138404 2000 HA_{24}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 10	3 57.46	+21 53.0	1.332	0.966	49.4	21.5	46 W	26*	31*
7 15	4 22.83	+23 0.5	1.324	0.939	49.9	21.4	45 W	27*	29*
7 20	4 49.06	+23 53.3	1.320	0.914	50.2	21.4	44 W	27*	27*
7 25	5 16.01	+24 29.6	1.321	0.889	50.2	21.3	42 W	27*	25*
7 30	5 43.49	+24 47.8	1.326	0.866	50.0	21.3	41 W	27*	24*
8 4	6 11.29	+24 46.8	1.335	0.845	49.5	21.2	39 W	27*	22*
8 9	6 39.19	+24 26.3	1.347	0.826	48.7	21.2	38 W	26*	20*
8 14	7 6.95	+23 46.4	1.364	0.809	47.6	21.1	36 W	25*	19*
8 19	7 34.37	+22 48.0	1.384	0.796	46.2	21.1	35 W	25*	17*
8 24	8 1.25	+21 32.5	1.407	0.785	44.5	21.0	33 W	24*	16*
8 29	8 27.46	+20 1.6	1.433	0.779	42.7	21.0	32 W	23*	15*
9 3	8 52.90	+18 17.6	1.461	0.776	40.7	21.0	30 W	22*	14*
9 8	9 17.53	+16 22.6	1.490	0.777	38.6	21.0	29 W	21*	13*
9 13	9 41.32	+14 19.0	1.521	0.782	36.5	21.0	28 W	20*	12*
9 18	10 4.27	+12 9.0	1.552	0.791	34.4	21.0	26 W	19*	11*
9 23	10 26.42	+ 9 54.9	1.584	0.803	32.5	21.0	25 W	18*	10*
9 28	10 47.80	+ 7 38.5	1.615	0.818	30.6	21.0	25 W	17*	10*
10 3	11 8.48	+ 5 21.6	1.647	0.837	29.0	21.1	24 W	16*	10*
10 8	11 28.51	+ 3 5.7	1.678	0.857	27.5	21.1	23 W	16*	9*
10 13	11 47.96	+ 0 51.8	1.708	0.879	26.2	21.2	23 W	15*	9*
10 18	12 6.89	− 1 18.8	1.737	0.903	25.2	21.2	23 W	15*	9*
10 23	12 25.36	− 3 25.4	1.765	0.929	24.3	21.3	23 W	14*	9*
10 28	12 43.41	− 5 27.3	1.792	0.955	23.6	21.4	23 W	14*	10*
11 2	13 1.10	− 7 24.1	1.817	0.981	23.1	21.5	23 W	14*	10*

220839 2004 *VA*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 10	4 0.05	+17 49.4	2.215	1.684	25.9	21.3	46 W	23*	34*
7 20	4 28.33	+19 2.8	2.068	1.600	28.7	21.2	49 W	27*	34*
7 30	4 59.33	+20 2.7	1.924	1.514	31.6	21.0	51 W	32*	34*
8 9	5 33.50	+20 43.8	1.786	1.425	34.5	20.8	53 W	35*	33*
8 19	6 11.30	+20 59.0	1.657	1.334	37.6	20.5	54 W	38*	32*
8 29	6 53.04	+20 39.0	1.541	1.241	40.8	20.3	53 W	40*	31*
9 3	7 15.42	+20 12.7	1.489	1.195	42.4	20.2	53 W	40*	30*
9 8	7 38.78	+19 33.6	1.442	1.149	44.0	20.1	52 W	40*	29*
9 13	8 3.06	+18 40.6	1.401	1.103	45.5	20.0	51 W	40*	28*
9 18	8 28.15	+17 32.9	1.366	1.058	46.9	19.9	50 W	39*	27*
9 23	8 53.92	+16 10.0	1.338	1.014	48.1	19.8	49 W	38*	26*
9 28	9 20.22	+14 32.1	1.317	0.971	49.1	19.7	47 W	37*	24*
10 3	9 46.87	+12 40.0	1.304	0.931	49.8	19.6	45 W	35*	23*
10 8	10 13.72	+10 35.0	1.298	0.893	50.2	19.5	43 W	34*	22*
10 13	10 40.60	+ 8 19.3	1.301	0.859	50.1	19.4	41 W	32*	20*
10 18	11 7.38	+ 5 55.4	1.311	0.828	49.5	19.3	39 W	30*	19*
10 23	11 33.92	+ 3 26.2	1.328	0.804	48.3	19.3	37 W	28*	18*
10 28	12 0.16	+ 0 54.7	1.351	0.785	46.7	19.2	35 W	26*	17*
11 2	12 26.01	− 1 36.2	1.380	0.772	44.6	19.1	33 W	24*	15*
11 7	12 51.45	− 4 4.0	1.414	0.767	42.2	19.1	31 W	22*	14*
11 12	13 16.41	− 6 26.1	1.452	0.770	39.6	19.1	30 W	20*	14*
11 17	13 40.87	− 8 40.4	1.493	0.780	37.0	19.1	28 W	19*	13*
11 22	14 4.77	−10 45.3	1.536	0.797	34.4	19.2	27 W	18*	13*
11 27	14 28.09	−12 39.4	1.580	0.820	32.1	19.2	26 W	16*	12*
12 7	15 12.81	−15 53.3	1.669	0.881	28.2	19.4	25 W	14*	12*
12 17	15 54.84	−18 20.4	1.757	0.958	25.6	19.6	25 W	13*	13*
12 27	16 34.03	−20 4.0	1.839	1.043	24.0	19.8	26 W	12*	15*
1 1	16 52.55	−20 41.0	1.878	1.088	23.6	20.0	26 W	12*	16*
1 6	17 10.36	−21 9.4	1.915	1.134	23.4	20.1	27 W	12*	18*
1 11	17 27.46	−21 29.8	1.949	1.180	23.3	20.2	28 W	12*	19*
1 16	17 43.86	−21 43.1	1.981	1.226	23.3	20.3	30 W	12*	21*

413192 2002 VY_{94}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 10	4 45.65	+27 1.6	2.771	2.021	16.7	21.4	35 W	21*	20*
7 20	5 11.62	+27 23.8	2.628	1.938	19.0	21.3	38 W	25*	21*
7 30	5 39.13	+27 28.6	2.483	1.855	21.4	21.2	42 W	29*	22*
8 9	6 8.23	+27 12.3	2.339	1.772	23.8	21.0	45 W	33*	23*
8 19	6 38.94	+26 30.6	2.197	1.689	26.3	20.8	48 W	37*	24*
8 29	7 11.19	+25 19.2	2.061	1.607	28.7	20.7	50 W	40*	24*
9 8	7 44.88	+23 33.4	1.932	1.527	31.2	20.5	52 W	42*	25*
9 13	8 2.23	+22 26.3	1.871	1.488	32.4	20.4	52 W	42*	25*
9 18	8 19.87	+21 9.3	1.812	1.449	33.6	20.3	53 W	43*	26*
9 23	8 37.77	+19 42.0	1.757	1.412	34.8	20.2	53 W	43*	26*
9 28	8 55.92	+18 4.4	1.706	1.375	36.0	20.1	54 W	43*	27*
10 8	9 32.82	+14 18.5	1.615	1.307	38.2	20.0	54 W	43*	27*
10 18	10 10.37	+ 9 54.8	1.541	1.246	40.2	19.8	54 W	42*	29*
10 28	10 48.34	+ 5 0.9	1.485	1.194	41.8	19.7	53 W	40*	30*
11 2	11 7.44	+ 2 26.1	1.464	1.172	42.4	19.6	53 W	38*	31*
11 7	11 26.61	− 0 11.7	1.449	1.153	42.9	19.6	52 W	37*	31*
11 12	11 45.82	− 2 50.6	1.437	1.138	43.3	19.5	52 W	35*	32*
11 17	12 5.05	− 5 28.6	1.430	1.126	43.5	19.5	52 W	34*	33*
11 22	12 24.30	− 8 3.9	1.427	1.117	43.6	19.5	51 W	32*	34*

413192 2002 VY_{94} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
11 27	12 43.53	−10 34.5	1.428	1.113	43.5	19.5	51 W	30*	35*
12 2	13 2.73	−12 58.8	1.432	1.112	43.4	19.5	51 W	28*	36*
12 7	13 21.86	−15 15.6	1.439	1.116	43.1	19.5	51 W	27*	37*
12 12	13 40.91	−17 23.6	1.448	1.123	42.7	19.5	51 W	25*	38*
12 17	13 59.81	−19 22.0	1.458	1.134	42.3	19.5	51 W	23*	39*
12 22	14 18.51	−21 10.1	1.470	1.149	41.9	19.6	51 W	22*	41*
12 27	14 36.97	−22 47.6	1.483	1.167	41.4	19.6	52 W	20*	42*
1 1	14 55.12	−24 14.5	1.496	1.188	41.0	19.7	52 W	19*	43*
1 6	15 12.91	−25 30.9	1.509	1.212	40.5	19.7	53 W	18*	45*
1 11	15 30.29	−26 37.1	1.522	1.239	40.1	19.8	54 W	17*	46*
1 16	15 47.18	−27 33.5	1.533	1.268	39.7	19.8	55 W	16*	48*

488803 2005 GB_{120}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 10	5 49.27	+20 28.8	1.270	0.479	48.4	21.2	21 W	6*	13*
7 15	6 23.86	+20 9.1	1.344	0.482	39.0	21.1	17 W	4*	10*
7 20	6 57.76	+19 33.7	1.415	0.497	30.1	21.0	14 W	2*	7*
7 25	7 30.49	+18 43.5	1.479	0.522	22.3	21.0	11 W	—	4*
7 30	8 1.67	+17 40.1	1.537	0.554	15.9	21.0	9 W	—	2*
8 4	8 31.13	+16 25.7	1.590	0.592	10.8	21.0	6 W	—	—
8 9	8 58.87	+15 2.9	1.639	0.632	6.8	21.1	4 W	—	—
8 14	9 24.94	+13 33.9	1.684	0.674	3.9	21.1	3 W	—	—
8 19	9 49.49	+12 0.5	1.726	0.715	1.8	21.2	1 W	—	—
8 24	10 12.66	+10 24.4	1.766	0.755	1.0	21.3	1 E	—	—
8 29	10 34.60	+ 8 46.9	1.804	0.794	1.5	21.5	1 E	—	—

370061 2000 YO_{29}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 10	6 12.89	+22 26.7	2.591	1.630	9.3	21.4	15 W	4*	7*
7 15	6 24.34	+21 24.9	2.523	1.580	10.9	21.4	17 W	5*	9*
7 20	6 36.10	+20 16.5	2.452	1.530	12.6	21.3	19 W	6*	11*
7 25	6 48.21	+19 0.5	2.379	1.478	14.4	21.2	21 W	8*	13*
7 30	7 0.73	+17 36.2	2.303	1.425	16.2	21.2	23 W	9*	15*
8 4	7 13.70	+16 2.7	2.224	1.371	18.1	21.1	25 W	10*	16*
8 9	7 27.20	+14 18.7	2.145	1.315	20.0	21.0	26 W	11*	18*
8 14	7 41.33	+12 23.2	2.064	1.259	22.0	20.8	28 W	12*	19*
8 19	7 56.20	+10 14.9	1.983	1.201	24.0	20.7	29 W	12*	20*
8 24	8 11.93	+ 7 52.6	1.902	1.142	26.1	20.6	30 W	12*	22*
8 29	8 28.70	+ 5 15.1	1.823	1.082	28.3	20.4	30 W	12*	23*
9 3	8 46.71	+ 2 21.6	1.747	1.021	30.4	20.3	31 W	12*	23*
9 8	9 6.22	− 0 48.3	1.675	0.960	32.5	20.1	31 W	10*	24*
9 13	9 27.53	− 4 13.8	1.609	0.898	34.5	19.9	30 W	9*	24*
9 18	9 51.00	− 7 52.5	1.551	0.838	36.2	19.7	29 W	7*	23*
9 23	10 17.01	−11 39.3	1.501	0.778	37.5	19.5	28 W	4*	22*
9 28	10 45.95	−15 26.1	1.463	0.721	38.3	19.3	26 W	—	20*
9 30	10 58.41	−16 54.1	1.451	0.699	38.4	19.3	26 W	—	19*
10 2	11 11.40	−18 19.3	1.441	0.678	38.3	19.2	25 W	—	18*
10 4	11 24.91	−19 40.6	1.433	0.659	38.0	19.1	24 W	—	17*
10 6	11 38.95	−20 57.0	1.428	0.640	37.6	19.0	23 W	—	16*
10 8	11 53.47	−22 7.3	1.424	0.623	36.9	18.9	22 W	—	14*
10 10	12 8.45	−23 10.5	1.423	0.607	36.1	18.9	21 W	—	13*
10 12	12 23.83	−24 5.6	1.423	0.593	35.1	18.8	20 W	—	11*
10 14	12 39.54	−24 51.6	1.426	0.581	33.9	18.7	19 W	—	9*
10 16	12 55.48	−25 28.0	1.430	0.571	32.6	18.6	18 W	—	8*
10 18	13 11.57	−25 54.1	1.436	0.564	31.1	18.6	17 W	—	6*
10 20	13 27.68	−26 9.8	1.443	0.559	29.6	18.5	16 W	—	4*
10 22	13 43.71	−26 15.0	1.452	0.557	28.0	18.5	15 W	—	2*
10 24	13 59.56	−26 10.2	1.461	0.557	26.5	18.5	14 E	—	2*
10 26	14 15.12	−25 55.9	1.472	0.560	25.1	18.4	14 E	—	3*
10 28	14 30.31	−25 32.7	1.484	0.565	23.9	18.4	13 E	—	4*
10 30	14 45.07	−25 1.6	1.496	0.573	22.9	18.5	13 E	—	5*
11 1	14 59.35	−24 23.6	1.509	0.584	22.1	18.5	13 E	—	6*
11 3	15 13.13	−23 39.6	1.522	0.596	21.5	18.5	13 E	—	6*
11 5	15 26.38	−22 50.7	1.536	0.610	21.2	18.6	13 E	—	7*
11 7	15 39.11	−21 57.7	1.550	0.626	21.0	18.7	13 E	—	7*
11 9	15 51.34	−21 1.4	1.565	0.644	21.0	18.7	13 E	—	7*
11 11	16 3.07	−20 2.7	1.580	0.663	21.1	18.8	14 E	1*	7*
11 13	16 14.34	−19 2.0	1.595	0.683	21.3	18.9	14 E	3*	7*
11 15	16 25.17	−18 0.1	1.610	0.704	21.5	19.0	15 E	4*	7*
11 17	16 35.58	−16 57.3	1.626	0.726	21.7	19.1	16 E	6*	7*
11 22	16 59.97	−14 18.7	1.666	0.783	22.3	19.4	18 E	9*	6*
11 27	17 22.35	−11 41.0	1.708	0.843	22.8	19.6	19 E	12*	5*
12 2	17 43.08	− 9 6.6	1.751	0.904	23.1	19.8	21 E	15*	3*
12 7	18 2.44	− 6 36.6	1.795	0.965	23.3	20.0	23 E	17*	1*
12 17	18 37.94	− 1 51.4	1.886	1.087	23.2	20.4	26 E	20*	—
12 27	19 10.16	+ 2 34.9	1.978	1.206	22.7	20.7	28 E	21*	—
1 6	19 39.95	+ 6 44.6	2.072	1.320	22.1	21.0	30 E	21*	—
1 16	20 7.85	+10 40.4	2.167	1.430	21.3	21.2	32 E	20*	—

