6	21.4	60 W	52*	20*
8 14	5 3.29	+42 2.6	0.626	0.927	78.8	21.4	64 W	57*	19*
8 19	5 10.17	+44 2.8	0.649	0.968	74.6	21.4	67 W	61*	18*
8 24	5 17.51	+45 53.3	0.669	1.009	70.8	21.4	70 W	64*	16*
8 29	5 24.98	+47 36.3	0.685	1.049	67.5	21.5	74 W	68*	15*
9 3	5 32.26	+49 13.7	0.697	1.089	64.5	21.5	77 W	71*	14*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
380636 2004 XN_{14}									
8 4	5 5.48	+ 9 0.0	0.329	0.877	105.2	20.9	57 W	27*	44*
8 9	5 6.80	+ 6 38.2	0.342	0.902	99.2	20.7	61 W	30*	48*
8 14	5 9.68	+ 4 32.2	0.353	0.926	93.9	20.6	66 W	32*	52*
8 19	5 13.61	+ 2 37.8	0.362	0.949	89.3	20.5	70 W	34*	55*
8 24	5 18.25	+ 0 51.4	0.369	0.972	85.3	20.5	73 W	35*	58*
8 29	5 23.27	− 0 50.0	0.373	0.994	81.6	20.4	77 W	36*	61*
9 3	5 28.42	− 2 28.9	0.376	1.015	78.3	20.3	80 W	37*	63*
9 8	5 33.45	− 4 7.3	0.376	1.035	75.3	20.3	84 W	37*	66*
9 13	5 38.16	− 5 46.6	0.375	1.054	72.4	20.2	87 W	37*	68*
9 18	5 42.36	− 7 27.6	0.371	1.072	69.7	20.1	90 W	37*	71*
9 23	5 45.92	− 9 11.2	0.365	1.088	67.0	20.1	93 W	36*	73*
10 3	5 50.26	−12 49.2	0.350	1.117	61.9	19.9	100 W	32	77
10 13	5 49.33	−16 41.2	0.330	1.141	56.6	19.6	107 W	28	81
10 23	5 41.08	−20 38.1	0.308	1.159	51.2	19.4	115 W	24	85
10 28	5 33.50	−22 32.5	0.298	1.166	48.5	19.2	119 W	22	87
11 2	5 23.25	−24 18.6	0.287	1.171	45.8	19.1	122 W	21	88
11 7	5 10.19	−25 49.6	0.278	1.175	43.3	18.9	126 W	19	90
11 12	4 54.42	−26 57.6	0.271	1.178	41.1	18.8	129 W	18	89
11 17	4 36.38	−27 34.9	0.266	1.179	39.5	18.7	131 W	17	88
11 22	4 16.82	−27 35.3	0.262	1.179	38.6	18.7	132 W	17	88
11 27	3 56.72	−26 55.2	0.262	1.178	38.6	18.7	132 E	18	89
12 2	3 37.18	−25 34.6	0.263	1.175	39.5	18.7	131 E	19	90
12 7	3 19.23	−23 37.8	0.268	1.170	41.3	18.8	128 E	21	88
12 12	3 3.60	−21 12.1	0.274	1.165	43.7	18.9	125 E	24	85
12 17	2 50.64	−18 26.2	0.283	1.157	46.4	19.0	122 E	27	82
12 22	2 40.35	−15 28.0	0.293	1.149	49.4	19.2	118 E	30	79
12 27	2 32.57	−12 23.7	0.304	1.139	52.4	19.3	113 E	33	76
1 1	2 27.06	− 9 17.6	0.316	1.128	55.4	19.5	109 E	36	73
1 6	2 23.56	− 6 12.7	0.328	1.115	58.4	19.6	105 E	39	70
1 11	2 21.79	− 3 10.6	0.340	1.101	61.2	19.8	101 E	42	67*
1 16	2 21.43	− 0 12.6	0.352	1.086	64.0	19.9	97 E	45	62*
1 21	2 22.22	+ 2 41.0	0.362	1.069	66.7	20.0	93 E	48	58*
508810 2000 WD_{13}									
8 4	5 8.90	+ 7 36.2	2.784	2.372	20.8	21.4	56 W	26*	45*
8 14	5 25.39	+ 8 14.0	2.628	2.316	22.5	21.3	61 W	32*	47*
8 24	5 41.92	+ 8 47.2	2.468	2.259	24.2	21.2	66 W	38*	48*
9 3	5 58.43	+ 9 17.0	2.303	2.201	25.8	21.0	71 W	44*	49*
9 13	6 14.87	+ 9 44.8	2.136	2.142	27.2	20.8	77 W	49*	50*
9 23	6 31.17	+10 12.9	1.966	2.083	28.5	20.6	82 W	52*	51*
10 3	6 47.25	+10 44.2	1.797	2.024	29.6	20.4	88 W	55*	52*
10 13	7 3.03	+11 22.7	1.628	1.965	30.4	20.1	94 W	56	52*
10 23	7 18.42	+12 14.0	1.463	1.906	31.0	19.9	100 W	57	51*
10 28	7 25.95	+12 46.8	1.382	1.876	31.1	19.7	103 W	58	51*
11 2	7 33.34	+13 25.7	1.302	1.847	31.0	19.5	106 W	58	51*
11 7	7 40.58	+14 12.2	1.224	1.817	30.9	19.4	110 W	59	50
11 12	7 47.64	+15 7.9	1.148	1.788	30.5	19.2	113 W	60	49
11 17	7 54.52	+16 14.7	1.075	1.760	30.0	19.0	117 W	61	48
11 22	8 1.21	+17 34.6	1.004	1.731	29.4	18.8	121 W	63	46
11 27	8 7.68	+19 9.9	0.936	1.703	28.5	18.6	125 W	64	45
12 2	8 13.91	+21 3.1	0.872	1.676	27.3	18.3	129 W	66	43
12 7	8 19.85	+23 16.9	0.812	1.649	26.0	18.1	133 W	68	41
12 12	8 25.50	+25 53.7	0.756	1.622	24.5	17.9	137 W	71	38
12 17	8 30.84	+28 55.4	0.706	1.596	22.8	17.6	141 W	74	35
12 22	8 35.85	+32 23.0	0.662	1.571	21.2	17.4	145 W	77	32
12 27	8 40.49	+36 15.9	0.624	1.547	19.9	17.2	148 W	81	28
1 1	8 44.73	+40 31.3	0.592	1.523	19.3	17.1	149 W	86	23
1 6	8 48.55	+45 3.6	0.568	1.501	19.5	16.9	149 W	90	19
1 11	8 51.98	+49 44.6	0.552	1.479	20.9	16.9	148 W	85	14
1 13	8 53.25	+51 37.3	0.547	1.471	21.7	16.9	146 W	83	12
1 15	8 54.48	+53 29.1	0.543	1.463	22.6	16.9	145 W	82	11
1 17	8 55.66	+55 19.5	0.541	1.455	23.6	16.9	144 W	80	9
1 19	8 56.80	+57 7.8	0.539	1.447	24.8	16.9	142 W	78	7
1 21	8 57.90	+58 53.4	0.539	1.440	25.9	16.9	140 W	76	5
405105 2002 BJ_{26}									
8 4	5 33.02	+40 11.8	1.848	1.412	33.0	21.5	49 W	42*	15*
8 9	5 54.69	+40 40.6	1.826	1.403	33.5	21.4	50 W	43*	14*
8 14	6 16.55	+40 56.2	1.806	1.395	33.9	21.4	50 W	44*	13*
8 19	6 38.43	+40 58.3	1.787	1.389	34.3	21.4	51 W	44*	13*
8 24	7 0.13	+40 47.1	1.770	1.384	34.7	21.4	51 W	45*	12*
8 29	7 21.50	+40 22.9	1.754	1.380	35.1	21.4	52 W	46*	12*
9 3	7 42.38	+39 46.5	1.740	1.378	35.4	21.4	52 W	46*	11*
9 8	8 2.63	+38 58.7	1.726	1.378	35.7	21.3	53 W	47*	11*
9 13	8 22.14	+38 0.7	1.713	1.378	36.0	21.3	54 W	48*	11*
9 18	8 40.85	+36 53.4	1.701	1.381	36.2	21.3	54 W	48*	11*
9 23	8 58.72	+35 38.3	1.689	1.385	36.4	21.3	55 W	49*	12*
9 28	9 15.73	+34 16.3	1.677	1.390	36.7	21.3	56 W	50*	12*
10 3	9 31.88	+32 48.7	1.664	1.396	36.9	21.3	57 W	51*	13*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		405105 2002 BJ_{26}				*(continuation)*			
	h m	° ′			°	m	°	°	°
10 8	9 47.19	+31 16.5	1.652	1.404	37.1	21.3	58 W	52*	14*
10 13	10 1.68	+29 40.8	1.638	1.414	37.3	21.3	59 W	53*	15*
10 18	10 15.38	+28 2.4	1.624	1.424	37.4	21.3	60 W	54*	16*
10 23	10 28.33	+26 22.0	1.609	1.436	37.6	21.3	62 W	55*	17*
10 28	10 40.55	+24 40.4	1.593	1.449	37.8	21.3	63 W	56*	19*
11 2	10 52.09	+22 58.1	1.576	1.463	37.9	21.3	65 W	57*	21*
11 7	11 2.96	+21 15.6	1.557	1.478	38.0	21.3	67 W	58*	23*
11 12	11 13.17	+19 33.4	1.537	1.494	38.1	21.3	69 W	59*	25*
11 17	11 22.76	+17 51.9	1.515	1.511	38.1	21.3	71 W	59*	28*
11 22	11 31.72	+16 11.2	1.492	1.529	38.1	21.3	73 W	59*	31*
11 27	11 40.06	+14 31.6	1.468	1.548	38.1	21.3	75 W	59*	33*
12 2	11 47.78	+12 53.3	1.442	1.567	38.0	21.3	78 W	58*	37*
12 7	11 54.85	+11 16.6	1.415	1.587	37.8	21.3	81 W	56*	40*
12 12	12 1.26	+ 9 41.5	1.386	1.607	37.5	21.3	84 W	55	43*
12 17	12 6.97	+ 8 8.0	1.356	1.628	37.1	21.2	87 W	53	47*
12 22	12 11.96	+ 6 36.4	1.326	1.650	36.6	21.2	90 W	52	51*
12 27	12 16.18	+ 5 6.5	1.294	1.672	36.0	21.1	93 W	50	54*
1 1	12 19.58	+ 3 38.5	1.262	1.694	35.2	21.1	97 W	49	58*
1 6	12 22.08	+ 2 12.6	1.230	1.717	34.2	21.0	101 W	47	61*
1 11	12 23.63	+ 0 48.8	1.198	1.739	33.0	21.0	105 W	46	63*
1 16	12 24.18	− 0 32.7	1.167	1.762	31.7	20.9	110 W	44	65
1 21	12 23.65	− 1 51.7	1.138	1.786	30.1	20.8	114 W	43	66
		505831 2015 *CA*							
8 4	5 34.04	+ 9 23.4	1.957	1.512	30.7	21.5	50 W	23*	39*
8 14	6 4.26	+ 7 54.8	1.909	1.509	31.8	21.5	52 W	25*	40*
8 24	6 33.77	+ 6 7.6	1.866	1.511	32.7	21.4	54 W	28*	42*
9 3	7 2.37	+ 4 4.6	1.827	1.517	33.5	21.4	56 W	30*	43*
9 13	7 29.85	+ 1 48.9	1.791	1.527	34.1	21.4	58 W	32*	45*
9 23	7 56.03	− 0 35.8	1.756	1.542	34.7	21.4	61 W	34*	47*
10 3	8 20.81	− 3 6.0	1.722	1.560	35.1	21.4	64 W	35*	49*
10 13	8 44.07	− 5 38.5	1.687	1.582	35.4	21.4	67 W	35*	52*
10 23	9 5.69	− 8 9.8	1.650	1.608	35.5	21.4	70 W	35*	55*
11 2	9 25.58	−10 37.1	1.610	1.636	35.6	21.4	74 W	34*	59*
11 12	9 43.57	−12 57.6	1.566	1.667	35.5	21.3	78 W	32	63*
11 22	9 59.50	−15 8.0	1.518	1.701	35.2	21.3	83 W	30	68*
12 2	10 13.13	−17 5.4	1.465	1.736	34.6	21.3	88 W	28	74*
12 12	10 24.14	−18 46.1	1.409	1.774	33.6	21.2	94 W	26	81*
12 22	10 32.22	−20 5.1	1.350	1.812	32.2	21.1	101 W	25	84
1 1	10 37.04	−20 57.0	1.290	1.852	30.3	21.0	108 W	24	85
1 11	10 38.28	−21 14.4	1.234	1.892	27.7	20.9	117 W	24	85
1 21	10 35.94	−20 49.5	1.184	1.933	24.3	20.7	126 W	24	85
		189865 2003 *NC*							
8 4	6 31.89	+35 11.3	1.237	0.738	55.1	21.1	37 W	29*	11*
8 6	6 48.20	+34 15.7	1.225	0.702	55.9	21.0	35 W	28*	11*
8 8	7 4.69	+33 9.3	1.215	0.665	56.6	20.9	33 W	26*	10*
8 10	7 21.29	+31 52.1	1.208	0.627	57.0	20.8	31 W	24*	9*
8 12	7 37.95	+30 23.6	1.203	0.589	57.2	20.6	29 W	22*	8*
8 14	7 54.61	+28 43.9	1.201	0.550	57.0	20.5	27 W	20*	7*
8 19	8 36.23	+23 45.7	1.210	0.452	54.0	20.0	21 W	14*	5*
8 24	9 18.15	+17 40.1	1.234	0.357	44.6	19.2	14 W	8*	3*
8 29	10 1.77	+10 36.2	1.263	0.288	25.1	18.3	7 W	—	—
9 3	10 47.82	+ 3 14.7	1.274	0.279	16.2	17.9	4 E	—	—
9 5	11 6.36	+ 0 30.1	1.270	0.296	24.6	18.3	7 E	—	—
9 7	11 24.65	− 2 2.6	1.264	0.323	32.7	18.7	10 E	—	3*
9 9	11 42.58	− 4 22.9	1.258	0.355	39.1	19.1	13 E	—	6*
9 11	12 0.12	− 6 31.0	1.252	0.391	43.8	19.4	16 E	—	9*
9 13	12 17.29	− 8 28.1	1.248	0.429	47.1	19.7	18 E	—	11*
9 18	12 58.63	−12 36.7	1.251	0.528	50.9	20.3	24 E	—	18*
9 23	13 37.69	−15 50.1	1.271	0.625	51.0	20.7	29 E	—	23*
9 28	14 14.27	−18 15.5	1.308	0.718	49.4	21.0	33 E	2*	27*
10 3	14 48.15	−20 0.3	1.359	0.806	47.0	21.3	36 E	4*	30*
		338292 2002 UA_{31}							
8 4	6 38.99	+12 10.2	1.638	0.970	35.3	21.5	33 W	13*	25*
8 14	7 22.47	+ 9 28.2	1.563	0.895	37.5	21.2	33 W	13*	24*
8 24	8 10.27	+ 6 11.9	1.499	0.808	39.2	21.0	30 W	11*	23*
9 3	9 3.34	+ 2 29.1	1.452	0.710	39.3	20.6	26 W	9*	19*
9 13	10 2.72	− 1 21.1	1.426	0.604	36.5	20.2	21 W	5*	14*
9 18	10 35.12	− 3 9.2	1.420	0.551	33.1	19.9	17 W	2*	11*
9 23	11 9.47	− 4 45.8	1.419	0.500	27.7	19.5	13 W	—	7*
9 28	11 45.81	− 6 5.5	1.419	0.456	20.0	19.1	9 W	—	3*
10 3	12 23.92	− 7 3.6	1.415	0.424	10.3	18.6	4 W	—	—
10 8	13 3.22	− 7 38.4	1.405	0.410	7.3	18.3	3 E	—	—
10 13	13 42.80	− 7 52.6	1.385	0.417	18.4	18.8	8 E	—	1*
10 18	14 21.74	− 7 52.5	1.357	0.443	29.6	19.2	13 E	4*	5*
10 23	14 59.51	− 7 45.2	1.327	0.483	38.5	19.6	18 E	8*	8*
10 28	15 35.97	− 7 35.4	1.299	0.531	44.7	19.9	22 E	13*	11*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		338292 2002 UA_{31}				*(continuation)*			
	h m	° ′			°	m	°	°	°
11 2	16 11.16	− 7 25.4	1.276	0.584	48.7	20.2	26 E	16*	13*
11 7	16 45.14	− 7 16.1	1.261	0.638	50.9	20.4	30 E	19*	16*
11 12	17 17.90	− 7 7.0	1.254	0.690	51.9	20.6	33 E	22*	18*
11 17	17 49.39	− 6 57.6	1.255	0.742	51.9	20.8	36 E	25*	19*
11 22	18 19.55	− 6 47.3	1.264	0.790	51.4	20.9	39 E	27*	21*
11 27	18 48.32	− 6 35.6	1.281	0.836	50.4	21.0	41 E	28*	22*
12 2	19 15.68	− 6 22.0	1.304	0.879	49.1	21.1	42 E	30*	23*
12 7	19 41.63	− 6 6.2	1.333	0.920	47.7	21.2	44 E	31*	23*
12 12	20 6.18	− 5 48.2	1.366	0.957	46.1	21.3	44 E	32*	23*
12 17	20 29.40	− 5 28.0	1.403	0.991	44.5	21.4	45 E	32*	23*
		152685 1998 *MZ*							
8 4	6 54.04	+22 47.6	1.661	0.919	32.5	21.4	29 W	18*	16*
8 9	7 20.94	+22 4.7	1.626	0.867	32.9	21.2	28 W	17*	14*
8 14	7 48.89	+21 2.1	1.596	0.815	32.8	21.1	26 W	16*	13*
8 19	8 17.73	+19 38.2	1.573	0.765	32.2	20.9	24 W	15*	11*
8 24	8 47.31	+17 52.5	1.557	0.717	30.9	20.7	21 W	13*	9*
8 29	9 17.45	+15 45.1	1.547	0.673	28.7	20.5	19 W	11*	7*
9 3	9 47.98	+13 17.1	1.544	0.635	25.5	20.2	16 W	8*	5*
9 8	10 18.70	+10 31.0	1.546	0.604	21.3	20.0	13 W	6*	2*
9 13	10 49.46	+ 7 30.4	1.554	0.583	16.1	19.8	9 W	3*	—
9 18	11 20.06	+ 4 20.0	1.565	0.575	10.3	19.5	6 W	—	—
9 23	11 50.34	+ 1 5.5	1.579	0.579	4.4	19.3	3 W	—	—
9 28	12 20.14	− 2 7.5	1.597	0.595	1.1	19.2	1 E	—	—
10 3	12 49.32	− 5 13.7	1.617	0.622	5.9	19.6	4 E	—	—
10 8	13 17.80	− 8 9.0	1.641	0.658	9.7	19.9	6 E	—	—
10 13	13 45.52	−10 50.3	1.669	0.700	12.6	20.2	9 E	—	3*
10 18	14 12.44	−13 15.5	1.701	0.746	14.6	20.4	11 E	—	5*
10 23	14 38.54	−15 23.7	1.737	0.796	15.8	20.7	13 E	—	6*
10 28	15 3.81	−17 14.8	1.777	0.847	16.4	20.9	14 E	—	8*
11 2	15 28.23	−18 49.0	1.820	0.899	16.5	21.1	15 E	1*	9*
11 7	15 51.79	−20 7.3	1.867	0.950	16.3	21.2	16 E	1*	9*
11 12	16 14.49	−21 10.5	1.915	1.002	15.8	21.4	16 E	2*	10*
		163691 2003 BB_{43}							
8 4	8 4.25	+ 3 45.9	2.866	1.932	9.6	21.4	19 W	—	11*
8 14	8 26.79	+ 3 54.2	2.787	1.865	10.5	21.3	20 W	—	14*
8 24	8 50.14	+ 3 54.9	2.701	1.797	11.8	21.2	21 W	3*	15*
9 3	9 14.39	+ 3 49.0	2.607	1.730	13.5	21.1	24 W	8*	16*
9 13	9 39.68	+ 3 37.4	2.507	1.662	15.4	21.0	26 W	12*	17*
9 23	10 6.15	+ 3 21.8	2.403	1.595	17.5	20.9	29 W	16*	18*
10 3	10 34.01	+ 3 3.3	2.295	1.529	19.8	20.8	31 W	20*	18*
10 13	11 3.49	+ 2 43.8	2.186	1.465	22.2	20.7	34 W	24*	18*
10 23	11 34.86	+ 2 25.0	2.078	1.404	24.8	20.6	36 W	27*	18*
11 2	12 8.39	+ 2 8.8	1.974	1.347	27.3	20.4	38 W	29*	17*
11 12	12 44.29	+ 1 57.1	1.876	1.295	29.8	20.3	40 W	32*	17*
11 22	13 22.67	+ 1 51.4	1.790	1.249	32.1	20.2	42 W	34*	16*
12 2	14 3.45	+ 1 52.9	1.719	1.210	34.0	20.1	43 W	35*	16*
12 12	14 46.20	+ 2 2.1	1.666	1.181	35.6	20.0	44 W	36*	15*
12 22	15 30.18	+ 2 18.6	1.634	1.162	36.5	20.0	45 W	37*	15*
1 1	16 14.41	+ 2 41.1	1.623	1.155	36.8	20.0	45 W	37*	15*
1 11	16 57.76	+ 3 8.4	1.632	1.158	36.5	20.0	45 W	36*	15*
1 21	17 39.28	+ 3 38.8	1.658	1.174	35.8	20.0	44 W	36*	17*
		89958 2002 LY_{45}							
8 4	8 13.64	+20 50.3	0.836	0.247	130.8	19.4	11 W	3*	1*
8 5	8 15.45	+20 9.3	0.879	0.226	121.1	18.4	11 W	3*	2*
8 6	8 18.32	+19 27.7	0.925	0.208	109.6	17.6	11 W	3*	2*
8 7	8 22.45	+18 45.1	0.974	0.194	96.3	16.8	11 W	3*	3*
8 8	8 27.91	+18 1.7	1.024	0.188	81.7	16.3	11 W	2*	2*
8 9	8 34.65	+17 17.9	1.073	0.188	66.9	15.9	10 W	1*	2*
8 10	8 42.36	+16 34.2	1.119	0.195	52.9	15.6	9 W	—	1*
8 11	8 50.68	+15 51.3	1.162	0.209	40.8	15.5	8 W	—	1*
8 12	8 59.24	+15 9.5	1.202	0.227	30.8	15.5	7 W	—	—
8 13	9 7.78	+14 29.1	1.238	0.249	22.8	15.5	5 W	—	—
8 14	9 16.16	+13 50.1	1.271	0.273	16.5	15.6	4 W	—	—
8 16	9 32.11	+12 35.9	1.331	0.323	8.2	15.7	3 W	—	—
8 18	9 46.90	+11 26.5	1.384	0.374	5.0	16.0	2 W	—	—
8 20	10 0.56	+10 21.1	1.434	0.425	5.7	16.4	2 E	—	—
8 22	10 13.21	+ 9 19.3	1.480	0.475	7.3	16.8	3 E	—	—
8 24	10 24.98	+ 8 20.7	1.525	0.523	8.6	17.1	4 E	—	—
8 29	10 51.19	+ 6 6.5	1.632	0.638	10.0	17.7	6 E	—	—
9 3	11 13.81	+ 4 7.0	1.734	0.745	10.0	18.2	7 E	—	1*
9 8	11 33.71	+ 2 19.7	1.832	0.845	9.3	18.6	8 E	—	2*
9 13	11 51.51	+ 0 42.9	1.927	0.939	8.2	18.9	8 E	—	2*
9 18	12 7.63	− 0 45.2	2.017	1.027	6.9	19.1	7 E	—	1*
9 23	12 22.41	− 2 5.6	2.104	1.111	5.5	19.3	6 E	—	—
9 28	12 36.08	− 3 19.4	2.187	1.191	4.1	19.4	5 E	—	—
10 3	12 48.84	− 4 27.5	2.265	1.267	2.6	19.6	3 E	—	—

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		89958 2002 *LY*$_{45}$				*(continuation)*			
	h m	° ′			°	m	°	°	°
10 13	13 12.15	− 6 28.9	2.407	1.410	0.8	19.8	1 W	—	—
10 23	13 33.16	− 8 13.6	2.530	1.541	3.3	20.3	5 W	—	—
11 2	13 52.40	− 9 44.3	2.631	1.663	6.0	20.7	10 W	4*	—
11 12	14 10.21	−11 2.7	2.711	1.777	8.6	21.0	16 W	8*	3*
11 22	14 26.76	−12 10.0	2.768	1.883	11.0	21.3	21 W	13*	8*
12 2	14 42.19	−13 6.9	2.802	1.982	13.3	21.5	28 W	17*	13*
		424965 2009 *AM*$_{15}$							
8 4	8 46.62	+ 8 18.7	2.179	1.189	7.9	21.4	9 W	—	—
8 14	9 16.21	+ 7 29.7	2.157	1.164	7.2	21.3	8 W	—	1*
8 24	9 46.38	+ 6 29.9	2.122	1.129	6.9	21.2	8 W	—	2*
9 3	10 17.53	+ 5 19.5	2.074	1.083	7.3	21.1	8 W	—	2*
9 13	10 50.19	+ 3 58.5	2.012	1.027	8.2	20.9	8 W	—	1*
9 23	11 24.99	+ 2 26.5	1.938	0.959	9.4	20.8	9 W	2*	1*
10 3	12 2.78	+ 0 42.4	1.853	0.881	10.7	20.5	9 W	3*	—
10 13	12 44.68	− 1 15.9	1.758	0.791	11.9	20.2	9 W	3*	—
10 23	13 32.11	− 3 32.3	1.656	0.691	12.9	19.8	9 W	3*	—
10 28	13 58.45	− 4 49.5	1.603	0.638	13.4	19.6	9 W	2*	—
11 2	14 26.89	− 6 14.4	1.548	0.585	14.4	19.4	8 W	—	—
11 7	14 57.64	− 7 49.1	1.491	0.533	16.3	19.2	9 E	2*	—
11 12	15 30.87	− 9 36.4	1.432	0.486	20.1	19.0	10 E	4*	—
11 17	16 6.54	−11 39.6	1.369	0.447	26.5	18.9	12 E	6*	—
11 22	16 44.31	−14 1.6	1.301	0.423	35.5	19.0	14 E	7*	3*
11 27	17 23.47	−16 43.0	1.230	0.417	46.1	19.1	18 E	9*	7*
12 2	18 3.22	−19 38.6	1.158	0.432	56.3	19.3	21 E	9*	12*
12 4	18 19.16	−20 50.7	1.131	0.443	59.8	19.4	23 E	9*	14*
12 6	18 35.09	−22 2.7	1.105	0.457	63.0	19.6	24 E	9*	16*
12 8	18 51.01	−23 13.7	1.080	0.472	65.8	19.7	26 E	10*	18*
12 10	19 6.93	−24 22.9	1.057	0.489	68.1	19.8	27 E	9*	19*
12 12	19 22.85	−25 29.5	1.035	0.507	70.0	19.9	29 E	9*	21*
12 14	19 38.78	−26 32.6	1.015	0.527	71.5	19.9	31 E	9*	23*
12 16	19 54.72	−27 31.6	0.997	0.547	72.7	20.0	32 E	9*	25*
12 18	20 10.67	−28 25.8	0.981	0.568	73.5	20.1	34 E	9*	26*
12 20	20 26.61	−29 14.7	0.967	0.589	74.0	20.2	35 E	9*	28*
12 22	20 42.53	−29 57.7	0.954	0.610	74.3	20.2	37 E	9*	30*
12 24	20 58.40	−30 34.5	0.944	0.631	74.3	20.3	38 E	9*	31*
12 26	21 14.20	−31 4.7	0.935	0.653	74.2	20.3	40 E	9*	33*
12 28	21 29.88	−31 28.3	0.927	0.674	73.9	20.4	41 E	9*	34*
12 30	21 45.40	−31 45.1	0.921	0.694	73.5	20.4	43 E	9*	36*
1 1	22 0.73	−31 55.1	0.917	0.715	72.9	20.4	44 E	10*	37*
1 6	22 37.95	−31 51.5	0.911	0.765	71.2	20.5	47 E	10*	41*
1 11	23 13.15	−31 10.4	0.913	0.813	69.2	20.6	51 E	12*	44*
1 16	23 45.96	−29 57.6	0.921	0.858	67.0	20.7	53 E	13*	47*
1 21	0 16.24	−28 19.6	0.934	0.900	64.9	20.7	56 E	15*	49*
		182260 2001 *GA*$_{3}$							
8 4	8 59.98	+14 32.5	3.604	2.591	1.1	21.4	3 E	—	—
8 14	9 17.04	+13 54.4	3.574	2.565	1.6	21.4	4 W	—	—
8 24	9 34.21	+13 10.7	3.531	2.539	3.7	21.5	9 W	2*	1*
9 3	9 51.48	+12 22.2	3.474	2.511	5.8	21.6	15 W	7*	4*
9 13	10 8.83	+11 29.8	3.405	2.483	8.0	21.6	20 W	12*	7*
		60886 2000 *JB*$_{10}$							
8 4	9 0.39	+21 20.1	3.701	2.690	1.6	21.5	4 E	—	—
8 14	9 16.92	+20 10.2	3.696	2.693	2.6	21.6	7 W	1*	—
8 24	9 33.17	+18 56.7	3.676	2.695	4.5	21.7	12 W	6*	—
9 3	9 49.13	+17 40.2	3.642	2.696	6.4	21.8	17 W	11*	2*
9 13	10 4.76	+16 21.5	3.594	2.696	8.4	21.8	23 W	17*	6*
		373834 2002 *XD*$_{113}$							
8 4	9 2.89	+18 45.9	2.742	1.729	1.3	21.5	2 E	—	—
8 14	9 29.13	+16 49.7	2.765	1.754	1.5	21.5	3 W	—	—
8 24	9 54.36	+14 44.7	2.786	1.782	3.1	21.7	5 W	—	—
9 3	10 18.63	+12 33.3	2.802	1.811	4.8	21.8	9 W	2*	—
9 13	10 42.00	+10 17.8	2.814	1.842	6.6	22.0	12 W	6*	1*
		480883 2001 *YE*$_{4}$							
8 4	9 3.52	+16 23.9	1.731	0.718	2.8	21.5	2 E	—	—
8 9	9 25.55	+14 30.8	1.673	0.663	4.4	21.3	3 E	—	—
8 14	9 48.70	+12 21.9	1.609	0.603	6.9	21.1	4 E	—	—
8 19	10 13.21	+ 9 55.6	1.536	0.539	11.0	21.0	6 E	—	—
8 24	10 39.34	+ 7 11.4	1.452	0.472	17.4	20.8	8 E	—	2*
8 29	11 7.26	+ 4 10.9	1.352	0.406	27.6	20.6	11 E	—	5*
9 3	11 36.63	+ 1 2.0	1.231	0.349	43.9	20.6	14 E	—	8*
9 8	12 5.58	− 1 52.4	1.084	0.315	67.7	20.7	17 E	—	11*
9 13	12 30.05	− 3 53.8	0.922	0.318	96.1	21.5	18 E	—	12*

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		143257 2003 *AE*							
	h m	° ′			°	m	°	°	°
8 4	9 17.95	+22 17.8	3.492	2.488	2.9	21.5	7 E	1*	—
8 14	9 36.28	+21 29.9	3.527	2.525	2.8	21.5	7 E	—	—
8 24	9 54.12	+20 38.8	3.548	2.560	4.1	21.7	10 W	4*	—
9 3	10 11.48	+19 45.6	3.556	2.595	5.8	21.8	15 W	9*	—
9 13	10 28.35	+18 51.9	3.550	2.629	7.6	21.9	20 W	14*	—
		508932 2004 *JY*$_{11}$							
8 4	9 19.95	+21 12.7	2.801	1.797	3.9	21.5	7 E	1*	—
8 14	9 46.26	+20 9.7	2.771	1.768	3.7	21.4	6 E	—	—
8 24	10 12.87	+18 53.2	2.737	1.740	4.5	21.4	8 E	—	—
9 3	10 39.76	+17 24.1	2.700	1.715	5.8	21.4	10 W	2*	—
9 13	11 6.90	+15 43.6	2.660	1.692	7.4	21.4	13 W	5*	—
9 23	11 34.23	+13 53.3	2.619	1.671	9.1	21.4	15 W	8*	—
10 3	12 1.77	+11 55.1	2.577	1.653	10.7	21.4	18 W	11*	—
10 13	12 29.48	+ 9 51.2	2.535	1.638	12.3	21.4	20 W	14*	—
10 23	12 57.35	+ 7 44.0	2.495	1.627	13.9	21.4	23 W	17*	—
11 2	13 25.35	+ 5 36.1	2.456	1.618	15.3	21.4	26 W	19*	—
11 12	13 53.46	+ 3 30.3	2.418	1.613	16.8	21.4	28 W	22*	1*
11 22	14 21.60	+ 1 29.4	2.383	1.612	18.1	21.5	30 W	24*	3*
12 2	14 49.73	− 0 23.9	2.349	1.614	19.4	21.5	33 W	27*	6*
12 12	15 17.73	− 2 7.3	2.317	1.619	20.7	21.5	35 W	28*	10*
		302156 2001 *SF*$_{286}$							
8 4	9 23.42	+46 11.2	0.584	0.582	121.0	21.4	29 E	20*	—
8 6	9 16.81	+48 31.8	0.579	0.606	117.8	21.2	32 E	20*	—
8 8	9 9.34	+50 39.6	0.575	0.630	114.5	21.0	34 W	21*	—
8 10	9 1.13	+52 34.2	0.573	0.655	111.1	20.9	37 W	24*	—
8 12	8 52.33	+54 16.1	0.572	0.681	107.7	20.8	40 W	27*	—
8 14	8 43.05	+55 45.8	0.571	0.706	104.4	20.7	42 W	30*	—
8 16	8 33.42	+57 4.3	0.571	0.732	101.3	20.6	45 W	33*	—
8 18	8 23.54	+58 12.5	0.571	0.758	98.3	20.5	48 W	36*	—
8 20	8 13.49	+59 11.5	0.571	0.784	95.4	20.5	50 W	39*	—
8 22	8 3.34	+60 2.4	0.571	0.809	92.6	20.4	53 W	42*	—
8 24	7 53.13	+60 46.2	0.570	0.835	90.0	20.4	56 W	45*	—
8 26	7 42.88	+61 23.8	0.570	0.860	87.5	20.3	58 W	47*	—
8 28	7 32.61	+61 56.1	0.569	0.885	85.1	20.3	61 W	50*	—
8 30	7 22.29	+62 23.6	0.567	0.910	82.7	20.3	63 W	52*	—
9 1	7 11.88	+62 47.2	0.565	0.935	80.5	20.2	66 W	54*	—
9 3	7 1.36	+63 7.1	0.563	0.959	78.3	20.2	69 W	57*	—
9 5	6 50.66	+63 23.7	0.560	0.983	76.2	20.2	71 W	59*	—
9 7	6 39.74	+63 37.3	0.557	1.007	74.1	20.1	74 W	61*	—
9 9	6 28.52	+63 47.7	0.554	1.030	72.0	20.1	76 W	63*	—
9 11	6 16.96	+63 55.1	0.550	1.053	69.9	20.1	79 W	65*	—
9 13	6 5.02	+63 59.1	0.546	1.076	67.9	20.0	82 W	67*	—
9 15	5 52.65	+63 59.5	0.542	1.098	65.8	20.0	85 W	69*	—
9 17	5 39.83	+63 55.8	0.537	1.120	63.7	20.0	88 W	70*	—
9 19	5 26.58	+63 47.6	0.532	1.142	61.6	19.9	91 W	71*	—
9 21	5 12.90	+63 34.3	0.528	1.164	59.4	19.9	94 W	71	—
9 23	4 58.84	+63 15.2	0.523	1.185	57.3	19.8	97 W	72	1
9 25	4 44.46	+62 49.7	0.518	1.206	55.0	19.8	100 W	72	1
9 27	4 29.85	+62 17.1	0.514	1.226	52.8	19.7	103 W	73	2
9 29	4 15.13	+61 36.8	0.510	1.246	50.4	19.7	106 W	73	2
10 1	4 0.44	+60 48.3	0.506	1.266	48.0	19.6	110 W	74	3
10 3	3 45.90	+59 51.0	0.503	1.286	45.6	19.6	113 W	75	4
10 5	3 31.66	+58 44.8	0.500	1.305	43.1	19.5	117 W	76	5
10 7	3 17.86	+57 29.6	0.499	1.324	40.6	19.5	120 W	78	7
10 9	3 4.62	+56 5.7	0.498	1.343	38.0	19.5	124 W	79	8
10 11	2 52.05	+54 33.4	0.498	1.361	35.5	19.4	128 W	80	9
10 13	2 40.20	+52 53.4	0.499	1.379	32.9	19.4	131 W	82	11
10 15	2 29.14	+51 6.7	0.501	1.397	30.3	19.3	135 W	84	13
10 17	2 18.88	+49 14.4	0.505	1.415	27.8	19.3	138 W	86	15
10 19	2 9.44	+47 17.5	0.510	1.432	25.4	19.3	142 W	88	17
10 21	2 0.79	+45 17.4	0.516	1.449	23.2	19.3	145 W	90	19
10 23	1 52.91	+43 15.3	0.523	1.466	21.1	19.3	148 W	88	21
10 25	1 45.77	+41 12.4	0.533	1.482	19.2	19.3	151 E	86	23
10 27	1 39.32	+39 10.0	0.543	1.498	17.6	19.3	153 E	84	25
10 29	1 33.53	+37 9.1	0.555	1.514	16.3	19.3	155 E	82	27
10 31	1 28.35	+35 10.6	0.569	1.530	15.4	19.3	156 E	80	29
11 2	1 23.75	+33 15.4	0.584	1.545	14.9	19.4	156 E	78	31
11 4	1 19.68	+31 24.2	0.600	1.560	14.8	19.5	156 E	76	33
11 6	1 16.09	+29 37.4	0.618	1.575	15.1	19.6	156 E	75	34
11 8	1 12.97	+27 55.5	0.637	1.589	15.6	19.7	154 E	73	36
11 10	1 10.26	+26 18.8	0.657	1.604	16.3	19.8	153 E	71	38
11 12	1 7.95	+24 47.3	0.679	1.618	17.2	19.9	151 E	70	39
11 17	1 3.66	+21 21.9	0.737	1.652	19.6	20.2	146 E	66	43
11 22	1 1.18	+18 28.5	0.802	1.685	22.0	20.5	140 E	63	46
11 27	1 0.19	+16 4.2	0.872	1.716	24.1	20.8	135 E	61	48
12 2	1 0.41	+14 5.7	0.946	1.746	25.9	21.1	129 E	59	50
12 7	1 1.67	+12 29.4	1.024	1.774	27.4	21.3	124 E	57	52