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
337248 2000 RH_{60}									
7 10	6 30.86	+15 53.0	1.542	0.595	22.2	21.0	13 W	—	7*
7 15	7 4.06	+15 45.3	1.504	0.532	19.2	20.6	10 W	—	4*
7 20	7 39.86	+15 26.8	1.466	0.472	14.7	20.1	7 W	—	—
7 25	8 18.26	+14 57.8	1.424	0.419	11.4	19.7	5 E	—	—
7 30	8 58.89	+14 19.8	1.373	0.383	17.7	19.6	7 E	—	—
8 4	9 40.70	+13 34.8	1.310	0.371	31.9	19.9	11 E	—	5*
8 9	10 22.13	+12 43.2	1.237	0.388	47.2	20.3	16 E	2*	10*
8 11	10 38.32	+12 20.3	1.206	0.401	52.6	20.5	18 E	4*	11*
8 13	10 54.23	+11 55.7	1.176	0.418	57.4	20.6	20 E	6*	13*
8 15	11 9.87	+11 29.3	1.146	0.438	61.5	20.8	22 E	7*	15*
8 17	11 25.25	+11 0.7	1.117	0.459	65.0	21.0	24 E	9*	16*
8 19	11 40.39	+10 29.8	1.090	0.482	67.9	21.1	26 E	11*	18*
8 24	12 17.39	+ 9 1.7	1.029	0.543	72.8	21.4	31 E	14*	22*
8 29	12 53.37	+ 7 17.9	0.980	0.605	75.0	21.6	35 E	17*	26*
9 3	13 28.49	+ 5 19.9	0.945	0.667	75.3	21.7	40 E	20*	30*
9 8	14 2.71	+ 3 11.1	0.923	0.726	74.3	21.8	44 E	23*	34*
451003 2008 UD_1									
7 10	7 32.85	+19 40.3	2.027	1.016	4.4	21.4	4 E	—	—
7 20	8 16.70	+18 14.9	1.981	0.972	5.2	21.3	5 E	—	—
7 30	9 1.47	+16 7.1	1.944	0.941	6.7	21.2	6 E	—	—
8 9	9 46.50	+13 20.1	1.918	0.923	8.5	21.2	8 E	—	2*
8 19	10 31.19	+10 0.6	1.904	0.922	10.5	21.3	10 E	—	3*
8 29	11 15.05	+ 6 18.6	1.905	0.936	12.4	21.4	11 E	—	5*
140039 2001 SO_{73}									
7 10	7 39.93	+18 31.3	2.548	1.542	4.2	21.4	6 E	—	—
7 20	8 7.53	+17 22.9	2.471	1.459	2.8	21.2	4 E	—	—
7 30	8 36.66	+15 52.7	2.386	1.373	2.0	20.9	3 W	—	—
8 9	9 7.46	+13 58.6	2.297	1.285	2.2	20.7	3 W	—	—
8 19	9 40.13	+11 38.3	2.206	1.197	3.0	20.5	4 W	—	—
8 29	10 14.91	+ 8 50.4	2.115	1.110	3.5	20.3	4 W	—	—
9 8	10 52.06	+ 5 34.4	2.029	1.025	3.6	20.0	4 W	—	—
9 18	11 31.94	+ 1 51.9	1.949	0.946	2.8	19.7	3 W	—	—
9 23	11 52.99	− 0 7.8	1.913	0.910	2.1	19.5	2 W	—	—
9 28	12 14.84	− 2 11.9	1.879	0.877	1.1	19.3	1 W	—	—
10 3	12 37.51	− 4 18.9	1.849	0.848	0.5	19.2	0 E	—	—
10 8	13 1.02	− 6 27.1	1.822	0.824	2.0	19.2	2 E	—	—
10 13	13 25.35	− 8 34.6	1.800	0.805	3.9	19.3	3 E	—	—
10 18	13 50.49	−10 38.8	1.781	0.792	5.9	19.3	5 E	—	—
10 23	14 16.36	−12 37.3	1.767	0.786	8.1	19.4	6 E	—	—
10 28	14 42.86	−14 27.5	1.757	0.786	10.3	19.5	8 E	—	2*
11 2	15 9.84	−16 6.9	1.753	0.793	12.4	19.6	10 E	—	3*
11 7	15 37.15	−17 33.3	1.753	0.807	14.2	19.7	12 E	1*	5*
11 12	16 4.59	−18 45.2	1.759	0.827	15.8	19.8	13 E	2*	6*
11 17	16 31.94	−19 41.5	1.770	0.851	17.1	19.9	15 E	3*	7*
11 22	16 58.98	−20 21.6	1.787	0.881	18.0	20.0	16 E	4*	8*
11 27	17 25.51	−20 45.8	1.809	0.914	18.6	20.1	17 E	5*	9*
12 2	17 51.34	−20 54.7	1.836	0.950	18.9	20.3	18 E	6*	10*
12 7	18 16.34	−20 49.6	1.868	0.989	18.9	20.4	19 E	7*	10*
12 12	18 40.38	−20 31.8	1.904	1.030	18.6	20.5	19 E	8*	10*
12 17	19 3.41	−20 2.9	1.944	1.072	18.2	20.6	20 E	9*	10*
12 22	19 25.38	−19 24.6	1.988	1.115	17.5	20.7	20 E	9*	9*
12 27	19 46.28	−18 38.4	2.034	1.158	16.8	20.9	20 E	10*	9*
1 1	20 6.14	−17 45.7	2.083	1.202	15.9	21.0	20 E	10*	8*
1 6	20 25.01	−16 48.0	2.133	1.246	14.9	21.1	19 E	10*	7*
1 11	20 42.93	−15 46.3	2.186	1.290	13.9	21.1	18 E	10*	7*
1 16	20 59.97	−14 41.6	2.239	1.334	12.8	21.2	18 E	10*	6*
162273 1999 VL_{12}									
7 10	7 40.52	+ 9 7.7	2.881	1.912	7.5	21.4	14 E	—	5*
7 20	8 2.24	+ 7 51.8	2.874	1.897	6.8	21.4	13 E	—	1*
7 30	8 24.04	+ 6 24.6	2.858	1.880	6.7	21.4	13 W	—	2*
8 9	8 45.90	+ 4 46.5	2.833	1.862	7.2	21.3	13 W	—	6*
8 19	9 7.86	+ 2 58.1	2.800	1.841	8.2	21.3	15 W	—	9*
8 29	9 29.94	+ 1 0.0	2.759	1.820	9.5	21.3	17 W	—	11*
9 8	9 52.19	− 1 7.0	2.712	1.796	11.0	21.3	20 W	2*	14*
9 18	10 14.68	− 3 22.0	2.657	1.772	12.6	21.3	23 W	6*	16*
9 28	10 37.49	− 5 43.7	2.596	1.745	14.3	21.3	25 W	9*	18*
10 8	11 0.72	− 8 10.7	2.530	1.718	16.1	21.3	28 W	12*	21*
10 18	11 24.49	−10 41.5	2.458	1.689	17.9	21.2	31 W	14*	23*
10 28	11 48.93	−13 14.2	2.383	1.659	19.7	21.2	34 W	16*	25*
11 7	12 14.20	−15 46.5	2.304	1.628	21.6	21.1	37 W	18*	28*
11 17	12 40.47	−18 15.8	2.221	1.596	23.5	21.1	40 W	18*	30*
11 27	13 7.92	−20 38.8	2.137	1.564	25.4	21.0	43 W	19*	33*
12 7	13 36.71	−22 51.8	2.051	1.531	27.3	20.9	46 W	18*	36*
12 17	14 7.02	−24 50.6	1.964	1.498	29.3	20.8	48 W	18*	39*
12 27	14 38.93	−26 30.0	1.876	1.465	31.3	20.7	51 W	17*	42*
1 6	15 12.49	−27 44.5	1.790	1.432	33.2	20.6	53 W	16*	45*
1 16	15 47.60	−28 28.5	1.705	1.400	35.2	20.5	55 W	15*	48*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
168381 1997 LY_4									
7 10	7 45.75	+16 58.0	3.291	2.290	3.7	21.4	8 E	—	2*
7 20	8 4.48	+15 55.8	3.303	2.293	2.2	21.3	5 E	—	—
7 30	8 22.99	+14 45.6	3.303	2.294	2.3	21.4	5 W	—	—
8 9	8 41.24	+13 27.9	3.290	2.293	3.9	21.4	9 W	—	3*
8 19	8 59.24	+12 3.1	3.264	2.291	5.8	21.5	13 W	3*	6*
416470 2003 WD_{82}									
7 10	7 47.48	+18 38.7	3.911	2.908	2.7	21.5	8 E	—	2*
7 20	8 2.91	+17 43.1	3.969	2.955	1.1	21.4	3 E	—	—
7 30	8 17.82	+16 43.3	4.012	3.003	1.7	21.5	5 W	—	—
8 9	8 32.18	+15 40.0	4.040	3.049	3.5	21.7	11 W	1*	4*
8 19	8 45.96	+14 33.8	4.051	3.095	5.3	21.8	17 W	7*	8*
122258 2000 OD_{44}									
7 10	7 51.13	+19 29.4	4.134	3.131	2.7	21.4	8 E	—	2*
7 20	8 5.20	+18 40.3	4.138	3.123	0.8	21.3	3 E	—	—
7 30	8 19.20	+17 46.4	4.125	3.114	1.4	21.3	4 W	—	—
8 9	8 33.07	+16 47.9	4.096	3.104	3.4	21.5	10 W	2*	3*
8 19	8 46.76	+15 45.2	4.050	3.093	5.3	21.5	16 W	7*	7*
189080 2001 MO_6									
7 10	8 8.65	+16 44.3	3.509	2.530	5.3	21.5	13 E	—	7*
7 20	8 26.15	+15 41.7	3.561	2.559	3.3	21.4	8 E	—	2*
7 30	8 43.23	+14 33.4	3.599	2.588	1.6	21.4	4 E	—	—
8 9	8 59.86	+13 20.0	3.624	2.615	1.8	21.4	5 W	—	—
8 19	9 16.04	+12 2.3	3.636	2.642	3.5	21.6	9 W	—	3*
144922 2005 CK_{38}									
7 10	8 16.00	+24 35.9	2.811	1.839	7.5	21.4	14 E	4*	5*
7 20	8 40.60	+22 55.7	2.777	1.786	5.7	21.2	10 E	2*	2*
7 30	9 5.59	+20 59.0	2.736	1.732	4.1	21.1	7 E	—	—
8 9	9 30.92	+18 45.6	2.688	1.680	2.7	20.9	5 E	—	—
8 19	9 56.63	+16 15.4	2.636	1.627	2.2	20.7	4 E	—	—
8 29	10 22.72	+13 28.6	2.581	1.576	2.9	20.6	5 W	—	—
9 8	10 49.25	+10 26.1	2.523	1.526	4.2	20.6	6 W	—	—
9 18	11 16.34	+ 7 8.7	2.465	1.478	5.7	20.6	8 W	2*	—
9 28	11 44.09	+ 3 38.4	2.408	1.433	7.2	20.5	10 W	4*	—
10 8	12 12.65	− 0 2.5	2.353	1.392	8.6	20.5	12 W	6*	1*
10 18	12 42.19	− 3 50.8	2.302	1.354	10.0	20.4	14 W	7*	2*
10 28	13 12.90	− 7 42.0	2.256	1.322	11.2	20.4	15 W	8*	4*
11 2	13 28.75	− 9 37.0	2.236	1.308	11.8	20.3	16 W	8*	5*
11 7	13 44.95	−11 30.7	2.216	1.295	12.4	20.3	16 W	8*	6*
11 12	14 1.53	−13 22.3	2.199	1.284	12.9	20.3	17 W	8*	7*
11 17	14 18.49	−15 10.9	2.183	1.275	13.4	20.3	17 W	8*	7*
11 22	14 35.85	−16 55.5	2.170	1.268	13.9	20.3	18 W	8*	8*
11 27	14 53.59	−18 35.3	2.158	1.262	14.4	20.3	19 W	8*	9*
12 2	15 11.72	−20 9.3	2.148	1.258	14.9	20.3	19 W	8*	10*
12 7	15 30.21	−21 36.6	2.140	1.256	15.3	20.3	20 W	7*	11*
12 12	15 49.04	−22 56.5	2.133	1.256	15.7	20.3	20 W	7*	12*
12 17	16 8.16	−24 8.1	2.129	1.258	16.1	20.3	21 W	6*	13*
12 22	16 27.51	−25 10.8	2.126	1.262	16.5	20.3	21 W	6*	14*
12 27	16 47.03	−26 4.1	2.125	1.268	16.9	20.4	22 W	5*	15*
1 1	17 6.64	−26 47.6	2.125	1.276	17.3	20.4	23 W	5*	16*
1 6	17 26.27	−27 21.1	2.126	1.285	17.7	20.4	23 W	5*	17*
1 11	17 45.82	−27 44.6	2.129	1.296	18.1	20.4	24 W	4*	18*
1 16	18 5.22	−27 58.3	2.133	1.309	18.5	20.5	25 W	4*	19*
306418 1998 KK_{56}									
7 10	8 54.66	+28 34.3	3.402	2.495	9.1	21.5	23 E	13*	10*
7 20	9 13.85	+27 47.0	3.382	2.440	7.7	21.3	19 E	11*	6*
7 30	9 33.66	+26 51.4	3.349	2.385	6.5	21.2	15 E	9*	2*
8 9	9 54.04	+25 47.3	3.306	2.331	5.7	21.1	13 E	7*	—
8 19	10 14.95	+24 34.8	3.252	2.276	5.7	21.0	13 E	6*	—
8 29	10 36.39	+23 14.2	3.188	2.222	6.3	20.9	14 E	5*	—
9 8	10 58.33	+21 45.6	3.117	2.168	7.4	20.9	16 W	7*	—
9 18	11 20.80	+20 9.4	3.039	2.115	8.9	20.8	19 W	11*	—
9 28	11 43.79	+18 26.2	2.956	2.063	10.6	20.8	22 W	14*	—
10 8	12 7.33	+16 36.8	2.868	2.012	12.3	20.7	25 W	18*	—
10 18	12 31.43	+14 41.9	2.779	1.962	14.0	20.7	29 W	22*	—
10 28	12 56.12	+12 42.9	2.688	1.914	15.8	20.6	32 W	25*	—
11 7	13 21.39	+10 40.9	2.598	1.869	17.5	20.5	35 W	28*	1*
11 17	13 47.27	+ 8 37.6	2.509	1.825	19.2	20.5	37 W	31*	4*
11 27	14 13.72	+ 6 34.7	2.423	1.785	20.9	20.4	40 W	34*	7*
12 7	14 40.69	+ 4 34.2	2.341	1.748	22.4	20.3	43 W	36*	11*
12 17	15 8.13	+ 2 38.0	2.263	1.715	23.9	20.3	45 W	37*	15*
12 27	15 35.91	+ 0 48.1	2.189	1.686	25.4	20.2	47 W	37*	19*
1 6	16 3.92	− 0 53.9	2.120	1.661	26.8	20.1	50 W	37*	24*
1 16	16 31.99	− 2 26.6	2.055	1.641	28.1	20.1	52 W	37*	29*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
507355 2011 VV_5									
7 10	9 0.98	+ 2 47.7	1.535	0.857	38.6	21.2	32 E	—	25*
7 15	9 15.58	+ 2 0.8	1.465	0.787	41.3	21.0	31 E	—	24*
7 20	9 31.20	+ 1 15.4	1.387	0.716	45.0	20.8	30 E	—	23*
7 25	9 47.92	+ 0 35.7	1.300	0.643	50.2	20.6	29 E	—	22*
7 30	10 5.74	+ 0 9.6	1.202	0.572	57.4	20.4	28 E	—	22*
8 1	10 13.13	+ 0 5.9	1.160	0.545	61.1	20.3	28 E	—	21*
8 3	10 20.64	+ 0 7.8	1.116	0.519	65.3	20.2	28 E	—	21*
8 5	10 28.20	+ 0 17.1	1.070	0.493	70.1	20.2	27 E	—	21*
8 7	10 35.74	+ 0 35.7	1.023	0.470	75.6	20.2	27 E	—	20*
8 9	10 43.14	+ 1 6.1	0.975	0.449	81.8	20.2	26 E	—	20*
8 11	10 50.26	+ 1 51.0	0.926	0.432	88.8	20.2	25 E	—	19*
8 13	10 56.91	+ 2 53.5	0.877	0.417	96.5	20.4	24 E	—	18*
8 15	11 2.86	+ 4 16.3	0.829	0.408	104.8	20.6	23 E	1*	17*
8 17	11 7.88	+ 6 1.5	0.783	0.402	113.4	21.0	21 E	2*	15*
8 19	11 11.72	+ 8 10.0	0.740	0.402	122.0	21.5	20 E	4*	13*
79137 1991 PD_{15}									
7 10	9 9.14	+13 50.0	3.813	2.951	9.2	21.5	28 E	5*	21*
7 20	9 22.87	+12 42.8	3.871	2.951	7.3	21.4	22 E	1*	16*
7 30	9 36.68	+11 31.1	3.914	2.951	5.4	21.4	16 E	—	10*
8 9	9 50.51	+10 15.2	3.942	2.949	3.4	21.3	10 E	—	4*
8 19	10 4.33	+ 8 55.5	3.954	2.946	1.6	21.1	5 E	—	—
8 29	10 18.10	+ 7 32.3	3.949	2.942	1.2	21.1	4 W	—	—
9 8	10 31.76	+ 6 6.4	3.929	2.937	3.0	21.2	9 W	—	2*
9 18	10 45.31	+ 4 37.9	3.893	2.931	4.9	21.3	15 W	6*	6*
9 28	10 58.69	+ 3 7.7	3.841	2.924	6.9	21.4	21 W	12*	10*
10 8	11 11.87	+ 1 36.2	3.773	2.916	8.9	21.4	27 W	17*	14*
10 18	11 24.81	+ 0 3.9	3.691	2.907	10.8	21.4	33 W	23*	18*
10 28	11 37.44	− 1 28.3	3.594	2.897	12.6	21.4	39 W	27*	23*
11 7	11 49.70	− 2 59.8	3.484	2.886	14.3	21.4	46 W	32*	28*
11 17	12 1.51	− 4 30.1	3.362	2.874	15.9	21.4	53 W	35*	33*
11 27	12 12.76	− 5 58.1	3.229	2.861	17.3	21.3	60 W	37*	40*
12 7	12 23.32	− 7 23.1	3.086	2.847	18.6	21.3	67 W	37*	47*
12 17	12 33.05	− 8 44.3	2.936	2.831	19.5	21.2	74 W	36	54*
12 27	12 41.73	−10 0.5	2.780	2.815	20.2	21.1	82 W	35	62*
1 6	12 49.15	−11 10.6	2.621	2.798	20.6	20.9	90 W	34	70*
1 16	12 55.04	−12 13.3	2.461	2.780	20.5	20.8	98 W	33	76*
12923 Zephyr									
7 10	9 19.60	+14 7.3	3.693	2.858	10.2	21.5	30 E	7*	23*
7 20	9 33.06	+13 10.8	3.741	2.842	8.3	21.4	24 E	3*	17*
7 30	9 46.78	+12 9.1	3.773	2.824	6.3	21.3	18 E	—	12*
8 9	10 0.68	+11 2.6	3.789	2.804	4.3	21.2	12 E	—	6*
8 19	10 14.75	+ 9 51.9	3.788	2.783	2.1	21.1	6 E	—	—
8 29	10 28.93	+ 8 37.2	3.769	2.759	0.3	20.9	1 W	—	—
9 8	10 43.20	+ 7 19.2	3.734	2.734	2.2	21.0	6 W	—	—
9 18	10 57.55	+ 5 58.4	3.683	2.707	4.4	21.1	12 W	5*	2*
9 28	11 11.96	+ 4 35.3	3.615	2.679	6.6	21.1	18 W	10*	6*
10 8	11 26.40	+ 3 10.5	3.531	2.648	8.8	21.2	24 W	16*	10*
10 18	11 40.87	+ 1 44.8	3.432	2.616	10.9	21.1	30 W	21*	14*
10 28	11 55.35	+ 0 18.8	3.319	2.582	13.1	21.1	36 W	26*	18*
11 7	12 9.82	− 1 6.7	3.193	2.545	15.1	21.1	42 W	31*	22*
11 17	12 24.25	− 2 31.0	3.055	2.507	17.1	21.0	48 W	34*	27*
11 27	12 38.60	− 3 52.9	2.906	2.467	19.0	20.9	55 W	37*	33*
12 7	12 52.83	− 5 11.7	2.747	2.425	20.8	20.8	61 W	38*	39*
12 17	13 6.88	− 6 26.2	2.581	2.382	22.4	20.7	67 W	38*	46*
12 27	13 20.66	− 7 35.3	2.408	2.336	23.9	20.6	74 W	37	53*
1 6	13 34.07	− 8 37.8	2.232	2.288	25.1	20.4	81 W	36	60*
1 16	13 46.96	− 9 32.2	2.053	2.238	26.0	20.2	88 W	35	67*
153271 2001 CL_{42}									
7 10	9 25.87	+25 32.6	2.619	1.804	16.1	21.4	29 E	16*	17*
7 20	9 46.76	+22 54.3	2.623	1.759	14.3	21.3	25 E	12*	15*
7 30	10 7.77	+20 5.5	2.617	1.711	12.4	21.2	21 E	9*	12*
8 9	10 28.96	+17 5.9	2.600	1.661	10.6	21.0	17 E	7*	9*
8 19	10 50.42	+13 55.0	2.573	1.609	8.6	20.9	14 E	4*	6*
8 29	11 12.29	+10 32.5	2.537	1.554	6.7	20.7	10 E	2*	3*
9 8	11 34.70	+ 6 58.1	2.492	1.498	4.8	20.5	7 E	—	—
9 18	11 57.88	+ 3 11.5	2.440	1.439	2.8	20.2	4 E	—	—
9 28	12 22.10	− 0 47.0	2.381	1.380	1.1	19.9	2 E	—	—
10 8	12 47.67	− 4 56.9	2.317	1.319	1.5	19.8	2 W	—	—
10 18	13 15.04	− 9 17.0	2.250	1.259	3.3	19.8	4 W	—	—
10 28	13 44.74	−13 44.2	2.182	1.199	5.1	19.7	6 W	—	—
11 2	14 0.67	−15 59.1	2.148	1.170	6.0	19.7	7 W	—	1*
11 7	14 17.44	−18 13.6	2.115	1.141	6.8	19.6	8 W	—	2*
11 12	14 35.15	−20 26.7	2.082	1.113	7.6	19.6	9 W	—	2*
11 17	14 53.91	−22 36.9	2.051	1.086	8.3	19.5	9 W	—	3*
11 22	15 13.80	−24 42.4	2.021	1.061	9.0	19.5	10 W	—	4*
11 27	15 34.92	−26 41.1	1.993	1.037	9.6	19.4	10 W	—	4*
12 2	15 57.33	−28 30.5	1.968	1.014	10.2	19.4	10 W	—	4*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
153271 2001 CL_{42} *(continuation)*									
12 7	16 21.04	−30 8.0	1.945	0.994	10.6	19.3	11 W	—	4*
12 12	16 46.04	−31 30.7	1.925	0.976	11.0	19.3	11 W	—	4*
12 17	17 12.19	−32 35.7	1.908	0.961	11.3	19.2	11 W	—	4*
12 22	17 39.32	−33 20.3	1.895	0.949	11.4	19.2	11 W	—	3*
12 27	18 7.13	−33 42.3	1.886	0.939	11.5	19.1	11 W	—	2*
1 1	18 35.28	−33 40.3	1.880	0.933	11.5	19.1	11 W	—	1*
1 6	19 3.40	−33 14.0	1.878	0.930	11.4	19.1	11 W	—	—
1 11	19 31.12	−32 23.7	1.880	0.931	11.2	19.1	11 E	—	—
1 16	19 58.10	−31 11.1	1.886	0.935	10.9	19.1	10 E	—	1*
420286 2011 RZ									
7 10	9 48.48	−10 36.5	1.431	1.091	45.1	21.4	49 E	—	42*
7 20	10 12.97	−15 37.4	1.377	1.047	47.2	21.3	49 E	—	40*
7 30	10 41.35	−20 56.7	1.313	1.016	49.7	21.2	50 E	—	38*
8 9	11 15.14	−26 28.0	1.245	0.999	52.3	21.1	51 E	—	37*
8 19	11 56.51	−31 56.2	1.179	0.997	54.7	21.0	54 E	—	38*
8 29	12 47.87	−36 52.2	1.122	1.012	56.2	21.0	56 E	—	40*
9 8	13 50.38	−40 28.4	1.085	1.041	56.5	21.0	60 E	—	44*
9 18	15 1.30	−41 51.2	1.074	1.082	55.5	21.0	63 E	—	49*
9 28	16 12.93	−40 35.2	1.096	1.134	53.4	21.1	65 E	—	55*
10 8	17 17.19	−37 7.6	1.150	1.194	50.4	21.3	67 E	4*	59*
10 18	18 10.78	−32 26.3	1.235	1.260	47.1	21.4	68 E	11*	62*
387717 2003 DN_4									
7 10	10 31.34	+32 13.3	1.170	0.828	58.2	21.3	44 E	31*	22*
7 15	10 45.52	+32 15.1	1.120	0.785	61.6	21.2	43 E	31*	21*
7 20	10 59.70	+32 9.9	1.061	0.744	65.8	21.1	42 E	31*	20*
7 25	11 13.59	+31 55.8	0.995	0.706	71.0	21.0	41 E	31*	19*
7 30	11 26.77	+31 29.8	0.921	0.671	77.5	21.0	40 E	30*	18*
8 4	11 38.60	+30 47.1	0.841	0.641	85.3	20.9	39 E	30*	17*
8 9	11 48.18	+29 39.6	0.755	0.618	94.7	21.0	37 E	29*	16*
8 14	11 54.32	+27 54.8	0.666	0.604	105.8	21.2	35 E	27*	15*
360192 1991 FB									
7 10	10 55.87	+ 3 53.7	1.184	1.041	53.9	21.4	56 E	17*	47*
7 20	11 29.48	− 1 19.3	1.142	1.022	55.7	21.4	56 E	13*	49*
7 30	12 5.77	− 6 53.5	1.105	1.019	56.9	21.3	57 E	11*	51*
8 9	12 45.26	−12 36.6	1.078	1.032	57.4	21.3	59 E	9*	53*
8 19	13 28.42	−18 10.7	1.064	1.060	56.9	21.3	61 E	7*	55*
8 29	14 15.38	−23 13.1	1.069	1.101	55.4	21.4	64 E	7*	57*
9 8	15 5.54	−27 19.5	1.095	1.154	53.2	21.5	66 E	7*	60*
513163 2003 YT_{124}									
7 10	20 9.97	−24 23.2	2.045	3.046	4.0	24.9	168 W	21	88
7 15	20 4.45	−24 36.0	2.018	3.030	2.3	24.8	173 W	20	89
7 20	19 58.68	−24 47.7	2.000	3.014	1.4	24.7	176 W	20	89
7 25	19 52.81	−24 57.8	1.988	2.998	2.7	24.8	172 E	20	89
7 30	19 46.97	−25 6.1	1.984	2.981	4.6	24.9	167 E	20	89
8 4	19 41.31	−25 12.3	1.988	2.964	6.5	24.9	161 E	20	89
8 9	19 35.94	−25 16.3	1.998	2.947	8.4	25.0	155 E	20	89
5797 Bivoj									
7 10	20 11.75	−20 21.4	1.712	2.713	4.7	22.4	167 W	25	84
7 15	20 5.47	−20 34.8	1.696	2.708	2.4	22.3	174 W	24	85
7 20	19 58.96	−20 47.7	1.687	2.703	0.1	22.0	180 W	24	85
7 25	19 52.39	−20 59.8	1.685	2.697	2.3	22.2	174 E	24	85
7 30	19 45.93	−21 10.6	1.691	2.691	4.7	22.4	168 E	24	85
8 4	19 39.73	−21 19.9	1.704	2.685	7.0	22.5	161 E	24	85
8 9	19 33.95	−21 27.5	1.724	2.678	9.1	22.6	155 E	24	85
370212 2002 GG_{148}									
7 10	20 16.79	−59 5.9	2.761	3.614	10.0	22.8	142 W	—	57
7 15	20 8.99	−59 20.5	2.762	3.616	10.0	22.8	142 W	—	57
7 20	20 0.98	−59 27.9	2.769	3.617	10.1	22.9	141 W	—	57
7 25	19 52.98	−59 28.1	2.782	3.619	10.4	22.9	140 E	—	57
7 30	19 45.22	−59 20.9	2.800	3.620	10.8	22.9	138 E	—	57
8 4	19 37.89	−59 6.9	2.824	3.620	11.3	22.9	136 E	—	57
8 9	19 31.18	−58 46.5	2.854	3.621	11.8	23.0	133 E	—	57
470909 2009 DK_{46}									
7 10	20 19.20	+11 16.7	2.200	3.075	11.4	23.1	143 W	56	53
7 20	20 10.26	+10 50.0	2.118	3.031	10.1	22.9	148 W	56	53
7 30	20 0.61	+ 9 56.4	2.062	2.985	9.8	22.8	150 E	55	54
8 9	19 51.10	+ 8 37.4	2.031	2.939	10.6	22.8	148 E	54	55
8 19	19 42.58	+ 6 57.3	2.026	2.891	12.5	22.8	142 E	52	57
434084 2002 CA_{19}									
7 10	20 21.54	+21 5.5	2.556	3.343	12.6	22.5	134 W	66	43
7 20	20 13.05	+21 5.6	2.534	3.359	11.7	22.5	138 W	66	43
7 30	20 4.35	+20 38.8	2.534	3.375	11.1	22.5	140 E	66	43
8 9	19 56.16	+19 47.3	2.556	3.390	11.2	22.5	139 E	65	44
8 19	19 49.14	+18 35.0	2.601	3.404	11.9	22.6	136 E	64	45