513165 2004 CK_{39}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 4	9 31.47	+18 12.2	2.183	1.189	7.2	21.5	8 E	—	1*
8 9	9 45.44	+16 37.2	2.112	1.113	6.6	21.3	7 E	—	—
8 14	10 0.19	+14 51.7	2.037	1.036	6.2	21.0	6 E	—	—
8 19	10 15.82	+12 54.1	1.958	0.956	5.9	20.7	6 E	—	—
8 24	10 32.49	+10 42.6	1.876	0.874	6.1	20.4	5 E	—	—
8 29	10 50.40	+ 8 15.2	1.791	0.791	6.8	20.2	5 E	—	—
9 3	11 9.79	+ 5 29.6	1.701	0.706	8.4	19.9	6 E	—	—
9 8	11 30.99	+ 2 23.8	1.608	0.621	11.7	19.6	7 E	—	1*
9 13	11 54.37	− 1 3.7	1.508	0.539	17.2	19.4	9 E	—	3*
9 18	12 20.35	− 4 51.9	1.401	0.465	26.3	19.2	12 E	—	6*
9 23	12 49.17	− 8 53.9	1.282	0.410	40.1	19.1	15 E	—	9*
9 25	13 1.47	−10 31.1	1.231	0.396	46.9	19.1	17 E	—	10*
9 27	13 14.14	−12 6.3	1.178	0.388	54.3	19.2	18 E	—	12*
9 29	13 27.15	−13 37.9	1.124	0.386	61.9	19.3	20 E	—	14*
10 1	13 40.44	−15 4.5	1.070	0.391	69.4	19.4	21 E	—	15*
10 3	13 54.00	−16 25.0	1.015	0.402	76.5	19.6	23 E	—	17*
10 5	14 7.86	−17 38.8	0.962	0.418	82.9	19.8	25 E	—	18*
10 7	14 22.09	−18 45.6	0.910	0.440	88.4	20.0	26 E	—	20*
10 9	14 36.79	−19 45.3	0.861	0.465	92.9	20.2	28 E	1*	22*
10 11	14 52.08	−20 38.0	0.814	0.492	96.5	20.4	29 E	2*	23*
10 13	15 8.10	−21 23.5	0.771	0.522	99.2	20.5	31 E	3*	25*
10 15	15 24.99	−22 1.4	0.730	0.554	101.0	20.6	33 E	4*	27*
10 17	15 42.84	−22 31.2	0.693	0.587	102.0	20.7	35 E	6*	29*
10 19	16 1.75	−22 51.8	0.660	0.620	102.2	20.7	37 E	7*	31*
10 21	16 21.76	−23 2.1	0.630	0.654	101.7	20.7	40 E	9*	34*
10 23	16 42.83	−23 0.8	0.604	0.688	100.5	20.6	43 E	11*	37*
10 25	17 4.88	−22 46.5	0.583	0.722	98.8	20.6	46 E	13*	39*
10 27	17 27.72	−22 18.4	0.566	0.756	96.5	20.5	49 E	15*	42*
10 29	17 51.08	−21 35.8	0.553	0.789	93.8	20.4	52 E	18*	45*
10 31	18 14.66	−20 39.0	0.544	0.823	90.8	20.4	56 E	20*	48*
11 2	18 38.08	−19 29.3	0.541	0.857	87.4	20.3	60 E	23*	51*
11 4	19 1.02	−18 8.4	0.542	0.890	84.0	20.3	63 E	25*	54*
11 6	19 23.17	−16 39.0	0.547	0.923	80.5	20.2	67 E	27*	56*
11 8	19 44.28	−15 3.9	0.556	0.955	77.0	20.2	70 E	29*	58*
11 10	20 4.19	−13 26.0	0.569	0.987	73.6	20.2	73 E	31*	59*
11 12	20 22.82	−11 47.8	0.586	1.019	70.3	20.2	76 E	33*	61*
11 14	20 40.15	−10 11.3	0.606	1.050	67.3	20.3	78 E	35	61*
11 16	20 56.19	− 8 38.1	0.629	1.082	64.4	20.3	81 E	36	61*
11 18	21 11.02	− 7 9.1	0.655	1.112	61.8	20.4	83 E	38	61*
11 20	21 24.71	− 5 44.9	0.683	1.143	59.3	20.5	84 E	39	61*
11 22	21 37.36	− 4 25.8	0.712	1.173	57.1	20.6	86 E	41	61*
11 27	22 5.04	− 1 29.9	0.795	1.247	52.3	20.8	88 E	44	59*
12 2	22 28.17	+ 0 58.0	0.885	1.318	48.4	21.1	89 E	46	57*
12 7	22 47.87	+ 3 3.1	0.981	1.388	45.2	21.3	90 E	48	55*
12 12	23 4.99	+ 4 50.3	1.083	1.456	42.6	21.5	89 E	50	52*

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21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	9 34.07	+14 57.5	3.327	2.332	4.1	21.4	9 E	—	3*
8 14	9 52.62	+13 31.6	3.306	2.298	2.0	21.2	5 E	—	—
8 24	10 11.39	+11 58.6	3.274	2.263	0.3	21.0	1 E	—	—
9 3	10 30.37	+10 19.1	3.231	2.228	2.3	21.1	5 W	—	—
9 13	10 49.57	+ 8 33.5	3.177	2.192	4.4	21.2	10 W	3*	—
9 23	11 9.01	+ 6 42.7	3.114	2.156	6.6	21.2	14 W	8*	2*
10 3	11 28.73	+ 4 47.3	3.042	2.119	8.8	21.2	19 W	12*	5*
10 13	11 48.76	+ 2 48.3	2.961	2.083	10.9	21.2	23 W	16*	8*
10 23	12 9.14	+ 0 46.6	2.874	2.046	13.1	21.2	28 W	20*	11*
11 2	12 29.93	− 1 16.7	2.779	2.010	15.2	21.2	32 W	23*	14*
11 12	12 51.19	− 3 20.3	2.680	1.974	17.4	21.1	36 W	26*	18*
11 22	13 12.95	− 5 22.9	2.575	1.938	19.4	21.1	41 W	29*	22*
12 2	13 35.30	− 7 23.0	2.467	1.902	21.5	21.0	45 W	30*	26*
12 12	13 58.27	− 9 18.8	2.357	1.867	23.5	20.9	49 W	31*	31*
12 22	14 21.89	−11 8.7	2.245	1.834	25.4	20.8	53 W	31*	36*
1 1	14 46.19	−12 50.8	2.132	1.801	27.3	20.7	57 W	31*	41*
1 11	15 11.17	−14 22.9	2.020	1.769	29.1	20.6	61 W	30*	47*
1 21	15 36.77	−15 43.4	1.909	1.740	30.8	20.5	65 W	29*	52*

31845 2000 DK_{17}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	9 35.19	+14 14.1	3.583	2.590	3.9	21.5	10 E	—	4*
8 14	9 51.51	+12 55.8	3.584	2.575	1.8	21.3	4 E	—	—
8 24	10 7.83	+11 32.6	3.571	2.560	0.4	21.2	1 W	—	—
9 3	10 24.16	+10 5.2	3.543	2.543	2.5	21.3	6 W	—	—
9 13	10 40.46	+ 8 34.2	3.502	2.525	4.6	21.4	12 W	5*	2*
9 23	10 56.74	+ 7 0.3	3.448	2.507	6.8	21.5	17 W	10*	5*

387793 2003 WL_{25}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	9 41.12	− 2 49.3	3.106	2.208	10.3	21.3	23 E	—	13*
8 14	9 57.77	− 4 11.6	3.045	2.117	9.2	21.2	20 E	—	7*
8 24	10 15.45	− 5 45.7	2.969	2.023	8.4	21.0	17 E	—	2*
9 3	10 34.30	− 7 31.8	2.879	1.926	8.1	20.8	16 W	—	4*
9 13	10 54.52	− 9 29.9	2.777	1.826	8.3	20.6	15 W	—	6*

387793 2003 WL_{25} *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
9 23	11 16.35	−11 39.8	2.664	1.721	9.2	20.4	16 W	—	9*
10 3	11 40.19	−14 1.0	2.543	1.613	10.5	20.2	17 W	—	11*
10 13	12 6.54	−16 32.0	2.415	1.501	12.1	20.0	18 W	—	12*
10 18	12 20.85	−17 50.4	2.350	1.444	12.9	19.9	19 W	—	13*
10 23	12 36.05	−19 10.0	2.284	1.386	13.8	19.8	19 W	1*	13*
10 28	12 52.26	−20 30.0	2.218	1.327	14.7	19.7	20 W	1*	14*
11 2	13 9.60	−21 49.4	2.153	1.267	15.5	19.5	20 W	1*	14*
11 7	13 28.20	−23 7.0	2.089	1.206	16.3	19.4	20 W	1*	14*
11 12	13 48.21	−24 20.9	2.026	1.145	17.1	19.2	20 W	1*	14*
11 17	14 9.77	−25 29.0	1.965	1.084	17.6	19.1	19 W	1*	13*
11 22	14 32.99	−26 28.4	1.908	1.022	18.0	18.9	19 W	1*	13*
11 27	14 57.97	−27 15.9	1.853	0.961	18.2	18.7	18 W	—	12*
12 2	15 24.75	−27 47.7	1.803	0.901	18.0	18.5	16 W	—	10*
12 7	15 53.28	−27 59.7	1.758	0.843	17.3	18.3	15 W	—	9*
12 12	16 23.41	−27 47.6	1.717	0.788	16.0	18.0	13 W	—	7*
12 17	16 54.86	−27 7.8	1.682	0.737	14.0	17.8	10 W	—	4*
12 22	17 27.28	−25 57.6	1.653	0.692	11.2	17.5	8 W	—	2*
12 27	18 0.24	−24 16.0	1.630	0.656	7.7	17.2	5 W	—	—
1 1	18 33.28	−22 4.2	1.611	0.631	4.3	16.9	3 W	—	—
1 6	19 5.98	−19 25.8	1.599	0.619	5.0	16.9	3 W	—	—
1 11	19 37.98	−16 26.6	1.591	0.621	9.4	17.1	6 E	—	—
1 16	20 9.00	−13 13.2	1.590	0.637	14.0	17.3	9 E	3*	—
1 21	20 38.91	− 9 52.8	1.595	0.666	18.1	17.6	12 E	6*	—

168710 2000 HE_{41}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	9 43.45	+18 35.0	3.631	2.643	4.3	21.5	11 E	2*	3*
8 14	9 59.86	+17 20.4	3.637	2.634	2.6	21.4	7 E	—	—
8 24	10 16.24	+16 1.9	3.628	2.623	1.9	21.3	5 E	—	—
9 3	10 32.57	+14 40.4	3.606	2.611	3.1	21.4	8 W	2*	—
9 13	10 48.86	+13 16.3	3.570	2.598	4.9	21.5	13 W	7*	—

249799 2000 YX_{81}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	9 54.70	+11 10.5	3.397	2.434	6.4	21.5	15 E	—	9*
8 14	10 11.83	+ 9 35.5	3.450	2.461	4.3	21.4	10 E	—	4*
8 24	10 28.62	+ 7 57.8	3.491	2.486	2.2	21.3	5 E	—	—
9 3	10 45.07	+ 6 18.1	3.519	2.511	0.6	21.2	2 W	—	—
9 13	11 1.21	+ 4 37.0	3.534	2.535	2.2	21.4	6 W	—	—

153460 2001 RN

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	10 0.39	+ 9 0.7	1.686	0.783	23.2	21.3	18 E	—	12*
8 14	10 45.46	+ 6 4.2	1.560	0.692	29.1	21.0	19 E	—	13*
8 24	11 35.20	+ 2 41.1	1.424	0.624	38.3	20.9	22 E	2*	16*
9 3	12 29.54	− 0 57.6	1.281	0.593	50.1	20.9	27 E	6*	21*
9 13	13 28.04	− 4 37.5	1.142	0.610	61.6	21.0	32 E	10*	26*
9 23	14 30.55	− 8 5.8	1.023	0.668	69.2	21.2	38 E	14*	31*
10 3	15 37.23	−11 8.6	0.940	0.753	71.5	21.4	46 E	18*	38*
10 13	16 46.84	−13 24.0	0.903	0.852	69.2	21.5	53 E	23*	44*

306857 2001 SR_{169}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	10 27.94	+22 50.0	3.726	2.813	7.8	21.5	22 E	13*	10*
8 14	10 41.78	+20 47.1	3.722	2.771	6.2	21.4	17 E	10*	5*
8 24	10 55.82	+18 41.7	3.704	2.729	4.8	21.2	13 E	7*	—
9 3	11 10.04	+16 33.7	3.672	2.686	3.9	21.1	10 E	4*	—
9 13	11 24.44	+14 23.3	3.625	2.642	4.0	21.1	10 E	2*	—
9 23	11 38.97	+12 10.4	3.564	2.597	5.0	21.1	13 W	6*	—
10 3	11 53.66	+ 9 55.1	3.489	2.551	6.7	21.1	17 W	11*	—
10 13	12 8.50	+ 7 37.4	3.401	2.505	8.6	21.0	22 W	16*	1*
10 23	12 23.48	+ 5 17.5	3.301	2.458	10.6	21.0	27 W	21*	6*
11 2	12 38.62	+ 2 55.1	3.189	2.410	12.7	21.0	32 W	25*	10*
11 12	12 53.91	+ 0 30.3	3.066	2.362	14.8	20.9	38 W	29*	15*
11 22	13 9.38	− 1 57.0	2.934	2.313	17.0	20.9	43 W	32*	21*
12 2	13 25.02	− 4 27.3	2.793	2.264	19.0	20.8	49 W	34*	27*
12 12	13 40.85	− 7 1.0	2.645	2.215	21.1	20.7	54 W	35*	34*
12 22	13 56.86	− 9 38.8	2.491	2.165	23.0	20.6	59 W	34*	41*
1 1	14 13.08	−12 21.8	2.334	2.115	24.9	20.4	65 W	32*	49*
1 11	14 29.50	−15 11.3	2.174	2.066	26.7	20.3	71 W	30*	56*
1 21	14 46.14	−18 9.0	2.014	2.017	28.3	20.1	76 W	27	64*

423022 2003 TJ_{2}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	10 33.58	+ 4 57.6	1.880	1.077	25.2	21.5	27 E	1*	21*
8 14	11 1.93	+ 0 44.6	1.808	0.996	26.1	21.3	26 E	—	20*
8 24	11 32.71	− 3 51.0	1.724	0.917	28.1	21.0	25 E	—	19*
9 3	12 6.79	− 8 46.5	1.628	0.841	31.3	20.8	26 E	—	19*
9 13	12 45.34	−13 53.6	1.523	0.775	36.1	20.6	27 E	—	20*
9 23	13 29.74	−18 55.0	1.411	0.724	42.4	20.5	29 E	—	22*
9 28	13 54.58	−21 14.7	1.354	0.707	46.1	20.5	31 E	—	23*
10 3	14 21.37	−23 20.6	1.297	0.697	49.8	20.4	32 E	—	25*
10 8	14 50.14	−25 7.0	1.242	0.693	53.5	20.4	34 E	—	27*
10 13	15 20.80	−26 28.1	1.189	0.697	56.9	20.5	36 E	1*	29*
10 18	15 53.12	−27 18.4	1.141	0.708	59.9	20.5	38 E	3*	32*

423022 2003 TJ_2 *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 23	16 26.68	−27 33.5	1.098	0.725	62.3	20.5	40 E	5*	34*
10 28	17 0.92	−27 10.9	1.062	0.748	63.9	20.6	43 E	8*	37*
11 2	17 35.23	−26 10.5	1.033	0.776	64.7	20.6	45 E	11*	39*
11 7	18 8.98	−24 34.6	1.013	0.808	64.8	20.7	48 E	15*	41*
11 12	18 41.61	−22 28.0	1.002	0.843	64.2	20.7	50 E	18*	42*
11 17	19 12.73	−19 56.9	0.999	0.880	63.1	20.8	53 E	22*	43*
11 22	19 42.10	−17 8.5	1.006	0.919	61.6	20.8	55 E	25*	43*
11 27	20 9.65	−14 10.0	1.020	0.959	59.7	20.9	57 E	29*	43*
12 2	20 35.41	−11 7.4	1.042	0.999	57.7	21.0	59 E	32*	42*
12 7	20 59.48	− 8 5.7	1.071	1.039	55.6	21.1	61 E	35*	41*
12 12	21 22.01	− 5 8.6	1.106	1.079	53.5	21.1	62 E	39*	40*
12 17	21 43.16	− 2 18.6	1.147	1.119	51.5	21.2	63 E	41*	38*
12 22	22 3.07	+ 0 23.0	1.192	1.159	49.5	21.3	64 E	44*	36*
12 27	22 21.91	+ 2 55.3	1.241	1.197	47.5	21.5	64 E	46*	34*

243618 1999 JU_{61}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	10 35.93	+ 2 58.4	3.462	2.614	10.6	21.5	28 E	—	22*
8 14	10 51.10	+ 1 37.9	3.480	2.577	8.8	21.4	23 E	—	17*
8 24	11 6.71	+ 0 11.6	3.485	2.540	6.9	21.2	18 E	—	11*
9 3	11 22.75	− 1 19.9	3.477	2.501	5.0	21.1	13 E	—	6*
9 13	11 39.22	− 2 56.0	3.455	2.462	3.2	21.0	8 E	—	—
9 23	11 56.13	− 4 36.0	3.421	2.423	2.0	20.8	5 W	—	—
10 3	12 13.50	− 6 19.0	3.375	2.382	2.5	20.8	6 W	—	—
10 13	12 31.35	− 8 4.3	3.317	2.341	4.3	20.8	10 W	1*	3*
10 23	12 49.72	− 9 50.7	3.248	2.300	6.4	20.9	15 W	5*	7*
11 2	13 8.65	−11 37.3	3.168	2.258	8.5	20.9	20 W	9*	10*
11 12	13 28.18	−13 22.9	3.079	2.216	10.7	20.8	24 W	13*	14*
11 22	13 48.35	−15 6.1	2.981	2.174	12.8	20.8	29 W	16*	18*
12 2	14 9.22	−16 45.6	2.875	2.131	15.0	20.8	34 W	18*	22*
12 12	14 30.83	−18 19.7	2.763	2.088	17.2	20.7	39 W	20*	27*
12 22	14 53.20	−19 46.6	2.645	2.046	19.3	20.6	43 W	21*	32*
1 1	15 16.37	−21 4.6	2.523	2.003	21.4	20.6	48 W	21*	37*
1 11	15 40.32	−22 11.6	2.398	1.961	23.4	20.5	53 W	21*	43*
1 21	16 5.02	−23 5.4	2.271	1.920	25.4	20.4	57 W	20*	48*

434113 2002 PV_{68}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	11 17.11	− 1 36.0	2.294	1.644	23.1	21.5	40 E	4*	34*
8 14	11 41.55	− 3 51.9	2.312	1.615	21.9	21.4	37 E	3*	30*
8 24	12 6.86	− 6 12.9	2.327	1.587	20.6	21.4	34 E	2*	28*
9 3	12 33.10	− 8 36.5	2.341	1.563	19.3	21.3	31 E	1*	25*
9 13	13 0.32	−10 59.9	2.353	1.542	18.0	21.2	28 E	—	22*
9 23	13 28.56	−13 19.8	2.365	1.525	16.6	21.2	26 E	—	20*
10 3	13 57.85	−15 32.7	2.377	1.511	15.2	21.1	23 E	—	17*
10 13	14 28.18	−17 35.0	2.390	1.501	13.8	21.1	21 E	—	15*
10 23	14 59.47	−19 22.6	2.404	1.496	12.3	21.0	19 E	—	13*
11 2	15 31.63	−20 52.2	2.421	1.494	10.7	21.0	16 E	—	10*
11 12	16 4.46	−22 0.6	2.439	1.497	9.2	20.9	14 E	—	8*
11 22	16 37.70	−22 45.2	2.459	1.504	7.5	20.9	12 E	—	5*
12 2	17 11.06	−23 4.6	2.481	1.516	5.9	20.8	9 E	—	2*
12 12	17 44.20	−22 58.2	2.505	1.531	4.2	20.8	7 E	—	—
12 22	18 16.80	−22 26.6	2.530	1.550	2.5	20.7	4 E	—	—
1 1	18 48.59	−21 31.5	2.555	1.572	1.1	20.7	2 E	—	—
1 11	19 19.34	−20 14.9	2.579	1.597	1.6	20.8	3 W	—	—
1 21	19 48.88	−18 39.7	2.602	1.626	3.3	21.0	5 W	—	—

289022 2004 TN_{115}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	11 54.88	+15 55.7	3.502	2.842	14.0	21.5	43 E	23*	30*
8 14	12 6.90	+13 54.1	3.558	2.816	12.5	21.4	37 E	20*	26*
8 24	12 19.46	+11 52.1	3.601	2.788	10.9	21.4	31 E	17*	21*
9 3	12 32.49	+ 9 49.9	3.631	2.759	9.2	21.3	26 E	14*	16*
9 13	12 45.98	+ 7 47.8	3.647	2.730	7.5	21.2	21 E	11*	11*
9 23	12 59.87	+ 5 46.3	3.649	2.699	5.9	21.1	16 E	9*	5*
10 3	13 14.17	+ 3 45.7	3.637	2.668	4.6	21.0	12 E	6*	—
10 13	13 28.84	+ 1 46.4	3.611	2.636	3.9	21.0	10 E	4*	—
10 23	13 43.87	− 0 11.1	3.571	2.603	4.3	20.9	11 W	3*	—
11 2	13 59.27	− 2 6.4	3.518	2.569	5.5	20.9	14 W	8*	—
11 12	14 15.01	− 3 59.0	3.450	2.534	7.3	20.9	19 W	13*	—
11 22	14 31.09	− 5 48.5	3.370	2.499	9.2	20.9	24 W	17*	4*
12 2	14 47.49	− 7 34.5	3.278	2.462	11.2	20.9	29 W	21*	10*
12 12	15 4.20	− 9 16.6	3.174	2.426	13.2	20.9	34 W	24*	16*
12 22	15 21.18	−10 54.6	3.059	2.388	15.3	20.9	40 W	26*	23*
1 1	15 38.43	−12 28.4	2.934	2.350	17.3	20.8	45 W	27*	30*
1 11	15 55.88	−13 57.9	2.801	2.311	19.3	20.7	51 W	27*	37*
1 21	16 13.49	−15 23.4	2.661	2.272	21.2	20.6	57 W	27*	44*

388567 2007 QX_{14}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	12 6.41	− 1 45.7	1.892	1.474	32.1	21.5	51 E	13*	44*
8 14	12 30.67	− 4 47.6	1.895	1.427	31.7	21.4	48 E	10*	42*
8 24	12 56.66	− 7 56.3	1.893	1.385	31.3	21.3	45 E	9*	39*
9 3	13 24.54	−11 8.3	1.890	1.347	30.9	21.3	43 E	8*	37*
9 13	13 54.47	−14 19.2	1.887	1.316	30.5	21.2	42 E	7*	36*
9 23	14 26.60	−17 23.2	1.885	1.291	30.1	21.1	40 E	6*	34*

388567 2007 QX_{14} *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 3	15 1.01	−20 13.3	1.886	1.275	29.6	21.1	39 E	6*	33*
10 13	15 37.66	−22 42.0	1.893	1.266	29.0	21.1	38 E	6*	32*
10 23	16 16.29	−24 41.4	1.907	1.266	28.4	21.1	37 E	6*	31*
11 2	16 56.45	−26 4.4	1.928	1.274	27.5	21.1	36 E	7*	30*
11 12	17 37.44	−26 46.4	1.960	1.290	26.5	21.1	36 E	8*	29*
11 22	18 18.40	−26 45.4	2.001	1.315	25.3	21.2	35 E	9*	28*
12 2	18 58.51	−26 3.1	2.052	1.346	23.9	21.2	34 E	10*	26*
12 12	19 37.09	−24 43.9	2.112	1.383	22.3	21.3	32 E	12*	24*
12 22	20 13.64	−22 54.1	2.181	1.425	20.6	21.4	31 E	13*	21*
1 1	20 47.96	−20 40.8	2.257	1.472	18.7	21.5	29 E	13*	19*

518847 2010 DM

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	12 37.56	+ 0 42.8	1.200	1.067	52.8	21.4	57 E	20*	49*
8 14	12 44.73	− 0 41.0	1.128	0.902	58.6	21.0	50 E	16*	42*
8 24	12 51.04	− 2 8.0	1.020	0.726	68.4	20.7	42 E	12*	35*
9 3	12 50.49	− 3 14.2	0.872	0.542	87.7	20.4	32 E	8*	26*
9 5	12 48.25	− 3 19.1	0.839	0.506	93.9	20.4	30 E	7*	24*
9 7	12 44.73	− 3 18.5	0.805	0.471	101.2	20.5	27 E	5*	21*
9 9	12 39.59	− 3 10.6	0.771	0.438	109.9	20.7	24 E	4*	18*
9 11	12 32.45	− 2 52.9	0.739	0.406	120.3	21.2	20 E	2*	14*

523788 2015 FP_{118}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	13 21.57	− 5 22.5	0.849	1.069	62.7	21.4	69 E	22*	61*
8 14	13 49.32	− 7 46.8	0.803	1.018	66.4	21.3	67 E	21*	59*
8 24	14 21.30	−10 22.7	0.749	0.981	70.1	21.2	66 E	20*	59*
9 3	14 58.32	−13 5.2	0.691	0.958	73.4	21.1	66 E	20*	59*
9 13	15 41.64	−15 46.8	0.633	0.954	75.7	20.9	67 E	20*	60*
9 23	16 32.66	−18 12.0	0.581	0.967	76.3	20.8	69 E	21*	63*
10 3	17 32.22	−19 55.0	0.544	0.997	74.6	20.7	74 E	22*	67*
10 13	18 38.93	−20 21.2	0.527	1.041	70.6	20.6	80 E	24*	72*
10 23	19 47.78	−19 7.5	0.537	1.096	64.9	20.5	86 E	26	76*
11 2	20 52.21	−16 26.5	0.577	1.160	58.8	20.6	91 E	29	78*
11 12	21 48.10	−12 57.7	0.645	1.230	53.2	20.8	95 E	32	76*
11 22	22 34.83	− 9 18.9	0.737	1.305	48.7	21.1	97 E	36	72*
12 2	23 13.81	− 5 50.8	0.849	1.381	45.1	21.5	97 E	39	68*

529189 2009 SA_{209}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	21 42.29	+17 35.4	2.454	3.323	10.5	22.7	143 W	63	46
8 14	21 34.26	+16 48.5	2.394	3.302	9.2	22.6	149 W	62	47
8 24	21 26.01	+15 37.4	2.359	3.280	8.6	22.5	151 E	61	48
9 3	21 18.25	+14 5.7	2.351	3.257	9.2	22.5	149 E	59	50
9 13	21 11.68	+12 19.1	2.369	3.233	10.7	22.6	143 E	57	52

52340 1992 SY

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	21 53.32	−21 44.9	2.249	3.242	4.4	22.5	166 W	23	86
8 9	21 48.02	−22 9.5	2.227	3.230	3.1	22.4	170 W	23	86
8 14	21 42.49	−22 32.7	2.213	3.218	2.6	22.3	172 W	22	87
8 19	21 36.86	−22 53.8	2.206	3.206	3.4	22.4	169 E	22	87
8 24	21 31.25	−23 12.4	2.207	3.193	4.8	22.5	165 E	22	87
8 29	21 25.76	−23 27.9	2.215	3.180	6.4	22.5	159 E	22	87
9 3	21 20.53	−23 40.2	2.231	3.167	8.1	22.6	154 E	21	88

162695 2000 UL_{11}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	21 53.76	−13 28.0	2.254	3.247	4.5	24.8	166 W	32	77
8 14	21 43.02	−14 20.3	2.206	3.219	0.7	24.5	178 W	31	78
8 24	21 31.77	−15 12.2	2.189	3.189	3.3	24.6	170 E	30	79
9 3	21 20.92	−15 59.3	2.203	3.157	7.1	24.8	157 E	29	80
9 13	21 11.36	−16 38.0	2.245	3.124	10.6	25.0	145 E	28	81

416032 2002 EX_{11}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 4.91	− 8 50.9	1.679	2.660	7.0	24.6	161 W	36	73
8 9	21 59.51	− 9 21.3	1.660	2.659	4.8	24.4	167 W	36	73
8 14	21 53.82	− 9 53.7	1.649	2.658	2.5	24.3	173 W	35	74
8 19	21 47.99	−10 27.1	1.645	2.656	1.0	24.2	177 E	35	74
8 24	21 42.15	−11 0.8	1.648	2.655	2.7	24.3	173 E	34	75
8 29	21 36.46	−11 33.8	1.659	2.652	5.0	24.4	167 E	33	76
9 3	21 31.05	−12 5.4	1.677	2.649	7.3	24.6	161 E	33	76

523638 2010 MQ_1

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 5.76	+40 1.4	1.387	2.092	24.7	23.9	120 W	85	24
8 9	21 55.96	+40 42.9	1.395	2.121	23.8	23.9	123 W	86	23
8 14	21 45.92	+41 7.6	1.407	2.149	22.9	23.9	124 W	86	23
8 19	21 35.93	+41 15.8	1.424	2.176	22.2	23.9	126 E	86	23
8 24	21 26.30	+41 8.2	1.445	2.203	21.6	24.0	127 E	86	23
8 29	21 17.29	+40 46.3	1.470	2.229	21.2	24.0	127 E	86	23
9 3	21 9.12	+40 11.7	1.499	2.255	20.9	24.1	127 E	85	24

419829 2010 XK_{52}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 4	22 7.08	+ 1 57.1	2.937	3.874	6.6	23.7	154 W	47	62
8 14	21 58.90	+ 1 39.6	2.886	3.865	4.5	23.5	163 W	47	62
8 24	21 50.30	+ 1 12.0	2.865	3.855	3.5	23.5	167 E	46	63
9 3	21 41.85	+ 0 37.0	2.873	3.844	4.7	23.5	162 E	46	63
9 13	21 34.18	− 0 2.4	2.911	3.831	7.0	23.7	152 E	45	64

476093 2007 TC_{66}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 7.90	−21 35.3	2.529	3.510	5.0	24.7	163 W	23	86
8 9	22 2.77	−22 11.4	2.509	3.505	3.7	24.6	167 W	23	86
8 14	21 57.39	−22 46.3	2.497	3.499	2.9	24.5	170 W	22	87
8 19	21 51.87	−23 19.3	2.493	3.493	3.0	24.5	170 E	22	87
8 24	21 46.30	−23 49.8	2.496	3.486	4.0	24.6	166 E	21	88
8 29	21 40.80	−24 17.4	2.508	3.479	5.4	24.6	161 E	21	88
9 3	21 35.48	−24 41.5	2.527	3.471	6.9	24.7	156 E	20	89

468481 2004 TP_{20}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 9.06	+38 36.3	0.948	1.713	30.3	22.4	122 W	84	25
8 9	22 2.31	+39 5.3	0.912	1.700	29.7	22.2	124 W	84	25
8 14	21 54.58	+39 16.8	0.878	1.686	29.1	22.1	126 W	84	25
8 19	21 46.08	+39 8.6	0.846	1.672	28.5	22.0	128 E	84	25
8 24	21 37.10	+38 38.8	0.818	1.656	28.1	21.9	130 E	84	25
8 29	21 27.99	+37 46.0	0.792	1.640	27.9	21.8	131 E	83	26
9 3	21 19.11	+36 29.5	0.770	1.623	27.9	21.7	131 E	81	28
9 8	21 10.86	+34 49.9	0.751	1.605	28.2	21.7	131 E	80	29
9 13	21 3.58	+32 48.9	0.736	1.587	28.8	21.6	131 E	78	31

189173 2002 XY_{4}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 10.16	+50 11.0	2.201	2.728	20.4	23.8	111 W	85	14
8 9	22 2.07	+50 41.9	2.187	2.741	20.0	23.8	113 W	84	13
8 14	21 53.52	+51 1.2	2.176	2.754	19.6	23.8	114 W	84	13
8 19	21 44.72	+51 8.4	2.168	2.766	19.2	23.8	116 E	84	13
8 24	21 35.91	+51 3.3	2.164	2.777	18.9	23.8	117 E	84	13
8 29	21 27.32	+50 46.3	2.164	2.788	18.6	23.8	118 E	84	13
9 3	21 19.18	+50 17.9	2.167	2.798	18.4	23.8	119 E	85	14

446935 2002 XZ_{38}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 12.68	+19 14.6	2.365	3.200	12.0	23.2	139 W	64	45
8 14	22 3.16	+19 20.2	2.297	3.184	10.4	23.1	145 W	64	45
8 24	21 52.83	+19 0.5	2.254	3.167	9.3	23.0	149 E	64	45
9 3	21 42.53	+18 16.6	2.237	3.148	9.4	23.0	149 E	63	46
9 13	21 33.12	+17 12.4	2.247	3.128	10.5	23.0	145 E	62	47

523614 2006 TH_{7}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 13.99	− 5 1.1	3.431	4.385	5.1	25.4	157 W	40	69
8 14	22 5.92	− 5 53.1	3.363	4.360	2.7	25.2	168 W	39	70
8 24	21 57.31	− 6 50.7	3.326	4.334	1.3	25.1	174 E	38	71
9 3	21 48.68	− 7 50.6	3.323	4.306	3.4	25.2	165 E	37	72
9 13	21 40.56	− 8 49.6	3.351	4.277	5.9	25.3	154 E	36	73

217628 Lugh

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 14.08	− 7 48.4	3.097	4.060	5.2	22.5	159 W	37	72
8 14	22 5.97	− 8 34.8	3.031	4.033	2.4	22.3	170 W	36	73
8 24	21 57.27	− 9 25.3	2.996	4.005	1.0	22.1	176 E	36	73
9 3	21 48.54	−10 16.8	2.993	3.976	3.7	22.3	165 E	35	74
9 13	21 40.40	−11 5.7	3.020	3.946	6.6	22.5	153 E	34	75

153792 2001 VH_{75}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 17.98	+ 1 58.1	2.573	3.502	7.8	23.4	152 W	47	62
8 14	22 7.88	+ 1 19.7	2.546	3.524	5.1	23.3	162 W	46	63
8 24	21 57.36	+ 0 30.4	2.550	3.545	3.5	23.2	168 E	46	63
9 3	21 47.14	− 0 25.7	2.586	3.564	4.7	23.3	163 E	45	64
9 13	21 37.95	− 1 24.4	2.653	3.581	7.2	23.5	153 E	44	65