427499 2002 CZ_{58}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 10	20 23.83	−42 11.6	1.599	2.560	9.4	22.9	156 W	3	74
7 15	20 16.05	−42 25.1	1.569	2.538	8.8	22.8	158 W	3	74
7 20	20 7.74	−42 31.6	1.545	2.516	8.7	22.7	158 W	2	73
7 25	19 59.15	−42 30.4	1.528	2.494	9.2	22.7	157 E	2	73
7 30	19 50.53	−42 20.8	1.517	2.471	10.3	22.7	154 E	3	74
8 4	19 42.17	−42 2.9	1.513	2.448	11.8	22.8	150 E	3	74
8 9	19 34.31	−41 37.0	1.515	2.424	13.5	22.8	146 E	3	74

495102 2011 UU_{106}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	20 26.08	− 7 6.9	1.667	2.636	8.4	22.6	158 W	38	71
7 20	20 13.47	− 7 22.3	1.654	2.652	5.2	22.4	166 W	38	71
7 30	20 0.62	− 7 49.2	1.669	2.665	5.3	22.5	166 E	37	72
8 9	19 48.74	− 8 24.0	1.713	2.677	8.4	22.7	157 E	37	72
8 19	19 38.85	− 9 2.8	1.783	2.687	11.9	22.9	147 E	36	73

517005 2012 TV_{123}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	20 26.57	−22 9.1	2.617	3.606	4.4	22.8	164 W	23	86
7 20	20 18.03	−23 5.2	2.571	3.584	1.5	22.5	175 W	22	87
7 30	20 8.92	−23 59.4	2.554	3.561	2.5	22.6	171 E	21	88
8 9	20 0.02	−24 48.2	2.567	3.537	5.6	22.7	160 E	20	89
8 19	19 52.05	−25 29.3	2.608	3.512	8.6	22.9	149 E	20	89

523811 2008 TQ_2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	20 30.11	−12 41.9	1.542	2.523	7.8	24.3	160 W	32	77
7 20	20 17.96	−13 12.2	1.494	2.503	3.6	24.0	171 W	32	77
7 30	20 4.84	−13 49.7	1.475	2.482	3.7	24.0	171 E	31	78
8 9	19 52.14	−14 30.1	1.483	2.459	8.2	24.2	160 E	30	79
8 19	19 41.14	−15 9.7	1.517	2.434	12.8	24.4	148 E	30	79

508784 1999 XV_{81}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	20 33.78	−14 45.7	2.873	3.846	5.1	23.7	160 W	30	79
7 20	20 25.72	−15 8.1	2.825	3.832	2.3	23.5	171 W	30	79
7 30	20 17.16	−15 33.3	2.807	3.818	1.5	23.5	174 E	29	80
8 9	20 8.77	−15 59.2	2.819	3.803	4.3	23.6	164 E	29	80
8 19	20 1.14	−16 23.7	2.860	3.786	7.1	23.8	153 E	29	80

444584 2006 UK

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	20 37.45	−11 14.7	1.213	2.189	10.0	23.0	158 W	34	75
7 15	20 29.31	−11 34.8	1.206	2.202	7.2	22.8	164 W	33	76
7 20	20 20.84	−11 57.4	1.206	2.214	4.7	22.7	170 W	33	76
7 25	20 12.27	−12 21.7	1.214	2.225	3.4	22.7	173 E	33	76
7 30	20 3.87	−12 46.9	1.228	2.235	4.5	22.8	170 E	32	77
8 4	19 55.87	−13 12.3	1.250	2.245	6.8	23.0	165 E	32	77
8 9	19 48.45	−13 37.1	1.279	2.254	9.4	23.1	159 E	31	78

217628 Lugh

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	20 39.75	−13 45.5	3.246	4.210	5.0	22.6	159 W	31	78
7 20	20 31.36	−14 15.9	3.223	4.227	2.4	22.4	170 W	31	78
7 30	20 22.60	−14 48.7	3.231	4.243	1.2	22.4	175 E	30	79
8 9	20 14.06	−15 21.7	3.271	4.258	3.5	22.6	165 E	30	79
8 19	20 6.27	−15 53.1	3.341	4.272	6.0	22.7	154 E	29	80

476601 2008 SE_{85}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	20 44.08	+20 35.2	1.636	2.438	18.0	23.7	132 W	66	43
7 15	20 38.16	+20 29.6	1.599	2.431	17.0	23.7	135 W	65	44
7 20	20 31.74	+20 13.4	1.568	2.423	16.2	23.6	138 W	65	44
7 25	20 24.97	+19 45.9	1.542	2.414	15.5	23.5	141 W	65	44
7 30	20 18.01	+19 7.0	1.521	2.404	15.0	23.5	142 E	64	45
8 4	20 11.05	+18 17.0	1.507	2.394	14.9	23.4	143 E	63	46
8 9	20 4.25	+17 16.6	1.498	2.383	15.0	23.4	142 E	62	47
8 14	19 57.80	+16 6.8	1.496	2.372	15.5	23.4	141 E	61	48

523728 2014 ON_{344}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	20 45.87	+ 4 43.6	0.367	1.335	25.6	22.1	145 W	50	59
7 15	20 33.80	+ 0 53.9	0.339	1.329	19.8	21.8	154 W	46	63
7 20	20 19.13	− 3 49.2	0.317	1.321	13.4	21.4	162 W	41	68
7 25	20 2.11	− 9 20.5	0.301	1.312	8.5	21.1	169 E	36	73
7 30	19 43.29	−15 23.5	0.293	1.302	10.4	21.1	167 E	30	79
8 4	19 23.49	−21 33.0	0.293	1.290	17.5	21.3	158 E	23	86
8 9	19 3.71	−27 22.8	0.300	1.277	25.4	21.6	147 E	18	89
8 14	18 44.97	−32 34.2	0.314	1.262	33.0	21.9	137 E	12	83
8 19	18 28.13	−36 59.6	0.333	1.246	39.6	22.2	128 E	8	79

308127 2004 XM_{130}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	20 46.62	−23 54.5	2.289	3.261	6.3	22.7	159 W	21	88
7 15	20 40.83	−23 52.8	2.277	3.270	4.5	22.7	165 W	21	88
7 20	20 34.80	−23 50.1	2.272	3.279	2.8	22.6	171 W	21	88
7 25	20 28.65	−23 45.9	2.275	3.288	1.5	22.5	175 W	21	88
7 30	20 22.52	−23 40.0	2.285	3.297	1.9	22.5	174 E	21	88
8 4	20 16.52	−23 32.4	2.304	3.305	3.5	22.6	169 E	21	88
8 9	20 10.78	−23 23.1	2.330	3.312	5.2	22.8	163 E	22	87
8 14	20 5.40	−23 12.2	2.364	3.320	6.8	22.9	157 E	22	87

380188 2000 WC_{67}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 10	20 51.26	− 6 31.1	3.160	4.088	6.6	24.7	153 W	38	71
7 20	20 43.56	− 6 46.9	3.125	4.105	4.3	24.5	162 W	38	71
7 30	20 35.38	− 7 9.8	3.121	4.121	2.8	24.4	169 E	38	71
8 9	20 27.26	− 7 38.2	3.146	4.136	3.5	24.5	165 E	37	72
8 19	20 19.73	− 8 9.7	3.202	4.149	5.6	24.7	156 E	37	72

416707 2005 AL_{69}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	20 55.12	−19 20.0	1.859	2.823	8.1	22.7	157 W	26	83
7 20	20 45.72	−19 59.6	1.800	2.804	4.0	22.4	169 W	25	84
7 30	20 35.02	−20 40.1	1.769	2.783	0.8	22.1	178 E	24	85
8 9	20 24.07	−21 16.7	1.766	2.762	4.9	22.4	167 E	24	85
8 19	20 13.99	−21 46.0	1.791	2.740	9.1	22.6	155 E	23	86

395182 2010 EP_{111}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	20 56.31	−56 3.2	2.740	3.593	10.1	22.6	142 W	—	60
7 15	20 49.72	−56 30.1	2.725	3.586	9.9	22.6	143 W	—	59
7 20	20 42.61	−56 51.1	2.716	3.579	9.9	22.6	143 W	—	59
7 25	20 35.17	−57 5.4	2.713	3.572	10.0	22.6	142 W	—	59
7 30	20 27.57	−57 12.7	2.716	3.565	10.3	22.6	141 E	—	59
8 4	20 20.04	−57 12.8	2.724	3.557	10.7	22.6	139 E	—	59
8 9	20 12.76	−57 5.6	2.739	3.549	11.2	22.6	137 E	—	59
8 14	20 5.91	−56 51.6	2.759	3.541	11.8	22.7	134 E	—	59

427602 2003 SF_{219}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	20 58.26	+11 49.3	1.587	2.439	16.2	21.3	138 W	57	52
7 15	20 54.79	+11 44.6	1.541	2.422	15.1	21.2	142 W	57	52
7 20	20 50.81	+11 31.3	1.499	2.405	13.9	21.1	145 W	57	52
7 25	20 46.39	+11 8.8	1.463	2.388	12.9	21.0	148 W	56	53
7 30	20 41.66	+10 36.8	1.432	2.371	12.0	20.9	151 W	56	53
8 4	20 36.74	+ 9 55.4	1.407	2.353	11.5	20.8	152 E	55	54
8 9	20 31.79	+ 9 5.0	1.387	2.335	11.5	20.8	153 E	54	55
8 14	20 26.94	+ 8 6.2	1.374	2.317	11.9	20.7	152 E	53	56
8 19	20 22.36	+ 7 0.1	1.367	2.299	12.8	20.7	150 E	52	57
8 24	20 18.20	+ 5 47.9	1.366	2.281	14.0	20.8	147 E	51	58
8 29	20 14.60	+ 4 31.1	1.370	2.263	15.4	20.8	143 E	50	59
9 3	20 11.65	+ 3 11.5	1.380	2.244	17.0	20.9	139 E	48	61
9 8	20 9.43	+ 1 50.4	1.395	2.226	18.6	20.9	135 E	47	62
9 13	20 8.01	+ 0 29.3	1.415	2.207	20.2	21.0	131 E	45	64
9 18	20 7.43	− 0 50.6	1.438	2.188	21.7	21.0	126 E	44	65
9 23	20 7.71	− 2 8.0	1.466	2.169	23.2	21.1	122 E	43	66
9 28	20 8.85	− 3 22.1	1.496	2.150	24.4	21.2	117 E	42	67
10 3	20 10.82	− 4 32.2	1.530	2.131	25.6	21.2	113 E	40	69
10 8	20 13.60	− 5 37.7	1.565	2.112	26.6	21.3	109 E	39	70
10 13	20 17.15	− 6 38.3	1.602	2.092	27.5	21.4	105 E	38	71
10 18	20 21.44	− 7 33.7	1.640	2.073	28.2	21.4	101 E	37	72
10 23	20 26.44	− 8 23.7	1.680	2.054	28.7	21.5	97 E	37	72*
10 28	20 32.09	− 9 8.3	1.720	2.035	29.2	21.5	93 E	36	72*

480984 2003 YR_{70}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	21 4.58	−16 37.3	1.317	2.276	11.2	23.2	154 W	28	81
7 15	20 58.28	−16 58.0	1.312	2.296	8.5	23.1	161 W	28	81
7 20	20 51.55	−17 19.6	1.313	2.315	5.7	23.0	167 W	28	81
7 25	20 44.57	−17 41.3	1.321	2.333	2.9	22.8	173 W	27	82
7 30	20 37.57	−18 2.4	1.337	2.352	0.2	22.6	180 E	27	82
8 4	20 30.74	−18 22.1	1.359	2.369	2.7	22.9	174 E	27	82
8 9	20 24.26	−18 39.9	1.387	2.387	5.4	23.1	167 E	26	83
8 14	20 18.29	−18 55.5	1.423	2.404	7.9	23.3	161 E	26	83

503879 2000 UJ_3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	21 10.75	−57 22.9	1.971	2.821	13.6	22.0	139 W	—	59
7 15	21 4.02	−58 14.8	1.953	2.810	13.4	22.0	140 W	—	58
7 20	20 56.33	−58 59.5	1.941	2.799	13.4	22.0	140 W	—	57
7 25	20 47.87	−59 35.6	1.934	2.787	13.6	21.9	140 W	—	56
7 30	20 38.93	−60 1.8	1.932	2.775	14.0	21.9	138 W	—	56
8 4	20 29.80	−60 17.7	1.936	2.763	14.6	22.0	137 E	—	56
8 9	20 20.81	−60 23.0	1.945	2.751	15.3	22.0	134 E	—	56
8 14	20 12.30	−60 18.1	1.959	2.739	16.0	22.0	132 E	—	56
8 19	20 4.54	−60 3.4	1.977	2.726	16.9	22.1	129 E	—	56
8 24	19 57.78	−59 40.0	1.999	2.713	17.7	22.1	125 E	—	56
8 29	19 52.19	−59 9.0	2.025	2.700	18.5	22.1	122 E	—	57

334012 2000 VF_{12}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 10	21 10.84	−24 30.6	2.329	3.273	7.8	21.5	154 W	20	89
7 20	21 2.84	−25 20.7	2.261	3.251	4.8	21.2	164 W	20	89
7 30	20 53.49	−26 8.5	2.220	3.228	2.7	21.1	172 W	19	90
8 9	20 43.61	−26 49.4	2.209	3.204	4.2	21.1	167 E	18	89
8 19	20 34.07	−27 19.6	2.226	3.179	7.3	21.3	156 E	18	89
8 29	20 25.79	−27 37.5	2.270	3.154	10.5	21.4	145 E	17	88

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
491755 2012 VE_{80}									
7 10	21 12.40	−18 34.8	1.801	2.745	9.7	22.3	153 W	26	83
7 20	21 4.37	−18 59.0	1.713	2.706	5.8	22.0	164 W	26	83
7 30	20 54.51	−19 26.2	1.652	2.665	1.6	21.6	176 W	26	83
8 9	20 43.73	−19 51.8	1.618	2.624	3.3	21.7	171 E	25	84
8 19	20 33.17	−20 11.8	1.611	2.583	7.9	21.9	159 E	25	84
8 29	20 24.03	−20 23.4	1.630	2.541	12.3	22.0	148 E	25	84
523631 2009 SX_1									
7 10	21 13.05	−24 27.0	1.273	2.230	11.7	21.9	153 W	21	88
7 15	21 7.03	−24 49.0	1.232	2.213	9.3	21.7	159 W	20	89
7 20	21 0.10	−25 10.9	1.197	2.195	6.9	21.5	165 W	20	89
7 25	20 52.40	−25 31.4	1.168	2.176	4.6	21.3	170 W	19	90
7 30	20 44.11	−25 49.2	1.147	2.157	3.5	21.2	173 W	19	90
8 4	20 35.49	−26 3.2	1.131	2.138	4.8	21.2	170 E	19	90
8 9	20 26.78	−26 12.6	1.123	2.117	7.3	21.3	165 E	19	90
8 14	20 18.27	−26 16.9	1.121	2.097	10.2	21.4	158 E	19	90
8 19	20 10.24	−26 15.8	1.126	2.075	13.1	21.5	152 E	19	90
8 24	20 2.93	−26 9.5	1.136	2.053	16.0	21.6	146 E	19	90
8 29	19 56.55	−25 58.5	1.151	2.031	18.7	21.7	140 E	19	90
328078 2007 XR_{31}									
7 10	21 17.18	−13 57.2	1.898	2.827	10.2	22.0	150 W	31	78
7 20	21 9.45	−14 44.6	1.825	2.809	6.4	21.7	162 W	30	79
7 30	21 0.09	−15 39.9	1.778	2.790	2.2	21.4	174 W	29	80
8 9	20 49.95	−16 38.3	1.760	2.770	2.3	21.4	174 E	28	81
8 19	20 40.06	−17 34.6	1.770	2.749	6.7	21.6	162 E	27	82
8 29	20 31.47	−18 24.3	1.806	2.727	10.7	21.8	150 E	27	82
337157 1999 UA_5									
7 10	21 17.86	−23 32.2	2.835	3.765	7.2	22.0	152 W	21	88
7 20	21 10.28	−24 12.7	2.763	3.747	4.6	21.8	163 W	21	88
7 30	21 1.54	−24 51.6	2.720	3.727	2.3	21.6	172 W	20	89
8 9	20 52.28	−25 25.4	2.707	3.707	3.0	21.6	169 E	20	89
8 19	20 43.21	−25 51.3	2.723	3.686	5.7	21.8	159 E	19	90
8 29	20 35.06	−26 7.4	2.768	3.663	8.4	21.9	148 E	19	90
396723 2003 AE_{23}									
7 10	21 19.05	−12 19.7	1.635	2.563	11.6	22.3	149 W	33	76
7 20	21 9.51	−12 51.2	1.577	2.561	7.3	22.1	161 W	32	77
7 30	20 58.20	−13 31.6	1.546	2.556	2.8	21.8	173 W	31	78
8 9	20 46.22	−14 16.1	1.542	2.551	2.9	21.8	173 E	31	78
8 19	20 34.83	−14 59.7	1.567	2.544	7.5	22.0	161 E	30	79
8 29	20 25.21	−15 38.2	1.617	2.536	11.9	22.3	149 E	29	80
194386 2001 VG_5									
7 10	21 28.36	+ 3 38.2	2.048	2.892	13.4	21.5	139 W	49	60
7 20	21 18.52	+ 3 33.7	2.025	2.941	10.3	21.4	149 W	49	60
7 30	21 7.59	+ 3 9.7	2.028	2.989	7.6	21.4	157 W	48	61
8 9	20 56.47	+ 2 28.8	2.058	3.035	6.2	21.4	161 E	47	62
8 19	20 46.08	+ 1 35.3	2.118	3.079	7.1	21.5	158 E	47	62
8 29	20 37.22	+ 0 34.3	2.205	3.122	9.3	21.7	150 E	46	63
153591 2001 SN_{263}									
7 10	21 29.00	−17 57.1	1.976	2.895	10.4	21.4	149 W	27	82
7 20	21 19.03	−18 33.3	1.927	2.906	6.6	21.1	161 W	26	83
7 30	21 7.49	−19 11.3	1.906	2.916	2.5	20.9	173 W	26	83
8 9	20 55.36	−19 46.2	1.914	2.924	2.2	20.9	174 E	25	84
8 19	20 43.73	−20 14.2	1.952	2.930	6.2	21.2	162 E	25	84
8 29	20 33.64	−20 32.9	2.018	2.934	10.0	21.4	150 E	24	85
474634 2004 UY									
7 10	21 30.23	+27 44.5	2.336	2.986	17.0	22.3	121 W	73	36
7 15	21 27.34	+28 15.5	2.284	2.970	16.6	22.2	124 W	73	36
7 20	21 23.94	+28 40.2	2.234	2.954	16.1	22.2	126 W	74	35
7 25	21 20.09	+28 57.7	2.189	2.938	15.6	22.1	129 W	74	35
7 30	21 15.87	+29 7.3	2.148	2.922	15.1	22.0	131 W	74	35
8 4	21 11.35	+29 8.5	2.112	2.905	14.7	22.0	133 W	74	35
8 9	21 6.63	+29 1.1	2.080	2.888	14.4	21.9	135 E	74	35
8 14	21 1.83	+28 44.6	2.054	2.871	14.1	21.9	136 E	74	35
8 19	20 57.07	+28 19.2	2.032	2.854	14.1	21.8	137 E	73	36
8 24	20 52.48	+27 45.1	2.016	2.837	14.2	21.8	137 E	73	36
8 29	20 48.18	+27 2.9	2.005	2.819	14.4	21.8	136 E	72	37
9 3	20 44.28	+26 13.4	1.999	2.801	14.8	21.8	135 E	71	38
499825 2011 DB_{22}									
7 10	21 30.81	−40 5.7	2.278	3.177	10.1	22.2	147 W	5	76
7 15	21 25.80	−40 28.2	2.251	3.175	9.1	22.1	150 W	5	76
7 20	21 20.22	−40 47.4	2.230	3.172	8.3	22.0	153 W	4	75
7 25	21 14.19	−41 2.6	2.216	3.169	7.6	22.0	155 W	4	75
7 30	21 7.85	−41 13.0	2.209	3.165	7.4	22.0	156 W	4	75
8 4	21 1.35	−41 17.9	2.208	3.161	7.5	22.0	156 W	4	75