524443 2002 DA_{4}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 22.60	−48 52.3	2.525	3.398	10.1	22.7	144 W	—	67
8 9	22 16.53	−49 19.8	2.509	3.385	10.1	22.7	144 W	—	67
8 14	22 10.04	−49 41.2	2.499	3.372	10.2	22.7	144 W	—	66
8 19	22 3.30	−49 55.8	2.495	3.358	10.5	22.7	143 W	—	66
8 24	21 56.45	−50 3.1	2.497	3.344	11.0	22.7	141 E	—	66
8 29	21 49.68	−50 2.9	2.506	3.331	11.6	22.7	139 E	—	66
9 3	21 43.15	−49 55.1	2.519	3.316	12.3	22.7	136 E	—	66
9 8	21 37.03	−49 40.0	2.539	3.302	13.0	22.8	132 E	—	66

415986 2002 AT_{5}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 26.17	−12 39.4	3.155	4.112	5.4	24.1	158 W	32	77
8 14	22 17.71	−13 0.0	3.118	4.118	2.6	23.9	169 W	32	77
8 24	22 8.71	−13 20.8	3.112	4.123	0.5	23.7	178 E	32	77
9 3	21 59.77	−13 39.0	3.138	4.126	3.2	24.0	167 E	31	78
9 13	21 51.47	−13 52.6	3.194	4.129	5.9	24.2	155 E	31	78

378358 2007 LD

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 4	22 26.77	+19 14.4	1.347	2.202	18.2	22.6	137 W	64	45
8 9	22 20.76	+18 59.8	1.334	2.220	16.5	22.5	142 W	64	45
8 14	22 14.36	+18 34.7	1.326	2.236	14.9	22.5	146 W	64	45
8 19	22 7.75	+17 59.4	1.324	2.252	13.4	22.5	149 W	63	46
8 24	22 1.12	+17 14.6	1.328	2.268	12.3	22.4	151 E	62	47
8 29	21 54.67	+16 21.5	1.338	2.283	11.7	22.4	153 E	61	48
9 3	21 48.57	+15 21.5	1.354	2.298	11.6	22.5	153 E	60	49
9 8	21 42.99	+14 16.1	1.377	2.312	12.1	22.5	151 E	59	50

162195 1999 RK_{45}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 27.61	−14 5.3	1.377	2.347	9.4	22.4	158 W	31	78
8 9	22 20.20	−15 1.8	1.326	2.318	6.8	22.1	164 W	30	79
8 14	22 11.84	−16 1.9	1.283	2.288	4.1	21.9	171 W	29	80
8 19	22 2.67	−17 3.9	1.247	2.257	2.2	21.7	175 W	28	81
8 24	21 52.86	−18 6.0	1.220	2.225	3.7	21.7	172 E	27	82
8 29	21 42.66	−19 6.4	1.201	2.192	6.8	21.8	165 E	26	83
9 3	21 32.34	−20 3.1	1.190	2.158	10.1	21.9	158 E	25	84
9 8	21 22.20	−20 54.6	1.186	2.123	13.4	22.0	151 E	24	85
9 13	21 12.54	−21 39.7	1.189	2.086	16.6	22.1	144 E	23	86
9 18	21 3.62	−22 17.8	1.199	2.049	19.7	22.1	137 E	23	86

455199 2000 YK_{4}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 29.95	+26 40.6	1.496	2.288	19.7	23.5	130 W	72	37
8 9	22 23.42	+27 22.1	1.467	2.288	18.7	23.4	134 W	72	37
8 14	22 16.25	+27 53.3	1.443	2.287	17.8	23.3	136 W	73	36
8 19	22 8.59	+28 13.3	1.425	2.285	17.0	23.3	139 W	73	36
8 24	22 0.65	+28 21.7	1.412	2.283	16.4	23.2	140 E	73	36
8 29	21 52.65	+28 18.2	1.404	2.280	16.1	23.2	141 E	73	36
9 3	21 44.79	+28 3.0	1.402	2.277	16.1	23.2	141 E	73	36
9 8	21 37.32	+27 37.1	1.405	2.274	16.4	23.2	140 E	73	36

159677 2002 HQ_{11}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 32.89	− 7 54.9	1.484	2.440	10.3	22.9	155 W	37	72
8 14	22 21.71	− 9 18.3	1.392	2.390	5.4	22.4	167 W	36	73
8 24	22 8.18	−10 56.2	1.327	2.338	0.3	21.9	179 E	34	75
9 3	21 53.49	−12 39.4	1.292	2.283	6.2	22.2	166 E	32	77
9 13	21 39.26	−14 17.3	1.286	2.226	12.2	22.4	152 E	31	78

368203 2001 KO_{2}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 35.80	+13 11.3	1.363	2.242	16.6	23.7	141 W	58	51
8 14	22 23.49	+12 23.7	1.379	2.315	12.4	23.7	151 W	57	52
8 24	22 10.87	+11 7.4	1.419	2.385	9.3	23.7	158 E	56	53
9 3	21 59.28	+ 9 31.5	1.485	2.454	8.5	23.8	159 E	55	54
9 13	21 49.77	+ 7 46.8	1.578	2.520	10.1	24.1	154 E	53	56

380282 2002 AO_{148}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 38.25	− 5 46.1	6.127	7.042	3.8	21.4	152 W	39	70
8 14	22 34.27	− 5 57.1	6.074	7.049	2.4	21.3	163 W	39	70
8 24	22 29.97	− 6 10.5	6.051	7.056	1.0	21.2	173 W	39	70
9 3	22 25.57	− 6 25.3	6.058	7.063	0.8	21.2	174 E	39	70
9 13	22 21.29	− 6 40.2	6.096	7.069	2.2	21.3	164 E	38	71
9 23	22 17.38	− 6 54.0	6.163	7.076	3.6	21.4	154 E	38	71

410248 2007 TY_{72}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 38.44	+ 4 10.9	1.597	2.508	12.8	21.7	147 W	49	60
8 14	22 30.62	+ 3 54.7	1.499	2.464	9.3	21.4	157 W	49	60
8 24	22 20.87	+ 3 15.9	1.426	2.418	6.1	21.1	165 W	48	61
9 3	22 10.10	+ 2 16.8	1.379	2.371	5.8	20.9	166 E	47	62
9 13	21 59.53	+ 1 2.5	1.358	2.323	9.2	21.0	158 E	46	63
9 23	21 50.48	− 0 18.3	1.362	2.275	13.6	21.1	148 E	45	64
10 3	21 43.96	− 1 37.2	1.388	2.225	17.9	21.3	137 E	43	66
10 13	21 40.68	− 2 46.7	1.431	2.175	21.7	21.4	126 E	42	67

516476 2005 TS_{86}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 38.75	+ 5 20.4	0.938	1.867	17.7	21.8	146 W	50	59
8 14	22 31.15	+ 4 35.6	0.872	1.845	12.8	21.5	156 W	50	59
8 24	22 20.97	+ 3 12.0	0.825	1.822	8.0	21.2	165 W	48	61
9 3	22 9.62	+ 1 15.0	0.801	1.798	7.3	21.0	167 E	46	63
9 13	21 59.02	− 1 2.2	0.798	1.774	11.9	21.2	159 E	44	65
9 23	21 51.04	− 3 21.7	0.816	1.749	17.9	21.4	148 E	42	67

383651 2007 TD_{15}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 40.51	+15 18.7	1.622	2.475	15.8	21.5	138 W	60	49
8 14	22 31.92	+15 27.8	1.545	2.457	13.0	21.3	147 W	60	49
8 24	22 21.56	+15 5.8	1.490	2.437	10.6	21.1	154 W	60	49
9 3	22 10.45	+14 12.8	1.459	2.417	9.7	21.0	156 E	59	50
9 13	21 59.86	+12 52.8	1.453	2.395	10.9	21.0	153 E	58	51
9 23	21 51.03	+11 15.1	1.472	2.372	13.6	21.1	146 E	56	53
10 3	21 44.85	+ 9 30.3	1.513	2.348	16.8	21.2	137 E	55	54
10 13	21 41.84	+ 7 48.5	1.572	2.322	19.8	21.4	128 E	53	56

418083 2007 VV_{307}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 4	22 43.25	+21 21.2	2.387	3.170	13.5	21.5	133 W	66	43
8 14	22 35.71	+21 30.8	2.316	3.168	11.6	21.3	141 W	67	42
8 24	22 27.01	+21 15.1	2.266	3.165	9.9	21.2	147 W	66	43
9 3	22 17.87	+20 34.2	2.242	3.161	8.9	21.2	151 E	66	43
9 13	22 9.12	+19 30.8	2.243	3.156	9.1	21.2	150 E	65	44
9 23	22 1.58	+18 10.7	2.270	3.151	10.3	21.2	146 E	63	46
10 3	21 55.84	+16 41.1	2.322	3.144	12.1	21.3	139 E	62	47
10 13	21 52.30	+15 9.2	2.395	3.137	14.0	21.5	131 E	60	49

455263 2001 UM_{221}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 43.56	−40 34.6	1.997	2.902	10.9	22.3	147 W	4	75
8 9	22 38.57	−41 17.0	1.981	2.897	10.4	22.3	149 W	4	75
8 14	22 33.04	−41 54.4	1.971	2.891	10.2	22.2	150 W	3	74
8 19	22 27.10	−42 25.6	1.967	2.885	10.2	22.2	150 W	3	74
8 24	22 20.92	−42 49.9	1.970	2.879	10.6	22.2	148 W	2	73
8 29	22 14.67	−43 6.4	1.978	2.873	11.3	22.3	146 E	2	73
9 3	22 8.50	−43 14.9	1.993	2.866	12.1	22.3	143 E	2	73
9 8	22 2.61	−43 15.3	2.013	2.859	13.1	22.4	140 E	2	73
9 13	21 57.15	−43 7.8	2.038	2.852	14.1	22.4	136 E	2	73
9 18	21 52.27	−42 52.8	2.069	2.845	15.1	22.5	132 E	2	73

544235 2014 TB_{34}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 44.81	+33 8.7	1.298	2.039	24.6	21.7	123 W	78	31
8 9	22 40.82	+33 56.4	1.262	2.032	23.8	21.6	126 W	79	30
8 14	22 36.03	+34 33.2	1.228	2.024	22.9	21.5	129 W	80	29
8 19	22 30.56	+34 57.9	1.199	2.016	22.1	21.4	131 W	80	29
8 24	22 24.54	+35 9.1	1.173	2.008	21.4	21.3	134 W	80	29
8 29	22 18.18	+35 6.2	1.150	1.999	20.8	21.2	135 E	80	29
9 3	22 11.68	+34 48.3	1.132	1.990	20.3	21.2	137 E	80	29
9 8	22 5.31	+34 15.6	1.118	1.981	20.1	21.1	137 E	79	30
9 13	21 59.31	+33 28.7	1.108	1.972	20.1	21.1	138 E	78	31
9 18	21 53.92	+32 28.9	1.103	1.962	20.4	21.1	137 E	77	32
9 23	21 49.32	+31 18.2	1.102	1.953	20.9	21.1	136 E	76	33
9 28	21 45.67	+29 58.4	1.105	1.943	21.6	21.1	134 E	75	34
10 3	21 43.06	+28 31.9	1.112	1.932	22.6	21.1	132 E	74	35
10 8	21 41.56	+27 1.0	1.124	1.922	23.6	21.2	130 E	72	37
10 13	21 41.20	+25 28.1	1.139	1.911	24.7	21.2	127 E	70	39
10 18	21 41.94	+23 55.3	1.157	1.900	25.9	21.3	124 E	69	40
10 23	21 43.75	+22 24.5	1.179	1.889	27.0	21.4	120 E	67	42
10 28	21 46.57	+20 57.1	1.203	1.878	28.1	21.4	117 E	66	43
11 2	21 50.34	+19 34.2	1.230	1.867	29.1	21.5	114 E	65	44

465271 2007 TF_{107}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 46.67	−30 25.1	1.707	2.644	10.5	21.6	152 W	15	86
8 9	22 41.22	−30 43.1	1.674	2.630	9.2	21.5	155 W	14	85
8 14	22 35.16	−30 57.5	1.649	2.617	8.2	21.4	158 W	14	85
8 19	22 28.62	−31 7.4	1.629	2.603	7.7	21.4	160 W	14	85
8 24	22 21.78	−31 11.7	1.617	2.589	7.7	21.4	160 W	14	85
8 29	22 14.80	−31 9.7	1.611	2.575	8.4	21.4	158 E	14	85
9 3	22 7.87	−31 0.9	1.612	2.561	9.6	21.4	155 E	14	85
9 8	22 1.21	−30 45.3	1.619	2.546	11.1	21.5	151 E	14	85
9 13	21 54.98	−30 22.8	1.633	2.532	12.8	21.5	146 E	15	86
9 18	21 49.35	−29 54.0	1.652	2.517	14.4	21.6	141 E	15	86
9 23	21 44.43	−29 19.4	1.677	2.502	16.0	21.7	136 E	16	87

542675 2013 GN_{92}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 50.14	− 3 42.8	1.784	2.704	11.2	22.2	149 W	41	68
8 14	22 42.18	− 4 33.2	1.754	2.730	7.1	22.0	161 W	40	69
8 24	22 33.04	− 5 33.5	1.750	2.755	2.9	21.8	172 W	39	70
9 3	22 23.64	− 6 37.8	1.774	2.779	2.2	21.8	174 E	38	71
9 13	22 14.95	− 7 39.8	1.826	2.802	6.2	22.1	162 E	37	72
9 23	22 7.84	− 8 34.0	1.906	2.825	10.0	22.4	151 E	36	73

292220 2006 SU_{49}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 50.52	− 5 13.2	0.904	1.852	16.1	21.4	150 W	40	69
8 14	22 37.26	− 6 8.4	0.856	1.847	9.5	21.0	162 W	39	70
8 24	22 21.02	− 7 21.5	0.830	1.840	2.5	20.6	175 W	38	71
9 3	22 3.87	− 8 41.3	0.830	1.830	6.0	20.8	169 E	36	73
9 13	21 48.31	− 9 55.0	0.853	1.818	13.2	21.1	156 E	35	74
9 23	21 36.40	−10 52.6	0.898	1.803	19.7	21.4	143 E	34	75

249615 1999 TB_5

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 51.58	+34 6.9	1.102	1.849	27.8	21.8	122 W	79	30
8 9	22 50.19	+34 22.5	1.043	1.823	27.2	21.6	125 W	79	30
8 14	22 47.97	+34 24.8	0.986	1.798	26.3	21.4	128 W	79	30
8 19	22 44.96	+34 11.2	0.932	1.772	25.4	21.3	131 W	79	30
8 24	22 41.23	+33 39.3	0.881	1.746	24.4	21.1	135 W	79	30
8 29	22 36.87	+32 46.3	0.832	1.720	23.3	20.9	138 W	78	31
9 3	22 32.04	+31 29.4	0.788	1.694	22.2	20.7	141 E	76	33
9 8	22 26.96	+29 46.3	0.747	1.667	21.2	20.5	143 E	75	34
9 13	22 21.90	+27 35.5	0.711	1.641	20.5	20.4	145 E	73	36

249615 1999 TB_5 *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 18	22 17.14	+24 56.7	0.680	1.615	20.3	20.2	146 E	70	39
9 23	22 12.96	+21 51.3	0.654	1.589	20.7	20.1	146 E	67	42
9 28	22 9.61	+18 22.3	0.634	1.563	21.8	20.0	145 E	63	46
10 3	22 7.30	+14 34.3	0.620	1.537	23.7	20.0	142 E	60	49
10 8	22 6.21	+10 33.6	0.612	1.512	26.1	20.0	138 E	56	53
10 13	22 6.47	+ 6 27.5	0.609	1.486	28.9	20.1	134 E	51	58
10 18	22 8.13	+ 2 23.1	0.612	1.462	31.9	20.1	129 E	47	62
10 23	22 11.19	− 1 33.3	0.619	1.437	34.9	20.2	124 E	43	66
10 28	22 15.60	− 5 16.8	0.631	1.414	37.8	20.3	119 E	40	69
11 2	22 21.33	− 8 43.8	0.646	1.390	40.5	20.4	114 E	36	73
11 7	22 28.30	−11 52.1	0.664	1.368	42.9	20.5	110 E	33	76
11 12	22 36.45	−14 40.6	0.685	1.347	45.1	20.5	106 E	30	79
11 17	22 45.66	−17 9.4	0.706	1.326	46.9	20.6	102 E	28	81
11 22	22 55.84	−19 19.1	0.729	1.307	48.5	20.7	98 E	26	83*
11 27	23 6.89	−21 10.6	0.752	1.288	49.8	20.8	95 E	24	84*
12 2	23 18.73	−22 44.8	0.776	1.271	50.8	20.9	92 E	22	83*
12 7	23 31.28	−24 2.8	0.799	1.256	51.7	20.9	89 E	21	81*
12 12	23 44.48	−25 5.8	0.821	1.242	52.3	21.0	86 E	20	79*
12 17	23 58.24	−25 54.7	0.842	1.229	52.8	21.0	84 E	19	77*
12 22	0 12.49	−26 30.7	0.863	1.219	53.1	21.1	82 E	18	75*
12 27	0 27.18	−26 54.3	0.882	1.210	53.3	21.1	81 E	18	73*
1 1	0 42.26	−27 6.3	0.900	1.203	53.4	21.1	79 E	18	72*
1 6	0 57.70	−27 7.1	0.917	1.198	53.4	21.2	78 E	18	71*
1 11	1 13.48	−26 57.5	0.932	1.195	53.4	21.2	77 E	18	70*
1 16	1 29.54	−26 37.9	0.946	1.194	53.2	21.2	76 E	18	69*
1 21	1 45.85	−26 8.8	0.960	1.195	53.0	21.2	76 E	19	69*

376883 2001 XE_1

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 55.08	+31 20.4	1.179	1.934	25.9	22.2	124 W	76	33
8 9	22 51.15	+31 53.1	1.144	1.932	24.8	22.1	127 W	77	32
8 14	22 46.35	+32 13.8	1.113	1.929	23.6	22.0	130 W	77	32
8 19	22 40.81	+32 21.0	1.084	1.925	22.5	21.9	133 W	77	32
8 24	22 34.67	+32 13.8	1.060	1.921	21.4	21.8	136 W	77	32
8 29	22 28.14	+31 51.0	1.039	1.917	20.4	21.7	139 E	77	32
9 3	22 21.45	+31 12.4	1.022	1.912	19.5	21.6	141 E	76	33
9 8	22 14.86	+30 18.1	1.010	1.907	19.0	21.6	142 E	75	34
9 13	22 8.64	+29 9.3	1.003	1.902	18.9	21.6	142 E	74	35
9 18	22 3.04	+27 47.7	1.001	1.896	19.1	21.6	142 E	73	36
9 23	21 58.25	+26 15.9	1.003	1.890	19.7	21.6	141 E	71	38

200701 2001 UN_{79}

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	22 58.88	−42 46.0	2.021	2.901	12.0	21.7	144 W	2	73
8 9	22 53.67	−43 25.7	1.999	2.892	11.5	21.6	145 W	2	73
8 14	22 47.80	−44 0.3	1.984	2.883	11.2	21.6	147 W	1	72
8 19	22 41.41	−44 28.6	1.974	2.874	11.1	21.6	147 W	1	72
8 24	22 34.67	−44 49.5	1.970	2.865	11.4	21.6	146 W	—	71
8 29	22 27.73	−45 2.2	1.973	2.855	11.9	21.6	144 E	—	71
9 3	22 20.81	−45 6.4	1.981	2.846	12.6	21.6	142 E	—	71
9 8	22 14.09	−45 1.8	1.995	2.835	13.4	21.6	139 E	—	71
9 13	22 7.77	−44 48.6	2.015	2.825	14.4	21.7	136 E	—	71
9 18	22 2.01	−44 27.1	2.039	2.814	15.3	21.7	132 E	1	72
9 23	21 56.93	−43 58.3	2.069	2.803	16.3	21.8	128 E	1	72

526802 2007 BC

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	23 2.04	−47 35.6	2.710	3.550	10.5	22.2	140 W	—	68
8 9	22 57.45	−48 16.7	2.705	3.555	10.2	22.2	141 W	—	68
8 14	22 52.36	−48 52.9	2.706	3.560	10.1	22.2	142 W	—	67
8 19	22 46.88	−49 23.4	2.714	3.564	10.1	22.2	142 W	—	67
8 24	22 41.13	−49 47.6	2.727	3.569	10.3	22.2	141 W	—	66
8 29	22 35.26	−50 4.9	2.746	3.573	10.6	22.2	139 W	—	66
9 3	22 29.39	−50 15.2	2.770	3.577	11.0	22.3	137 E	—	66
9 8	22 23.68	−50 18.3	2.801	3.581	11.6	22.3	135 E	—	66
9 13	22 18.27	−50 14.3	2.836	3.585	12.1	22.4	132 E	—	66
9 18	22 13.28	−50 3.7	2.877	3.588	12.7	22.4	128 E	—	66
9 23	22 8.81	−49 47.0	2.922	3.591	13.2	22.5	125 E	—	66

203217 2001 FX_9

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	23 4.44	− 2 38.6	1.451	2.357	14.2	22.1	145 W	42	67
8 14	22 57.02	− 3 28.4	1.365	2.331	9.9	21.8	157 W	42	67
8 24	22 47.16	− 4 37.1	1.303	2.304	4.8	21.4	169 W	40	69
9 3	22 35.77	− 5 58.7	1.267	2.275	1.5	21.1	177 E	39	70
9 13	22 24.14	− 7 24.6	1.259	2.245	6.8	21.4	165 E	38	71
9 23	22 13.78	− 8 44.7	1.276	2.214	12.2	21.6	152 E	36	73

344756 2003 VO_2

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 4	23 10.98	+12 27.6	0.536	1.446	29.6	21.5	135 W	57	52
8 9	23 7.08	+13 22.7	0.514	1.445	27.0	21.4	140 W	58	51
8 14	23 1.80	+14 6.8	0.495	1.443	24.3	21.2	144 W	59	50
8 19	22 55.25	+14 38.1	0.478	1.441	21.6	21.0	148 W	60	49
8 24	22 47.65	+14 54.9	0.465	1.439	19.0	20.9	152 W	60	49
8 29	22 39.27	+14 56.0	0.455	1.436	17.0	20.8	155 W	60	49

344756 2003 VO_2 *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 3	22 30.48	+14 40.9	0.449	1.433	15.8	20.7	157 E	60	49
9 8	22 21.73	+14 10.3	0.447	1.430	15.8	20.7	157 E	59	50
9 13	22 13.51	+13 26.3	0.449	1.427	17.1	20.7	155 E	58	51
9 18	22 6.24	+12 31.9	0.454	1.423	19.2	20.8	152 E	58	51
9 23	22 0.22	+11 30.6	0.463	1.418	21.9	20.9	148 E	57	52
9 28	21 55.65	+10 25.8	0.476	1.414	24.8	21.1	144 E	55	54
10 3	21 52.66	+ 9 20.4	0.491	1.409	27.7	21.2	139 E	54	55
10 8	21 51.28	+ 8 17.4	0.508	1.404	30.4	21.4	135 E	53	56

154991 Vinciguerra

8 4	23 13.61	+ 4 59.9	1.386	2.255	17.0	21.8	139 W	50	59
8 14	23 4.99	+ 4 36.3	1.317	2.255	12.8	21.5	150 W	50	59
8 24	22 53.84	+ 3 47.4	1.270	2.252	8.1	21.3	162 W	49	60
9 3	22 41.23	+ 2 36.5	1.248	2.248	4.6	21.0	170 E	48	61
9 13	22 28.60	+ 1 11.3	1.254	2.242	6.5	21.1	165 E	46	63
9 23	22 17.50	− 0 17.7	1.286	2.234	11.2	21.4	154 E	45	64

477588 2010 JD_{87}

8 4	23 16.94	−12 30.4	1.162	2.080	16.0	22.2	146 W	32	77
8 14	23 0.69	−12 56.0	1.056	2.034	10.3	21.7	159 W	32	77
8 24	22 39.10	−13 24.5	0.976	1.984	3.6	21.2	173 W	32	77
9 3	22 13.68	−13 44.8	0.928	1.929	5.4	21.1	170 E	31	78
9 13	21 47.33	−13 46.6	0.911	1.870	13.5	21.3	154 E	31	78
9 23	21 23.49	−13 24.9	0.923	1.806	21.3	21.6	139 E	32	77

507261 2011 CO_{46}

8 4	23 17.40	+ 0 12.5	1.276	2.162	17.2	21.3	141 W	45	64
8 14	23 7.08	+ 0 27.4	1.225	2.175	12.4	21.1	153 W	45	64
8 24	22 54.20	+ 0 24.3	1.196	2.187	7.2	20.8	164 W	45	64
9 3	22 40.07	+ 0 6.0	1.194	2.197	3.7	20.6	172 E	45	64
9 13	22 26.34	− 0 22.1	1.218	2.206	6.7	20.8	165 E	45	64
9 23	22 14.62	− 0 52.8	1.269	2.214	11.6	21.2	154 E	44	65
10 3	22 5.98	− 1 19.7	1.342	2.219	16.0	21.4	142 E	44	65

413303 2003 UC_{223}

8 4	23 17.99	+25 17.9	2.159	2.865	16.8	21.4	125 W	70	39
8 14	23 12.36	+25 50.8	2.043	2.834	15.1	21.2	133 W	71	38
8 24	23 4.62	+25 56.6	1.944	2.801	13.2	21.0	141 W	71	38
9 3	22 55.34	+25 31.1	1.867	2.767	11.5	20.8	147 W	71	38
9 13	22 45.36	+24 32.6	1.813	2.731	10.6	20.6	150 E	70	39
9 23	22 35.77	+23 3.8	1.784	2.695	11.0	20.6	149 E	68	41
10 3	22 27.61	+21 11.9	1.780	2.658	12.7	20.6	144 E	66	43
10 13	22 21.73	+19 6.8	1.800	2.620	15.0	20.7	137 E	64	45
10 23	22 18.63	+16 59.5	1.840	2.581	17.5	20.8	129 E	62	47
11 2	22 18.50	+14 59.3	1.897	2.541	19.8	20.9	120 E	60	49
11 12	22 21.27	+13 13.2	1.967	2.500	21.7	21.0	111 E	58	51
11 22	22 26.74	+11 45.3	2.046	2.458	23.1	21.1	103 E	57	51*
12 2	22 34.60	+10 37.4	2.129	2.415	24.0	21.2	94 E	56	49*
12 12	22 44.59	+ 9 49.7	2.214	2.372	24.5	21.2	87 E	55	45*
12 22	22 56.41	+ 9 21.6	2.298	2.328	24.5	21.3	79 E	54*	40*
1 1	23 9.82	+ 9 11.3	2.378	2.282	24.2	21.3	72 E	53*	35*
1 11	23 24.63	+ 9 17.3	2.453	2.237	23.6	21.3	66 E	51*	30*
1 21	23 40.67	+ 9 37.4	2.520	2.190	22.8	21.3	59 E	48*	26*

154278 2002 TB_9

8 4	23 33.16	+20 49.0	2.151	2.865	16.7	21.3	126 W	66	43
8 14	23 25.82	+20 21.4	2.045	2.858	14.3	21.1	136 W	65	44
8 24	23 16.29	+19 23.9	1.959	2.850	11.6	20.9	145 W	64	45
9 3	23 5.21	+17 55.0	1.897	2.839	8.9	20.8	154 W	63	46
9 13	22 53.51	+15 56.8	1.864	2.826	7.4	20.6	159 E	61	48
9 23	22 42.32	+13 36.9	1.862	2.811	8.2	20.7	156 E	59	50
10 3	22 32.64	+11 5.9	1.890	2.793	10.7	20.8	149 E	56	53
10 13	22 25.24	+ 8 35.4	1.945	2.774	13.7	20.9	139 E	54	55
10 23	22 20.56	+ 6 15.7	2.024	2.752	16.5	21.1	128 E	51	58
11 2	22 18.68	+ 4 13.4	2.121	2.728	18.8	21.3	118 E	49	60
11 12	22 19.50	+ 2 32.0	2.230	2.702	20.4	21.4	108 E	48	61

297300 1998 SC_{15}

8 4	23 48.46	+24 4.7	0.790	1.574	33.5	21.2	121 W	69	40
8 9	23 49.23	+24 47.5	0.734	1.553	32.5	21.0	125 W	70	39
8 14	23 48.95	+25 22.3	0.679	1.531	31.3	20.7	128 W	70	39
8 19	23 47.53	+25 47.0	0.627	1.507	29.8	20.5	132 W	71	38
8 24	23 44.81	+25 58.8	0.576	1.483	28.0	20.2	136 W	71	38
8 29	23 40.65	+25 54.4	0.528	1.457	26.1	19.9	141 W	71	38
9 3	23 34.93	+25 29.2	0.483	1.431	23.9	19.6	145 W	70	39
9 8	23 27.57	+24 37.8	0.440	1.404	21.6	19.3	149 W	70	39
9 13	23 18.61	+23 14.2	0.401	1.375	19.5	19.0	153 E	68	41
9 18	23 8.18	+21 12.2	0.366	1.346	18.1	18.7	155 E	66	43
9 23	22 56.54	+18 26.3	0.335	1.316	18.1	18.5	156 E	63	46
9 28	22 44.05	+14 52.2	0.308	1.285	20.3	18.3	154 E	60	49
10 3	22 31.17	+10 29.3	0.286	1.254	24.7	18.2	148 E	55	54

297300 1998 SC_{15} *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 8	22 18.47	+ 5 21.9	0.269	1.221	30.7	18.2	141 E	50	59
10 13	22 6.44	− 0 20.1	0.257	1.188	37.9	18.2	133 E	45	64
10 15	22 1.91	− 2 43.8	0.253	1.175	41.0	18.3	129 E	42	67
10 17	21 57.56	− 5 10.1	0.250	1.161	44.1	18.3	126 E	40	69
10 19	21 53.39	− 7 38.1	0.248	1.148	47.3	18.4	122 E	37	72
10 21	21 49.42	−10 7.2	0.246	1.134	50.5	18.4	119 E	35	74
10 23	21 45.64	−12 36.6	0.245	1.120	53.7	18.5	115 E	32	77
10 28	21 36.96	−18 47.6	0.244	1.086	61.7	18.6	106 E	26	83
11 2	21 29.22	−24 50.0	0.244	1.051	69.5	18.8	97 E	20	89
11 7	21 22.03	−30 40.8	0.247	1.016	77.1	19.0	89 E	14	82*
11 12	21 14.72	−36 19.9	0.250	0.982	84.5	19.2	81 E	9	74*
11 14	21 11.56	−38 32.6	0.251	0.968	87.4	19.3	78 E	6	71*
11 16	21 8.13	−40 43.6	0.253	0.955	90.3	19.4	75 E	4	67*
11 18	21 4.36	−42 53.0	0.254	0.942	93.1	19.5	72 E	2	64*
11 20	21 0.14	−45 0.7	0.256	0.928	95.9	19.6	69 E	—	61*
11 22	20 55.35	−47 6.3	0.258	0.915	98.7	19.7	66 E	—	58*
11 24	20 49.85	−49 9.5	0.260	0.902	101.4	19.8	64 E	—	54*
11 26	20 43.50	−51 9.8	0.262	0.890	104.1	20.0	61 E	—	51*
11 28	20 36.15	−53 6.3	0.264	0.878	106.7	20.1	58 E	—	48*
11 30	20 27.61	−54 58.1	0.267	0.866	109.3	20.2	56 E	—	45*
12 2	20 17.73	−56 43.9	0.269	0.854	111.7	20.4	54 E	—	42*
12 4	20 6.34	−58 22.3	0.272	0.843	114.0	20.5	51 E	—	39*
12 6	19 53.32	−59 51.3	0.276	0.832	116.2	20.7	49 E	—	36*
12 8	19 38.62	−61 9.1	0.280	0.822	118.2	20.8	47 E	—	33*
12 10	19 22.31	−62 13.6	0.284	0.812	120.0	21.0	46 E	—	29*
12 12	19 4.60	−63 2.8	0.288	0.802	121.6	21.1	44 E	—	26*
12 13	18 55.34	−63 21.1	0.291	0.798	122.3	21.2	43 E	—	25*
12 14	18 45.89	−63 35.0	0.294	0.794	122.9	21.2	43 E	—	23*
12 15	18 36.33	−63 44.4	0.296	0.789	123.5	21.3	42 E	—	22*
12 16	18 26.74	−63 49.2	0.299	0.785	123.9	21.3	41 E	—	20*
12 17	18 17.20	−63 49.4	0.302	0.782	124.3	21.4	41 E	—	19*
12 18	18 7.79	−63 45.2	0.305	0.778	124.6	21.4	41 E	—	18*
12 19	17 58.60	−63 36.5	0.309	0.774	124.8	21.4	40 E	—	16*
12 20	17 49.70	−63 23.7	0.312	0.771	124.9	21.5	40 W	—	15*
12 21	17 41.15	−63 6.8	0.316	0.768	125.0	21.5	40 W	—	16*
12 22	17 33.01	−62 46.2	0.320	0.765	125.0	21.5	40 W	—	17*
12 23	17 25.31	−62 22.2	0.324	0.762	124.8	21.5	40 W	—	18*
12 24	17 18.10	−61 54.9	0.328	0.760	124.6	21.5	39 W	—	20*
12 25	17 11.40	−61 24.9	0.332	0.757	124.3	21.5	39 W	—	21*
12 26	17 5.20	−60 52.3	0.336	0.755	124.0	21.5	40 W	—	22*
12 27	16 59.53	−60 17.4	0.341	0.753	123.5	21.5	40 W	—	23*
12 28	16 54.36	−59 40.6	0.345	0.752	123.0	21.5	40 W	—	24*
12 29	16 49.69	−59 2.2	0.350	0.750	122.5	21.4	40 W	—	25*
12 30	16 45.51	−58 22.3	0.355	0.749	121.8	21.4	40 W	—	26*
12 31	16 41.79	−57 41.3	0.360	0.748	121.1	21.4	41 W	—	27*
1 1	16 38.51	−56 59.4	0.365	0.747	120.4	21.4	41 W	—	28*
1 3	16 33.20	−55 33.7	0.376	0.746	118.8	21.3	42 W	—	30*
1 5	16 29.38	−54 6.4	0.387	0.745	117.0	21.2	42 W	—	32*
1 7	16 26.87	−52 38.8	0.398	0.746	115.1	21.2	43 W	—	34*
1 9	16 25.50	−51 11.7	0.410	0.748	113.1	21.1	44 W	—	35*
1 11	16 25.12	−49 45.7	0.421	0.750	111.0	21.0	45 W	—	37*
1 13	16 25.59	−48 21.3	0.433	0.753	108.9	21.0	46 W	—	38*
1 15	16 26.79	−46 58.9	0.446	0.757	106.8	20.9	47 W	—	40*
1 17	16 28.61	−45 38.7	0.458	0.762	104.7	20.9	49 W	—	41*
1 19	16 30.96	−44 20.6	0.470	0.768	102.6	20.8	50 W	—	43*
1 21	16 33.76	−43 4.9	0.482	0.774	100.5	20.8	51 W	—	44*

106589 2000 WN_{107}

8 4	23 50.49	− 1 33.8	2.600	3.388	12.4	21.4	134 W	43	66
8 14	23 44.62	− 2 34.7	2.519	3.404	9.7	21.2	146 W	42	67
8 24	23 37.04	− 3 47.2	2.462	3.418	6.5	21.0	158 W	41	68
9 3	23 28.22	− 5 7.3	2.433	3.430	3.0	20.8	170 W	40	69
9 13	23 18.80	− 6 29.6	2.435	3.441	0.8	20.7	177 E	39	70
9 23	23 9.53	− 7 48.2	2.470	3.450	4.2	20.9	165 E	37	72
10 3	23 1.14	− 8 57.9	2.535	3.458	7.5	21.2	153 E	36	73
10 13	22 54.22	− 9 55.0	2.628	3.464	10.4	21.4	141 E	35	74

505590 2014 CA_5

8 14	0 2.15	− 6 47.0	1.494	2.382	14.9	21.3	143 W	38	71
8 24	23 53.06	− 6 0.9	1.381	2.333	10.8	20.9	154 W	39	70
9 3	23 40.56	− 5 13.7	1.291	2.284	5.9	20.5	167 W	40	69
9 13	23 25.41	− 4 22.9	1.228	2.234	0.3	20.0	179 W	41	68
9 23	23 9.07	− 3 26.0	1.195	2.184	6.0	20.3	167 E	42	67
10 3	22 53.36	− 2 21.9	1.191	2.134	12.0	20.4	154 E	43	66
10 13	22 40.04	− 1 10.4	1.212	2.084	17.5	20.6	141 E	44	65
10 23	22 30.37	+ 0 8.6	1.253	2.034	22.3	20.8	129 E	45	64
11 2	22 24.84	+ 1 35.2	1.309	1.985	26.1	21.0	119 E	47	62
11 12	22 23.51	+ 3 9.8	1.373	1.935	28.9	21.1	109 E	48	61