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
499825 2011 DB_{22} *(continuation)*									
8 9	20 54.83	−41 17.1	2.214	3.158	8.0	22.0	154 E	4	75
8 14	20 48.47	−41 10.4	2.227	3.154	8.9	22.0	151 E	4	75
8 19	20 42.41	−40 57.8	2.246	3.149	9.9	22.1	148 E	4	75
8 24	20 36.79	−40 39.7	2.272	3.145	11.0	22.2	144 E	4	75
8 29	20 31.74	−40 16.6	2.304	3.140	12.1	22.2	139 E	5	76
9 3	20 27.33	−39 49.0	2.341	3.135	13.2	22.3	135 E	5	76
256670 2007 XT_{58}									
7 10	21 33.44	−11 50.3	1.422	2.335	14.1	21.4	146 W	33	76
7 20	21 23.43	−12 26.1	1.396	2.369	9.3	21.2	158 W	33	76
7 30	21 11.65	−13 11.1	1.394	2.401	4.1	21.0	170 W	32	77
8 9	20 59.39	−13 59.4	1.419	2.431	1.9	20.9	176 E	31	78
8 19	20 47.99	−14 45.1	1.472	2.460	6.5	21.3	164 E	30	79
8 29	20 38.63	−15 23.8	1.551	2.488	11.0	21.6	152 E	30	79
469699 2005 EP_{68}									
7 10	21 36.58	+11 49.0	2.416	3.186	13.8	21.8	132 W	57	52
7 20	21 30.84	+11 36.0	2.303	3.154	11.8	21.6	140 W	57	52
7 30	21 23.52	+10 59.0	2.211	3.122	9.8	21.4	148 W	56	53
8 9	21 15.14	+ 9 56.7	2.144	3.088	8.2	21.3	154 E	55	54
8 19	21 6.40	+ 8 30.8	2.103	3.054	7.8	21.2	156 E	54	55
8 29	20 58.13	+ 6 45.4	2.090	3.019	9.1	21.2	152 E	52	57
9 8	20 51.10	+ 4 47.4	2.104	2.983	11.3	21.3	145 E	50	59
9 18	20 45.94	+ 2 44.6	2.143	2.946	13.8	21.4	136 E	48	61
376891 2001 XF_{104}									
7 10	21 50.06	− 1 7.5	2.463	3.285	12.1	21.4	137 W	44	65
7 20	21 43.59	− 1 7.5	2.400	3.304	9.5	21.2	148 W	44	65
7 30	21 35.72	− 1 21.1	2.361	3.323	6.7	21.1	158 W	44	65
8 9	21 27.04	− 1 46.8	2.349	3.341	4.3	21.0	166 W	43	66
8 19	21 18.24	− 2 22.3	2.366	3.358	4.1	21.0	166 E	43	66
8 29	21 10.06	− 3 3.9	2.412	3.374	6.1	21.1	159 E	42	67
9 8	21 3.15	− 3 47.7	2.485	3.389	8.8	21.3	149 E	41	68
406813 2008 VA_{57}									
7 10	21 59.34	−11 45.0	0.720	1.636	23.5	21.4	140 W	33	76
7 20	22 3.09	−11 54.7	0.648	1.606	19.1	21.0	149 W	33	76
7 30	22 3.52	−12 29.0	0.589	1.578	13.7	20.5	158 W	33	76
8 9	22 0.94	−13 25.3	0.546	1.553	7.2	20.1	169 W	32	77
8 14	21 58.74	−13 59.4	0.530	1.541	3.8	19.8	174 W	31	78
8 19	21 56.17	−14 35.6	0.519	1.531	1.3	19.6	178 W	30	79
8 24	21 53.47	−15 11.9	0.511	1.520	4.1	19.7	174 E	30	79
8 29	21 50.90	−15 46.3	0.508	1.511	7.7	19.9	168 E	29	80
9 3	21 48.72	−16 17.0	0.509	1.503	11.3	20.0	163 E	29	80
9 8	21 47.16	−16 42.5	0.514	1.495	14.8	20.2	158 E	28	81
9 13	21 46.40	−17 1.7	0.522	1.489	18.2	20.3	153 E	28	81
9 18	21 46.59	−17 13.5	0.534	1.483	21.3	20.4	148 E	28	81
9 28	21 50.25	−17 13.7	0.566	1.475	26.6	20.7	139 E	28	81
10 8	21 58.23	−16 42.3	0.608	1.471	30.9	21.0	131 E	28	81
10 18	22 10.08	−15 41.7	0.659	1.471	34.2	21.3	124 E	29	80
10 28	22 25.15	−14 14.9	0.719	1.474	36.5	21.5	118 E	31	78
479127 2013 BA_{27}									
7 10	22 5.03	+ 3 59.0	1.743	2.534	17.5	21.4	131 W	49	60
7 20	22 2.35	+ 2 58.5	1.614	2.491	14.7	21.1	141 W	48	61
7 30	21 57.29	+ 1 24.1	1.504	2.447	11.2	20.8	152 W	46	63
8 9	21 50.15	− 0 45.3	1.416	2.403	7.2	20.5	163 W	44	65
8 14	21 45.98	− 2 2.2	1.383	2.381	5.3	20.3	167 W	43	66
8 19	21 41.57	− 3 26.3	1.356	2.359	4.2	20.2	170 E	42	67
8 24	21 37.04	− 4 56.0	1.336	2.337	4.6	20.2	169 E	40	69
8 29	21 32.57	− 6 29.6	1.324	2.315	6.3	20.2	165 E	39	70
9 3	21 28.30	− 8 5.2	1.318	2.293	8.6	20.3	160 E	37	72
9 8	21 24.37	− 9 40.9	1.320	2.270	11.1	20.4	154 E	35	74
9 13	21 20.94	−11 14.9	1.328	2.248	13.5	20.5	148 E	34	75
9 18	21 18.12	−12 45.5	1.342	2.226	15.9	20.5	143 E	32	77
9 23	21 16.02	−14 11.3	1.362	2.204	18.1	20.6	137 E	31	78
9 28	21 14.72	−15 31.3	1.386	2.181	20.2	20.7	131 E	29	80
10 3	21 14.26	−16 44.7	1.414	2.159	22.0	20.8	126 E	28	81
10 8	21 14.67	−17 51.1	1.446	2.137	23.7	20.9	121 E	27	82
10 13	21 15.94	−18 50.4	1.481	2.115	25.1	20.9	116 E	26	83
10 18	21 18.07	−19 42.4	1.518	2.093	26.4	21.0	111 E	25	84
10 23	21 21.05	−20 27.3	1.556	2.071	27.4	21.1	106 E	25	84
10 28	21 24.84	−21 5.2	1.596	2.050	28.3	21.1	102 E	24	85
11 2	21 29.39	−21 36.3	1.636	2.028	29.0	21.2	98 E	23	86
11 7	21 34.66	−22 1.0	1.676	2.007	29.5	21.2	94 E	23	85*
11 12	21 40.60	−22 19.4	1.717	1.986	29.9	21.3	90 E	23	82*
11 17	21 47.17	−22 31.9	1.757	1.965	30.2	21.3	87 E	22	78*
11 22	21 54.34	−22 38.5	1.796	1.944	30.3	21.3	83 E	22	74*
11 27	22 2.05	−22 39.6	1.834	1.924	30.3	21.3	80 E	22	71*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
479127 2013 BA_{27} *(continuation)*									
12 2	22 10.25	−22 35.4	1.871	1.904	30.3	21.4	77 E	22	67*
12 7	22 18.91	−22 26.1	1.907	1.885	30.1	21.4	74 E	23	64*
12 12	22 28.00	−22 11.9	1.941	1.865	29.9	21.4	71 E	23	61*
12 17	22 37.47	−21 53.0	1.974	1.847	29.6	21.4	68 E	23	58*
12 22	22 47.32	−21 29.4	2.005	1.828	29.3	21.4	65 E	23*	55*
12 27	22 57.48	−21 1.5	2.034	1.811	28.9	21.4	63 E	24*	52*
1 1	23 7.95	−20 29.5	2.062	1.793	28.5	21.4	60 E	24*	49*
1 6	23 18.70	−19 53.4	2.087	1.777	28.0	21.4	58 E	24*	47*
1 11	23 29.72	−19 13.5	2.112	1.761	27.6	21.4	56 E	24*	45*
1 16	23 40.98	−18 29.9	2.134	1.745	27.1	21.4	54 E	24*	43*
170891 2004 TY_{16}									
7 10	22 12.10	−14 15.5	1.905	2.746	14.3	21.4	138 W	31	78
7 20	22 4.53	−14 42.6	1.833	2.757	10.8	21.2	149 W	30	79
7 30	21 54.63	−15 17.6	1.785	2.766	6.8	21.0	161 W	30	79
8 9	21 43.14	−15 55.7	1.763	2.773	2.4	20.7	174 W	29	80
8 19	21 31.06	−16 31.8	1.771	2.779	2.4	20.7	173 E	28	81
8 29	21 19.56	−17 1.2	1.808	2.783	6.7	21.0	161 E	28	81
9 8	21 9.71	−17 20.9	1.872	2.785	10.7	21.3	149 E	28	81
9 18	21 2.25	−17 29.8	1.960	2.787	14.1	21.5	138 E	28	81
477796 2011 CQ_{46}									
7 10	22 13.36	−12 5.5	1.898	2.731	14.7	21.5	137 W	33	76
7 20	22 3.70	−11 29.8	1.852	2.770	11.0	21.3	149 W	34	75
7 30	21 52.03	−11 0.9	1.830	2.808	6.9	21.2	161 W	34	75
8 9	21 39.27	−10 36.9	1.837	2.845	2.7	21.0	172 W	34	75
8 19	21 26.51	−10 16.3	1.875	2.882	2.5	21.0	173 E	35	74
8 29	21 14.85	− 9 57.4	1.943	2.918	6.4	21.4	161 E	35	74
9 8	21 5.16	− 9 38.7	2.039	2.952	9.9	21.6	150 E	35	74
477492 2010 CG_{19}									
7 10	22 28.09	+58 44.2	0.795	1.291	52.0	21.5	90 W	76	5
7 15	22 20.48	+57 10.6	0.733	1.297	51.4	21.3	94 W	78	7
7 20	22 10.94	+55 2.2	0.670	1.304	50.3	21.1	99 W	80	9
7 25	21 59.58	+52 5.2	0.608	1.311	48.5	20.8	105 W	83	12
7 30	21 46.68	+48 1.5	0.547	1.319	45.7	20.5	112 W	87	16
8 4	21 32.69	+42 28.4	0.490	1.328	41.6	20.2	120 W	87	22
8 9	21 18.16	+35 1.5	0.441	1.337	36.0	19.8	129 W	80	29
8 14	21 3.76	+25 25.3	0.405	1.347	29.3	19.5	139 E	70	39
8 19	20 50.14	+13 54.6	0.385	1.357	22.6	19.2	149 E	59	50
8 20	20 47.57	+11 27.3	0.384	1.359	21.5	19.1	150 E	56	53
8 21	20 45.07	+ 8 58.6	0.383	1.361	20.7	19.1	152 E	54	55
8 22	20 42.62	+ 6 29.1	0.383	1.363	20.0	19.1	153 E	51	58
8 23	20 40.25	+ 3 59.6	0.384	1.365	19.5	19.1	153 E	49	60
8 24	20 37.94	+ 1 31.0	0.386	1.367	19.3	19.1	153 E	47	62
8 25	20 35.71	− 0 56.2	0.389	1.370	19.4	19.1	153 E	44	65
8 26	20 33.56	− 3 21.1	0.393	1.372	19.7	19.1	153 E	42	67
8 27	20 31.49	− 5 43.3	0.397	1.374	20.2	19.2	152 E	39	70
8 28	20 29.50	− 8 2.0	0.403	1.376	20.9	19.2	151 E	37	72
8 29	20 27.59	−10 16.9	0.409	1.379	21.7	19.3	150 E	35	74
8 31	20 24.03	−14 33.6	0.423	1.383	23.6	19.4	147 E	30	79
9 2	20 20.81	−18 31.4	0.440	1.388	25.7	19.6	143 E	26	83
9 4	20 17.93	−22 9.5	0.460	1.392	27.8	19.8	140 E	23	86
9 6	20 15.40	−25 27.9	0.481	1.397	29.8	19.9	136 E	20	89
9 8	20 13.22	−28 27.3	0.505	1.402	31.7	20.1	133 E	17	88
9 10	20 11.37	−31 9.1	0.530	1.407	33.3	20.3	130 E	14	85
9 12	20 9.86	−33 34.6	0.556	1.411	34.8	20.4	127 E	11	82
9 14	20 8.68	−35 45.3	0.583	1.416	36.2	20.6	124 E	9	80
9 16	20 7.82	−37 42.6	0.612	1.421	37.3	20.7	121 E	7	78
9 18	20 7.27	−39 28.1	0.641	1.426	38.3	20.8	118 E	6	77
9 20	20 7.03	−41 2.8	0.671	1.431	39.1	21.0	116 E	4	75
9 22	20 7.09	−42 28.1	0.701	1.436	39.8	21.1	114 E	3	74
9 24	20 7.43	−43 45.0	0.732	1.441	40.4	21.2	111 E	1	72
9 26	20 8.04	−44 54.4	0.763	1.446	40.9	21.3	109 E	—	71
9 28	20 8.90	−45 57.1	0.794	1.451	41.2	21.4	107 E	—	70
514897 2008 SB_7									
7 10	22 36.61	−57 9.5	1.974	2.741	16.5	21.4	130 W	—	59
7 15	22 32.53	−57 57.2	1.935	2.722	16.1	21.3	132 W	—	58
7 20	22 27.10	−58 41.5	1.901	2.703	15.8	21.2	134 W	—	57
7 25	22 20.32	−59 20.6	1.871	2.684	15.6	21.2	135 W	—	57
7 30	22 12.29	−59 52.5	1.846	2.665	15.5	21.1	135 W	—	56
8 4	22 3.20	−60 15.5	1.826	2.646	15.6	21.1	135 W	—	56
8 9	21 53.28	−60 28.1	1.811	2.626	15.9	21.0	135 W	—	56
8 14	21 42.88	−60 29.0	1.800	2.607	16.3	21.0	134 W	—	56
8 19	21 32.37	−60 17.5	1.795	2.587	16.8	21.0	132 E	—	56
8 24	21 22.18	−59 53.3	1.794	2.567	17.5	21.0	130 E	—	56
8 29	21 12.67	−59 16.9	1.798	2.547	18.2	21.0	128 E	—	57
9 3	21 4.16	−58 29.2	1.806	2.527	19.0	21.1	125 E	—	58
9 8	20 56.85	−57 31.3	1.819	2.506	19.9	21.1	122 E	—	58