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		505590 2014 CA_5 *(continuation)*							
	h m	° ′			°	m	°	°	°
11 22	22 26.06	+ 4 53.5	1.442	1.887	31.0	21.2	100 E	50	58*
12 2	22 32.04	+ 6 46.9	1.511	1.840	32.4	21.3	92 E	52	52*
12 12	22 41.07	+ 8 50.9	1.577	1.794	33.2	21.3	86 E	54	46*
12 22	22 52.78	+11 6.0	1.639	1.749	33.6	21.4	79 E	56*	39*
1 1	23 6.91	+13 32.0	1.695	1.707	33.6	21.4	74 E	58*	32*
1 11	23 23.33	+16 8.6	1.745	1.667	33.4	21.4	69 E	58*	26*
1 21	23 41.92	+18 54.9	1.787	1.630	33.1	21.4	65 E	56*	20*
		308084 2004 UF_1							
8 14	0 3.19	+25 16.8	1.778	2.513	19.0	21.4	126 W	70	39
8 19	0 1.53	+25 20.5	1.717	2.497	17.9	21.3	131 W	70	39
8 24	23 59.23	+25 16.7	1.659	2.480	16.7	21.2	135 W	70	39
8 29	23 56.29	+25 4.6	1.606	2.463	15.4	21.0	140 W	70	39
9 3	23 52.78	+24 43.5	1.557	2.446	14.0	20.9	144 W	70	39
9 8	23 48.76	+24 12.6	1.513	2.429	12.6	20.8	148 W	69	40
9 13	23 44.35	+23 31.8	1.475	2.411	11.3	20.7	152 W	69	40
9 18	23 39.68	+22 41.1	1.443	2.393	10.1	20.5	155 E	68	41
9 23	23 34.89	+21 41.0	1.417	2.375	9.3	20.5	157 E	67	42
9 28	23 30.15	+20 32.3	1.398	2.357	9.1	20.4	158 E	66	43
10 3	23 25.61	+19 16.2	1.385	2.339	9.6	20.4	157 E	64	45
10 8	23 21.43	+17 54.4	1.379	2.320	10.7	20.4	154 E	63	46
10 13	23 17.77	+16 28.8	1.379	2.302	12.3	20.4	151 E	61	48
10 18	23 14.75	+15 1.5	1.386	2.283	14.0	20.5	146 E	60	49
10 23	23 12.44	+13 34.4	1.398	2.264	15.9	20.6	142 E	59	50
10 28	23 10.90	+12 9.3	1.416	2.245	17.7	20.6	137 E	57	52
11 2	23 10.18	+10 47.8	1.439	2.226	19.5	20.7	132 E	56	53
11 7	23 10.28	+ 9 31.1	1.467	2.206	21.1	20.8	127 E	55	54
11 12	23 11.22	+ 8 20.3	1.498	2.187	22.6	20.9	122 E	53	56
11 17	23 12.96	+ 7 16.1	1.532	2.167	24.0	20.9	117 E	52	57
11 22	23 15.46	+ 6 18.7	1.569	2.147	25.2	21.0	112 E	51	58
11 27	23 18.69	+ 5 28.4	1.607	2.128	26.2	21.1	108 E	50	59*
12 2	23 22.61	+ 4 45.2	1.648	2.108	27.1	21.1	103 E	50	59*
12 7	23 27.17	+ 4 8.9	1.689	2.088	27.8	21.2	99 E	49	58*
12 12	23 32.34	+ 3 39.3	1.731	2.068	28.3	21.2	95 E	49	57*
12 17	23 38.06	+ 3 16.1	1.774	2.048	28.7	21.3	91 E	48	55*
12 22	23 44.30	+ 2 58.9	1.816	2.028	29.0	21.3	88 E	48	53*
12 27	23 51.02	+ 2 47.4	1.858	2.008	29.1	21.3	84 E	48	51*
1 1	23 58.18	+ 2 41.1	1.899	1.988	29.2	21.4	80 E	48	48*
1 6	0 5.76	+ 2 39.7	1.939	1.968	29.1	21.4	77 E	48*	46*
1 11	0 13.73	+ 2 42.7	1.978	1.948	29.0	21.4	74 E	48*	44*
1 16	0 22.07	+ 2 49.9	2.016	1.928	28.8	21.4	71 E	47*	42*
1 21	0 30.74	+ 3 0.7	2.052	1.909	28.5	21.4	68 E	46*	40*
		347538 2000 AP_1							
8 14	0 8.11	−30 26.0	1.959	2.822	13.0	21.5	141 W	15	86
8 19	0 5.10	−31 23.7	1.933	2.818	12.1	21.4	144 W	14	85
8 24	0 1.43	−32 19.5	1.912	2.815	11.3	21.4	147 W	13	84
8 29	23 57.18	−33 12.1	1.898	2.811	10.7	21.3	149 W	12	83
9 3	23 52.41	−34 0.2	1.889	2.807	10.4	21.3	150 W	11	82
9 8	23 47.24	−34 42.6	1.887	2.803	10.5	21.3	150 W	10	81
9 13	23 41.81	−35 18.0	1.891	2.798	10.9	21.3	148 W	10	81
9 18	23 36.28	−35 45.6	1.902	2.793	11.5	21.3	146 E	9	80
9 23	23 30.80	−36 5.0	1.918	2.788	12.4	21.4	143 E	9	80
9 28	23 25.52	−36 15.8	1.940	2.783	13.4	21.4	140 E	9	80
10 3	23 20.58	−36 18.3	1.967	2.777	14.4	21.5	136 E	9	80
10 8	23 16.11	−36 12.5	2.000	2.771	15.5	21.6	132 E	9	80
10 13	23 12.21	−35 59.1	2.037	2.765	16.5	21.6	128 E	9	80
		517035 2012 XS_{119}							
8 14	0 20.69	−26 2.5	1.107	1.989	19.3	21.5	139 W	19	90
8 19	0 18.36	−27 13.7	1.085	1.990	17.8	21.4	143 W	18	89
8 24	0 15.02	−28 23.9	1.068	1.990	16.3	21.3	146 W	17	88
8 29	0 10.73	−29 31.1	1.056	1.991	15.2	21.3	149 W	15	86
9 3	0 5.58	−30 32.8	1.049	1.991	14.3	21.2	151 W	14	85
9 8	23 59.74	−31 26.8	1.047	1.991	14.0	21.2	151 W	14	85
9 13	23 53.42	−32 10.8	1.050	1.990	14.2	21.2	151 W	13	84
9 18	23 46.89	−32 43.4	1.059	1.990	15.0	21.3	149 W	12	83
9 23	23 40.40	−33 3.6	1.073	1.989	16.1	21.3	147 E	12	83
9 28	23 34.20	−33 11.1	1.091	1.988	17.5	21.4	143 E	12	83
10 3	23 28.52	−33 6.2	1.115	1.987	19.0	21.5	140 E	12	83
10 8	23 23.56	−32 49.4	1.142	1.985	20.5	21.6	136 E	12	83
10 13	23 19.46	−32 21.8	1.174	1.984	22.0	21.7	132 E	13	84
10 18	23 16.32	−31 44.7	1.209	1.982	23.4	21.8	128 E	13	84
		141851 2002 PM_6							
8 14	0 24.52	+27 1.2	1.436	2.146	23.7	21.4	121 W	72	37
8 19	0 17.99	+27 38.7	1.370	2.132	22.5	21.2	126 W	73	36
8 24	0 10.02	+28 8.8	1.308	2.117	21.0	21.0	131 W	73	36
8 29	0 0.56	+28 29.6	1.251	2.100	19.5	20.9	136 W	73	36
9 3	23 49.66	+28 38.6	1.200	2.081	17.9	20.7	141 W	74	35
9 8	23 37.45	+28 33.5	1.154	2.061	16.4	20.6	145 W	74	35
9 13	23 24.17	+28 12.2	1.116	2.040	15.2	20.4	148 W	73	36

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		141851 2002 PM_6 *(continuation)*							
	h m	° ′			°	m	°	°	°
9 18	23 10.18	+27 33.5	1.086	2.017	14.6	20.3	150 E	73	36
9 23	22 55.92	+26 37.4	1.063	1.993	14.9	20.3	149 E	72	37
9 28	22 41.85	+25 24.9	1.049	1.967	16.1	20.2	147 E	70	39
10 3	22 28.43	+23 58.4	1.042	1.939	18.0	20.3	143 E	69	40
10 8	22 16.05	+22 21.3	1.043	1.910	20.3	20.3	138 E	67	42
10 13	22 5.01	+20 37.9	1.051	1.879	22.9	20.4	133 E	66	43
10 18	21 55.49	+18 52.1	1.065	1.847	25.5	20.4	127 E	64	45
10 23	21 47.55	+17 7.4	1.084	1.812	28.0	20.5	121 E	62	47
10 28	21 41.19	+15 26.5	1.107	1.776	30.4	20.6	115 E	60	49
11 2	21 36.35	+13 51.6	1.133	1.738	32.5	20.6	110 E	59	50
11 7	21 32.93	+12 23.8	1.160	1.698	34.5	20.7	104 E	57	51*
11 12	21 30.83	+11 4.2	1.187	1.656	36.2	20.7	99 E	56	52*
11 17	21 29.92	+ 9 52.8	1.214	1.612	37.8	20.8	93 E	55	51*
11 22	21 30.08	+ 8 49.6	1.240	1.565	39.1	20.8	88 E	54	49*
11 27	21 31.20	+ 7 54.2	1.264	1.516	40.3	20.8	84 E	53	46*
12 2	21 33.18	+ 7 6.2	1.285	1.465	41.4	20.8	79 E	52*	44*
12 7	21 35.95	+ 6 25.2	1.302	1.411	42.4	20.8	75 E	51*	40*
12 12	21 39.41	+ 5 50.6	1.315	1.354	43.3	20.7	70 E	50*	37*
12 17	21 43.50	+ 5 21.6	1.322	1.294	44.2	20.7	66 E	49*	34*
12 22	21 48.14	+ 4 57.5	1.325	1.230	45.1	20.6	62 E	47*	30*
12 27	21 53.28	+ 4 37.5	1.320	1.164	46.1	20.5	59 E	45*	27*
1 1	21 58.86	+ 4 20.5	1.309	1.093	47.3	20.4	55 E	43*	24*
1 6	22 4.83	+ 4 5.4	1.290	1.018	48.7	20.2	51 E	41*	21*
1 11	22 11.11	+ 3 50.4	1.262	0.938	50.5	20.0	47 E	39*	18*
1 16	22 17.56	+ 3 32.9	1.225	0.852	52.9	19.8	44 E	36*	15*
1 21	22 24.01	+ 3 9.0	1.177	0.761	56.2	19.6	40 E	33*	13*
		385423 2003 DE_6							
8 14	0 32.15	+ 0 54.6	0.895	1.753	24.8	21.3	133 W	46	63
8 19	0 30.10	− 1 4.5	0.879	1.774	21.8	21.2	139 W	44	65
8 24	0 27.03	− 3 12.1	0.867	1.794	18.6	21.1	145 W	42	67
8 29	0 23.02	− 5 26.0	0.861	1.814	15.4	21.0	152 W	40	69
9 3	0 18.18	− 7 42.7	0.860	1.834	12.1	20.9	158 W	37	72
9 8	0 12.68	− 9 58.7	0.866	1.853	9.2	20.8	163 W	35	74
9 13	0 6.77	−12 9.9	0.879	1.872	7.2	20.8	167 W	33	76
9 18	0 0.68	−14 12.6	0.898	1.891	6.9	20.9	167 W	31	78
9 23	23 54.66	−16 3.8	0.924	1.909	8.4	21.0	164 E	29	80
9 28	23 48.94	−17 41.4	0.957	1.926	10.7	21.2	159 E	27	82
10 3	23 43.72	−19 4.3	0.995	1.944	13.2	21.4	154 E	26	83
10 8	23 39.18	−20 12.1	1.039	1.961	15.6	21.6	148 E	25	84
10 13	23 35.44	−21 5.2	1.089	1.977	17.8	21.8	143 E	24	85
10 18	23 32.58	−21 44.5	1.142	1.993	19.8	22.0	137 E	23	86
		440799 2006 PZ_9							
8 14	1 7.67	+ 2 10.3	0.715	1.536	32.9	21.5	125 W	47	62
8 24	1 13.09	+ 1 28.7	0.682	1.558	28.3	21.3	133 W	46	63
9 3	1 13.88	+ 0 20.5	0.658	1.583	22.7	21.1	143 W	45	64
9 13	1 10.20	− 1 7.3	0.647	1.611	16.3	20.9	153 W	44	65
9 23	1 3.04	− 2 41.5	0.653	1.640	9.8	20.7	164 W	42	67
10 3	0 54.08	− 4 6.4	0.676	1.672	5.5	20.6	171 W	41	68
10 13	0 45.32	− 5 7.9	0.720	1.704	8.4	20.9	166 E	40	69
10 23	0 38.58	− 5 37.4	0.783	1.738	13.7	21.4	156 E	39	70
11 2	0 34.89	− 5 34.4	0.864	1.773	18.5	21.8	145 E	39	70
		11284 Belenus							
8 14	1 11.69	+ 9 53.4	1.234	1.957	26.4	21.3	121 W	55	54
8 24	1 14.10	+10 29.5	1.110	1.920	23.9	21.0	130 W	55	54
9 3	1 13.04	+10 47.5	0.997	1.882	20.4	20.6	139 W	56	53
9 13	1 7.97	+10 43.0	0.899	1.841	15.7	20.2	150 W	56	53
9 23	0 58.78	+10 13.0	0.818	1.800	9.9	19.7	162 W	55	54
10 3	0 46.04	+ 9 17.0	0.758	1.757	3.4	19.2	174 W	54	55
10 8	0 38.78	+ 8 40.7	0.737	1.735	2.7	19.0	175 E	54	55
10 13	0 31.31	+ 8 0.5	0.721	1.713	5.9	19.1	170 E	53	56
10 18	0 23.94	+ 7 18.3	0.711	1.690	9.8	19.2	163 E	52	57
10 23	0 17.00	+ 6 36.2	0.707	1.668	13.7	19.3	157 E	52	57
10 28	0 10.77	+ 5 56.0	0.707	1.645	17.6	19.4	150 E	51	58
11 2	0 5.49	+ 5 19.6	0.712	1.622	21.3	19.6	144 E	50	59
11 7	0 1.36	+ 4 48.7	0.720	1.598	24.7	19.7	138 E	50	59
11 12	23 58.51	+ 4 24.5	0.732	1.575	28.0	19.8	132 E	49	60
11 22	23 56.82	+ 3 58.7	0.762	1.529	33.6	19.9	121 E	49	60
12 2	0 0.30	+ 4 4.2	0.798	1.482	38.1	20.1	112 E	49	60
12 12	0 8.57	+ 4 39.6	0.835	1.436	41.7	20.2	104 E	50	59*
12 22	0 21.07	+ 5 42.0	0.870	1.391	44.6	20.3	97 E	51	55*
1 1	0 37.26	+ 7 7.2	0.902	1.348	46.8	20.4	91 E	52	51*
1 11	0 56.82	+ 8 51.5	0.930	1.307	48.7	20.4	86 E	54	47*
1 21	1 19.46	+10 50.3	0.953	1.269	50.1	20.5	82 E	56*	43*

470533 2008 DF_{23}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 14	1 12.00	+23 52.1	1.055	1.739	32.0	21.4	114 W	69	40
8 19	1 13.49	+25 57.5	1.008	1.729	31.2	21.2	118 W	71	38
8 24	1 14.03	+28 5.1	0.964	1.718	30.3	21.1	121 W	73	36
8 29	1 13.48	+30 13.9	0.923	1.708	29.3	21.0	124 W	75	34
9 3	1 11.71	+32 22.7	0.885	1.698	28.2	20.8	127 W	77	32
9 8	1 8.59	+34 29.7	0.850	1.687	27.1	20.7	130 W	79	30
9 13	1 4.04	+36 32.7	0.819	1.677	25.9	20.6	133 W	82	27
9 18	0 58.00	+38 29.0	0.792	1.667	24.8	20.5	136 W	83	26
9 23	0 50.51	+40 15.8	0.769	1.657	23.9	20.3	138 W	85	24
9 28	0 41.69	+41 49.9	0.750	1.647	23.2	20.3	140 W	87	22
10 3	0 31.77	+43 8.3	0.736	1.638	22.8	20.2	141 E	88	21
10 8	0 21.16	+44 8.6	0.725	1.628	22.7	20.1	141 E	89	20
10 13	0 10.37	+44 49.7	0.719	1.619	23.1	20.1	140 E	90	19
10 18	23 59.95	+45 11.9	0.717	1.610	23.8	20.1	139 E	90	19
10 23	23 50.42	+45 16.6	0.719	1.601	24.8	20.2	138 E	90	19
10 28	23 42.24	+45 6.1	0.724	1.592	26.0	20.2	135 E	90	19
11 2	23 35.71	+44 43.4	0.732	1.584	27.4	20.2	133 E	90	19
11 7	23 31.07	+44 11.9	0.743	1.576	28.8	20.3	130 E	89	20
11 12	23 28.40	+43 34.8	0.756	1.568	30.2	20.4	127 E	89	20
11 17	23 27.68	+42 55.2	0.772	1.560	31.5	20.4	124 E	88	21
11 22	23 28.81	+42 15.2	0.789	1.553	32.8	20.5	121 E	87	22
11 27	23 31.67	+41 36.5	0.808	1.546	34.0	20.6	119 E	87	22
12 2	23 36.15	+41 0.4	0.828	1.540	35.1	20.7	116 E	86	23*
12 7	23 42.13	+40 27.6	0.849	1.534	36.1	20.7	113 E	85	23*
12 12	23 49.47	+39 58.9	0.871	1.529	37.0	20.8	111 E	85	23*
12 17	23 58.03	+39 34.2	0.894	1.523	37.8	20.9	108 E	85	23*
12 22	0 7.71	+39 13.5	0.918	1.519	38.5	21.0	106 E	84	23*
12 27	0 18.41	+38 56.4	0.942	1.514	39.1	21.0	104 E	84	22*
1 1	0 30.02	+38 42.5	0.967	1.511	39.6	21.1	102 E	84	22*
1 6	0 42.49	+38 31.3	0.993	1.507	40.1	21.2	99 E	84	21*
1 11	0 55.73	+38 22.3	1.020	1.505	40.4	21.2	97 E	83	21*
1 16	1 9.65	+38 14.9	1.047	1.502	40.7	21.3	95 E	83	21*
1 21	1 24.17	+38 8.3	1.075	1.501	40.9	21.3	93 E	83	20*

360491 2002 VB_{92}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	1 16.63	+41 38.4	1.869	2.332	24.9	21.3	104 W	87	22
8 19	1 18.30	+42 4.3	1.798	2.314	24.6	21.2	108 W	87	22
8 24	1 19.22	+42 24.7	1.727	2.296	24.2	21.1	111 W	87	22
8 29	1 19.34	+42 38.7	1.657	2.278	23.7	21.0	115 W	88	21
9 3	1 18.60	+42 45.2	1.590	2.259	23.0	20.9	119 W	88	21
9 8	1 16.97	+42 42.7	1.525	2.240	22.1	20.7	123 W	88	21
9 13	1 14.45	+42 29.8	1.462	2.221	21.1	20.6	127 W	87	22
9 18	1 11.06	+42 5.0	1.403	2.201	20.0	20.4	132 W	87	22
9 23	1 6.88	+41 26.8	1.347	2.182	18.7	20.3	136 W	86	23
9 28	1 2.01	+40 33.5	1.296	2.162	17.3	20.1	140 W	86	23
10 3	0 56.61	+39 24.1	1.249	2.142	15.9	20.0	144 W	84	25
10 8	0 50.87	+37 57.5	1.208	2.122	14.5	19.9	148 E	83	26
10 13	0 45.05	+36 14.0	1.173	2.101	13.4	19.7	151 E	81	28
10 18	0 39.39	+34 14.2	1.145	2.081	12.7	19.6	153 E	79	30
10 23	0 34.12	+32 0.1	1.124	2.060	12.7	19.6	153 E	77	32
10 28	0 29.45	+29 34.4	1.110	2.040	13.4	19.5	152 E	75	34
11 2	0 25.54	+27 0.3	1.103	2.019	14.7	19.6	149 E	72	37
11 7	0 22.53	+24 21.8	1.103	1.998	16.5	19.6	145 E	69	40
11 12	0 20.51	+21 42.9	1.111	1.977	18.6	19.7	140 E	67	42
11 17	0 19.51	+19 7.3	1.124	1.956	20.8	19.7	135 E	64	45
11 22	0 19.52	+16 38.2	1.144	1.935	22.9	19.8	130 E	62	47
11 27	0 20.52	+14 17.8	1.168	1.913	25.0	19.9	125 E	59	50
12 2	0 22.46	+12 7.8	1.197	1.892	26.9	20.0	120 E	57	52
12 7	0 25.29	+10 9.3	1.230	1.871	28.5	20.1	115 E	55	54
12 12	0 28.96	+ 8 22.6	1.265	1.850	30.0	20.1	110 E	53	56*
12 22	0 38.54	+ 5 24.1	1.342	1.808	32.3	20.3	101 E	50	57*
1 1	0 50.69	+ 3 8.2	1.423	1.767	33.8	20.4	93 E	48	56*
1 11	1 5.05	+ 1 29.0	1.504	1.726	34.6	20.5	85 E	46	54*
1 21	1 21.27	+ 0 19.5	1.582	1.686	34.9	20.6	78 E	45*	51*

18736 1998 NU

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	1 18.35	+11 45.7	2.582	3.193	16.2	21.4	119 W	57	52
8 24	1 16.45	+11 47.0	2.434	3.165	14.5	21.1	129 W	57	52
9 3	1 12.31	+11 34.8	2.301	3.135	12.1	20.9	139 W	57	52
9 13	1 5.96	+11 7.8	2.189	3.104	9.2	20.7	150 W	56	53
9 23	0 57.69	+10 26.6	2.101	3.072	5.7	20.4	162 W	55	54
10 3	0 48.07	+ 9 33.1	2.042	3.038	2.1	20.1	174 W	55	54
10 8	0 42.99	+ 9 2.9	2.024	3.021	1.4	20.0	176 E	54	55
10 13	0 37.89	+ 8 31.2	2.013	3.004	2.8	20.1	171 E	54	55
10 18	0 32.90	+ 7 59.1	2.010	2.986	4.8	20.2	166 E	53	56
10 23	0 28.14	+ 7 27.1	2.015	2.967	6.7	20.3	160 E	52	57
10 28	0 23.70	+ 6 56.0	2.026	2.949	8.7	20.4	153 E	52	57
11 2	0 19.68	+ 6 26.8	2.045	2.930	10.5	20.5	147 E	51	58
11 12	0 13.22	+ 5 36.0	2.099	2.891	13.9	20.6	136 E	51	58
11 22	0 9.18	+ 4 58.8	2.174	2.851	16.6	20.7	124 E	50	59

18736 1998 NU *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 2	0 7.70	+ 4 37.2	2.262	2.809	18.7	20.9	114 E	50	59
12 12	0 8.75	+ 4 31.7	2.359	2.766	20.2	21.0	104 E	50	59*
12 22	0 12.14	+ 4 41.9	2.460	2.722	21.1	21.1	95 E	50	55*
1 1	0 17.66	+ 5 6.4	2.561	2.676	21.5	21.1	86 E	50	50*
1 11	0 25.07	+ 5 43.8	2.658	2.629	21.4	21.2	78 E	51*	44*
1 21	0 34.17	+ 6 32.6	2.749	2.581	21.0	21.2	70 E	50*	38*

366774 2004 TB_{18}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	1 18.76	− 8 45.3	1.480	2.220	22.0	21.2	125 W	36	73
8 24	1 19.83	−10 32.6	1.352	2.178	19.6	20.9	134 W	34	75
9 3	1 17.60	−12 45.4	1.241	2.134	16.6	20.6	143 W	32	77
9 13	1 11.67	−15 18.2	1.149	2.088	13.5	20.3	151 W	30	79
9 18	1 7.30	−16 38.5	1.112	2.064	12.2	20.1	154 W	28	81
9 23	1 2.07	−17 58.6	1.080	2.039	11.4	20.0	156 W	27	82
9 28	0 56.08	−19 16.3	1.054	2.014	11.3	19.9	157 W	26	83
10 3	0 49.46	−20 28.9	1.035	1.989	12.1	19.9	155 W	25	84
10 8	0 42.43	−21 33.9	1.022	1.963	13.6	19.9	153 E	23	86
10 13	0 35.24	−22 29.1	1.014	1.937	15.6	19.9	149 E	23	86
10 18	0 28.16	−23 12.6	1.012	1.910	17.9	20.0	144 E	22	87
10 23	0 21.45	−23 43.7	1.016	1.882	20.3	20.0	139 E	21	88
10 28	0 15.33	−24 1.8	1.023	1.855	22.8	20.1	134 E	21	88
11 2	0 10.01	−24 7.2	1.034	1.826	25.1	20.1	129 E	21	88
11 7	0 5.65	−24 0.3	1.049	1.797	27.4	20.2	124 E	21	88
11 12	0 2.35	−23 42.1	1.065	1.768	29.4	20.3	119 E	21	88
11 17	0 0.18	−23 13.6	1.084	1.738	31.3	20.3	114 E	22	87
11 22	23 59.13	−22 36.0	1.103	1.708	33.0	20.4	109 E	22	87
11 27	23 59.19	−21 50.1	1.123	1.678	34.6	20.4	105 E	23	86
12 2	0 0.32	−20 57.0	1.144	1.647	36.0	20.4	101 E	24	85
12 7	0 2.48	−19 57.2	1.164	1.616	37.2	20.5	97 E	25	84*
12 12	0 5.61	−18 51.4	1.183	1.584	38.3	20.5	93 E	26	80*
12 17	0 9.65	−17 40.2	1.201	1.552	39.3	20.5	90 E	27	76*
12 22	0 14.53	−16 24.0	1.217	1.520	40.2	20.5	87 E	29	72*
12 27	0 20.20	−15 3.1	1.232	1.488	41.0	20.5	84 E	30	68*
1 1	0 26.61	−13 37.7	1.245	1.456	41.8	20.5	81 E	31	64*
1 6	0 33.74	−12 7.9	1.256	1.424	42.5	20.5	78 E	33	61*
1 11	0 41.54	−10 34.0	1.265	1.392	43.1	20.5	75 E	34	57*
1 16	0 49.99	− 8 56.0	1.272	1.360	43.7	20.5	73 E	36*	54*
1 21	0 59.05	− 7 14.1	1.276	1.328	44.4	20.4	71 E	37*	51*

523810 2008 RG_{98}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	1 23.40	+14 52.2	1.817	2.440	21.9	21.4	116 W	60	49
8 24	1 22.37	+15 42.8	1.622	2.359	20.4	21.0	126 W	61	48
9 3	1 17.86	+16 23.3	1.440	2.275	18.0	20.6	136 W	61	48
9 13	1 9.08	+16 48.8	1.275	2.187	14.6	20.1	147 W	62	47
9 18	1 2.88	+16 54.0	1.200	2.142	12.5	19.9	152 W	62	47
9 23	0 55.40	+16 52.9	1.131	2.096	10.2	19.6	158 W	62	47
9 28	0 46.66	+16 44.4	1.068	2.049	8.0	19.4	164 W	62	47
10 3	0 36.71	+16 27.7	1.012	2.001	6.3	19.1	167 W	61	48
10 8	0 25.72	+16 2.0	0.964	1.952	6.3	19.0	168 E	61	48
10 13	0 13.92	+15 27.3	0.923	1.901	8.5	18.9	164 E	60	49
10 18	0 1.66	+14 44.1	0.890	1.850	11.8	18.9	158 E	60	49
10 23	23 49.30	+13 53.6	0.864	1.798	15.8	18.9	151 E	59	50
10 28	23 37.22	+12 57.8	0.845	1.744	20.0	18.9	143 E	58	51
11 2	23 25.79	+11 58.9	0.832	1.690	24.3	19.0	136 E	57	52
11 7	23 15.33	+10 59.5	0.824	1.634	28.5	19.0	128 E	56	53
11 12	23 6.08	+10 2.2	0.820	1.577	32.6	19.0	121 E	55	54
11 17	22 58.17	+ 9 8.8	0.819	1.519	36.5	19.1	114 E	54	55
11 22	22 51.63	+ 8 20.9	0.819	1.459	40.3	19.1	107 E	53	56*
12 2	22 42.55	+ 7 4.3	0.819	1.336	47.3	19.1	95 E	52	53*
12 12	22 38.20	+ 6 14.5	0.812	1.207	54.2	19.0	84 E	51	47*
12 22	22 37.33	+ 5 46.9	0.789	1.073	61.6	18.9	74 E	51*	39*
12 27	22 37.67	+ 5 38.0	0.771	1.004	65.8	18.9	69 E	50*	35*
1 1	22 38.14	+ 5 29.5	0.746	0.935	70.6	18.8	64 E	48*	31*
1 6	22 38.34	+ 5 17.7	0.716	0.866	76.3	18.7	59 E	46*	27*
1 11	22 37.66	+ 4 56.9	0.679	0.796	83.2	18.7	54 E	43*	23*
1 13	22 36.96	+ 4 44.1	0.662	0.769	86.5	18.7	51 E	41*	21*
1 15	22 35.90	+ 4 27.6	0.645	0.742	90.0	18.7	49 E	40*	20*
1 17	22 34.41	+ 4 6.5	0.627	0.716	94.0	18.7	47 E	38*	18*
1 19	22 32.38	+ 3 39.5	0.608	0.690	98.4	18.8	44 E	36*	16*
1 21	22 29.71	+ 3 5.5	0.589	0.664	103.3	18.9	41 E	33*	14*

461419 2001 UH_1

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	2 7.70	− 5 47.6	1.919	2.487	22.1	21.5	112 W	39*	70
8 24	2 9.52	− 5 46.9	1.780	2.457	20.7	21.2	121 W	39	70
9 3	2 8.48	− 5 54.0	1.651	2.427	18.5	21.0	130 W	39	70
9 13	2 4.18	− 6 6.3	1.536	2.396	15.7	20.7	140 W	39	70
9 23	1 56.48	− 6 19.1	1.440	2.363	12.2	20.4	150 W	39	70

461419 2001 UH_1 *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 28	1 51.40	− 6 23.9	1.400	2.347	10.3	20.2	155 W	39	70
10 3	1 45.59	− 6 26.4	1.366	2.331	8.5	20.1	160 W	39	70
10 8	1 39.15	− 6 25.8	1.339	2.314	7.1	20.0	163 W	39	70
10 13	1 32.25	− 6 21.1	1.318	2.297	6.4	19.9	165 W	39	70
10 18	1 25.08	− 6 11.5	1.305	2.280	6.8	19.9	164 E	39	70
10 23	1 17.84	− 5 56.5	1.299	2.263	8.2	19.9	161 E	39	70
11 2	1 3.98	− 5 9.3	1.307	2.228	12.4	20.1	151 E	40	69
11 12	0 52.22	− 3 59.2	1.340	2.193	16.8	20.2	140 E	41	68
11 22	0 43.63	− 2 28.9	1.393	2.158	20.8	20.4	129 E	43	66
12 2	0 38.69	− 0 42.3	1.463	2.122	24.0	20.6	119 E	44	65
12 12	0 37.45	+ 1 17.2	1.542	2.085	26.5	20.7	109 E	46	63
12 22	0 39.64	+ 3 26.6	1.628	2.049	28.2	20.9	100 E	48	59*
1 1	0 44.90	+ 5 43.8	1.716	2.012	29.2	21.0	92 E	51	53*
1 11	0 52.88	+ 8 7.4	1.804	1.976	29.7	21.1	85 E	53	47*
1 21	1 3.26	+10 36.2	1.888	1.940	29.8	21.1	78 E	55*	40*

162567 2000 RW_{37}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	2 15.06	+22 7.0	0.652	1.315	48.9	21.4	102 W	67*	42
8 19	2 27.28	+25 7.2	0.613	1.297	49.5	21.2	103 W	70*	39
8 24	2 40.33	+28 19.6	0.575	1.278	50.1	21.1	104 W	73	36
8 29	2 54.47	+31 44.4	0.540	1.259	50.9	20.9	105 W	77	32
9 3	3 10.02	+35 21.7	0.507	1.240	51.8	20.8	105 W	80	29
9 8	3 27.43	+39 10.3	0.477	1.221	52.9	20.7	105 W	84	25
9 13	3 47.33	+43 7.8	0.450	1.201	54.2	20.5	105 W	88	21
9 18	4 10.57	+47 9.7	0.426	1.181	55.7	20.4	104 W	88	17
9 23	4 38.28	+51 8.8	0.406	1.161	57.5	20.3	103 W	84	13
9 25	4 50.92	+52 41.3	0.398	1.153	58.3	20.3	102 W	82	11
9 27	5 4.57	+54 10.8	0.391	1.145	59.1	20.3	101 W	81	10
9 29	5 19.33	+55 36.1	0.385	1.137	60.0	20.3	101 W	79	8
10 1	5 35.27	+56 56.3	0.380	1.130	60.9	20.2	100 W	78	7
10 3	5 52.42	+58 9.9	0.374	1.122	61.8	20.2	99 W	77	6
10 5	6 10.82	+59 15.8	0.370	1.114	62.8	20.2	98 W	76	5*
10 7	6 30.40	+60 12.5	0.365	1.106	63.7	20.2	97 W	75	4*
10 9	6 51.08	+60 58.7	0.362	1.098	64.7	20.2	96 W	74*	3*
10 11	7 12.66	+61 33.4	0.359	1.091	65.7	20.2	95 W	73*	2*
10 13	7 34.90	+61 55.6	0.356	1.083	66.8	20.2	94 W	73*	1*
10 14	7 46.17	+62 1.8	0.355	1.079	67.3	20.2	94 W	72*	1*
10 15	7 57.48	+62 4.6	0.354	1.076	67.8	20.2	93 W	72*	—
10 16	8 8.79	+62 4.1	0.353	1.072	68.3	20.2	93 W	72*	—
10 17	8 20.06	+62 0.3	0.352	1.068	68.8	20.2	92 W	71*	—
10 18	8 31.23	+61 53.1	0.351	1.065	69.3	20.2	91 W	71*	—
10 19	8 42.28	+61 42.7	0.350	1.061	69.9	20.2	91 W	71*	—
10 20	8 53.16	+61 29.2	0.350	1.057	70.4	20.2	90 W	71*	—
10 21	9 3.83	+61 12.6	0.349	1.054	70.9	20.2	90 W	71*	—
10 22	9 14.27	+60 53.0	0.349	1.050	71.4	20.2	89 W	70*	—
10 23	9 24.45	+60 30.6	0.349	1.047	71.9	20.2	89 W	70*	—
10 25	9 43.95	+59 38.0	0.348	1.040	72.9	20.2	88 W	70*	—
10 27	10 2.22	+58 35.9	0.349	1.033	73.8	20.3	86 W	70*	—
10 29	10 19.23	+57 25.4	0.349	1.026	74.8	20.3	85 W	69*	—
10 31	10 34.98	+56 7.8	0.349	1.020	75.7	20.3	84 W	69*	—
11 2	10 49.51	+54 44.2	0.350	1.013	76.6	20.3	83 W	69*	—
11 4	11 2.91	+53 15.6	0.352	1.007	77.4	20.3	82 W	69*	—
11 6	11 15.26	+51 42.8	0.353	1.001	78.2	20.4	81 W	69*	—
11 8	11 26.64	+50 6.6	0.354	0.995	79.0	20.4	80 W	69*	—
11 10	11 37.16	+48 27.5	0.356	0.990	79.7	20.4	80 W	69*	1*
11 12	11 46.91	+46 46.1	0.358	0.984	80.4	20.4	79 W	69*	2*
11 14	11 55.96	+45 2.9	0.360	0.979	81.0	20.5	78 W	69*	2*
11 16	12 4.40	+43 18.1	0.362	0.974	81.6	20.5	77 W	69*	3*
11 18	12 12.30	+41 32.1	0.365	0.970	82.2	20.5	76 W	69*	4*
11 20	12 19.73	+39 45.2	0.367	0.965	82.7	20.5	76 W	69*	6*
11 22	12 26.73	+37 57.5	0.370	0.961	83.1	20.6	75 W	68*	7*
11 27	12 42.72	+33 26.3	0.377	0.952	84.0	20.6	74 W	68*	10*
12 2	12 57.02	+28 54.0	0.384	0.945	84.6	20.7	73 W	66*	14*
12 7	13 10.09	+24 22.1	0.392	0.940	84.8	20.7	72 W	64*	18*
12 12	13 22.29	+19 51.7	0.400	0.937	84.8	20.7	71 W	61*	22*
12 17	13 33.90	+15 23.8	0.409	0.936	84.5	20.8	71 W	58*	27*
12 22	13 45.15	+10 59.3	0.417	0.937	83.9	20.8	71 W	55*	32*
12 27	13 56.18	+ 6 39.2	0.426	0.940	83.0	20.8	72 W	51*	37*
1 1	14 7.11	+ 2 24.5	0.434	0.945	82.0	20.8	72 W	47*	42*
1 6	14 17.98	− 1 43.9	0.442	0.952	80.8	20.8	73 W	43*	47*
1 11	14 28.84	− 5 45.4	0.450	0.961	79.4	20.9	74 W	39*	52*
1 16	14 39.74	− 9 39.6	0.458	0.972	77.9	20.9	75 W	35	57*
1 21	14 50.68	−13 26.0	0.464	0.984	76.3	20.9	76 W	32	61*

67399 2000 PJ_6

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	2 16.03	+25 27.4	1.227	1.730	35.1	21.4	101 W	70*	39
8 19	2 18.57	+26 45.5	1.181	1.736	34.4	21.3	104 W	72	37
8 24	2 20.20	+28 3.3	1.136	1.740	33.5	21.2	108 W	73	36
8 29	2 20.80	+29 20.4	1.091	1.744	32.4	21.1	112 W	74	35

67399 2000 PJ_6 *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 3	2 20.22	+30 36.4	1.047	1.747	31.2	20.9	116 W	76	33
9 8	2 18.32	+31 50.4	1.006	1.750	29.7	20.8	121 W	77	32
9 13	2 14.97	+33 1.2	0.966	1.751	28.0	20.7	125 W	78	31
9 18	2 10.05	+34 7.2	0.929	1.752	26.1	20.5	130 W	79	30
9 23	2 3.50	+35 6.7	0.895	1.751	24.1	20.4	135 W	80	29
9 28	1 55.31	+35 57.2	0.865	1.750	22.0	20.3	139 W	81	28
10 3	1 45.56	+36 36.0	0.839	1.748	19.9	20.1	144 W	82	27
10 8	1 34.48	+37 0.5	0.819	1.746	18.0	20.0	147 W	82	27
10 13	1 22.43	+37 8.6	0.803	1.742	16.4	19.9	150 W	82	27
10 18	1 9.92	+36 59.4	0.793	1.738	15.6	19.9	152 E	82	27
10 23	0 57.49	+36 33.0	0.789	1.732	15.6	19.8	152 E	82	27
10 28	0 45.68	+35 51.2	0.791	1.726	16.5	19.9	150 E	81	28
11 2	0 34.95	+34 56.7	0.798	1.719	18.1	19.9	147 E	80	29
11 7	0 25.68	+33 53.1	0.810	1.712	20.2	20.0	143 E	79	30
11 12	0 18.09	+32 44.5	0.828	1.703	22.4	20.1	139 E	78	31
11 17	0 12.28	+31 34.8	0.849	1.694	24.7	20.2	134 E	77	32
11 22	0 8.23	+30 26.9	0.874	1.683	27.0	20.3	129 E	75	34
11 27	0 5.85	+29 23.2	0.901	1.672	29.1	20.5	125 E	74	35
12 2	0 5.04	+28 25.4	0.932	1.660	31.0	20.6	120 E	73	36
12 7	0 5.67	+27 34.6	0.963	1.648	32.7	20.7	115 E	73	36*
12 12	0 7.62	+26 51.4	0.997	1.634	34.2	20.8	111 E	72	37*
12 17	0 10.75	+26 16.0	1.030	1.620	35.5	20.9	107 E	71	37*
12 22	0 14.93	+25 48.1	1.064	1.604	36.7	21.0	103 E	71	36*
12 27	0 20.07	+25 27.5	1.098	1.588	37.7	21.0	99 E	70	35*
1 1	0 26.07	+25 13.7	1.131	1.571	38.5	21.1	96 E	70	34*
1 6	0 32.88	+25 6.3	1.164	1.554	39.2	21.1	92 E	70	32*
1 11	0 40.43	+25 4.7	1.195	1.535	39.8	21.2	89 E	70	31*
1 16	0 48.65	+25 8.3	1.225	1.516	40.3	21.2	86 E	70*	29*
1 21	0 57.51	+25 16.4	1.253	1.496	40.8	21.3	83 E	70*	28*

255527 2006 ET_{44}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	2 19.58	+10 31.6	1.024	1.616	37.3	21.5	105 W	55*	53
8 19	2 25.94	+10 2.8	0.984	1.620	36.4	21.4	108 W	55*	54
8 24	2 31.60	+ 9 25.7	0.945	1.623	35.3	21.3	112 W	54	55
8 29	2 36.49	+ 8 39.8	0.907	1.626	34.0	21.2	116 W	54	55
9 3	2 40.49	+ 7 44.7	0.871	1.629	32.4	21.0	120 W	53	56
9 8	2 43.52	+ 6 40.0	0.836	1.631	30.7	20.9	124 W	52	57
9 13	2 45.49	+ 5 25.8	0.803	1.634	28.7	20.8	129 W	50	59
9 18	2 46.33	+ 4 2.4	0.773	1.636	26.5	20.6	133 W	49	60
9 23	2 46.01	+ 2 30.6	0.746	1.637	24.0	20.5	138 W	48	61
9 28	2 44.47	+ 0 51.3	0.722	1.639	21.4	20.3	143 W	46	63
10 3	2 41.73	− 0 53.4	0.703	1.640	18.8	20.2	148 W	44	65
10 8	2 37.84	− 2 41.2	0.688	1.641	16.2	20.0	153 W	42	67
10 13	2 32.95	− 4 28.7	0.678	1.642	14.0	19.9	157 W	41	68
10 18	2 27.26	− 6 12.4	0.673	1.642	12.6	19.9	159 W	39	70
10 23	2 21.03	− 7 48.5	0.673	1.642	12.3	19.9	159 W	37	72
10 28	2 14.54	− 9 14.0	0.679	1.642	13.3	19.9	158 W	36	73
11 2	2 8.10	−10 26.1	0.689	1.641	15.1	20.0	154 E	35	74
11 7	2 2.01	−11 22.9	0.705	1.641	17.5	20.1	150 E	34	75
11 12	1 56.57	−12 3.6	0.725	1.640	20.0	20.3	145 E	33	76
11 17	1 51.98	−12 28.5	0.749	1.638	22.5	20.4	141 E	33	76
11 22	1 48.38	−12 38.4	0.777	1.637	24.9	20.6	136 E	32	77
11 27	1 45.84	−12 34.7	0.808	1.635	27.1	20.7	131 E	32	77
12 2	1 44.40	−12 18.8	0.841	1.633	29.0	20.9	126 E	33	76
12 7	1 44.07	−11 52.1	0.877	1.630	30.8	21.0	122 E	33	76
12 12	1 44.80	−11 16.3	0.914	1.628	32.3	21.1	118 E	34	75
12 17	1 46.54	−10 32.7	0.953	1.625	33.6	21.3	114 E	34	75
12 22	1 49.21	− 9 42.7	0.992	1.622	34.7	21.4	110 E	35	74
12 27	1 52.75	− 8 47.4	1.033	1.618	35.6	21.5	107 E	36	73

219481 2001 DF_{15}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	2 23.97	+32 52.6	2.857	3.134	18.7	21.4	96 W	77*	31
8 24	2 25.30	+34 24.5	2.733	3.143	18.1	21.3	105 W	79	30
9 3	2 24.16	+35 50.0	2.615	3.151	17.1	21.2	113 W	81	28
9 13	2 20.28	+37 5.7	2.507	3.158	15.7	21.0	122 W	82	27
9 23	2 13.59	+38 7.2	2.414	3.164	13.9	20.9	131 W	83	26
10 3	2 4.29	+38 49.5	2.339	3.169	11.8	20.8	140 W	84	25
10 13	1 52.93	+39 7.9	2.287	3.173	9.8	20.6	147 W	84	25
10 23	1 40.51	+39 0.0	2.262	3.176	8.4	20.6	152 E	84	25
11 2	1 28.22	+38 26.7	2.263	3.178	8.2	20.6	153 E	83	26
11 12	1 17.25	+37 32.9	2.293	3.179	9.3	20.6	149 E	83	26
11 22	1 8.55	+36 26.3	2.348	3.180	11.2	20.8	141 E	81	28
12 2	1 2.61	+35 15.5	2.427	3.179	13.2	20.9	133 E	80	29
12 12	0 59.63	+34 8.1	2.525	3.177	15.0	21.1	124 E	79	30
12 22	0 59.50	+33 9.8	2.638	3.175	16.4	21.2	114 E	78	31*
1 1	1 1.94	+32 23.9	2.762	3.171	17.4	21.3	106 E	77	30*
1 11	1 6.69	+31 52.0	2.892	3.167	18.0	21.4	97 E	77	28*

282141 2001 QQ_{170}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	2 43.50	+15 12.0	1.256	1.720	35.7	21.4	98 W	59*	49
8 24	2 55.24	+15 50.0	1.196	1.752	33.9	21.3	105 W	61*	48
9 3	3 3.73	+16 10.7	1.138	1.785	31.5	21.2	112 W	61	48
9 13	3 8.45	+16 13.8	1.084	1.819	28.3	21.0	121 W	61	48

282141 2001 QQ_{170} *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 23	3 9.01	+15 59.4	1.037	1.854	24.3	20.9	131 W	61	48
10 3	3 5.33	+15 27.8	1.002	1.890	19.3	20.7	141 W	60	49
10 13	2 57.77	+14 41.0	0.983	1.927	13.5	20.5	153 W	60	49
10 18	2 52.87	+14 13.1	0.981	1.945	10.4	20.4	159 W	59	50
10 23	2 47.47	+13 43.5	0.984	1.964	7.2	20.3	166 W	59	50
10 28	2 41.78	+13 12.9	0.993	1.982	4.0	20.1	172 W	58	51
11 2	2 36.04	+12 42.6	1.009	2.001	1.3	20.0	177 W	58	51
11 7	2 30.47	+12 13.6	1.031	2.019	2.9	20.2	174 E	57	52
11 12	2 25.30	+11 47.2	1.059	2.038	5.8	20.4	168 E	57	52
11 17	2 20.70	+11 24.2	1.093	2.056	8.6	20.6	162 E	56	53
11 22	2 16.79	+11 5.3	1.133	2.075	11.2	20.9	156 E	56	53
11 27	2 13.67	+10 51.0	1.179	2.093	13.6	21.0	150 E	56	53
12 2	2 11.38	+10 41.5	1.230	2.112	15.7	21.2	144 E	56	53
12 7	2 9.94	+10 36.8	1.285	2.130	17.6	21.4	139 E	56	53

410195 2007 RT_{147}

8 14	2 50.59	+10 43.3	1.164	1.642	37.7	21.2	98 W	54*	53
8 24	3 15.21	+12 1.1	1.040	1.583	38.8	20.9	101 W	57*	52
9 3	3 41.32	+13 10.4	0.925	1.527	39.8	20.6	104 W	58	51
9 13	4 9.06	+14 9.5	0.820	1.472	40.8	20.3	107 W	59	50
9 18	4 23.59	+14 34.7	0.771	1.446	41.3	20.2	108 W	60	49
9 23	4 38.58	+14 57.0	0.725	1.421	41.7	20.0	110 W	60	49
9 28	4 54.06	+15 15.9	0.681	1.396	42.2	19.8	111 W	60	49
10 3	5 9.99	+15 31.5	0.641	1.373	42.6	19.7	112 W	61	48
10 8	5 26.36	+15 43.4	0.603	1.351	43.1	19.5	113 W	61	48
10 13	5 43.15	+15 51.8	0.568	1.330	43.5	19.4	113 W	61	48
10 18	6 0.30	+15 56.8	0.536	1.311	43.9	19.2	114 W	61	48
10 23	6 17.77	+15 58.4	0.507	1.293	44.2	19.1	115 W	61	48
10 28	6 35.47	+15 57.0	0.480	1.277	44.5	18.9	116 W	61	48
11 2	6 53.25	+15 52.8	0.456	1.263	44.7	18.8	116 W	61	48
11 7	7 10.98	+15 46.8	0.435	1.251	44.9	18.7	117 W	61	48
11 12	7 28.49	+15 39.6	0.416	1.241	44.8	18.6	118 W	61	48
11 17	7 45.63	+15 32.3	0.399	1.232	44.6	18.5	119 W	61	48
11 22	8 2.21	+15 26.1	0.385	1.227	44.2	18.4	120 W	60	49
11 27	8 18.04	+15 22.0	0.373	1.223	43.6	18.3	121 W	60	49
12 2	8 32.88	+15 21.4	0.362	1.222	42.6	18.2	123 W	60	49
12 7	8 46.55	+15 25.7	0.354	1.223	41.4	18.1	125 W	60	49
12 12	8 58.88	+15 35.9	0.347	1.226	39.8	18.0	127 W	61	48
12 22	9 18.99	+16 17.3	0.338	1.239	35.5	17.9	133 W	61	48
1 1	9 32.31	+17 28.1	0.337	1.261	29.8	17.7	140 W	62	47
1 11	9 38.62	+19 3.0	0.343	1.291	22.8	17.6	149 W	64	45
1 21	9 38.93	+20 46.7	0.360	1.328	15.1	17.5	159 W	66	43

422988 2003 SE_{41}

8 14	2 50.92	+22 26.9	1.410	1.795	34.3	21.3	94 W	65*	42
8 24	3 10.15	+24 41.0	1.290	1.757	34.7	21.1	99 W	69*	39
9 3	3 29.22	+26 52.4	1.176	1.721	34.7	20.9	104 W	72	37
9 13	3 47.82	+29 0.5	1.068	1.687	34.4	20.6	109 W	74	35
9 23	4 5.56	+31 4.9	0.968	1.655	33.6	20.3	114 W	76	33
9 28	4 13.94	+32 5.6	0.921	1.640	33.0	20.2	117 W	77	32
10 3	4 21.89	+33 5.2	0.876	1.625	32.3	20.0	120 W	78	31
10 8	4 29.29	+34 3.4	0.834	1.612	31.4	19.9	123 W	79	30
10 13	4 36.04	+35 0.1	0.794	1.599	30.3	19.7	126 W	80	29
10 18	4 42.06	+35 54.8	0.756	1.587	29.1	19.6	129 W	81	28
10 23	4 47.21	+36 47.3	0.721	1.576	27.6	19.4	133 W	82	27
10 28	4 51.39	+37 36.9	0.688	1.566	26.0	19.2	136 W	83	26
11 2	4 54.49	+38 22.8	0.659	1.556	24.2	19.1	140 W	83	26
11 7	4 56.41	+39 3.8	0.633	1.548	22.2	18.9	144 W	84	25
11 12	4 57.15	+39 38.7	0.610	1.541	20.1	18.8	148 W	85	24
11 17	4 56.73	+40 6.2	0.591	1.534	17.8	18.6	152 W	85	24
11 22	4 55.28	+40 24.9	0.575	1.529	15.7	18.5	155 W	85	24
11 27	4 52.95	+40 33.5	0.563	1.525	13.7	18.4	159 W	86	23
12 2	4 50.01	+40 31.1	0.555	1.522	12.2	18.3	161 W	86	23
12 7	4 46.78	+40 17.3	0.552	1.520	11.4	18.2	162 E	85	24
12 12	4 43.67	+39 52.5	0.552	1.519	11.7	18.2	162 E	85	24
12 17	4 41.03	+39 18.1	0.557	1.519	12.8	18.3	160 E	84	25
12 22	4 39.16	+38 35.7	0.566	1.521	14.6	18.4	157 E	84	25
12 27	4 38.26	+37 47.4	0.579	1.523	16.8	18.5	153 E	83	26
1 1	4 38.50	+36 55.2	0.596	1.527	19.0	18.7	150 E	82	27
1 6	4 39.96	+36 1.1	0.616	1.532	21.3	18.8	146 E	81	28
1 11	4 42.66	+35 6.9	0.640	1.538	23.4	19.0	142 E	80	29
1 16	4 46.54	+34 13.9	0.668	1.544	25.4	19.1	138 E	79	30
1 21	4 51.51	+33 22.8	0.699	1.552	27.2	19.3	134 E	78	31

497232 2005 EF

8 14	2 56.37	+10 4.4	0.440	1.149	61.1	21.4	96 W	53*	54
8 24	3 1.37	+17 17.7	0.415	1.176	57.0	21.2	103 W	62*	47
9 3	3 1.21	+25 0.1	0.392	1.202	51.9	21.0	110 W	70	39
9 13	2 53.27	+33 0.0	0.373	1.228	46.2	20.8	118 W	78	31

497232 2005 EF *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 23	2 34.44	+40 43.2	0.363	1.253	40.3	20.6	126 W	86	23
10 3	2 2.41	+47 8.0	0.364	1.276	35.1	20.5	133 W	88	17
10 5	1 54.49	+48 8.8	0.366	1.281	34.3	20.5	134 W	87	16
10 7	1 46.17	+49 3.1	0.368	1.286	33.5	20.5	135 W	86	15
10 9	1 37.54	+49 50.3	0.371	1.290	32.9	20.5	136 W	85	14
10 11	1 28.69	+50 30.3	0.374	1.294	32.3	20.5	136 W	84	13
10 13	1 19.73	+51 3.1	0.378	1.299	31.9	20.5	137 W	84	13
10 15	1 10.76	+51 28.5	0.383	1.303	31.5	20.5	137 E	84	13
10 17	1 1.90	+51 46.9	0.388	1.307	31.3	20.6	137 E	83	12
10 19	0 53.25	+51 58.6	0.393	1.311	31.2	20.6	137 E	83	12
10 21	0 44.90	+52 3.9	0.399	1.315	31.1	20.6	137 E	83	12
10 23	0 36.94	+52 3.3	0.405	1.319	31.2	20.7	137 E	83	12
10 25	0 29.44	+51 57.4	0.412	1.323	31.3	20.7	136 E	83	12
10 27	0 22.46	+51 46.8	0.419	1.327	31.5	20.8	136 E	83	12
10 29	0 16.03	+51 32.0	0.427	1.331	31.8	20.8	135 E	83	12
10 31	0 10.19	+51 13.6	0.435	1.335	32.1	20.9	134 E	84	13
11 2	0 4.95	+50 52.3	0.444	1.338	32.4	20.9	134 E	84	13
11 7	23 54.47	+49 49.5	0.467	1.347	33.4	21.1	132 E	85	14
11 12	23 47.57	+48 39.4	0.492	1.355	34.6	21.2	129 E	86	15
11 17	23 43.86	+47 27.7	0.519	1.362	35.7	21.4	126 E	88	17
11 22	23 42.88	+46 18.2	0.547	1.369	36.8	21.6	124 E	89	18

517005 2012 TV_{123}

8 14	3 1.52	− 2 44.2	1.680	2.087	28.7	21.5	99 W	40*	67
8 24	3 16.04	− 3 10.7	1.540	2.039	28.7	21.2	104 W	41*	67
9 3	3 29.46	− 3 52.6	1.408	1.991	28.5	21.0	110 W	41	68
9 13	3 41.35	− 4 49.8	1.283	1.945	27.8	20.7	116 W	40	69
9 23	3 51.28	− 6 0.3	1.167	1.899	26.7	20.4	122 W	39	70
9 28	3 55.36	− 6 39.4	1.113	1.877	25.9	20.3	125 W	38	71
10 3	3 58.74	− 7 20.4	1.062	1.855	25.1	20.1	128 W	38	71
10 8	4 1.36	− 8 2.2	1.014	1.834	24.2	20.0	131 W	37	72
10 13	4 3.17	− 8 43.7	0.969	1.813	23.2	19.8	134 W	36	73
10 18	4 4.11	− 9 23.4	0.927	1.792	22.1	19.7	137 W	36	73
10 23	4 4.16	− 9 59.8	0.889	1.772	21.0	19.5	140 W	35	74
10 28	4 3.30	−10 31.0	0.854	1.753	19.9	19.4	143 W	34	75
11 2	4 1.56	−10 55.2	0.823	1.735	18.9	19.2	146 W	34	75
11 7	3 58.99	−11 10.1	0.796	1.717	18.1	19.1	148 W	34	75
11 12	3 55.72	−11 13.5	0.773	1.699	17.5	19.0	149 W	34	75
11 17	3 51.92	−11 3.7	0.755	1.683	17.4	18.9	149 W	34	75
11 22	3 47.77	−10 39.4	0.740	1.668	17.6	18.9	149 E	34	75
11 27	3 43.52	− 9 59.7	0.730	1.653	18.3	18.9	148 E	35	74
12 2	3 39.39	− 9 4.4	0.724	1.639	19.4	18.9	146 E	36	73
12 7	3 35.64	− 7 53.8	0.723	1.626	20.9	18.9	144 E	37	72
12 12	3 32.51	− 6 29.1	0.725	1.615	22.5	18.9	141 E	39	70
12 17	3 30.19	− 4 51.9	0.732	1.604	24.3	19.0	138 E	40	69
12 22	3 28.82	− 3 4.5	0.742	1.595	26.1	19.0	135 E	42	67
12 27	3 28.48	− 1 8.9	0.755	1.586	27.8	19.1	131 E	44	65
1 1	3 29.24	+ 0 52.7	0.772	1.579	29.5	19.2	128 E	46	63
1 6	3 31.13	+ 2 58.3	0.793	1.573	31.1	19.3	124 E	48	61
1 11	3 34.15	+ 5 5.9	0.816	1.568	32.5	19.4	121 E	50	59
1 16	3 38.27	+ 7 13.7	0.842	1.565	33.8	19.5	118 E	52	57
1 21	3 43.44	+ 9 20.2	0.870	1.563	34.9	19.6	115 E	54	55

282137 2001 QE_{153}

8 14	3 9.25	+14 59.5	1.478	1.822	33.7	21.5	92 W	56*	49
8 24	3 22.47	+15 27.5	1.405	1.849	32.7	21.4	99 W	60*	49
9 3	3 33.04	+15 41.0	1.333	1.876	31.2	21.2	106 W	61	48
9 13	3 40.47	+15 40.1	1.264	1.904	29.0	21.1	114 W	61	48
9 23	3 44.29	+15 25.5	1.200	1.933	26.0	20.9	122 W	60	49
10 3	3 44.16	+14 58.0	1.144	1.963	22.1	20.7	132 W	60	49
10 13	3 40.00	+14 19.0	1.102	1.993	17.5	20.5	143 W	59	50
10 23	3 32.25	+13 31.6	1.077	2.023	12.1	20.3	155 W	59	50
10 28	3 27.32	+13 6.0	1.073	2.038	9.2	20.2	161 W	58	51
11 2	3 21.91	+12 40.2	1.074	2.053	6.3	20.1	167 W	58	51
11 7	3 16.24	+12 15.1	1.082	2.068	3.8	20.0	172 W	57	52
11 12	3 10.54	+11 51.5	1.096	2.083	2.7	20.0	174 W	57	52
11 17	3 5.02	+11 30.3	1.117	2.099	4.4	20.1	171 E	57	52
11 22	2 59.88	+11 12.3	1.144	2.114	6.9	20.3	165 E	56	53
12 2	2 51.35	+10 48.0	1.216	2.144	11.9	20.7	153 E	56	53
12 12	2 45.85	+10 41.3	1.310	2.174	16.1	21.0	142 E	56	53
12 22	2 43.70	+10 52.1	1.423	2.203	19.5	21.4	132 E	56	53
1 1	2 44.77	+11 18.1	1.551	2.232	22.0	21.7	122 E	56	53

400980 2010 XJ_{56}

8 14	3 20.62	− 8 29.0	1.241	1.674	37.1	21.4	95 W	33*	72
8 24	3 37.69	− 8 42.6	1.152	1.657	36.9	21.2	100 W	35*	73
9 3	3 52.91	− 9 7.9	1.064	1.641	36.5	21.0	105 W	36*	73
9 13	4 5.76	− 9 43.0	0.979	1.625	35.6	20.8	110 W	35	74

400980 2010 XJ_{56} *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 23	4 15.63	−10 23.8	0.897	1.609	34.2	20.5	116 W	35	74
10 3	4 21.80	−11 4.3	0.820	1.593	32.3	20.2	122 W	34	75
10 8	4 23.23	−11 21.8	0.784	1.586	31.0	20.1	125 W	34	75
10 13	4 23.42	−11 35.3	0.749	1.578	29.5	20.0	129 W	33	76
10 18	4 22.32	−11 42.9	0.716	1.571	27.9	19.8	132 W	33	76
10 23	4 19.85	−11 42.6	0.686	1.564	26.1	19.6	136 W	33	76
10 28	4 15.99	−11 32.0	0.659	1.557	24.2	19.5	140 W	33	76
11 2	4 10.78	−11 8.9	0.635	1.551	22.2	19.3	144 W	34	75
11 7	4 4.31	−10 30.7	0.614	1.544	20.3	19.2	147 W	34	75
11 12	3 56.81	− 9 35.4	0.598	1.538	18.6	19.1	150 W	35	74
11 17	3 48.57	− 8 22.0	0.586	1.532	17.5	19.0	152 W	37	72
11 22	3 39.94	− 6 50.5	0.579	1.526	17.1	18.9	153 E	38	71
11 27	3 31.32	− 5 2.2	0.577	1.521	17.6	18.9	152 E	40	69
12 2	3 23.10	− 2 59.4	0.580	1.516	19.0	19.0	150 E	42	67
12 7	3 15.65	− 0 45.2	0.588	1.511	21.0	19.1	147 E	44	65
12 12	3 9.29	+ 1 37.0	0.601	1.507	23.4	19.2	143 E	47	62
12 17	3 4.23	+ 4 3.4	0.618	1.503	25.9	19.3	138 E	49	60
12 22	3 0.57	+ 6 30.9	0.640	1.499	28.3	19.5	134 E	52	57
12 27	2 58.36	+ 8 57.1	0.665	1.495	30.6	19.6	129 E	54	55
1 1	2 57.60	+11 20.1	0.693	1.492	32.7	19.8	125 E	56	53
1 6	2 58.26	+13 38.8	0.724	1.490	34.6	19.9	121 E	59	50
1 11	3 0.29	+15 52.3	0.758	1.488	36.2	20.0	117 E	61	48
1 16	3 3.60	+18 0.3	0.793	1.486	37.5	20.2	113 E	63	46
1 21	3 8.09	+20 2.4	0.830	1.484	38.7	20.3	110 E	65	44*

457499 2008 VD_4

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
8 14	3 21.68	+17 44.5	1.364	1.678	37.1	21.5	89 W	58*	46
8 24	3 39.66	+19 8.8	1.293	1.691	36.6	21.4	94 W	62*	45
9 3	3 55.65	+20 22.3	1.222	1.706	35.7	21.3	99 W	65*	44
9 13	4 9.10	+21 25.8	1.152	1.724	34.2	21.1	106 W	66	43
9 23	4 19.39	+22 20.5	1.085	1.743	32.0	20.9	113 W	67	42
10 3	4 25.91	+23 7.3	1.024	1.764	29.0	20.8	121 W	68	41
10 13	4 28.02	+23 46.4	0.969	1.787	25.1	20.5	131 W	69	40
10 23	4 25.42	+24 16.8	0.926	1.810	20.3	20.3	141 W	69	40
11 2	4 18.31	+24 36.0	0.898	1.836	14.5	20.1	152 W	70	39
11 7	4 13.33	+24 40.5	0.891	1.849	11.4	20.0	158 W	70	39
11 12	4 7.67	+24 41.4	0.889	1.862	8.2	19.9	164 W	70	39
11 17	4 1.58	+24 38.8	0.893	1.875	5.0	19.7	170 W	70	39
11 22	3 55.36	+24 33.0	0.903	1.889	2.4	19.6	175 W	70	39
11 27	3 49.28	+24 24.5	0.919	1.903	3.1	19.7	174 E	69	40
12 2	3 43.60	+24 14.1	0.940	1.917	5.8	19.9	169 E	69	40
12 7	3 38.55	+24 2.7	0.968	1.931	8.8	20.2	163 E	69	40
12 12	3 34.32	+23 51.5	1.001	1.945	11.5	20.4	157 E	69	40
12 17	3 31.04	+23 41.2	1.040	1.959	14.1	20.5	151 E	69	40
12 22	3 28.75	+23 32.6	1.084	1.974	16.4	20.7	145 E	69	40
12 27	3 27.48	+23 26.0	1.132	1.988	18.5	20.9	140 E	68	41
1 1	3 27.22	+23 22.0	1.184	2.003	20.3	21.1	135 E	68	41
1 6	3 27.92	+23 20.5	1.240	2.018	21.9	21.3	130 E	68	41
1 11	3 29.55	+23 21.7	1.299	2.032	23.3	21.4	125 E	68	41

176425 2001 VQ_{67}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
8 14	3 25.28	+15 34.8	1.590	1.859	33.0	21.4	88 W	55*	48
8 24	3 42.31	+17 4.4	1.471	1.835	33.4	21.3	94 W	60*	47
9 3	3 58.47	+18 30.7	1.353	1.811	33.4	21.0	99 W	63*	45
9 13	4 13.37	+19 54.8	1.240	1.788	32.9	20.8	105 W	65	44
9 23	4 26.57	+21 18.9	1.131	1.766	31.9	20.6	112 W	66	43
10 3	4 37.49	+22 45.0	1.028	1.745	30.2	20.3	119 W	68	41
10 13	4 45.40	+24 15.6	0.933	1.724	27.7	20.0	127 W	69	40
10 18	4 47.99	+25 3.2	0.889	1.715	26.1	19.8	131 W	70	39
10 23	4 49.54	+25 52.5	0.848	1.705	24.3	19.6	135 W	71	38
10 28	4 49.95	+26 43.3	0.811	1.696	22.2	19.5	140 W	72	37
11 2	4 49.15	+27 35.2	0.776	1.688	19.8	19.3	145 W	73	36
11 7	4 47.09	+28 27.6	0.746	1.679	17.2	19.1	150 W	73	36
11 12	4 43.78	+29 19.6	0.720	1.671	14.4	18.9	155 W	74	35
11 17	4 39.34	+30 9.9	0.699	1.664	11.5	18.7	160 W	75	34
11 22	4 33.90	+30 57.0	0.682	1.657	8.7	18.6	165 W	76	33
11 27	4 27.72	+31 39.7	0.671	1.650	6.7	18.4	169 W	77	32
12 2	4 21.09	+32 16.6	0.665	1.644	6.4	18.4	169 E	77	32
12 7	4 14.42	+32 47.0	0.664	1.638	8.0	18.4	167 E	78	31
12 12	4 8.11	+33 10.8	0.668	1.633	10.8	18.6	162 E	78	31
12 17	4 2.53	+33 28.4	0.677	1.628	13.8	18.7	157 E	78	31
12 22	3 57.98	+33 40.9	0.690	1.624	16.9	18.8	151 E	79	30
12 27	3 54.69	+33 49.2	0.708	1.620	19.8	19.0	146 E	79	30
1 1	3 52.79	+33 54.5	0.729	1.617	22.5	19.1	141 E	79	30
1 6	3 52.37	+33 58.1	0.754	1.614	24.9	19.3	136 E	79	30
1 11	3 53.44	+34 0.9	0.782	1.612	27.2	19.4	132 E	79	30
1 16	3 55.94	+34 3.4	0.812	1.611	29.1	19.6	127 E	79	30
1 21	3 59.80	+34 6.0	0.845	1.610	30.8	19.7	123 E	79	30

337119 1999 TK_{12}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
8 14	3 26.20	+26 59.1	1.185	1.493	42.5	21.5	85 W	65*	37
8 19	3 40.35	+29 28.6	1.125	1.465	43.6	21.4	86 W	68*	35
8 24	3 55.65	+32 4.6	1.069	1.437	44.7	21.2	87 W	72*	32
8 29	4 12.37	+34 46.3	1.015	1.408	45.8	21.1	88 W	75*	29
9 3	4 30.81	+37 32.6	0.966	1.380	47.0	21.0	89 W	78*	26
9 8	4 51.32	+40 21.3	0.919	1.352	48.2	20.9	89 W	81*	24*
9 13	5 14.33	+43 8.9	0.877	1.324	49.5	20.8	89 W	82*	21*
9 18	5 40.28	+45 50.6	0.840	1.296	50.8	20.7	89 W	83*	18*
9 23	6 9.60	+48 19.9	0.807	1.269	52.2	20.6	88 W	82*	15*
9 28	6 42.51	+50 28.8	0.779	1.243	53.7	20.5	88 W	80*	13*
10 3	7 18.86	+52 8.3	0.756	1.217	55.2	20.4	86 W	78*	10*
10 5	7 34.23	+52 37.9	0.749	1.206	55.8	20.4	86 W	77*	9*
10 7	7 49.96	+53 0.8	0.742	1.196	56.4	20.4	85 W	76*	8*
10 9	8 5.97	+53 16.9	0.735	1.187	57.0	20.4	85 W	75*	7*
10 11	8 22.15	+53 25.6	0.730	1.177	57.6	20.3	84 W	74*	7*
10 13	8 38.39	+53 26.9	0.725	1.167	58.2	20.3	84 W	73*	6*
10 15	8 54.58	+53 20.7	0.721	1.158	58.7	20.3	83 W	72*	5*
10 17	9 10.60	+53 7.1	0.718	1.149	59.3	20.3	82 W	72*	5*
10 19	9 26.36	+52 46.2	0.715	1.140	59.9	20.3	82 W	71*	4*
10 21	9 41.75	+52 18.4	0.713	1.131	60.4	20.3	81 W	70*	4*
10 23	9 56.70	+51 44.1	0.711	1.123	60.9	20.3	80 W	70*	3*
10 25	10 11.14	+51 3.6	0.710	1.115	61.4	20.3	80 W	69*	3*
10 27	10 25.02	+50 17.6	0.710	1.107	61.9	20.3	79 W	69*	3*
10 29	10 38.32	+49 26.5	0.710	1.099	62.3	20.3	78 W	68*	2*
10 31	10 51.02	+48 30.9	0.710	1.092	62.7	20.3	78 W	68*	2*
11 2	11 3.12	+47 31.3	0.711	1.085	63.1	20.3	77 W	68*	2*
11 7	11 30.78	+44 48.0	0.714	1.069	64.0	20.3	76 W	67*	3*
11 12	11 55.04	+41 49.6	0.720	1.055	64.6	20.3	74 W	66*	4*
11 17	12 16.35	+38 41.2	0.726	1.043	65.1	20.3	73 W	66*	5*
11 22	12 35.18	+35 26.9	0.733	1.034	65.4	20.3	72 W	66*	7*
11 27	12 51.97	+32 9.5	0.740	1.027	65.6	20.3	71 W	65*	9*
12 2	13 7.09	+28 50.7	0.747	1.023	65.6	20.3	71 W	65*	12*
12 7	13 20.83	+25 32.0	0.753	1.022	65.4	20.3	71 W	64*	15*
12 12	13 33.44	+22 14.0	0.758	1.023	65.1	20.4	71 W	62*	19*
12 17	13 45.12	+18 57.0	0.762	1.028	64.7	20.4	71 W	61*	23*
12 22	13 56.03	+15 41.3	0.765	1.035	64.2	20.4	71 W	59*	27*
12 27	14 6.28	+12 27.1	0.766	1.044	63.7	20.4	72 W	56*	31*
1 1	14 15.97	+ 9 14.3	0.765	1.056	63.0	20.4	73 W	54*	36*
1 6	14 25.12	+ 6 3.1	0.763	1.071	62.2	20.4	74 W	51*	41*
1 11	14 33.78	+ 2 53.1	0.759	1.087	61.3	20.4	76 W	48*	45*
1 16	14 41.94	− 0 15.9	0.754	1.106	60.4	20.4	78 W	45	50*
1 21	14 49.61	− 3 24.1	0.748	1.126	59.3	20.4	80 W	42	56*

275533 1998 MR_{17}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
8 14	3 52.94	+33 37.9	3.134	3.090	18.7	21.5	78 W	65*	30*
8 24	3 59.76	+34 20.4	3.034	3.131	18.8	21.4	86 W	73*	30
9 3	4 4.56	+34 58.6	2.932	3.172	18.5	21.4	94 W	79*	29
9 13	4 7.06	+35 31.7	2.829	3.211	17.8	21.3	103 W	81	28
9 23	4 7.02	+35 58.4	2.731	3.249	16.6	21.2	112 W	81	28
10 3	4 4.28	+36 16.6	2.642	3.286	14.9	21.1	122 W	81	28
10 13	3 58.84	+36 23.5	2.566	3.323	12.8	21.0	132 W	81	28
10 23	3 50.96	+36 16.2	2.510	3.358	10.3	20.9	143 W	81	28
11 2	3 41.21	+35 52.4	2.476	3.392	7.6	20.8	153 W	81	28
11 12	3 30.44	+35 11.3	2.471	3.425	5.2	20.7	162 W	80	29
11 22	3 19.67	+34 14.8	2.496	3.458	4.4	20.7	164 E	79	30
12 2	3 9.87	+33 7.4	2.552	3.489	5.9	20.8	159 E	78	31
12 12	3 1.84	+31 55.0	2.638	3.519	8.3	21.0	149 E	77	32
12 22	2 56.05	+30 43.8	2.750	3.549	10.6	21.2	139 E	76	33
1 1	2 52.67	+29 38.6	2.885	3.577	12.5	21.4	128 E	75	34