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
514897 2008 SB_7 *(continuation)*									
9 13	20 50.86	−56 24.7	1.835	2.486	20.7	21.1	119 E	—	60
9 18	20 46.25	−55 10.7	1.855	2.465	21.5	21.1	116 E	—	61
9 23	20 43.02	−53 50.8	1.878	2.445	22.3	21.2	113 E	—	62
9 28	20 41.10	−52 26.2	1.903	2.424	23.0	21.2	109 E	—	64
10 3	20 40.39	−50 58.1	1.932	2.403	23.6	21.2	106 E	—	65
10 8	20 40.80	−49 27.3	1.962	2.382	24.2	21.3	102 E	—	67
10 13	20 42.21	−47 54.5	1.994	2.361	24.7	21.3	99 E	—	68
10 18	20 44.53	−46 20.3	2.028	2.340	25.1	21.3	95 E	—	70
10 23	20 47.67	−44 45.0	2.062	2.318	25.4	21.4	92 E	—	71
10 28	20 51.51	−43 9.1	2.098	2.297	25.6	21.4	88 E	2	73*
11 2	20 55.98	−41 32.8	2.134	2.276	25.7	21.4	85 E	3	73*
11 7	21 1.00	−39 56.0	2.170	2.255	25.8	21.4	82 E	5	73*
11 12	21 6.50	−38 18.9	2.207	2.233	25.8	21.4	79 E	7	71*
11 17	21 12.42	−36 41.4	2.243	2.212	25.6	21.5	75 E	8	69*
11 22	21 18.73	−35 3.6	2.279	2.191	25.4	21.5	72 E	10	66*
11 27	21 25.36	−33 25.4	2.314	2.169	25.2	21.5	69 E	12	63*
12 2	21 32.28	−31 46.8	2.348	2.148	24.8	21.5	66 E	13*	60*
12 7	21 39.44	−30 7.7	2.382	2.127	24.4	21.5	63 E	15*	56*
12 12	21 46.83	−28 28.0	2.414	2.106	23.9	21.5	60 E	16*	53*
12 17	21 54.42	−26 47.7	2.445	2.085	23.4	21.4	57 E	18*	49*
12 22	22 2.18	−25 6.6	2.474	2.064	22.8	21.4	54 E	19*	46*
12 27	22 10.10	−23 24.8	2.502	2.043	22.2	21.4	52 E	20*	42*
1 1	22 18.16	−21 42.2	2.529	2.023	21.5	21.4	49 E	20*	39*
1 6	22 26.34	−19 58.7	2.554	2.002	20.7	21.4	46 E	21*	35*
1 11	22 34.64	−18 14.3	2.577	1.982	20.0	21.3	43 E	21*	32*
1 16	22 43.06	−16 29.0	2.598	1.962	19.1	21.3	41 E	21*	29*
374849 2006 VO_1									
7 10	23 13.75	+ 0 34.4	1.406	2.089	25.4	21.3	118 W	45*	63
7 20	23 18.78	+ 1 17.9	1.281	2.052	23.5	21.0	126 W	46	63
7 30	23 21.30	+ 1 42.9	1.166	2.016	20.9	20.7	135 W	47	62
8 9	23 21.00	+ 1 45.9	1.064	1.979	17.3	20.3	144 W	47	62
8 19	23 17.73	+ 1 23.3	0.979	1.944	12.8	20.0	155 W	46	63
8 29	23 11.75	+ 0 34.2	0.913	1.908	7.5	19.5	166 W	46	63
9 3	23 7.98	+ 0 0.6	0.888	1.891	4.8	19.3	171 W	45	64
9 8	23 3.88	− 0 37.9	0.869	1.874	2.8	19.1	175 E	44	65
9 13	22 59.63	− 1 20.1	0.854	1.857	3.6	19.1	173 E	44	65
9 18	22 55.43	− 2 4.6	0.846	1.841	6.4	19.3	168 E	43	66
9 23	22 51.52	− 2 49.6	0.843	1.825	9.5	19.4	163 E	42	67
9 28	22 48.10	− 3 33.4	0.845	1.809	12.6	19.5	157 E	41	68
10 3	22 45.34	− 4 14.4	0.852	1.794	15.7	19.6	151 E	41	68
10 8	22 43.40	− 4 51.2	0.863	1.779	18.6	19.7	145 E	40	69
10 13	22 42.36	− 5 22.9	0.878	1.764	21.3	19.8	140 E	40	69
10 18	22 42.30	− 5 48.5	0.897	1.750	23.7	19.9	135 E	39	70
10 28	22 45.25	− 6 19.6	0.944	1.723	28.0	20.1	126 E	39	70
11 7	22 52.13	− 6 23.0	0.999	1.698	31.3	20.3	117 E	39	70
11 17	23 2.54	− 5 59.6	1.061	1.676	33.7	20.5	110 E	39	70
11 27	23 16.02	− 5 11.4	1.128	1.657	35.5	20.6	103 E	40	69*
12 7	23 32.03	− 4 1.3	1.198	1.640	36.6	20.8	97 E	41	66*
12 17	23 50.14	− 2 32.4	1.270	1.627	37.2	20.9	92 E	42	61*
12 27	0 9.97	− 0 47.9	1.344	1.617	37.4	21.0	87 E	44	56*
1 6	0 31.20	+ 1 8.6	1.419	1.610	37.2	21.1	82 E	46	52*
1 16	0 53.62	+ 3 13.6	1.495	1.607	36.8	21.2	78 E	48*	47*
505019 2011 QH_{21}									
7 10	23 16.99	+33 51.9	1.082	1.610	38.4	21.4	100 W	78*	30
7 15	23 18.94	+35 44.9	1.050	1.611	38.0	21.4	102 W	81	28
7 20	23 19.95	+37 34.1	1.018	1.613	37.5	21.3	105 W	83	26
7 25	23 19.90	+39 18.3	0.986	1.613	37.0	21.2	107 W	84	25
7 30	23 18.70	+40 55.9	0.955	1.613	36.3	21.1	110 W	86	23
8 4	23 16.27	+42 25.6	0.926	1.612	35.6	21.0	112 W	87	22
8 9	23 12.52	+43 45.5	0.897	1.610	34.9	20.9	115 W	89	20
8 14	23 7.42	+44 53.3	0.869	1.608	34.1	20.8	117 W	90	19
8 19	23 0.98	+45 46.6	0.843	1.605	33.3	20.8	120 W	89	18
8 24	22 53.35	+46 22.6	0.819	1.601	32.5	20.7	122 W	89	18
8 29	22 44.75	+46 39.1	0.796	1.597	31.7	20.6	124 W	88	17
9 3	22 35.51	+46 34.0	0.776	1.592	30.9	20.5	126 E	88	17
9 8	22 26.03	+46 5.9	0.758	1.587	30.3	20.4	127 E	89	18
9 13	22 16.77	+45 14.3	0.743	1.580	29.8	20.3	129 E	90	19
9 18	22 8.18	+43 59.4	0.730	1.573	29.5	20.3	130 E	89	20
9 23	22 0.68	+42 22.8	0.720	1.566	29.5	20.2	130 E	87	22
9 28	21 54.59	+40 27.4	0.714	1.558	29.7	20.2	130 E	85	24
10 3	21 50.09	+38 16.7	0.711	1.549	30.2	20.2	129 E	83	26
10 8	21 47.25	+35 54.3	0.711	1.540	30.9	20.2	128 E	81	28
10 13	21 46.08	+33 24.2	0.714	1.530	31.9	20.2	126 E	78	31
10 18	21 46.54	+30 50.0	0.720	1.519	33.1	20.3	124 E	76	33
10 23	21 48.55	+28 15.6	0.729	1.508	34.4	20.3	121 E	73	36
10 28	21 51.98	+25 44.2	0.741	1.496	35.7	20.4	118 E	71	38
11 2	21 56.68	+23 18.2	0.756	1.484	37.1	20.4	116 E	68	41
11 7	22 2.53	+20 59.4	0.772	1.471	38.5	20.5	112 E	66	43
11 12	22 9.40	+18 49.3	0.791	1.457	39.8	20.6	109 E	64	45*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
505019 2011 QH_{21} *(continuation)*									
11 17	22 17.21	+16 48.9	0.811	1.443	41.1	20.7	106 E	62	47*
11 22	22 25.84	+14 58.7	0.832	1.429	42.3	20.7	103 E	60	48*
11 27	22 35.19	+13 19.1	0.854	1.414	43.4	20.8	100 E	58	49*
12 2	22 45.18	+11 49.7	0.878	1.398	44.4	20.8	97 E	57	49*
12 7	22 55.72	+10 30.2	0.901	1.383	45.3	20.9	94 E	56	49*
12 12	23 6.78	+ 9 20.2	0.925	1.366	46.1	21.0	91 E	54	49*
12 17	23 18.29	+ 8 19.2	0.949	1.350	46.8	21.0	89 E	53	48*
12 22	23 30.21	+ 7 26.7	0.972	1.333	47.4	21.1	86 E	52	47*
12 27	23 42.50	+ 6 42.0	0.995	1.315	48.0	21.1	83 E	52	46*
1 1	23 55.11	+ 6 4.2	1.017	1.298	48.4	21.1	81 E	51	45*
1 6	0 8.02	+ 5 32.8	1.039	1.280	48.8	21.1	78 E	51*	44*
1 11	0 21.21	+ 5 7.0	1.059	1.262	49.2	21.2	76 E	50*	43*
1 16	0 34.68	+ 4 46.2	1.078	1.244	49.5	21.2	74 E	49*	43*
432616 2010 UQ_{92}									
7 10	23 23.02	−20 22.8	1.600	2.319	21.5	21.3	123 W	24*	84
7 20	23 25.92	−21 25.4	1.481	2.287	19.4	21.0	132 W	24	85
7 30	23 25.85	−22 45.7	1.376	2.254	16.6	20.7	141 W	22	87
8 9	23 22.57	−24 19.3	1.289	2.221	13.5	20.5	149 W	21	88
8 14	23 19.70	−25 8.5	1.253	2.205	12.0	20.3	153 W	20	89
8 19	23 16.04	−25 57.6	1.222	2.188	10.6	20.2	157 W	19	90
8 24	23 11.67	−26 44.8	1.197	2.171	9.6	20.1	159 W	18	89
8 29	23 6.73	−27 28.3	1.177	2.154	9.2	20.0	160 W	18	89
9 3	23 1.37	−28 6.4	1.164	2.137	9.6	20.0	159 W	17	88
9 8	22 55.77	−28 37.7	1.156	2.120	10.7	20.0	157 E	16	87
9 13	22 50.13	−29 0.8	1.154	2.103	12.3	20.1	153 E	16	87
9 18	22 44.69	−29 15.0	1.158	2.086	14.2	20.1	149 E	16	87
9 23	22 39.65	−29 19.7	1.166	2.069	16.2	20.2	145 E	16	87
9 28	22 35.22	−29 14.9	1.180	2.052	18.2	20.3	140 E	16	87
10 3	22 31.54	−29 1.0	1.197	2.035	20.2	20.3	135 E	16	87
10 8	22 28.71	−28 38.6	1.219	2.018	22.0	20.4	131 E	16	87
10 13	22 26.81	−28 8.4	1.244	2.001	23.7	20.5	126 E	17	88