284763 2008 WL_{68}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
8 14	3 56.44	+20 22.0	1.503	1.659	36.9	21.5	80 W	55*	43*
8 24	4 18.25	+21 10.1	1.434	1.671	37.0	21.4	84 W	60*	43*
9 3	4 38.55	+21 43.1	1.363	1.686	36.8	21.3	89 W	64*	42*
9 13	4 56.86	+22 2.4	1.292	1.702	36.1	21.2	95 W	67*	42
9 23	5 12.70	+22 9.9	1.222	1.721	34.9	21.1	101 W	67	42
10 3	5 25.54	+22 7.8	1.154	1.742	33.2	20.9	108 W	67	42
10 13	5 34.75	+21 58.4	1.088	1.764	30.7	20.7	115 W	67	42
10 23	5 39.81	+21 44.2	1.028	1.788	27.4	20.5	124 W	67	42
11 2	5 40.29	+21 26.9	0.977	1.813	23.2	20.3	134 W	66	43
11 12	5 36.08	+21 7.5	0.939	1.840	18.0	20.1	145 W	66	43
11 17	5 32.37	+20 57.3	0.926	1.853	15.0	20.0	151 W	66	43
11 22	5 27.76	+20 46.8	0.918	1.867	11.9	19.9	157 W	66	43
11 27	5 22.42	+20 36.0	0.915	1.881	8.7	19.8	163 W	66	43
12 2	5 16.59	+20 25.1	0.918	1.896	5.4	19.6	170 W	65	44
12 7	5 10.53	+20 14.3	0.926	1.910	2.3	19.5	175 W	65	44
12 12	5 4.53	+20 4.1	0.941	1.925	2.0	19.5	176 E	65	44
12 17	4 58.85	+19 54.8	0.962	1.939	4.9	19.8	170 E	65	44
12 22	4 53.72	+19 46.8	0.989	1.954	7.9	20.0	164 E	65	44
12 27	4 49.30	+19 40.6	1.022	1.969	10.7	20.2	158 E	65	44

284763 2008 WL_{68} *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 1	4 45.74	+19 36.3	1.061	1.984	13.4	20.4	152 E	65	44
1 6	4 43.11	+19 34.3	1.104	1.999	15.8	20.6	146 E	65	44
1 11	4 41.48	+19 34.6	1.152	2.014	17.9	20.8	141 E	65	44
1 16	4 40.82	+19 37.2	1.205	2.029	19.7	20.9	136 E	65	44
1 21	4 41.12	+19 41.8	1.261	2.045	21.4	21.1	131 E	65	44

533726 2014 NK_{59}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	4 8.47	+14 23.0	1.552	1.673	36.4	21.5	78 W	49*	49*
8 24	4 30.08	+15 4.6	1.480	1.682	36.6	21.4	83 W	53*	49*
9 3	4 50.31	+15 33.9	1.408	1.694	36.5	21.3	87 W	57*	48*
9 13	5 8.74	+15 52.1	1.336	1.708	36.1	21.2	93 W	60*	48*
9 23	5 24.97	+16 1.6	1.264	1.724	35.2	21.0	98 W	61	48
10 3	5 38.52	+16 5.4	1.193	1.742	33.7	20.9	105 W	61	48
10 13	5 48.84	+16 6.5	1.125	1.762	31.7	20.7	112 W	61	48
10 23	5 55.40	+16 8.7	1.061	1.784	28.8	20.5	120 W	61	48
11 2	5 57.72	+16 15.7	1.004	1.807	25.0	20.3	130 W	61	48
11 12	5 55.50	+16 30.1	0.959	1.832	20.3	20.1	140 W	62	47
11 22	5 48.96	+16 53.7	0.929	1.858	14.7	19.9	152 W	62	47
11 27	5 44.30	+17 8.7	0.921	1.871	11.6	19.8	158 W	62	47
12 2	5 38.94	+17 25.7	0.918	1.885	8.5	19.7	164 W	62	47
12 7	5 33.11	+17 44.2	0.921	1.899	5.4	19.6	170 W	63	46
12 12	5 27.07	+18 4.0	0.930	1.913	2.9	19.5	174 W	63	46
12 17	5 21.10	+18 24.7	0.946	1.927	3.2	19.5	174 E	63	46
12 22	5 15.45	+18 46.0	0.967	1.941	5.8	19.7	169 E	64	45
12 27	5 10.34	+19 7.7	0.995	1.956	8.6	19.9	163 E	64	45
1 1	5 5.95	+19 29.6	1.028	1.970	11.3	20.1	157 E	64	45
1 6	5 2.43	+19 51.6	1.067	1.985	13.9	20.3	151 E	65	44
1 11	4 59.86	+20 13.7	1.111	2.000	16.2	20.5	145 E	65	44
1 16	4 58.29	+20 35.9	1.160	2.015	18.3	20.7	140 E	66	43
1 21	4 57.71	+20 58.0	1.212	2.030	20.1	20.9	135 E	66	43

474278 2001 UT_{17}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	4 8.88	− 5 57.6	1.094	1.400	45.9	21.4	83 W	31*	68*
8 19	4 19.28	− 4 25.9	1.058	1.393	46.3	21.3	85 W	34*	67*
8 24	4 29.43	− 2 50.5	1.021	1.387	46.7	21.2	86 W	37*	66*
8 29	4 39.31	− 1 10.5	0.983	1.382	46.9	21.1	88 W	40*	65*
9 3	4 48.91	+ 0 34.9	0.945	1.378	47.1	21.1	90 W	43*	63*
9 8	4 58.21	+ 2 26.7	0.908	1.375	47.1	21.0	92 W	46*	61*
9 13	5 7.17	+ 4 26.2	0.870	1.373	47.0	20.9	94 W	49*	60*
9 18	5 15.79	+ 6 34.9	0.832	1.372	46.7	20.8	96 W	51*	57
9 23	5 24.02	+ 8 54.3	0.795	1.372	46.3	20.6	99 W	54	55
9 28	5 31.82	+11 26.1	0.758	1.373	45.6	20.5	102 W	56	53
10 3	5 39.12	+14 12.0	0.723	1.375	44.8	20.4	105 W	59	50
10 8	5 45.82	+17 13.8	0.689	1.378	43.6	20.3	108 W	62	47
10 13	5 51.81	+20 33.1	0.658	1.381	42.2	20.1	111 W	66	43
10 18	5 56.98	+24 11.1	0.629	1.386	40.6	20.0	115 W	69	40
10 23	6 1.15	+28 8.2	0.603	1.392	38.6	19.9	119 W	73	36
10 28	6 4.10	+32 23.3	0.581	1.399	36.5	19.7	123 W	77	32
11 2	6 5.54	+36 53.7	0.563	1.406	34.3	19.6	127 W	82	27
11 7	6 5.11	+41 34.6	0.551	1.414	32.0	19.5	131 W	87	22
11 12	6 2.40	+46 18.7	0.544	1.423	30.0	19.4	134 W	89	18
11 14	6 0.58	+48 11.3	0.543	1.427	29.2	19.4	135 W	87	16
11 16	5 58.28	+50 2.3	0.543	1.431	28.6	19.4	136 W	85	14
11 18	5 55.49	+51 51.1	0.544	1.435	28.0	19.4	137 W	83	12
11 20	5 52.17	+53 37.1	0.546	1.440	27.5	19.4	138 W	81	10
11 22	5 48.28	+55 19.6	0.548	1.444	27.1	19.4	138 W	80	9
11 24	5 43.81	+56 57.9	0.552	1.448	26.8	19.4	139 W	78	7
11 26	5 38.73	+58 31.5	0.556	1.453	26.6	19.4	139 W	76	5
11 28	5 33.04	+59 59.8	0.562	1.457	26.4	19.5	139 W	75	4
11 30	5 26.75	+61 22.4	0.568	1.462	26.4	19.5	139 W	74	3
12 2	5 19.86	+62 38.8	0.575	1.467	26.5	19.5	138 W	72	1
12 4	5 12.43	+63 48.7	0.583	1.472	26.6	19.6	138 W	71	—
12 6	5 4.51	+64 51.8	0.592	1.477	26.8	19.6	138 W	70	—
12 8	4 56.20	+65 48.1	0.601	1.482	27.0	19.7	137 E	69	—
12 10	4 47.60	+66 37.5	0.611	1.487	27.3	19.7	136 E	68	—
12 12	4 38.82	+67 20.2	0.622	1.492	27.6	19.8	135 E	68	—
12 14	4 30.01	+67 56.5	0.633	1.498	28.0	19.8	134 E	67	—
12 16	4 21.28	+68 26.5	0.645	1.503	28.3	19.9	134 E	67	—
12 18	4 12.78	+68 50.8	0.658	1.509	28.7	19.9	133 E	66	—
12 20	4 4.64	+69 9.7	0.671	1.514	29.1	20.0	132 E	66	—
12 22	3 56.95	+69 23.8	0.684	1.520	29.5	20.1	131 E	66	—
12 24	3 49.82	+69 33.5	0.698	1.526	29.8	20.1	129 E	65	—
12 26	3 43.31	+69 39.5	0.712	1.531	30.2	20.2	128 E	65	—
12 28	3 37.48	+69 42.1	0.727	1.537	30.6	20.3	127 E	65	—
12 30	3 32.37	+69 41.8	0.742	1.543	30.9	20.3	126 E	65	—
1 1	3 28.00	+69 39.2	0.758	1.549	31.2	20.4	125 E	65	—
1 6	3 20.29	+69 24.7	0.797	1.564	32.0	20.5	123 E	66	—
1 11	3 16.93	+69 3.0	0.839	1.580	32.6	20.7	120 E	66	—
1 16	3 17.41	+68 37.4	0.882	1.595	33.2	20.8	117 E	66	—
1 21	3 21.20	+68 9.9	0.926	1.611	33.6	21.0	115 E	67	—

363617 2004 KK_{17}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 14	4 11.30	−36 20.9	1.288	1.656	37.7	21.5	91 W	3*	77*
8 19	4 25.79	−37 31.2	1.241	1.620	38.6	21.4	91 W	3*	76*
8 24	4 40.63	−38 43.9	1.195	1.583	39.7	21.3	91 W	3*	75*
8 29	4 55.84	−39 58.6	1.150	1.545	40.8	21.2	91 W	2*	74*
9 3	5 11.47	−41 14.4	1.107	1.506	42.1	21.0	91 W	1*	73*
9 8	5 27.54	−42 30.7	1.066	1.466	43.4	20.9	90 W	1*	72*
9 13	5 44.10	−43 46.4	1.025	1.424	44.9	20.8	89 W	—	71*
9 18	6 1.24	−45 0.3	0.985	1.382	46.6	20.7	88 W	—	69*
9 23	6 19.07	−46 11.4	0.945	1.338	48.5	20.6	87 W	—	68*
9 28	6 37.72	−47 18.4	0.905	1.293	50.6	20.5	85 W	—	66*
10 3	6 57.38	−48 19.9	0.865	1.247	52.9	20.4	84 W	—	65*
10 8	7 18.26	−49 13.9	0.825	1.200	55.5	20.3	82 W	—	64*
10 13	7 40.66	−49 57.8	0.784	1.152	58.4	20.2	80 W	—	62*
10 18	8 4.97	−50 27.9	0.742	1.103	61.7	20.1	77 W	—	61*
10 23	8 31.66	−50 39.6	0.699	1.054	65.6	20.0	75 W	—	60*
10 25	8 43.11	−50 37.7	0.682	1.034	67.2	19.9	74 W	—	59*
10 27	8 55.06	−50 31.2	0.665	1.014	69.0	19.9	72 W	—	59*
10 29	9 7.52	−50 19.5	0.648	0.994	70.9	19.8	71 W	—	58*
10 31	9 20.54	−50 1.8	0.631	0.974	72.9	19.8	70 W	—	57*
11 2	9 34.12	−49 37.3	0.613	0.954	75.1	19.8	68 W	—	57*
11 4	9 48.28	−49 5.0	0.596	0.934	77.3	19.7	67 W	—	56*
11 6	10 3.01	−48 23.8	0.580	0.914	79.7	19.7	65 W	—	55*
11 8	10 18.32	−47 32.5	0.564	0.895	82.2	19.7	63 W	—	54*
11 10	10 34.18	−46 29.9	0.548	0.875	84.9	19.7	62 W	—	53*
11 12	10 50.53	−45 14.7	0.533	0.855	87.7	19.7	60 W	—	52*
11 14	11 7.32	−43 45.8	0.520	0.836	90.6	19.7	58 W	—	50*
11 16	11 24.46	−42 2.1	0.507	0.817	93.7	19.7	56 W	1*	49*
11 18	11 41.87	−40 3.1	0.496	0.799	96.7	19.8	53 W	3*	47*
11 20	11 59.42	−37 48.6	0.487	0.781	99.8	19.8	51 W	5*	45*
11 22	12 17.00	−35 19.2	0.480	0.763	102.8	19.9	49 W	7*	43*
11 24	12 34.48	−32 36.2	0.476	0.746	105.7	20.0	47 W	9*	40*
11 26	12 51.76	−29 42.0	0.475	0.729	108.3	20.1	45 W	11*	38*
11 28	13 8.71	−26 39.7	0.476	0.714	110.4	20.2	43 W	13*	35*
11 30	13 25.27	−23 33.1	0.481	0.699	112.1	20.2	41 W	16*	32*
12 2	13 41.34	−20 26.5	0.490	0.685	113.1	20.3	40 W	18*	30*
12 4	13 56.88	−17 24.1	0.502	0.672	113.4	20.3	39 W	20*	27*
12 6	14 11.85	−14 29.7	0.517	0.661	113.0	20.3	38 W	22*	24*
12 8	14 26.23	−11 46.6	0.536	0.651	111.9	20.3	38 W	24*	22*
12 10	14 40.03	− 9 17.2	0.558	0.642	110.2	20.2	38 W	26*	20*
12 12	14 53.24	− 7 2.8	0.582	0.635	107.9	20.2	38 W	27*	18*
12 17	15 23.85	− 2 35.7	0.654	0.624	100.7	20.0	39 W	30*	14*
12 22	15 51.34	+ 0 19.8	0.737	0.623	92.2	19.9	39 W	32*	11*
12 27	16 16.13	+ 2 1.5	0.826	0.634	83.6	19.8	40 W	33*	10*
1 1	16 38.62	+ 2 49.2	0.916	0.655	75.5	19.8	40 W	33*	9*
1 3	16 47.05	+ 2 57.3	0.951	0.665	72.5	19.8	40 W	33*	10*
1 5	16 55.19	+ 3 0.4	0.986	0.677	69.7	19.9	40 W	33*	10*
1 7	17 3.05	+ 2 59.6	1.020	0.690	67.0	19.9	40 W	33*	10*
1 9	17 10.64	+ 2 55.4	1.054	0.705	64.5	19.9	40 W	33*	11*
1 11	17 17.99	+ 2 48.5	1.087	0.720	62.1	20.0	40 W	33*	11*
1 13	17 25.11	+ 2 39.4	1.118	0.736	59.9	20.0	40 W	33*	12*
1 15	17 32.00	+ 2 28.7	1.149	0.752	57.9	20.1	40 W	33*	12*
1 17	17 38.70	+ 2 16.6	1.179	0.770	56.0	20.1	40 W	33*	13*
1 19	17 45.19	+ 2 3.5	1.208	0.788	54.3	20.2	41 W	33*	14*
1 21	17 51.51	+ 1 49.7	1.236	0.806	52.7	20.2	41 W	33*	15*

152748 1998 YF_{27}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	4 23.63	−31 15.8	1.891	2.102	28.8	21.5	87 W	7*	78*
8 19	4 32.74	−32 14.1	1.857	2.093	28.9	21.4	89 W	7*	79*
8 24	4 41.49	−33 15.5	1.823	2.084	29.0	21.4	90 W	8*	79*
8 29	4 49.81	−34 19.7	1.791	2.074	29.1	21.3	91 W	8*	80*
9 3	4 57.67	−35 26.7	1.759	2.064	29.2	21.3	92 W	8*	79*
9 8	5 4.98	−36 35.9	1.728	2.054	29.3	21.2	94 W	7*	79*
9 13	5 11.70	−37 47.2	1.698	2.044	29.4	21.2	95 W	7*	78*
9 18	5 17.75	−38 59.9	1.668	2.034	29.4	21.1	96 W	6*	77
9 23	5 23.08	−40 13.5	1.639	2.023	29.5	21.1	97 W	5	76
9 28	5 27.59	−41 27.6	1.611	2.013	29.5	21.0	98 W	4	75
10 3	5 31.21	−42 41.5	1.583	2.002	29.6	21.0	99 W	2	73
10 8	5 33.83	−43 54.4	1.555	1.991	29.6	20.9	100 W	1	72
10 13	5 35.37	−45 5.2	1.528	1.979	29.6	20.9	101 W	—	71
10 18	5 35.74	−46 12.7	1.501	1.968	29.7	20.8	102 W	—	70
10 23	5 34.87	−47 15.7	1.475	1.956	29.7	20.8	103 W	—	69
10 28	5 32.68	−48 12.8	1.449	1.945	29.7	20.7	104 W	—	68
11 2	5 29.12	−49 2.2	1.424	1.933	29.8	20.7	105 W	—	67
11 7	5 24.18	−49 41.9	1.399	1.921	29.8	20.6	106 W	—	66
11 12	5 17.93	−50 9.6	1.375	1.909	29.8	20.6	106 W	—	66
11 17	5 10.50	−50 23.4	1.353	1.896	29.9	20.5	107 W	—	66
11 22	5 2.08	−50 21.1	1.331	1.884	29.9	20.5	108 W	—	66
11 27	4 52.94	−50 0.8	1.311	1.872	30.0	20.4	108 W	—	66
12 2	4 43.40	−49 21.1	1.292	1.859	30.2	20.4	109 W	—	67
12 7	4 33.84	−48 20.6	1.275	1.847	30.3	20.4	109 E	—	68

152748 1998 YF_{27} *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 12	4 24.63	−46 58.9	1.260	1.834	30.5	20.3	109 E	—	69
12 17	4 16.09	−45 16.5	1.247	1.822	30.7	20.3	109 E	—	71
12 22	4 8.47	−43 14.3	1.237	1.809	31.0	20.3	109 E	2	73
12 27	4 1.95	−40 53.6	1.231	1.797	31.4	20.3	108 E	4	75
1 1	3 56.65	−38 16.4	1.227	1.784	31.8	20.3	107 E	7	78
1 6	3 52.62	−35 24.8	1.227	1.772	32.2	20.2	106 E	10	81
1 11	3 49.85	−32 21.4	1.230	1.759	32.7	20.3	105 E	13	84
1 16	3 48.31	−29 8.9	1.237	1.747	33.3	20.3	103 E	16	87
1 21	3 47.92	−25 49.8	1.248	1.735	33.8	20.3	101 E	19	90

189165 2002 TQ_{96}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	4 27.09	+19 26.1	2.201	2.138	26.9	21.5	73 W	50*	43*
8 24	4 41.21	+19 28.3	2.115	2.169	27.3	21.4	79 W	56*	44*
9 3	4 53.54	+19 20.7	2.024	2.200	27.2	21.4	86 W	60*	44*
9 13	5 3.75	+19 4.1	1.931	2.230	26.8	21.3	93 W	63*	45
9 23	5 11.48	+18 39.5	1.836	2.259	25.8	21.2	101 W	64	45
10 3	5 16.39	+18 7.8	1.744	2.288	24.3	21.0	110 W	63	46
10 13	5 18.11	+17 30.0	1.657	2.316	22.0	20.9	119 W	62	47
10 23	5 16.39	+16 47.4	1.579	2.344	19.1	20.7	130 W	62	47
11 2	5 11.22	+16 1.2	1.517	2.370	15.4	20.5	141 W	61	48
11 12	5 2.88	+15 13.6	1.474	2.396	11.0	20.3	152 W	60	49
11 17	4 57.75	+14 50.0	1.461	2.408	8.7	20.2	158 W	60	49
11 22	4 52.18	+14 27.2	1.456	2.420	6.4	20.1	164 W	59	50
11 27	4 46.31	+14 5.5	1.456	2.433	4.4	20.0	169 W	59	50
12 2	4 40.33	+13 45.5	1.465	2.444	3.4	20.0	172 W	59	50
12 7	4 34.42	+13 27.6	1.480	2.456	4.1	20.1	170 E	58	51
12 12	4 28.76	+13 12.2	1.503	2.467	5.9	20.2	165 E	58	51
12 22	4 18.82	+12 50.6	1.569	2.489	10.1	20.5	154 E	58	51
1 1	4 11.41	+12 42.0	1.659	2.510	13.9	20.8	142 E	58	51
1 11	4 7.03	+12 46.3	1.771	2.530	17.0	21.1	131 E	58	51
1 21	4 5.74	+13 2.1	1.898	2.549	19.3	21.3	121 E	58	51

173232 1998 XC_{9}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	5 16.14	+31 32.7	1.579	1.402	39.2	21.4	61 W	49*	28*
8 19	5 36.82	+31 54.5	1.545	1.381	40.0	21.3	61 W	51*	27*
8 24	5 57.83	+32 4.5	1.513	1.362	40.7	21.3	62 W	52*	26*
8 29	6 19.06	+32 2.2	1.484	1.345	41.5	21.2	62 W	52*	26*
9 3	6 40.34	+31 47.3	1.458	1.330	42.1	21.2	62 W	53*	25*
9 8	7 1.52	+31 19.7	1.435	1.316	42.7	21.1	62 W	54*	25*
9 13	7 22.44	+30 39.8	1.414	1.305	43.2	21.1	63 W	54*	24*
9 18	7 42.97	+29 48.1	1.395	1.296	43.7	21.1	63 W	55*	24*
9 23	8 2.99	+28 45.5	1.378	1.289	44.0	21.0	63 W	55*	24*
9 28	8 22.41	+27 32.9	1.363	1.285	44.3	21.0	64 W	55*	25*
10 3	8 41.15	+26 11.7	1.350	1.283	44.6	21.0	64 W	56*	25*
10 8	8 59.15	+24 43.0	1.338	1.283	44.8	21.0	65 W	56*	26*
10 13	9 16.39	+23 8.1	1.328	1.286	44.9	21.0	65 W	56*	26*
10 18	9 32.83	+21 28.3	1.318	1.291	44.9	21.0	66 W	56*	27*
10 23	9 48.50	+19 44.9	1.309	1.298	44.9	21.0	67 W	56*	29*
10 28	10 3.40	+17 58.9	1.300	1.308	44.8	21.0	68 W	56*	30*
11 2	10 17.54	+16 11.4	1.291	1.320	44.7	21.0	69 W	56*	32*
11 7	10 30.92	+14 23.3	1.283	1.333	44.5	21.0	70 W	56*	33*
11 12	10 43.56	+12 35.5	1.273	1.349	44.2	21.0	72 W	55*	35*
11 17	10 55.47	+10 48.7	1.264	1.367	43.9	21.0	74 W	55*	37*
11 22	11 6.67	+ 9 3.5	1.253	1.386	43.6	21.0	75 W	54*	40*
11 27	11 17.16	+ 7 20.4	1.242	1.407	43.2	21.0	77 W	52*	43*
12 2	11 26.94	+ 5 39.9	1.230	1.430	42.7	21.0	80 W	51	45*
12 7	11 35.99	+ 4 2.4	1.217	1.454	42.1	21.0	82 W	49	48*
12 12	11 44.29	+ 2 28.4	1.203	1.479	41.5	21.0	84 W	47	52*
12 17	11 51.82	+ 0 58.0	1.188	1.505	40.8	21.0	87 W	46	55*
12 22	11 58.57	− 0 28.4	1.172	1.532	39.9	21.0	90 W	45	58*
12 27	12 4.49	− 1 50.6	1.155	1.561	39.0	20.9	93 W	43	62*
1 1	12 9.54	− 3 8.3	1.138	1.590	37.9	20.9	97 W	42	65*
1 6	12 13.67	− 4 21.2	1.120	1.619	36.7	20.9	100 W	41	68*
1 11	12 16.82	− 5 29.0	1.102	1.649	35.3	20.8	104 W	40	69*
1 16	12 18.96	− 6 31.4	1.085	1.680	33.7	20.8	109 W	38	71
1 21	12 20.04	− 7 28.0	1.068	1.711	32.0	20.8	113 W	38	71

357414 2003 XE

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	5 21.52	+ 2 14.5	1.491	1.378	41.1	21.4	63 W	28*	52*
8 24	5 53.39	+ 3 50.5	1.410	1.331	43.2	21.2	64 W	33*	50*
9 3	6 26.67	+ 5 26.0	1.334	1.286	45.2	21.1	65 W	37*	49*
9 13	7 1.54	+ 7 1.0	1.264	1.243	47.3	21.0	65 W	40*	46*
9 23	7 38.19	+ 8 35.5	1.199	1.205	49.3	20.8	66 W	44*	44*
10 3	8 16.83	+10 8.0	1.142	1.172	51.2	20.7	66 W	47*	41*
10 13	8 57.48	+11 35.7	1.092	1.144	52.9	20.6	66 W	49*	38*
10 23	9 40.02	+12 54.8	1.053	1.124	54.3	20.5	67 W	52*	35*
11 2	10 24.02	+14 0.6	1.024	1.111	55.2	20.5	67 W	54*	32*
11 7	10 46.34	+14 27.3	1.014	1.108	55.5	20.5	67 W	54*	31*
11 12	11 8.70	+14 49.3	1.006	1.107	55.6	20.5	67 W	55*	29*

357414 2003 XE *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 17	11 30.99	+15 6.6	1.001	1.108	55.6	20.4	68 W	56*	28*
11 22	11 53.07	+15 19.1	0.999	1.111	55.5	20.4	68 W	56*	27*
12 2	12 36.09	+15 31.3	1.001	1.124	54.9	20.5	69 W	57*	26*
12 12	13 16.81	+15 30.5	1.009	1.144	54.0	20.5	70 W	58*	26*
12 22	13 54.59	+15 22.6	1.022	1.171	52.8	20.5	71 W	58*	27*
1 1	14 29.06	+15 13.9	1.035	1.205	51.4	20.6	73 W	59*	29*
1 11	15 0.04	+15 10.0	1.046	1.243	50.0	20.6	75 W	59*	32*
1 21	15 27.47	+15 14.9	1.054	1.285	48.5	20.7	78 W	60*	36*

398641 2012 RP_{31}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	5 32.64	+23 10.1	1.791	1.510	34.4	21.5	57 W	41*	33*
8 24	6 3.69	+22 24.9	1.726	1.500	35.7	21.4	60 W	45*	34*
9 3	6 34.12	+21 13.5	1.662	1.494	36.8	21.4	62 W	48*	35*
9 13	7 3.62	+19 37.3	1.600	1.491	37.8	21.3	65 W	50*	36*
9 23	7 31.89	+17 39.0	1.540	1.491	38.6	21.2	68 W	52*	38*
10 3	7 58.74	+15 21.7	1.480	1.495	39.3	21.2	71 W	53*	40*
10 13	8 23.95	+12 49.1	1.421	1.502	39.8	21.1	74 W	54*	42*
10 23	8 47.39	+10 5.1	1.363	1.513	40.1	21.1	78 W	54*	45*
11 2	9 8.90	+ 7 13.5	1.304	1.527	40.1	21.0	82 W	52*	49*
11 12	9 28.31	+ 4 18.5	1.245	1.543	39.8	20.9	87 W	49	53*
11 22	9 45.40	+ 1 24.2	1.186	1.563	39.2	20.8	91 W	46	58*
12 2	9 59.93	− 1 25.2	1.127	1.585	38.1	20.7	97 W	44	63*
12 12	10 11.51	− 4 4.9	1.069	1.609	36.6	20.6	103 W	41	68*
12 22	10 19.77	− 6 29.6	1.013	1.635	34.4	20.4	110 W	39	70
12 27	10 22.52	− 7 34.4	0.986	1.649	33.1	20.3	114 W	37	72
1 1	10 24.27	− 8 32.9	0.960	1.663	31.6	20.3	118 W	36	73
1 6	10 24.98	− 9 24.1	0.936	1.678	29.9	20.2	122 W	36	73
1 11	10 24.64	−10 6.9	0.914	1.693	28.0	20.1	126 W	35	74
1 16	10 23.25	−10 40.3	0.894	1.708	25.9	20.0	131 W	34	75
1 21	10 20.86	−11 3.2	0.877	1.723	23.6	19.9	135 W	34	75

499672 2010 VK_{188}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	5 36.47	+22 42.7	1.527	1.286	41.1	21.5	57 W	40*	33*
8 24	6 13.40	+23 23.2	1.506	1.289	41.5	21.5	58 W	44*	32*
9 3	6 49.40	+23 33.4	1.489	1.301	41.7	21.5	59 W	47*	31*
9 13	7 23.91	+23 16.5	1.473	1.320	41.8	21.5	61 W	49*	30*
9 23	7 56.50	+22 37.3	1.457	1.346	41.7	21.5	63 W	52*	30*

207970 1996 BZ_{3}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	5 58.99	+21 12.0	1.737	1.360	35.6	21.4	51 W	36*	31*
8 19	6 18.38	+21 2.2	1.704	1.338	36.4	21.4	52 W	37*	31*
8 24	6 37.97	+20 43.5	1.674	1.318	37.2	21.3	52 W	38*	31*
8 29	6 57.69	+20 15.9	1.647	1.299	37.8	21.3	52 W	38*	30*
9 3	7 17.43	+19 39.4	1.622	1.283	38.4	21.2	52 W	39*	30*
9 8	7 37.12	+18 54.4	1.601	1.269	39.0	21.2	52 W	40*	30*
9 13	7 56.67	+18 1.2	1.583	1.257	39.5	21.2	53 W	40*	29*
9 18	8 16.00	+17 0.4	1.567	1.247	39.8	21.1	53 W	41*	29*
9 23	8 35.05	+15 52.9	1.553	1.240	40.2	21.1	53 W	41*	29*
9 28	8 53.76	+14 39.5	1.543	1.236	40.4	21.1	53 W	41*	29*
10 3	9 12.10	+13 21.0	1.534	1.234	40.6	21.1	53 W	41*	29*
10 8	9 30.01	+11 58.5	1.527	1.234	40.7	21.1	54 W	42*	29*
10 13	9 47.46	+10 32.9	1.521	1.237	40.8	21.1	54 W	42*	30*
10 18	10 4.44	+ 9 5.3	1.517	1.243	40.8	21.1	55 W	42*	30*
10 23	10 20.94	+ 7 36.5	1.514	1.251	40.8	21.1	55 W	42*	31*
10 28	10 36.95	+ 6 7.4	1.511	1.261	40.8	21.1	56 W	42*	31*
11 2	10 52.48	+ 4 38.7	1.509	1.274	40.7	21.1	57 W	42*	32*
11 7	11 7.51	+ 3 11.2	1.506	1.289	40.6	21.1	58 W	42*	33*
11 12	11 22.04	+ 1 45.6	1.504	1.306	40.5	21.2	59 W	42*	35*
11 17	11 36.09	+ 0 22.5	1.501	1.325	40.3	21.2	60 W	42*	36*
11 22	11 49.64	− 0 57.8	1.498	1.346	40.2	21.2	62 W	41*	38*
11 27	12 2.71	− 2 14.8	1.494	1.369	40.0	21.2	63 W	41*	40*
12 2	12 15.28	− 3 28.2	1.488	1.393	39.9	21.3	65 W	40*	42*
12 7	12 27.34	− 4 37.6	1.481	1.418	39.7	21.3	67 W	40*	44*
12 12	12 38.89	− 5 42.7	1.473	1.444	39.4	21.3	69 W	39*	47*
12 17	12 49.91	− 6 43.4	1.464	1.472	39.2	21.3	71 W	38*	49*
12 22	13 0.40	− 7 39.6	1.453	1.501	38.9	21.3	73 W	37	52*
12 27	13 10.32	− 8 31.0	1.440	1.530	38.5	21.4	76 W	36	55*
1 1	13 19.64	− 9 17.6	1.426	1.560	38.1	21.4	78 W	36	58*
1 6	13 28.35	− 9 59.2	1.410	1.591	37.6	21.4	81 W	35	62*
1 11	13 36.39	−10 35.8	1.393	1.623	37.1	21.4	84 W	34	65*
1 16	13 43.73	−11 7.2	1.375	1.654	36.4	21.4	87 W	34	68*
1 21	13 50.34	−11 33.5	1.355	1.687	35.7	21.4	91 W	33	71*

399526 2003 AA_{17}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	6 23.12	+31 32.4	2.057	1.550	28.4	21.5	47 W	38*	20*
8 19	6 39.66	+30 56.3	2.016	1.534	29.3	21.4	48 W	39*	20*
8 24	6 56.14	+30 11.9	1.976	1.518	30.2	21.4	49 W	40*	21*
8 29	7 12.53	+29 19.2	1.936	1.503	31.0	21.3	50 W	41*	21*
9 3	7 28.77	+28 18.4	1.896	1.488	31.9	21.3	51 W	43*	22*
9 8	7 44.83	+27 9.4	1.857	1.474	32.7	21.3	52 W	44*	22*

399526 2003 AA_{17} *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 13	8 0.68	+25 52.4	1.819	1.460	33.5	21.2	53 W	45*	23*
9 18	8 16.30	+24 27.6	1.781	1.448	34.3	21.2	54 W	46*	24*
9 23	8 31.67	+22 55.4	1.744	1.436	35.1	21.1	55 W	46*	25*
9 28	8 46.77	+21 16.0	1.708	1.425	35.9	21.1	56 W	47*	26*
10 3	9 1.61	+19 29.7	1.673	1.415	36.6	21.1	58 W	48*	27*
10 8	9 16.17	+17 37.0	1.638	1.406	37.4	21.0	59 W	48*	28*
10 13	9 30.45	+15 38.3	1.605	1.397	38.0	21.0	60 W	48*	30*
10 18	9 44.46	+13 34.0	1.572	1.390	38.7	20.9	61 W	48*	31*
10 23	9 58.21	+11 24.6	1.540	1.384	39.3	20.9	62 W	48*	33*
10 28	10 11.72	+ 9 10.6	1.510	1.379	39.9	20.9	63 W	48*	35*
11 2	10 24.98	+ 6 52.5	1.480	1.375	40.5	20.8	64 W	47*	36*
11 7	10 38.02	+ 4 31.0	1.451	1.372	41.0	20.8	65 W	46*	39*
11 12	10 50.83	+ 2 6.5	1.424	1.370	41.5	20.8	66 W	45*	41*
11 17	11 3.44	− 0 20.4	1.397	1.369	41.9	20.7	68 W	43*	43*
11 22	11 15.86	− 2 49.0	1.371	1.370	42.2	20.7	69 W	41*	46*
11 27	11 28.10	− 5 18.8	1.346	1.371	42.6	20.7	70 W	39*	49*
12 2	11 40.16	− 7 49.2	1.322	1.374	42.8	20.7	71 W	37*	51*
12 7	11 52.05	−10 19.6	1.299	1.378	43.1	20.6	73 W	35	55*
12 12	12 3.76	−12 49.3	1.276	1.383	43.2	20.6	74 W	32	58*
12 17	12 15.30	−15 17.9	1.254	1.389	43.3	20.6	76 W	30	61*
12 22	12 26.66	−17 44.8	1.233	1.396	43.4	20.6	77 W	27	64*
12 27	12 37.84	−20 9.5	1.212	1.404	43.4	20.5	79 W	25	68*
1 1	12 48.82	−22 31.7	1.191	1.413	43.3	20.5	80 W	22	71*
1 6	12 59.55	−24 50.7	1.171	1.423	43.2	20.5	82 W	20	74*
1 11	13 10.02	−27 6.1	1.151	1.434	43.0	20.5	84 W	18	77*
1 16	13 20.18	−29 17.7	1.131	1.446	42.7	20.4	86 W	16	80*
1 21	13 30.00	−31 25.1	1.111	1.458	42.4	20.4	88 W	14	82*

478980 2012 XU_{111}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	6 25.25	+20 17.6	2.504	1.930	21.9	21.5	45 W	30*	28*
8 24	6 50.06	+19 3.3	2.387	1.886	23.9	21.4	49 W	34*	30*
9 3	7 15.01	+17 29.0	2.271	1.843	25.8	21.3	53 W	38*	32*
9 13	7 39.99	+15 34.3	2.156	1.802	27.6	21.2	56 W	41*	34*
9 23	8 4.90	+13 19.1	2.043	1.763	29.4	21.1	60 W	44*	36*
10 3	8 29.67	+10 43.8	1.934	1.726	31.1	20.9	63 W	46*	39*
10 13	8 54.22	+ 7 49.4	1.828	1.692	32.6	20.8	66 W	46*	41*
10 23	9 18.50	+ 4 37.6	1.727	1.661	34.1	20.7	69 W	46*	45*
11 2	9 42.46	+ 1 10.6	1.632	1.634	35.4	20.6	72 W	45*	48*
11 12	10 6.03	− 2 28.6	1.543	1.611	36.5	20.5	75 W	42*	52*
11 22	10 29.18	− 6 16.2	1.459	1.592	37.5	20.3	79 W	39	57*
11 27	10 40.58	− 8 11.9	1.419	1.584	37.9	20.3	80 W	37	60*
12 2	10 51.84	−10 8.1	1.381	1.577	38.2	20.2	82 W	35	63*
12 7	11 2.95	−12 4.1	1.344	1.572	38.5	20.2	83 W	33	65*
12 12	11 13.88	−13 59.4	1.308	1.568	38.7	20.1	85 W	31	69*
12 17	11 24.62	−15 53.1	1.274	1.565	38.9	20.0	87 W	29	72*
12 22	11 35.15	−17 44.9	1.240	1.563	39.0	20.0	89 W	27	75*
12 27	11 45.43	−19 34.0	1.208	1.562	39.0	19.9	90 W	25	78*
1 1	11 55.42	−21 19.7	1.177	1.563	38.9	19.9	92 W	24	82*
1 6	12 5.07	−23 1.5	1.146	1.565	38.8	19.8	94 W	22	85*
1 11	12 14.34	−24 38.5	1.116	1.568	38.5	19.8	96 W	20	89*
1 16	12 23.16	−26 10.2	1.088	1.573	38.2	19.7	99 W	19	90
1 21	12 31.48	−27 36.0	1.060	1.579	37.7	19.6	101 W	17	88

511114 2013 WX_{24}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	6 52.36	+17 47.7	2.187	1.537	24.5	21.5	39 W	24*	25*
8 24	7 24.80	+16 44.9	2.101	1.489	26.3	21.4	41 W	27*	26*
9 3	7 57.89	+15 17.7	2.023	1.445	28.0	21.3	42 W	29*	26*
9 13	8 31.44	+13 26.8	1.951	1.405	29.6	21.2	44 W	31*	26*
9 23	9 5.20	+11 14.1	1.888	1.371	31.0	21.1	45 W	32*	26*
10 3	9 39.00	+ 8 42.9	1.834	1.343	32.3	21.0	46 W	33*	27*
10 13	10 12.67	+ 5 57.5	1.787	1.322	33.4	21.0	47 W	34*	27*
10 23	10 46.04	+ 3 3.2	1.748	1.309	34.3	20.9	48 W	35*	28*
11 2	11 19.02	+ 0 5.5	1.717	1.303	35.1	20.9	49 W	35*	29*
11 12	11 51.50	− 2 49.7	1.690	1.306	35.7	20.9	50 W	35*	31*
11 22	12 23.36	− 5 37.0	1.669	1.317	36.3	20.9	52 W	34*	33*
12 2	12 54.52	− 8 11.8	1.649	1.335	36.7	20.9	54 W	33*	36*
12 12	13 24.82	−10 30.2	1.631	1.360	37.1	20.9	56 W	32*	39*
12 22	13 54.10	−12 29.4	1.612	1.392	37.3	21.0	59 W	31*	43*
1 1	14 22.18	−14 7.6	1.590	1.430	37.5	21.0	62 W	30*	47*
1 11	14 48.81	−15 23.9	1.566	1.472	37.6	21.0	66 W	29*	52*
1 21	15 13.73	−16 18.3	1.537	1.518	37.6	21.1	70 W	29*	58*

136849 1998 CS_1

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	6 52.79	+19 56.1	2.236	1.580	23.7	21.5	39 W	25*	24*
8 24	7 22.13	+19 26.9	2.101	1.501	26.5	21.3	41 W	29*	24*
9 3	7 53.62	+18 35.4	1.965	1.418	29.4	21.1	44 W	32*	24*
9 13	8 27.63	+17 17.3	1.833	1.331	32.4	20.9	45 W	34*	24*
9 23	9 4.54	+15 27.3	1.706	1.239	35.6	20.7	46 W	36*	24*
10 3	9 44.83	+12 59.5	1.592	1.143	38.7	20.4	46 W	36*	23*

136849 1998 CS_1 *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 8	10 6.37	+11 29.7	1.540	1.094	40.3	20.3	45 W	35*	23*
10 13	10 28.88	+ 9 48.5	1.493	1.045	41.8	20.2	44 W	35*	22*
10 18	10 52.40	+ 7 55.8	1.452	0.995	43.2	20.1	43 W	34*	21*
10 23	11 16.95	+ 5 51.8	1.417	0.945	44.5	19.9	42 W	32*	20*
10 28	11 42.53	+ 3 37.2	1.390	0.896	45.4	19.8	40 W	31*	19*
11 2	12 9.12	+ 1 13.2	1.371	0.847	46.0	19.7	38 W	29*	18*
11 7	12 36.68	− 1 18.1	1.360	0.801	46.1	19.5	36 W	26*	16*
11 12	13 5.13	− 3 54.0	1.358	0.757	45.6	19.4	33 W	24*	15*
11 17	13 34.42	− 6 31.3	1.366	0.717	44.3	19.3	30 W	21*	13*
11 22	14 4.45	− 9 6.5	1.381	0.683	42.1	19.1	28 W	19*	12*
11 27	14 35.12	−11 35.7	1.405	0.656	39.1	19.0	25 W	16*	10*
12 2	15 6.27	−13 55.1	1.435	0.638	35.2	18.9	22 W	13*	8*
12 7	15 37.71	−16 1.0	1.471	0.630	30.8	18.8	19 W	11*	7*
12 12	16 9.18	−17 49.9	1.511	0.632	26.2	18.7	16 W	8*	5*
12 17	16 40.39	−19 19.6	1.555	0.645	21.6	18.7	14 W	6*	4*
12 22	17 11.03	−20 28.7	1.600	0.668	17.5	18.7	12 W	4*	3*
12 27	17 40.81	−21 17.0	1.647	0.698	13.9	18.7	10 W	2*	1*
1 1	18 9.49	−21 45.3	1.695	0.736	11.0	18.8	8 W	—	—
1 6	18 36.90	−21 55.5	1.745	0.777	8.7	18.9	7 W	—	—
1 11	19 2.93	−21 49.5	1.795	0.823	7.0	19.0	6 W	—	—
1 16	19 27.55	−21 29.9	1.845	0.870	5.9	19.1	5 W	—	—
1 21	19 50.75	−20 58.8	1.896	0.919	5.2	19.2	5 W	—	—

470310 2007 LB_{15}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	6 56.57	+32 25.0	1.270	0.818	52.8	21.4	40 W	32*	14*
8 19	7 25.24	+29 42.9	1.265	0.780	53.1	21.3	38 W	30*	14*
8 24	7 53.39	+26 33.1	1.266	0.742	53.0	21.2	36 W	28*	14*
8 29	8 21.02	+22 58.3	1.272	0.705	52.4	21.1	34 W	25*	14*
9 3	8 48.22	+19 2.3	1.283	0.670	51.2	21.0	31 W	23*	14*
9 8	9 15.11	+14 49.9	1.300	0.638	49.2	20.8	29 W	20*	14*
9 13	9 41.91	+10 26.8	1.324	0.610	46.5	20.7	26 W	17*	13*
9 18	10 8.82	+ 5 59.4	1.352	0.588	42.9	20.6	23 W	13*	13*
9 23	10 36.01	+ 1 34.6	1.384	0.574	38.7	20.4	21 W	10*	12*
9 28	11 3.62	− 2 40.6	1.421	0.568	34.1	20.3	18 W	6*	11*
10 3	11 31.64	− 6 39.6	1.459	0.571	29.3	20.3	16 W	3*	10*
10 8	11 59.99	−10 17.1	1.499	0.582	24.7	20.2	14 W	—	8*
10 13	12 28.52	−13 29.3	1.539	0.602	20.5	20.3	12 W	—	6*
10 18	12 57.00	−16 14.4	1.580	0.628	17.0	20.3	11 W	—	4*
10 23	13 25.22	−18 32.0	1.621	0.659	14.2	20.3	9 W	—	3*
10 28	13 53.00	−20 23.0	1.662	0.693	11.9	20.4	8 W	—	1*
11 2	14 20.16	−21 49.3	1.703	0.730	10.1	20.5	7 W	—	—
11 7	14 46.56	−22 53.0	1.743	0.768	8.7	20.6	7 W	—	—
11 12	15 12.10	−23 36.4	1.784	0.806	7.5	20.7	6 E	—	—
11 17	15 36.72	−24 1.8	1.823	0.844	6.4	20.8	5 E	—	—
11 22	16 0.39	−24 11.5	1.862	0.881	5.4	20.9	5 E	—	—
11 27	16 23.11	−24 7.5	1.899	0.918	4.5	21.0	4 E	—	—
12 2	16 44.90	−23 51.6	1.935	0.953	3.6	21.1	4 E	—	—
12 7	17 5.80	−23 25.4	1.970	0.987	2.9	21.1	3 E	—	—
12 12	17 25.84	−22 50.3	2.002	1.019	2.2	21.2	2 E	—	—
12 17	17 45.07	−22 7.3	2.033	1.050	1.9	21.3	2 E	—	—
12 22	18 3.55	−21 17.6	2.061	1.079	2.1	21.4	2 E	—	—

415980 2001 YZ_{90}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	7 40.62	+21 55.7	2.497	1.671	16.5	21.5	28 W	18*	14*
8 24	8 9.82	+20 59.1	2.431	1.645	18.3	21.5	31 W	22*	15*
9 3	8 39.07	+19 44.0	2.365	1.621	20.0	21.4	33 W	25*	15*
9 13	9 8.25	+18 11.5	2.299	1.600	21.7	21.4	36 W	28*	16*
9 23	9 37.22	+16 23.4	2.235	1.582	23.4	21.3	39 W	31*	17*
10 3	10 5.91	+14 21.6	2.172	1.567	24.9	21.3	41 W	33*	18*
10 13	10 34.26	+12 8.7	2.110	1.555	26.5	21.3	44 W	35*	19*
10 23	11 2.21	+ 9 47.8	2.050	1.547	27.9	21.2	47 W	38*	21*
11 2	11 29.75	+ 7 21.6	1.992	1.543	29.2	21.2	49 W	39*	23*
11 12	11 56.83	+ 4 53.5	1.934	1.542	30.5	21.2	52 W	41*	26*
11 22	12 23.44	+ 2 26.8	1.877	1.545	31.7	21.2	55 W	41*	29*
12 2	12 49.53	+ 0 4.3	1.820	1.552	32.8	21.1	58 W	42*	33*
12 12	13 15.03	− 2 10.9	1.764	1.563	33.8	21.1	62 W	41*	37*
12 22	13 39.85	− 4 16.2	1.706	1.576	34.6	21.1	65 W	40*	42*
1 1	14 3.87	− 6 9.8	1.648	1.593	35.3	21.0	69 W	39*	48*
1 11	14 26.90	− 7 49.8	1.588	1.614	35.8	21.0	74 W	37*	53*
1 21	14 48.71	− 9 15.2	1.526	1.636	36.0	21.0	78 W	36	59*

137099 1998 YW_3

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	7 41.66	−11 27.8	0.553	0.671	111.4	20.3	38 W	—	30*
8 16	7 37.31	−11 56.7	0.570	0.684	107.4	20.2	40 W	—	33*
8 18	7 33.72	−12 17.7	0.586	0.699	103.6	20.1	42 W	—	35*
8 20	7 30.81	−12 32.0	0.603	0.714	100.1	20.0	44 W	1*	37*
8 22	7 28.51	−12 40.9	0.619	0.729	96.9	20.0	46 W	3*	39*
8 24	7 26.78	−12 45.4	0.635	0.745	93.9	19.9	47 W	5*	41*
8 26	7 25.52	−12 46.4	0.650	0.761	91.1	19.9	49 W	7*	43*
8 28	7 24.70	−12 44.7	0.664	0.778	88.6	19.9	50 W	9*	44*
8 30	7 24.25	−12 40.8	0.678	0.795	86.2	19.9	52 W	10*	46*
9 1	7 24.12	−12 35.2	0.690	0.811	84.0	19.9	53 W	12*	47*
9 3	7 24.26	−12 28.4	0.702	0.828	82.0	19.9	54 W	14*	48*

137099 1998 YW_3 *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 8	7 25.55	−12 7.5	0.728	0.871	77.5	19.9	58 W	18*	51*
9 13	7 27.77	−11 43.9	0.747	0.914	73.8	20.0	61 W	21*	53*
9 18	7 30.53	−11 19.1	0.761	0.956	70.6	20.0	64 W	24*	56*
9 23	7 33.52	−10 54.1	0.769	0.998	67.8	20.0	67 W	27*	58*
10 3	7 39.30	−10 4.6	0.769	1.077	63.1	20.0	74 W	32*	62*
10 13	7 43.48	− 9 12.7	0.750	1.152	58.8	20.0	81 W	35*	66*
10 23	7 44.68	− 8 10.7	0.715	1.221	54.5	19.9	90 W	37	69*
10 28	7 43.72	− 7 32.6	0.693	1.254	52.2	19.8	94 W	37	70*
11 2	7 41.45	− 6 47.3	0.668	1.285	49.6	19.7	100 W	38	71*
11 7	7 37.61	− 5 52.5	0.643	1.314	46.7	19.6	105 W	39	70
11 12	7 32.00	− 4 45.5	0.616	1.342	43.4	19.5	111 W	40	69
11 17	7 24.39	− 3 23.4	0.591	1.369	39.6	19.3	118 W	42	67
11 22	7 14.62	− 1 43.9	0.567	1.394	35.3	19.1	125 W	43	66
11 27	7 2.57	+ 0 15.0	0.546	1.418	30.5	19.0	133 W	45	64
12 2	6 48.28	+ 2 33.7	0.530	1.440	25.1	18.8	142 W	48	61
12 7	6 32.01	+ 5 10.2	0.520	1.461	19.3	18.6	151 W	50	59
12 12	6 14.29	+ 7 59.7	0.518	1.481	13.5	18.4	159 W	53	56
12 17	5 55.89	+10 54.6	0.523	1.499	8.6	18.3	167 W	56	53
12 22	5 37.67	+13 46.4	0.538	1.515	7.1	18.3	169 E	59	50
12 27	5 20.46	+16 27.8	0.561	1.530	10.2	18.5	164 E	61	48
1 1	5 4.97	+18 54.1	0.592	1.544	14.8	18.8	156 E	64	45
1 6	4 51.66	+21 3.4	0.630	1.557	19.1	19.1	149 E	66	43
1 11	4 40.75	+22 56.4	0.674	1.568	23.0	19.4	141 E	68	41
1 16	4 32.25	+24 34.8	0.724	1.578	26.4	19.7	135 E	70	39
1 21	4 26.03	+26 0.9	0.776	1.586	29.2	19.9	128 E	71	38

55408 2001 TC_2

8 14	7 54.57	+ 3 59.4	1.847	1.046	25.8	21.4	27 W	3*	21*
8 24	8 34.88	+ 1 53.2	1.819	1.008	25.7	21.3	26 W	4*	20*
9 3	9 16.18	− 0 19.9	1.799	0.971	25.2	21.2	24 W	4*	18*
9 13	9 58.41	− 2 33.8	1.787	0.937	24.0	21.0	22 W	4*	16*
9 23	10 41.52	− 4 42.2	1.781	0.907	22.3	20.9	20 W	4*	14*
10 3	11 25.48	− 6 39.3	1.781	0.882	20.2	20.8	18 W	4*	11*
10 13	12 10.21	− 8 20.4	1.785	0.864	17.8	20.7	15 W	4*	8*
10 23	12 55.58	− 9 41.7	1.790	0.854	15.7	20.6	13 W	4*	5*
11 2	13 41.44	−10 41.1	1.798	0.854	14.1	20.5	12 W	5*	2*
11 12	14 27.55	−11 17.3	1.808	0.862	13.5	20.5	12 W	5*	—
11 22	15 13.58	−11 29.7	1.819	0.879	13.7	20.6	12 W	6*	—
12 2	15 59.21	−11 19.0	1.834	0.902	14.5	20.7	13 W	7*	—
12 12	16 44.06	−10 46.2	1.853	0.932	15.3	20.8	14 W	8*	—
12 22	17 27.77	− 9 52.9	1.876	0.966	15.9	21.0	16 W	9*	—
1 1	18 10.05	− 8 41.7	1.905	1.002	16.2	21.1	17 W	10*	—
1 11	18 50.68	− 7 15.4	1.937	1.040	16.3	21.2	17 W	11*	—
1 21	19 29.53	− 5 37.4	1.973	1.077	16.0	21.3	18 W	11*	—

285179 1996 TY_{11}

8 14	8 11.84	+26 36.9	1.759	0.913	25.4	21.4	23 W	16*	5*
8 19	8 37.77	+25 15.7	1.721	0.864	25.5	21.2	22 W	15*	4*
8 24	9 4.34	+23 31.5	1.686	0.815	25.3	21.1	20 W	14*	3*
8 29	9 31.44	+21 23.0	1.656	0.767	24.5	20.9	18 W	12*	1*
9 3	9 58.92	+18 49.5	1.631	0.721	23.1	20.6	16 W	10*	—
9 8	10 26.65	+15 51.2	1.611	0.677	20.9	20.4	14 W	8*	—
9 13	10 54.55	+12 29.4	1.595	0.639	17.8	20.2	11 W	5*	—
9 18	11 22.54	+ 8 46.6	1.584	0.607	13.8	19.9	8 W	2*	—
9 23	11 50.59	+ 4 46.9	1.576	0.584	9.0	19.6	5 W	—	—
9 28	12 18.70	+ 0 35.7	1.572	0.572	4.4	19.4	3 E	—	—
10 3	12 46.87	− 3 40.2	1.569	0.572	4.9	19.4	3 E	—	—
10 8	13 15.12	− 7 53.3	1.570	0.584	9.8	19.6	6 E	—	—
10 13	13 43.47	−11 56.5	1.573	0.606	14.6	19.9	9 E	—	3*
10 18	14 11.96	−15 43.6	1.580	0.638	18.6	20.2	12 E	—	6*
10 23	14 40.56	−19 9.6	1.591	0.676	21.7	20.4	15 E	—	8*
10 28	15 9.26	−22 11.1	1.608	0.719	23.9	20.6	17 E	—	11*
11 2	15 37.94	−24 46.0	1.629	0.765	25.3	20.8	19 E	—	13*
11 7	16 6.46	−26 53.5	1.656	0.813	26.0	21.0	21 E	—	15*
11 12	16 34.62	−28 33.7	1.688	0.862	26.2	21.2	23 E	—	17*
11 17	17 2.21	−29 47.9	1.724	0.912	26.0	21.4	24 E	—	18*

137805 1999 YK_5

8 14	8 25.97	+18 6.1	0.625	0.452	139.8	20.8	17 W	8*	7*
8 16	8 18.96	+19 59.6	0.635	0.475	131.1	19.9	21 W	12*	9*
8 18	8 13.34	+21 43.8	0.648	0.499	123.3	19.4	24 W	16*	10*
8 20	8 9.10	+23 17.7	0.663	0.524	116.4	19.0	28 W	20*	11*
8 22	8 6.14	+24 41.7	0.680	0.550	110.2	18.7	31 W	23*	12*
8 24	8 4.33	+25 56.2	0.698	0.575	104.7	18.6	33 W	26*	13*
8 26	8 3.53	+27 2.3	0.716	0.600	99.9	18.5	36 W	28*	13*
8 28	8 3.60	+28 0.8	0.734	0.626	95.6	18.4	38 W	31*	14*
8 30	8 4.41	+28 52.7	0.752	0.651	91.8	18.4	40 W	33*	14*
9 1	8 5.86	+29 38.8	0.769	0.675	88.4	18.4	42 W	35*	14*
9 3	8 7.83	+30 19.8	0.785	0.699	85.4	18.4	44 W	37*	14*
9 5	8 10.25	+30 56.4	0.800	0.723	82.7	18.4	45 W	39*	14*

137805 1999 YK_5 *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 7	8 13.04	+31 29.1	0.815	0.746	80.3	18.4	47 W	40*	14*
9 9	8 16.13	+31 58.4	0.828	0.769	78.1	18.4	48 W	42*	15*
9 11	8 19.48	+32 24.7	0.840	0.792	76.1	18.5	50 W	43*	15*
9 13	8 23.04	+32 48.4	0.852	0.813	74.3	18.5	51 W	45*	15*
9 18	8 32.64	+33 37.9	0.875	0.865	70.5	18.6	54 W	48*	15*
9 23	8 42.90	+34 16.7	0.893	0.914	67.5	18.6	57 W	51*	15*
9 28	8 53.55	+34 47.4	0.904	0.959	65.0	18.7	60 W	54*	15*
10 3	9 4.36	+35 12.6	0.910	1.002	62.9	18.7	63 W	57*	15*
10 8	9 15.21	+35 34.1	0.911	1.041	61.2	18.8	66 W	60*	15*
10 13	9 25.96	+35 53.3	0.906	1.076	59.7	18.8	69 W	63*	15*
10 18	9 36.57	+36 11.7	0.897	1.109	58.4	18.8	71 W	65*	16*
10 23	9 46.98	+36 30.5	0.884	1.139	57.3	18.8	74 W	68*	16*
10 28	9 57.16	+36 50.9	0.867	1.166	56.2	18.8	77 W	71*	17*
11 2	10 7.05	+37 14.2	0.846	1.191	55.2	18.7	80 W	74*	17*
11 7	10 16.62	+37 41.6	0.822	1.212	54.3	18.7	83 W	77*	17*
11 12	10 25.82	+38 14.5	0.795	1.231	53.4	18.6	86 W	80*	18*
11 17	10 34.60	+38 54.0	0.766	1.248	52.4	18.5	90 W	83*	18*
11 22	10 42.92	+39 41.8	0.734	1.261	51.4	18.4	93 W	85*	18*
11 27	10 50.70	+40 39.5	0.701	1.273	50.4	18.3	96 W	86	18*
12 2	10 57.85	+41 49.2	0.666	1.281	49.3	18.2	100 W	87	18*
12 7	11 4.21	+43 13.1	0.630	1.287	48.1	18.1	103 W	88	18*
12 12	11 9.58	+44 53.4	0.594	1.291	46.8	17.9	107 W	90	17*
12 17	11 13.71	+46 52.5	0.558	1.292	45.4	17.7	111 W	88	16*
12 22	11 16.21	+49 13.2	0.522	1.291	43.9	17.5	115 W	86	14*
12 24	11 16.63	+50 16.2	0.508	1.290	43.3	17.5	116 W	85	14*
12 26	11 16.64	+51 23.1	0.494	1.288	42.6	17.4	117 W	84	13*
12 28	11 16.19	+52 34.2	0.480	1.286	42.0	17.3	119 W	82	11*
12 30	11 15.18	+53 49.5	0.467	1.284	41.4	17.2	120 W	81	10
1 1	11 13.53	+55 9.1	0.454	1.281	40.8	17.1	122 W	80	9
1 3	11 11.12	+56 32.9	0.441	1.278	40.2	17.0	123 W	78	7
1 5	11 7.80	+58 0.6	0.429	1.274	39.7	17.0	124 W	77	6
1 7	11 3.40	+59 32.0	0.417	1.270	39.2	16.9	125 W	75	4
1 9	10 57.69	+61 6.6	0.406	1.266	38.8	16.8	126 W	74	3
1 11	10 50.41	+62 43.6	0.395	1.261	38.5	16.7	127 W	72	1
1 12	10 46.07	+63 32.6	0.390	1.259	38.4	16.7	127 W	71	—
1 13	10 41.20	+64 21.9	0.385	1.256	38.3	16.7	128 W	71	—
1 14	10 35.75	+65 11.2	0.380	1.253	38.3	16.6	128 W	70	—
1 15	10 29.65	+66 0.2	0.375	1.250	38.3	16.6	128 W	69	—
1 16	10 22.84	+66 48.6	0.371	1.247	38.3	16.6	128 W	68	—
1 17	10 15.24	+67 36.3	0.366	1.244	38.3	16.5	128 W	67	—
1 18	10 6.79	+68 22.7	0.362	1.241	38.5	16.5	128 W	67	—
1 19	9 57.41	+69 7.6	0.358	1.238	38.6	16.5	128 W	66	—
1 20	9 47.02	+69 50.3	0.354	1.235	38.8	16.5	128 W	65	—
1 21	9 35.58	+70 30.4	0.351	1.231	39.1	16.4	128 W	64	—

164294 2004 XZ_{130}

8 14	8 34.56	+17 34.3	1.530	0.606	25.0	21.4	15 W	6*	5*
8 19	9 4.77	+15 35.2	1.503	0.554	22.2	21.1	12 W	4*	3*
8 24	9 36.63	+13 11.6	1.474	0.499	17.8	20.7	9 W	1*	1*
8 29	10 10.39	+10 22.0	1.441	0.443	11.0	20.1	5 W	—	—
9 3	10 46.23	+ 7 6.8	1.401	0.392	1.7	19.3	1 W	—	—
9 8	11 24.06	+ 3 30.1	1.345	0.353	14.7	19.6	5 E	—	—
9 13	12 3.04	− 0 17.0	1.270	0.337	33.6	20.0	11 E	—	5*
9 15	12 18.60	− 1 46.9	1.234	0.338	41.6	20.1	13 E	—	7*
9 17	12 34.00	− 3 14.7	1.195	0.345	49.3	20.3	15 E	—	9*
9 19	12 49.14	− 4 39.6	1.156	0.355	56.6	20.5	17 E	1*	11*
9 21	13 4.00	− 6 1.2	1.115	0.369	63.2	20.7	19 E	2*	13*
9 23	13 18.58	− 7 19.1	1.075	0.385	69.1	20.9	21 E	3*	15*
9 28	13 53.99	−10 18.7	0.978	0.435	80.4	21.4	25 E	5*	19*
10 3	14 28.56	−12 58.1	0.892	0.491	87.7	21.7	29 E	7*	23*
10 8	15 3.08	−15 19.0	0.819	0.546	91.9	21.9	33 E	9*	27*
10 13	15 38.04	−17 21.1	0.760	0.599	93.8	22.0	37 E	10*	30*

162120 1998 SH_{36}

8 14	8 42.97	+17 29.6	1.435	0.499	26.4	21.0	13 W	5*	4*
8 19	9 19.96	+14 51.1	1.453	0.474	17.8	20.6	8 W	1*	—
8 24	9 56.46	+11 50.4	1.471	0.467	8.0	20.2	4 W	—	—
8 29	10 31.95	+ 8 35.6	1.488	0.479	2.2	20.0	1 E	—	—
9 3	11 5.98	+ 5 15.5	1.504	0.508	10.2	20.6	5 E	—	—
9 8	11 38.35	+ 1 57.7	1.522	0.550	16.7	21.0	9 E	—	3*
9 13	12 9.05	− 1 12.1	1.542	0.599	21.2	21.4	12 E	—	6*

68372 2001 PM_9

8 14	9 13.82	+11 55.0	2.261	1.257	4.5	21.5	6 W	—	—
8 24	9 46.84	+ 9 1.9	2.196	1.197	5.4	21.3	6 W	—	—
9 3	10 21.12	+ 5 45.9	2.134	1.139	6.1	21.2	7 W	—	1*
9 13	10 56.83	+ 2 10.1	2.077	1.085	6.4	21.1	7 W	—	1*
9 23	11 34.15	− 1 40.6	2.028	1.037	6.4	20.9	7 W	—	—

68372 2001 PM_9 *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 3	12 13.29	− 5 39.0	1.988	0.998	5.9	20.8	6 W	—	—
10 13	12 54.38	− 9 35.3	1.959	0.968	5.0	20.6	5 W	—	—
10 23	13 37.43	−13 17.7	1.941	0.950	3.8	20.5	4 W	—	—
10 28	13 59.65	−14 59.9	1.937	0.946	3.1	20.4	3 W	—	—
11 2	14 22.27	−16 34.1	1.937	0.946	2.5	20.4	2 W	—	—
11 7	14 45.24	−17 58.8	1.939	0.949	2.0	20.4	2 W	—	—
11 12	15 8.45	−19 12.9	1.945	0.955	1.7	20.4	2 E	—	—
11 17	15 31.81	−20 15.5	1.953	0.965	1.6	20.4	2 E	—	—
11 22	15 55.21	−21 5.7	1.965	0.978	1.7	20.4	2 E	—	—
11 27	16 18.54	−21 43.5	1.979	0.993	1.9	20.5	2 E	—	—
12 2	16 41.67	−22 8.6	1.996	1.011	2.2	20.6	2 E	—	—
12 7	17 4.49	−22 21.3	2.015	1.032	2.3	20.7	2 E	—	—
12 12	17 26.88	−22 22.1	2.037	1.054	2.5	20.7	3 E	—	—
12 17	17 48.76	−22 11.6	2.061	1.079	2.5	20.8	3 E	—	—
12 22	18 10.05	−21 50.9	2.086	1.105	2.5	20.9	3 E	—	—
12 27	18 30.71	−21 20.7	2.113	1.132	2.4	21.0	3 E	—	—
1 1	18 50.69	−20 42.1	2.141	1.160	2.3	21.0	3 E	—	—
1 6	19 9.97	−19 56.1	2.170	1.189	2.3	21.1	3 E	—	—
1 11	19 28.54	−19 3.7	2.200	1.219	2.3	21.2	3 E	—	—
1 16	19 46.41	−18 5.8	2.230	1.249	2.4	21.3	3 W	—	—
1 21	20 3.60	−17 3.3	2.261	1.280	2.7	21.4	3 W	—	—

67522 2000 RB_{79}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	9 28.94	+14 43.8	3.641	2.628	0.5	21.4	1 W	—	—
8 24	9 45.23	+13 28.9	3.607	2.606	2.6	21.5	7 W	—	—
9 3	10 1.51	+12 9.4	3.560	2.583	4.7	21.6	12 W	5*	2*
9 13	10 17.77	+10 45.7	3.498	2.558	6.9	21.7	18 W	10*	6*
9 23	10 33.98	+ 9 18.5	3.423	2.533	9.0	21.7	23 W	16*	9*

178805 2001 FS_{41}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	9 55.59	+12 35.0	3.250	2.244	2.5	21.4	6 E	—	—
8 24	10 14.72	+10 55.5	3.221	2.210	0.4	21.2	1 E	—	—
9 3	10 34.06	+ 9 9.2	3.182	2.177	1.7	21.2	4 W	—	—
9 13	10 53.62	+ 7 16.8	3.134	2.143	3.8	21.3	8 W	2*	—
9 23	11 13.43	+ 5 18.9	3.076	2.109	6.0	21.3	13 W	6*	2*
10 3	11 33.53	+ 3 16.5	3.010	2.074	8.1	21.3	17 W	10*	5*
10 13	11 53.95	+ 1 10.3	2.936	2.040	10.3	21.3	21 W	14*	8*
10 23	12 14.74	− 0 58.4	2.855	2.006	12.4	21.3	26 W	18*	11*
11 2	12 35.97	− 3 8.6	2.769	1.973	14.6	21.3	30 W	21*	14*
11 12	12 57.68	− 5 18.9	2.677	1.940	16.7	21.3	34 W	24*	17*
11 22	13 19.93	− 7 27.6	2.580	1.907	18.7	21.2	38 W	26*	21*
12 2	13 42.78	− 9 33.4	2.481	1.875	20.8	21.2	42 W	28*	25*
12 12	14 6.28	−11 34.4	2.379	1.844	22.8	21.1	46 W	28*	30*
12 22	14 30.44	−13 28.5	2.275	1.815	24.7	21.0	50 W	28*	35*
1 1	14 55.30	−15 13.8	2.171	1.787	26.6	20.9	54 W	28*	40*
1 11	15 20.81	−16 48.3	2.066	1.760	28.4	20.9	58 W	27*	46*
1 21	15 46.91	−18 10.0	1.963	1.735	30.1	20.8	62 W	26*	51*

86964 2000 JV_2

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	10 0.14	+15 18.6	3.869	2.864	2.2	21.4	6 E	—	—
8 24	10 15.09	+14 6.1	3.849	2.840	1.1	21.3	3 E	—	—
9 3	10 30.12	+12 50.3	3.815	2.815	2.4	21.3	7 W	1*	—
9 13	10 45.21	+11 31.9	3.765	2.790	4.4	21.4	12 W	6*	—
9 23	11 0.31	+10 11.4	3.701	2.763	6.4	21.4	18 W	12*	3*
10 3	11 15.43	+ 8 49.6	3.622	2.735	8.4	21.5	24 W	17*	6*
10 13	11 30.53	+ 7 27.2	3.530	2.707	10.5	21.5	30 W	23*	10*
10 23	11 45.58	+ 6 5.2	3.425	2.678	12.4	21.5	35 W	28*	14*
11 2	12 0.57	+ 4 44.5	3.309	2.647	14.4	21.4	41 W	33*	18*
11 12	12 15.46	+ 3 25.9	3.181	2.616	16.2	21.4	48 W	37*	23*
11 22	12 30.19	+ 2 10.8	3.044	2.585	17.9	21.3	54 W	41*	28*
12 2	12 44.71	+ 1 0.0	2.898	2.552	19.5	21.2	60 W	43*	33*
12 12	12 58.94	− 0 4.9	2.746	2.519	21.0	21.1	66 W	44*	39*
12 22	13 12.77	− 1 2.7	2.588	2.485	22.2	21.0	73 W	44*	46*
1 1	13 26.08	− 1 52.1	2.426	2.450	23.3	20.9	80 W	43	52*
1 11	13 38.68	− 2 31.3	2.263	2.414	24.0	20.7	87 W	42	59*
1 21	13 50.37	− 2 59.0	2.100	2.378	24.4	20.5	94 W	42	64*

235700 2004 TR_{13}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	10 5.96	+18 50.8	2.294	1.302	6.8	21.4	9 E	2*	—
8 19	10 19.48	+17 2.7	2.238	1.242	6.3	21.2	8 E	1*	—
8 24	10 33.48	+15 5.7	2.179	1.180	5.7	21.0	7 E	1*	—
8 29	10 48.02	+12 58.9	2.118	1.118	5.2	20.8	6 E	—	—
9 3	11 3.18	+10 41.5	2.056	1.054	4.7	20.6	5 E	—	—
9 8	11 19.05	+ 8 12.5	1.993	0.990	4.2	20.3	4 E	—	—
9 13	11 35.75	+ 5 31.2	1.928	0.926	3.7	20.1	3 E	—	—
9 18	11 53.44	+ 2 36.6	1.863	0.861	3.5	19.9	3 E	—	—
9 23	12 12.28	− 0 31.6	1.798	0.798	4.1	19.7	3 E	—	—
10 3	12 54.42	− 7 28.6	1.667	0.680	8.7	19.4	6 E	—	—
10 13	13 44.60	−15 6.0	1.536	0.587	18.7	19.2	11 E	—	4*
10 23	14 45.60	−22 35.3	1.407	0.546	33.1	19.3	17 E	—	11*

235700 2004 TR_{13} *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 25	14 59.27	−23 56.8	1.382	0.547	36.2	19.4	19 E	—	12*
10 27	15 13.44	−25 13.4	1.358	0.550	39.2	19.4	20 E	—	14*
10 29	15 28.09	−26 24.5	1.334	0.555	42.0	19.5	22 E	—	16*
10 31	15 43.21	−27 29.1	1.312	0.564	44.6	19.6	24 E	—	17*
11 2	15 58.75	−28 26.7	1.291	0.575	47.0	19.6	25 E	—	19*
11 4	16 14.69	−29 16.4	1.271	0.588	49.2	19.7	27 E	—	20*
11 6	16 30.96	−29 57.8	1.253	0.603	51.0	19.8	28 E	—	22*
11 8	16 47.49	−30 30.4	1.237	0.621	52.5	19.9	30 E	—	24*
11 10	17 4.23	−30 53.9	1.223	0.639	53.8	19.9	31 E	1*	25*
11 12	17 21.08	−31 8.1	1.211	0.660	54.7	20.0	33 E	3*	27*
11 14	17 37.95	−31 13.0	1.202	0.681	55.4	20.1	35 E	4*	29*
11 16	17 54.75	−31 8.6	1.194	0.703	55.8	20.1	36 E	5*	30*
11 18	18 11.39	−30 55.4	1.189	0.726	56.0	20.2	38 E	6*	31*
11 20	18 27.79	−30 33.7	1.187	0.750	56.0	20.3	39 E	7*	33*
11 22	18 43.86	−30 4.1	1.187	0.775	55.8	20.3	40 E	9*	34*
11 24	18 59.55	−29 27.2	1.189	0.799	55.5	20.4	42 E	10*	35*
11 26	19 14.78	−28 43.7	1.193	0.825	55.0	20.5	43 E	11*	36*
11 28	19 29.53	−27 54.5	1.200	0.850	54.4	20.5	44 E	13*	37*
11 30	19 43.75	−27 0.4	1.209	0.876	53.6	20.6	46 E	14*	38*
12 2	19 57.43	−26 2.1	1.220	0.901	52.8	20.6	47 E	15*	39*
12 4	20 10.57	−25 0.4	1.233	0.927	52.0	20.7	48 E	17*	39*
12 6	20 23.16	−23 56.1	1.248	0.953	51.1	20.8	49 E	18*	40*
12 8	20 35.20	−22 49.8	1.265	0.979	50.1	20.8	50 E	20*	40*
12 10	20 46.72	−21 42.2	1.283	1.005	49.2	20.9	51 E	21*	40*
12 12	20 57.73	−20 33.7	1.303	1.030	48.2	20.9	51 E	22*	40*
12 17	21 23.18	−17 41.7	1.360	1.094	45.7	21.1	53 E	25*	40*
12 22	21 45.98	−14 52.9	1.425	1.157	43.2	21.3	54 E	28*	39*
12 27	22 6.52	−12 10.5	1.497	1.219	40.9	21.4	54 E	30*	38*
1 1	22 25.16	− 9 36.4	1.574	1.280	38.6	21.6	54 E	33*	36*

83992 2002 MG_3

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	10 8.56	+11 33.7	3.998	3.001	3.0	21.4	9 E	—	3*
8 24	10 21.95	+10 7.8	4.006	2.997	1.0	21.2	3 E	—	—
9 3	10 35.30	+ 8 39.6	3.999	2.992	1.1	21.3	3 W	—	—
9 13	10 48.56	+ 7 9.3	3.975	2.987	3.1	21.4	9 W	2*	—
9 23	11 1.70	+ 5 37.4	3.935	2.980	5.2	21.5	15 W	8*	5*

512244 2015 YE_{18}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	10 18.65	−10 14.7	2.353	1.522	17.6	21.5	27 E	—	15*
8 24	10 42.61	−12 3.7	2.347	1.488	16.4	21.4	25 E	—	11*
9 3	11 7.42	−13 57.3	2.329	1.446	15.3	21.3	22 E	—	8*
9 13	11 33.33	−15 53.8	2.301	1.398	14.2	21.1	20 E	—	5*
9 23	12 0.62	−17 50.7	2.261	1.342	13.3	21.0	18 E	—	2*
10 3	12 29.66	−19 45.1	2.211	1.279	12.4	20.8	16 W	—	3*
10 13	13 0.87	−21 32.8	2.151	1.208	11.7	20.6	14 W	—	3*
10 23	13 34.73	−23 7.9	2.081	1.129	10.9	20.3	12 W	—	3*
10 28	13 52.83	−23 48.4	2.043	1.087	10.4	20.2	11 W	—	2*
11 2	14 11.81	−24 22.5	2.003	1.042	10.0	20.0	10 W	—	2*
11 7	14 31.73	−24 48.9	1.960	0.996	9.4	19.9	9 W	—	2*
11 12	14 52.68	−25 5.9	1.916	0.948	8.7	19.7	8 W	—	1*
11 17	15 14.71	−25 11.6	1.870	0.897	7.8	19.5	7 W	—	—
11 22	15 37.88	−25 3.8	1.822	0.845	6.6	19.2	6 W	—	—
11 27	16 2.26	−24 40.2	1.773	0.792	5.1	19.0	4 W	—	—
12 2	16 27.87	−23 58.5	1.722	0.738	3.1	18.6	2 W	—	—
12 7	16 54.74	−22 56.3	1.669	0.684	0.6	18.2	0 E	—	—
12 12	17 22.90	−21 31.3	1.613	0.631	3.5	18.2	2 E	—	—
12 17	17 52.35	−19 42.3	1.555	0.581	8.4	18.2	5 E	—	—
12 22	18 23.08	−17 29.5	1.493	0.537	14.8	18.1	8 E	2*	—
12 27	18 55.10	−14 55.8	1.427	0.502	22.8	18.2	11 E	5*	—
1 1	19 28.34	−12 7.3	1.357	0.481	32.2	18.2	15 E	9*	—
1 6	20 2.71	− 9 13.2	1.284	0.477	42.1	18.4	19 E	13*	—
1 11	20 38.06	− 6 24.1	1.212	0.489	51.4	18.6	23 E	17*	2*
1 16	21 14.28	− 3 48.5	1.145	0.517	58.9	18.8	27 E	20*	4*
1 21	21 51.23	− 1 31.3	1.089	0.557	64.2	19.0	31 E	24*	7*

99935 2002 AV_4

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	10 30.75	+15 38.8	3.693	2.719	5.1	21.4	14 E	4*	6*
8 24	10 44.04	+14 8.1	3.717	2.721	3.2	21.3	9 E	2*	—
9 3	10 57.28	+12 36.7	3.723	2.721	2.0	21.3	5 E	—	—
9 13	11 10.47	+11 4.8	3.711	2.718	2.9	21.3	8 W	1*	—
9 23	11 23.56	+ 9 33.0	3.681	2.713	4.8	21.4	13 W	7*	—
10 3	11 36.54	+ 8 1.6	3.631	2.704	6.9	21.5	19 W	13*	2*

33836 2000 FB_{39}

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
8 14	10 33.43	+18 36.4	4.085	3.116	4.8	21.4	15 E	7*	5*
8 24	10 46.51	+17 5.3	4.092	3.103	3.4	21.3	10 E	4*	—
9 3	10 59.62	+15 33.4	4.084	3.089	2.7	21.3	8 E	2*	—
9 13	11 12.73	+14 1.1	4.058	3.074	3.4	21.3	10 W	3*	—
9 23	11 25.80	+12 28.8	4.017	3.059	4.9	21.4	15 W	9*	—
10 3	11 38.79	+10 57.0	3.959	3.042	6.6	21.4	20 W	14*	—

33836 2000 FB_{39} *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 13	11 51.68	+ 9 26.3	3.885	3.024	8.4	21.4	26 W	20*	4*
10 23	12 4.40	+ 7 57.3	3.796	3.005	10.3	21.4	33 W	26*	9*
11 2	12 16.91	+ 6 30.6	3.692	2.985	12.0	21.4	39 W	32*	14*
11 12	12 29.14	+ 5 7.0	3.575	2.964	13.7	21.4	45 W	37*	19*
11 22	12 41.01	+ 3 47.1	3.445	2.942	15.4	21.4	52 W	41*	24*
12 2	12 52.43	+ 2 31.6	3.303	2.920	16.8	21.3	59 W	44*	31*
12 12	13 3.27	+ 1 21.3	3.152	2.896	18.1	21.2	66 W	45*	38*
12 22	13 13.38	+ 0 17.2	2.993	2.871	19.2	21.1	73 W	45*	45*
1 1	13 22.58	− 0 40.3	2.829	2.845	20.0	21.0	81 W	44	52*
1 11	13 30.64	− 1 30.0	2.660	2.819	20.4	20.9	89 W	43	59*
1 21	13 37.31	− 2 11.4	2.491	2.791	20.5	20.7	97 W	43	65*

450649 2006 UY_{64}

8 14	10 34.17	+18 29.1	1.816	0.877	17.3	21.4	15 E	7*	5*
8 19	10 53.08	+15 30.0	1.802	0.863	17.5	21.4	15 E	6*	6*
8 24	11 11.58	+12 21.8	1.787	0.850	17.7	21.3	15 E	5*	7*
8 29	11 29.76	+ 9 5.9	1.773	0.838	18.0	21.3	15 E	4*	7*
9 3	11 47.72	+ 5 43.4	1.758	0.826	18.4	21.3	15 E	3*	8*
9 8	12 5.58	+ 2 15.8	1.743	0.816	19.1	21.2	15 E	2*	9*
9 13	12 23.45	− 1 15.6	1.727	0.807	19.8	21.2	16 E	1*	10*
9 18	12 41.46	− 4 49.2	1.711	0.799	20.8	21.2	16 E	—	10*
9 23	12 59.77	− 8 23.5	1.694	0.793	22.0	21.2	17 E	—	11*
9 28	13 18.52	−11 56.6	1.676	0.788	23.3	21.2	18 E	—	12*
10 3	13 37.90	−15 26.8	1.659	0.786	24.8	21.2	19 E	—	13*
10 8	13 58.06	−18 51.9	1.640	0.785	26.3	21.2	20 E	—	14*
10 13	14 19.20	−22 9.4	1.622	0.786	28.0	21.3	22 E	—	15*
10 18	14 41.47	−25 16.7	1.604	0.789	29.6	21.3	23 E	—	16*
10 23	15 5.04	−28 10.7	1.585	0.794	31.2	21.3	24 E	—	17*
10 28	15 30.03	−30 48.2	1.568	0.801	32.7	21.4	26 E	—	18*
11 2	15 56.50	−33 5.7	1.552	0.809	34.1	21.4	27 E	—	20*
11 7	16 24.41	−34 59.7	1.537	0.818	35.4	21.5	29 E	—	21*
11 12	16 53.59	−36 26.9	1.524	0.829	36.6	21.5	30 E	—	23*

475950 2007 FE_1

8 14	10 41.05	+13 7.3	2.110	1.172	14.0	21.5	16 E	4*	9*
8 24	11 13.49	+ 9 5.5	2.043	1.102	14.2	21.3	15 E	3*	9*
9 3	11 47.51	+ 4 35.5	1.977	1.038	14.7	21.1	15 E	2*	9*
9 13	12 23.40	− 0 19.2	1.916	0.984	15.9	20.9	15 E	1*	9*
9 23	13 1.49	− 5 31.0	1.863	0.944	17.5	20.8	16 E	1*	10*
10 3	13 42.15	−10 48.5	1.819	0.920	19.5	20.8	18 E	1*	12*
10 13	14 25.69	−15 55.5	1.789	0.914	21.7	20.8	20 E	1*	14*
10 23	15 12.16	−20 32.7	1.775	0.928	23.5	20.9	22 E	1*	16*
11 2	16 1.19	−24 20.6	1.779	0.960	24.8	21.0	24 E	1*	18*
11 12	16 51.83	−27 3.7	1.803	1.007	25.2	21.2	26 E	2*	20*
11 22	17 42.55	−28 34.3	1.846	1.065	24.9	21.3	27 E	4*	21*
12 2	18 31.70	−28 54.3	1.908	1.133	23.9	21.5	28 E	5*	21*

99915 1997 TR_6

8 14	10 43.11	+ 9 9.2	4.653	3.700	4.8	21.5	18 E	2*	11*
8 24	10 53.96	+ 8 5.6	4.699	3.712	3.0	21.4	11 E	—	5*
9 3	11 4.83	+ 7 0.8	4.728	3.722	1.2	21.3	4 E	—	—
9 13	11 15.67	+ 5 55.4	4.737	3.732	0.8	21.3	3 W	—	—
9 23	11 26.41	+ 4 49.9	4.727	3.741	2.6	21.4	10 W	3*	—

426071 2012 CD_{29}

8 14	11 7.03	+13 17.8	1.433	0.631	38.0	21.2	23 E	9*	14*
8 19	11 25.40	+11 44.8	1.335	0.559	44.2	21.0	23 E	9*	14*
8 24	11 43.98	+ 9 54.7	1.223	0.488	53.4	20.7	23 E	9*	15*
8 29	12 1.63	+ 7 43.2	1.095	0.425	67.2	20.6	23 E	9*	15*
9 3	12 15.59	+ 5 5.3	0.953	0.378	87.3	20.8	22 E	7*	15*

413577 2005 UL_5

8 14	11 24.95	−44 25.7	0.314	0.920	98.1	21.1	64 E	—	37*
8 15	11 33.31	−46 30.4	0.314	0.930	96.1	21.1	66 E	—	38*
8 16	11 42.28	−48 31.9	0.314	0.940	94.1	21.0	68 E	—	39*
8 17	11 51.91	−50 29.6	0.315	0.950	92.2	20.9	70 E	—	40*
8 18	12 2.25	−52 22.7	0.316	0.960	90.2	20.9	72 E	—	40*
8 19	12 13.34	−54 10.7	0.318	0.970	88.3	20.9	73 E	—	41*
8 20	12 25.22	−55 52.9	0.320	0.980	86.4	20.8	75 E	—	42*
8 21	12 37.93	−57 28.7	0.323	0.989	84.6	20.8	77 E	—	42*
8 22	12 51.49	−58 57.5	0.326	0.999	82.8	20.8	79 E	—	43*
8 23	13 5.89	−60 18.8	0.330	1.008	81.1	20.7	80 E	—	43*
8 24	13 21.11	−61 32.1	0.334	1.018	79.4	20.7	82 E	—	44*
8 25	13 37.09	−62 37.0	0.338	1.027	77.8	20.7	83 E	—	45*
8 26	13 53.74	−63 33.1	0.343	1.036	76.2	20.7	85 E	—	45*
8 27	14 10.95	−64 20.4	0.348	1.045	74.7	20.7	86 E	—	46*
8 28	14 28.56	−64 58.7	0.354	1.054	73.3	20.7	87 E	—	46*
8 29	14 46.39	−65 28.2	0.360	1.062	71.9	20.7	88 E	—	47*
8 30	15 4.26	−65 49.2	0.366	1.071	70.5	20.7	90 E	—	47*
8 31	15 21.97	−66 2.0	0.372	1.079	69.3	20.8	91 E	—	48*
9 1	15 39.34	−66 7.1	0.379	1.088	68.0	20.8	92 E	—	48*

413577 2005 UL_5 *(continuation)*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 2	15 56.21	−66 5.2	0.386	1.096	66.9	20.8	93 E	—	49*
9 3	16 12.46	−65 57.0	0.393	1.104	65.8	20.8	93 E	—	49*
9 4	16 27.98	−65 43.2	0.401	1.112	64.7	20.8	94 E	—	50*
9 5	16 42.71	−65 24.4	0.408	1.120	63.7	20.9	95 E	—	50*
9 6	16 56.62	−65 1.5	0.416	1.128	62.7	20.9	96 E	—	51*
9 7	17 9.71	−64 34.9	0.424	1.136	61.8	20.9	96 E	—	51*
9 8	17 21.99	−64 5.4	0.433	1.144	61.0	20.9	97 E	—	52
9 9	17 33.47	−63 33.4	0.441	1.151	60.1	21.0	98 E	—	52
9 10	17 44.22	−62 59.4	0.450	1.159	59.4	21.0	98 E	—	53
9 11	17 54.25	−62 23.9	0.459	1.166	58.6	21.0	98 E	—	54
9 12	18 3.64	−61 47.2	0.468	1.174	57.9	21.1	99 E	—	54
9 13	18 12.42	−61 9.5	0.477	1.181	57.3	21.1	99 E	—	55
9 14	18 20.63	−60 31.3	0.486	1.188	56.6	21.2	100 E	—	55
9 15	18 28.34	−59 52.6	0.495	1.195	56.0	21.2	100 E	—	56
9 16	18 35.57	−59 13.6	0.505	1.202	55.4	21.2	100 E	—	57
9 17	18 42.37	−58 34.6	0.514	1.209	54.9	21.3	100 E	—	57
9 18	18 48.78	−57 55.6	0.524	1.215	54.4	21.3	101 E	—	58
9 19	18 54.83	−57 16.7	0.534	1.222	53.9	21.3	101 E	—	59
9 20	19 0.55	−56 38.0	0.544	1.228	53.4	21.4	101 E	—	59
9 21	19 5.98	−55 59.6	0.554	1.235	53.0	21.4	101 E	—	60
9 22	19 11.13	−55 21.6	0.564	1.241	52.6	21.5	101 E	—	61
9 23	19 16.02	−54 43.9	0.575	1.247	52.2	21.5	101 E	—	61
9 25	19 25.16	−53 29.9	0.595	1.260	51.4	21.6	101 E	—	63
9 27	19 33.52	−52 17.7	0.617	1.271	50.8	21.7	101 E	—	64
9 29	19 41.24	−51 7.4	0.638	1.283	50.2	21.7	101 E	—	65
10 1	19 48.41	−49 59.0	0.660	1.294	49.6	21.8	100 E	—	66

15817 Lucianotesi

8 14	11 33.04	+ 7 56.0	2.007	1.236	24.1	21.5	30 E	9*	23*
8 24	12 4.48	+ 5 25.8	2.009	1.221	23.3	21.5	29 E	9*	21*
9 3	12 36.28	+ 2 47.1	2.009	1.207	22.7	21.4	27 E	10*	20*
9 13	13 8.59	+ 0 3.3	2.009	1.195	22.0	21.4	26 E	10*	19*
9 23	13 41.49	− 2 41.9	2.008	1.185	21.5	21.3	26 E	10*	18*
10 3	14 15.13	− 5 24.7	2.008	1.177	20.9	21.3	25 E	10*	17*
10 13	14 49.61	− 8 0.7	2.010	1.172	20.3	21.3	24 E	10*	16*
10 23	15 24.94	−10 25.1	2.013	1.169	19.8	21.2	23 E	11*	15*
11 2	16 1.14	−12 33.3	2.020	1.168	19.1	21.2	23 E	11*	13*
11 12	16 38.13	−14 21.0	2.030	1.170	18.3	21.2	22 E	11*	12*
11 22	17 15.71	−15 44.2	2.043	1.175	17.5	21.2	21 E	11*	10*
12 2	17 53.66	−16 40.2	2.060	1.182	16.5	21.2	20 E	10*	9*
12 12	18 31.67	−17 7.2	2.080	1.191	15.4	21.2	19 E	10*	7*
12 22	19 9.42	−17 5.0	2.104	1.202	14.2	21.2	17 E	9*	5*
1 1	19 46.61	−16 34.6	2.130	1.215	12.9	21.2	16 E	8*	4*
1 11	20 23.00	−15 38.3	2.157	1.229	11.4	21.2	14 E	7*	2*
1 21	20 58.40	−14 19.2	2.186	1.245	9.9	21.2	13 E	6*	1*

133577 2003 UB_{50}

8 14	11 35.32	+ 7 22.9	3.233	2.416	12.3	21.5	31 E	10*	23*
8 24	11 51.39	+ 5 37.6	3.267	2.393	10.4	21.4	25 E	7*	19*
9 3	12 7.86	+ 3 49.4	3.290	2.370	8.5	21.3	20 E	5*	14*
9 13	12 24.72	+ 1 59.1	3.301	2.345	6.5	21.2	15 E	3*	9*
9 23	12 41.98	+ 0 7.6	3.300	2.321	4.6	21.1	11 E	2*	3*
10 3	12 59.66	− 1 44.4	3.287	2.295	2.8	21.0	6 E	—	—
10 13	13 17.78	− 3 36.0	3.263	2.269	1.9	20.9	4 E	—	—
10 23	13 36.34	− 5 26.2	3.228	2.243	3.0	20.9	7 W	—	—
11 2	13 55.38	− 7 13.9	3.182	2.216	4.9	21.0	11 W	5*	—
11 12	14 14.92	− 8 58.2	3.126	2.188	7.0	21.0	16 W	9*	1*
11 22	14 34.97	−10 37.9	3.060	2.161	9.1	21.0	20 W	13*	6*
12 2	14 55.54	−12 11.9	2.985	2.132	11.3	21.0	25 W	16*	10*
12 12	15 16.64	−13 38.9	2.901	2.104	13.4	21.0	30 W	19*	15*
12 22	15 38.26	−14 57.8	2.810	2.075	15.6	21.0	34 W	21*	20*
1 1	16 0.36	−16 7.6	2.713	2.047	17.7	20.9	39 W	22*	26*
1 11	16 22.92	−17 7.2	2.610	2.018	19.7	20.9	44 W	22*	32*
1 21	16 45.87	−17 55.6	2.502	1.990	21.7	20.8	48 W	23*	38*

417655 2006 YF_{13}

8 14	11 54.01	+ 6 1.3	0.964	0.602	76.8	21.4	35 E	12*	28*
8 19	12 9.93	+ 5 28.6	0.882	0.577	85.1	21.4	35 E	12*	27*
8 24	12 24.11	+ 5 7.2	0.797	0.559	94.8	21.5	33 E	13*	26*
8 29	12 35.53	+ 5 0.1	0.711	0.549	105.9	21.8	32 E	13*	24*
9 3	12 42.98	+ 5 8.9	0.626	0.550	118.1	22.3	29 E	12*	21*

103358 2000 AE_{93}

8 14	11 54.57	+ 7 58.0	3.530	2.762	12.1	21.5	35 E	13*	27*
8 24	12 7.97	+ 6 18.2	3.581	2.744	10.4	21.4	29 E	11*	22*
9 3	12 21.78	+ 4 37.0	3.619	2.724	8.5	21.4	24 E	8*	16*
9 13	12 36.00	+ 2 54.9	3.643	2.704	6.6	21.3	18 E	6*	11*
9 23	12 50.57	+ 1 12.5	3.652	2.683	4.8	21.2	13 E	4*	5*
10 3	13 5.49	− 0 29.5	3.647	2.661	3.1	21.0	8 E	2*	—
10 13	13 20.75	− 2 10.5	3.628	2.637	2.2	21.0	6 E	—	—
10 23	13 36.32	− 3 49.8	3.594	2.613	3.1	21.0	8 W	2*	—

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
103358 2000 AE_{93} *(continuation)*									
	h m	° ′			°	m	°	°	°
11 2	13 52.22	− 5 26.8	3.547	2.588	4.9	21.0	13 W	7*	—
11 12	14 8.41	− 7 0.7	3.485	2.563	6.9	21.1	18 W	12*	2*
11 22	14 24.88	− 8 30.8	3.411	2.536	8.9	21.1	24 W	16*	7*
12 2	14 41.61	− 9 56.4	3.324	2.508	11.0	21.1	29 W	20*	12*
12 12	14 58.57	−11 16.8	3.225	2.480	13.1	21.1	35 W	23*	18*
12 22	15 15.71	−12 31.5	3.115	2.451	15.1	21.1	40 W	25*	24*
1 1	15 32.98	−13 39.8	2.995	2.421	17.1	21.0	46 W	27*	31*
1 11	15 50.31	−14 41.4	2.866	2.390	18.9	20.9	52 W	27*	38*
1 21	16 7.62	−15 35.8	2.730	2.358	20.7	20.9	58 W	27*	45*
486607 2013 KY_1									
8 14	12 12.73	+12 41.1	2.098	1.450	25.8	21.4	39 E	20*	28*
8 24	12 39.73	+ 9 31.9	2.075	1.399	25.5	21.3	37 E	19*	27*
9 3	13 8.02	+ 6 8.3	2.052	1.353	25.2	21.2	35 E	17*	25*
9 13	13 37.67	+ 2 33.0	2.030	1.314	25.0	21.1	33 E	17*	24*
9 23	14 8.75	− 1 10.1	2.012	1.282	24.7	21.0	32 E	16*	23*
10 3	14 41.31	− 4 55.5	2.001	1.259	24.4	20.9	31 E	15*	23*
10 13	15 15.39	− 8 36.6	1.997	1.245	24.0	20.9	30 E	14*	22*
10 23	15 50.92	−12 5.5	2.004	1.241	23.4	20.9	30 E	13*	21*
11 2	16 27.75	−15 14.2	2.021	1.247	22.6	20.9	29 E	12*	20*
11 12	17 5.61	−17 55.1	2.050	1.263	21.5	20.9	28 E	12*	19*
11 22	17 44.06	−20 2.5	2.090	1.289	20.3	21.0	27 E	11*	18*
12 2	18 22.60	−21 32.9	2.141	1.322	18.8	21.0	26 E	10*	17*
12 12	19 0.66	−22 25.6	2.201	1.363	17.2	21.1	24 E	9*	15*
12 22	19 37.69	−22 42.3	2.269	1.411	15.4	21.2	22 E	9*	14*
1 1	20 13.29	−22 27.0	2.343	1.463	13.6	21.3	20 E	7*	12*
1 11	20 47.17	−21 44.6	2.422	1.520	11.7	21.3	18 E	6*	10*
1 21	21 19.18	−20 40.5	2.502	1.579	9.9	21.4	16 E	4*	8*
326777 2003 SV_{222}									
8 14	12 28.47	− 7 12.7	1.950	1.485	30.7	21.4	48 E	8*	42*
8 24	12 53.66	− 8 14.8	1.956	1.430	29.9	21.3	45 E	8*	39*
9 3	13 20.35	− 9 20.2	1.955	1.375	29.2	21.2	42 E	8*	36*
9 13	13 48.66	−10 26.1	1.945	1.322	28.5	21.1	39 E	9*	33*
9 23	14 18.70	−11 28.9	1.930	1.270	28.0	21.0	36 E	10*	30*
10 3	14 50.57	−12 25.1	1.909	1.222	27.6	20.9	34 E	11*	28*
10 13	15 24.38	−13 10.4	1.884	1.178	27.4	20.8	33 E	12*	26*
10 23	16 0.13	−13 40.5	1.856	1.140	27.5	20.7	32 E	13*	24*
11 2	16 37.76	−13 51.1	1.828	1.108	27.8	20.6	31 E	15*	22*
11 12	17 17.13	−13 38.4	1.801	1.084	28.3	20.5	31 E	17*	20*
11 22	17 57.92	−12 59.4	1.779	1.070	28.9	20.5	32 E	19*	19*
12 2	18 39.73	−11 53.1	1.764	1.065	29.4	20.5	32 E	21*	17*
12 12	19 22.05	−10 20.1	1.758	1.071	29.8	20.5	33 E	22*	15*
12 22	20 4.34	− 8 23.2	1.764	1.086	29.8	20.5	33 E	24*	14*
1 1	20 46.06	− 6 7.2	1.783	1.110	29.5	20.6	34 E	25*	12*
1 11	21 26.78	− 3 38.1	1.817	1.143	28.8	20.7	34 E	26*	11*
1 21	22 6.15	− 1 2.4	1.863	1.182	27.7	20.7	34 E	27*	11*
467609 2008 AV_{28}									
8 14	12 30.36	−13 51.8	0.977	0.873	66.2	21.4	52 E	4*	46*
8 19	12 49.09	−14 39.4	0.939	0.852	68.6	21.3	52 E	4*	45*
8 24	13 8.67	−15 17.4	0.900	0.833	71.3	21.3	51 E	5*	45*
8 29	13 29.10	−15 43.5	0.859	0.817	74.1	21.2	51 E	6*	45*
9 3	13 50.38	−15 55.1	0.817	0.805	76.9	21.2	51 E	8*	45*
9 8	14 12.44	−15 49.5	0.775	0.796	79.8	21.1	51 E	10*	45*
9 13	14 35.23	−15 24.3	0.733	0.790	82.6	21.1	51 E	12*	45*
9 18	14 58.65	−14 37.2	0.692	0.789	85.2	21.1	51 E	14*	45*
9 23	15 22.60	−13 26.6	0.652	0.792	87.5	21.0	52 E	17*	45*
9 28	15 46.99	−11 51.6	0.615	0.798	89.4	21.0	53 E	21*	45*
10 3	16 11.78	− 9 52.6	0.580	0.809	90.7	21.0	54 E	24*	45*
10 8	16 36.96	− 7 30.5	0.549	0.823	91.3	20.9	55 E	28*	44*
10 13	17 2.54	− 4 47.7	0.521	0.839	91.3	20.8	57 E	32*	44*
10 18	17 28.56	− 1 47.3	0.498	0.859	90.5	20.8	60 E	36*	43*
10 23	17 55.10	+ 1 26.3	0.479	0.881	89.0	20.7	62 E	41*	42*
10 28	18 22.23	+ 4 47.7	0.464	0.905	86.8	20.6	65 E	45*	40*
11 2	18 50.05	+ 8 10.8	0.454	0.930	84.2	20.5	69 E	50*	39*
11 7	19 18.58	+11 29.7	0.449	0.956	81.1	20.4	72 E	54*	38*
11 12	19 47.76	+14 38.4	0.448	0.983	77.7	20.3	76 E	58*	36*
11 17	20 17.43	+17 31.6	0.452	1.011	74.2	20.3	80 E	62*	35*
11 22	20 47.36	+20 4.9	0.461	1.039	70.7	20.3	83 E	65*	34*
11 27	21 17.24	+22 15.6	0.475	1.067	67.3	20.3	86 E	67*	33*
12 2	21 46.77	+24 3.0	0.492	1.096	64.1	20.3	89 E	69	32*
12 7	22 15.63	+25 27.8	0.515	1.123	61.2	20.4	92 E	70	32*
12 12	22 43.53	+26 32.2	0.541	1.151	58.6	20.5	93 E	72	31*
12 17	23 10.26	+27 18.9	0.571	1.178	56.4	20.6	95 E	72	31*
12 22	23 35.68	+27 50.8	0.604	1.205	54.4	20.7	96 E	73	31*
12 27	23 59.77	+28 10.8	0.641	1.230	52.6	20.8	96 E	73	31*
1 1	0 22.54	+28 21.9	0.681	1.256	51.1	21.0	96 E	73	31*
1 6	0 44.08	+28 26.3	0.724	1.280	49.8	21.1	96 E	73	31*
1 11	1 4.46	+28 26.1	0.770	1.304	48.7	21.2	95 E	73	31*
1 16	1 23.80	+28 22.7	0.817	1.326	47.7	21.4	94 E	73	31*

21/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
456301 2006 SV_{134}									
	h m	° ′			°	m	°	°	°
8 14	12 38.02	+ 0 31.6	1.476	1.089	43.3	21.4	48 E	16*	40*
8 24	13 12.28	− 0 20.6	1.438	1.041	44.7	21.3	46 E	17*	39*
9 3	13 48.85	− 1 16.5	1.394	1.004	46.3	21.2	46 E	19*	38*
9 13	14 27.83	− 2 14.0	1.349	0.980	48.1	21.1	46 E	21*	38*
9 23	15 9.27	− 3 10.5	1.305	0.970	49.7	21.1	48 E	24*	38*
10 3	15 53.12	− 4 3.7	1.266	0.974	51.1	21.0	49 E	27*	38*
10 13	16 39.19	− 4 50.4	1.237	0.994	51.8	21.1	51 E	29*	39*
10 23	17 26.96	− 5 26.4	1.223	1.026	51.6	21.1	54 E	32*	40*
11 2	18 15.60	− 5 47.3	1.227	1.070	50.6	21.2	56 E	34*	40*
11 12	19 4.00	− 5 49.1	1.254	1.123	48.8	21.3	59 E	36*	41*
11 22	19 50.92	− 5 29.9	1.303	1.182	46.5	21.4	60 E	37*	40*
434632 2005 WE									
8 14	13 11.48	−10 55.6	0.698	0.892	78.1	21.5	60 E	12*	53*
8 19	13 30.85	−10 58.7	0.671	0.882	80.1	21.5	59 E	14*	53*
8 24	13 50.77	−10 50.6	0.644	0.873	82.1	21.4	59 E	15*	52*
8 29	14 11.22	−10 29.9	0.616	0.867	84.0	21.4	59 E	17*	52*
9 3	14 32.18	− 9 55.7	0.589	0.863	85.8	21.3	59 E	19*	52*
9 8	14 53.62	− 9 6.9	0.561	0.862	87.5	21.3	59 E	21*	51*
9 13	15 15.52	− 8 3.2	0.535	0.863	88.9	21.3	59 E	24*	51*
9 18	15 37.85	− 6 44.2	0.510	0.866	89.9	21.2	60 E	26*	50*
9 23	16 0.60	− 5 10.3	0.486	0.872	90.6	21.1	60 E	29*	49*
9 28	16 23.81	− 3 22.7	0.464	0.881	90.9	21.1	61 E	32*	49*
10 3	16 47.53	− 1 23.0	0.444	0.891	90.7	21.0	63 E	36*	48*
10 8	17 11.86	+ 0 46.8	0.427	0.904	90.0	20.9	65 E	39*	47*
10 13	17 36.88	+ 3 4.2	0.412	0.918	88.8	20.8	67 E	43*	46*
10 18	18 2.65	+ 5 26.3	0.399	0.933	87.1	20.7	69 E	46*	45*
10 23	18 29.25	+ 7 49.6	0.389	0.950	85.0	20.6	72 E	50*	44*
10 28	18 56.71	+10 10.1	0.382	0.968	82.5	20.5	75 E	53*	43*
11 2	19 25.01	+12 24.1	0.378	0.987	79.7	20.4	78 E	56*	42*
11 7	19 54.07	+14 27.8	0.378	1.007	76.7	20.4	82 E	59*	41*
11 12	20 23.66	+16 18.4	0.381	1.027	73.6	20.3	85 E	61*	40*
11 17	20 53.49	+17 53.6	0.387	1.048	70.5	20.3	88 E	63	40*
11 22	21 23.19	+19 11.9	0.398	1.069	67.5	20.3	91 E	64	39*
11 27	21 52.43	+20 13.1	0.411	1.090	64.7	20.3	93 E	65	39*
12 2	22 20.87	+20 58.4	0.429	1.110	62.2	20.4	95 E	66	39*
12 7	22 48.27	+21 29.8	0.450	1.131	59.9	20.5	97 E	67	38*
12 12	23 14.45	+21 50.1	0.474	1.151	57.9	20.6	98 E	67	38*
12 17	23 39.30	+22 1.7	0.502	1.171	56.1	20.7	99 E	67	38*
12 22	0 2.79	+22 6.7	0.532	1.191	54.6	20.8	99 E	67	38*
12 27	0 24.98	+22 7.2	0.565	1.210	53.4	20.9	99 E	67	38*
1 1	0 45.96	+22 5.0	0.601	1.228	52.3	21.1	99 E	67	38*
1 6	1 5.84	+22 1.3	0.639	1.246	51.4	21.2	98 E	67	38*
1 11	1 24.73	+21 57.1	0.679	1.263	50.6	21.3	97 E	67	38*
1 16	1 42.75	+21 53.0	0.721	1.280	49.8	21.5	96 E	67	38*
431760 2008 HE									
8 14	13 48.37	− 5 54.6	1.536	1.460	39.4	21.4	66 E	22*	58*
8 24	13 51.00	− 6 23.1	1.523	1.297	41.1	21.2	57 E	19*	50*
9 3	13 55.60	− 7 1.5	1.481	1.120	42.9	20.9	49 E	16*	42*
9 13	14 1.48	− 7 46.9	1.404	0.923	45.7	20.4	41 E	13*	34*
9 18	14 4.50	− 8 10.8	1.349	0.815	47.9	20.1	37 E	11*	30*
9 23	14 7.11	− 8 34.3	1.281	0.699	51.2	19.8	33 E	10*	26*
9 28	14 8.53	− 8 55.3	1.197	0.573	56.5	19.3	28 E	8*	22*
10 3	14 6.88	− 9 8.9	1.095	0.432	66.1	18.8	23 E	6*	17*
10 5	14 4.35	− 9 9.6	1.048	0.371	72.4	18.6	21 E	5*	14*
10 7	13 59.76	− 9 4.9	0.997	0.306	81.7	18.4	18 E	3*	11*
10 9	13 51.67	− 8 50.7	0.945	0.238	96.3	18.3	14 E	2*	7*
10 11	13 37.29	− 8 19.0	0.897	0.168	123.0	19.1	8 E	—	2*
247517 2002 QY_6									
8 14	13 54.57	+11 14.4	0.381	0.908	94.6	20.8	63 E	36*	46*
8 16	14 14.83	+ 9 0.2	0.384	0.932	90.8	20.7	67 E	37*	49*
8 18	14 34.16	+ 6 46.1	0.391	0.954	87.0	20.6	70 E	38*	52*
8 20	14 52.45	+ 4 34.9	0.400	0.976	83.5	20.6	73 E	38*	55*
8 22	15 9.63	+ 2 29.0	0.411	0.997	80.2	20.6	76 E	38*	58*
8 24	15 25.71	+ 0 29.9	0.425	1.017	77.1	20.6	79 E	37*	61*
8 26	15 40.71	− 1 21.4	0.441	1.037	74.2	20.6	81 E	37*	63*
8 28	15 54.68	− 3 4.4	0.458	1.056	71.6	20.6	83 E	36*	65*
8 30	16 7.70	− 4 39.1	0.477	1.074	69.3	20.7	84 E	36*	67*
9 1	16 19.82	− 6 5.8	0.498	1.092	67.2	20.7	86 E	35*	69*
9 3	16 31.14	− 7 24.9	0.519	1.109	65.2	20.8	87 E	34*	70*
9 8	16 56.41	−10 13.0	0.576	1.150	61.2	21.0	89 E	33*	73*
9 13	17 18.16	−12 25.6	0.637	1.186	58.0	21.2	89 E	31*	75*
9 18	17 37.26	−14 10.3	0.701	1.220	55.5	21.4	89 E	30*	77*
9 23	17 54.33	−15 33.1	0.767	1.250	53.4	21.6	89 E	29*	77*