10 18	22 25.88	−27 31.2	1.271	1.985	25.3	20.6	122 E	17	88
10 23	22 25.92	−26 47.6	1.301	1.968	26.7	20.6	117 E	18	89
10 28	22 26.92	−25 58.4	1.333	1.951	27.9	20.7	113 E	19	90
11 2	22 28.82	−25 4.3	1.367	1.935	29.0	20.8	109 E	20	89
11 7	22 31.57	−24 5.8	1.402	1.919	29.9	20.8	105 E	21	88
11 12	22 35.11	−23 3.3	1.437	1.903	30.6	20.9	102 E	22	87
11 17	22 39.40	−21 57.2	1.474	1.887	31.3	21.0	98 E	23	86
11 22	22 44.37	−20 47.8	1.511	1.871	31.7	21.0	95 E	24	84*
11 27	22 49.95	−19 35.4	1.548	1.856	32.1	21.1	91 E	25	80*
12 2	22 56.10	−18 20.2	1.584	1.841	32.4	21.1	88 E	27	76*
12 7	23 2.76	−17 2.5	1.621	1.826	32.5	21.1	85 E	28	72*
12 12	23 9.88	−15 42.2	1.658	1.811	32.6	21.2	82 E	29	68*
12 17	23 17.44	−14 19.7	1.694	1.797	32.6	21.2	80 E	31	64*
12 22	23 25.39	−12 55.1	1.729	1.783	32.5	21.2	77 E	32	60*
12 27	23 33.70	−11 28.5	1.764	1.770	32.3	21.2	74 E	34	56*
1 1	23 42.34	−10 0.2	1.798	1.757	32.1	21.3	72 E	35*	53*
1 6	23 51.29	− 8 30.2	1.832	1.744	31.8	21.3	69 E	36*	50*
1 11	0 0.52	− 6 58.8	1.865	1.732	31.5	21.3	67 E	37*	47*
1 16	0 10.04	− 5 26.2	1.897	1.721	31.1	21.3	65 E	38*	44*
348028 2003 UD_4									
7 10	23 40.59	+26 20.2	2.055	2.446	24.2	21.3	100 W	70*	38
7 20	23 44.73	+28 14.5	1.922	2.418	23.8	21.2	107 W	73	36
7 30	23 46.58	+29 56.8	1.795	2.389	22.9	21.0	114 W	75	34
8 9	23 45.83	+31 21.7	1.675	2.360	21.7	20.7	121 W	76	33
8 19	23 42.26	+32 22.3	1.566	2.330	20.0	20.5	128 W	77	32
8 29	23 35.95	+32 50.0	1.471	2.299	18.1	20.3	135 W	78	31
9 3	23 31.91	+32 49.1	1.430	2.284	17.1	20.2	138 W	78	31
9 8	23 27.41	+32 37.1	1.392	2.268	16.1	20.1	141 W	78	31
9 13	23 22.59	+32 13.5	1.360	2.253	15.2	20.0	144 E	77	32
9 18	23 17.60	+31 37.9	1.332	2.237	14.6	19.9	146 E	77	32
9 23	23 12.66	+30 50.6	1.310	2.221	14.2	19.8	147 E	76	33
9 28	23 7.95	+29 52.3	1.294	2.205	14.1	19.8	147 E	75	34
10 3	23 3.65	+28 44.4	1.282	2.189	14.5	19.8	147 E	74	35
10 8	22 59.92	+27 28.2	1.277	2.173	15.2	19.8	145 E	72	37
10 13	22 56.90	+26 5.8	1.277	2.157	16.2	19.8	143 E	71	38
10 18	22 54.69	+24 39.2	1.282	2.141	17.5	19.8	140 E	70	39
10 23	22 53.37	+23 10.5	1.292	2.125	18.9	19.9	136 E	68	41
10 28	22 52.97	+21 41.9	1.307	2.109	20.3	19.9	132 E	67	42
11 2	22 53.51	+20 15.2	1.326	2.093	21.8	20.0	128 E	65	44
11 7	22 54.95	+18 51.9	1.350	2.077	23.2	20.0	124 E	64	45
11 12	22 57.27	+17 33.2	1.376	2.061	24.5	20.1	120 E	63	46
11 17	23 0.44	+16 20.1	1.406	2.045	25.7	20.2	116 E	61	48
11 22	23 4.41	+15 13.4	1.439	2.029	26.8	20.2	112 E	60	49
11 27	23 9.12	+14 13.4	1.473	2.013	27.8	20.3	108 E	59	50*
12 7	23 20.53	+12 34.2	1.548	1.981	29.3	20.4	101 E	58	49*
12 17	23 34.26	+11 21.9	1.627	1.950	30.2	20.5	93 E	56	47*
12 27	23 49.96	+10 34.9	1.708	1.920	30.8	20.6	87 E	56	44*
1 6	0 7.29	+10 10.0	1.789	1.890	30.8	20.7	80 E	55*	41*
1 16	0 26.02	+10 3.9	1.869	1.861	30.6	20.7	74 E	54*	37*
495997 2007 VH_{96}									
7 10	23 53.51	−22 59.7	1.904	2.533	21.0	21.3	117 W	21*	87
7 20	23 57.87	−23 49.5	1.760	2.485	19.6	21.1	125 W	21*	88
7 30	23 59.68	−24 55.0	1.628	2.436	17.8	20.8	133 W	20	89
8 9	23 58.56	−26 13.0	1.512	2.386	15.5	20.5	141 W	19	90
8 19	23 54.20	−27 37.8	1.414	2.336	13.2	20.3	148 W	17	88
8 24	23 50.78	−28 19.7	1.373	2.311	12.2	20.1	151 W	17	88
8 29	23 46.60	−28 59.3	1.337	2.286	11.4	20.0	153 W	16	87
9 3	23 41.72	−29 34.8	1.307	2.261	11.0	19.9	155 W	15	86
9 8	23 36.28	−30 4.7	1.283	2.236	11.1	19.9	155 W	15	86
9 13	23 30.41	−30 27.4	1.264	2.210	11.8	19.8	153 W	15	86
9 18	23 24.32	−30 41.4	1.252	2.185	12.9	19.8	151 E	14	85
9 23	23 18.23	−30 45.8	1.244	2.160	14.4	19.9	148 E	14	85
9 28	23 12.36	−30 40.0	1.243	2.134	16.1	19.9	144 E	14	85
10 3	23 6.93	−30 23.8	1.246	2.109	17.9	19.9	140 E	15	86
10 8	23 2.10	−29 57.5	1.253	2.084	19.8	20.0	135 E	15	86
10 13	22 58.03	−29 21.7	1.265	2.059	21.6	20.0	131 E	16	87
10 18	22 54.84	−28 37.0	1.280	2.034	23.3	20.1	126 E	16	87
10 23	22 52.60	−27 44.4	1.299	2.009	24.9	20.1	122 E	17	88
10 28	22 51.35	−26 44.6	1.320	1.985	26.4	20.2	117 E	18	89
11 2	22 51.08	−25 38.7	1.343	1.960	27.7	20.2	113 E	19	90
11 7	22 51.77	−24 27.4	1.368	1.936	28.9	20.3	109 E	21	88
11 12	22 53.38	−23 11.4	1.395	1.912	29.9	20.3	105 E	22	87
11 17	22 55.86	−21 51.2	1.423	1.888	30.9	20.4	102 E	23	86
11 27	23 3.25	−19 0.0	1.480	1.842	32.3	20.4	95 E	26	81*
12 7	23 13.44	−15 56.7	1.538	1.798	33.2	20.5	88 E	29	73*
12 17	23 26.05	−12 43.3	1.596	1.755	33.7	20.5	82 E	32	65*
12 27	23 40.73	− 9 21.0	1.652	1.715	33.9	20.6	77 E	36	57*
1 6	23 57.20	− 5 51.3	1.707	1.678	33.8	20.6	72 E	39*	50*
1 16	0 15.28	− 2 15.6	1.759	1.644	33.4	20.6	67 E	42*	43*
339147 2004 TY_8									
7 10	23 53.93	− 1 18.1	1.081	1.717	33.8	21.5	110 W	42*	65
7 20	0 1.45	− 0 33.0	1.016	1.736	31.3	21.3	117 W	44*	65
7 30	0 5.45	− 0 10.7	0.955	1.755	28.0	21.1	126 W	45	64
8 9	0 5.60	− 0 13.3	0.904	1.775	23.7	20.8	135 W	45	64
8 19	0 1.75	− 0 41.2	0.864	1.795	18.3	20.6	146 W	44	65
8 29	23 54.26	− 1 31.8	0.841	1.816	12.2	20.3	158 W	43	66
9 3	23 49.47	− 2 3.4	0.836	1.827	8.8	20.2	164 W	43	66
9 8	23 44.22	− 2 37.4	0.836	1.837	5.4	20.1	170 W	42	67
9 13	23 38.73	− 3 12.4	0.842	1.848	1.9	19.9	176 W	42	67
9 18	23 33.24	− 3 47.0	0.854	1.859	1.6	19.9	177 E	41	68
9 23	23 28.00	− 4 19.4	0.872	1.869	4.9	20.2	171 E	41	68
9 28	23 23.22	− 4 48.4	0.895	1.880	8.1	20.4	165 E	40	69
10 3	23 19.09	− 5 12.9	0.924	1.891	11.1	20.6	159 E	40	69
10 8	23 15.71	− 5 32.3	0.957	1.901	13.9	20.8	153 E	39	70
10 13	23 13.18	− 5 46.2	0.996	1.912	16.4	21.0	147 E	39	70
10 18	23 11.54	− 5 54.3	1.038	1.923	18.7	21.2	142 E	39	70
10 23	23 10.82	− 5 56.6	1.085	1.933	20.7	21.3	137 E	39	70
10 28	23 10.98	− 5 53.4	1.136	1.944	22.4	21.5	132 E	39	70
496901 2001 HB									
7 10	23 56.29	+25 31.7	0.430	1.153	61.0	21.1	97 W	67*	38
7 12	0 10.38	+27 41.2	0.408	1.130	63.6	21.0	95 W	69*	36
7 14	0 26.45	+29 57.1	0.388	1.106	66.7	20.9	93 W	70*	34
7 16	0 44.88	+32 17.2	0.370	1.082	70.0	20.9	90 W	71*	32
7 18	1 6.03	+34 38.0	0.354	1.057	73.7	20.8	87 W	70*	29
7 20	1 30.24	+36 54.1	0.340	1.032	77.8	20.8	83 W	69*	27
7 21	1 43.56	+37 58.3	0.335	1.019	80.0	20.9	81 W	68*	26
7 22	1 57.69	+38 58.3	0.330	1.007	82.3	20.9	79 W	67*	25
7 23	2 12.62	+39 53.2	0.326	0.994	84.6	20.9	77 W	66*	24
7 24	2 28.30	+40 41.8	0.322	0.981	86.9	21.0	75 W	64*	23*
7 25	2 44.65	+41 23.0	0.320	0.968	89.4	21.0	72 W	63*	23*
7 26	3 1.55	+41 55.6	0.319	0.955	91.8	21.1	70 W	61*	22*
7 27	3 18.87	+42 19.1	0.318	0.941	94.2	21.1	68 W	59*	21*
7 28	3 36.44	+42 32.6	0.318	0.928	96.7	21.2	65 W	57*	20*
7 29	3 54.07	+42 36.1	0.320	0.915	99.1	21.3	63 W	55*	20*
7 30	4 11.59	+42 29.5	0.322	0.901	101.4	21.4	60 W	52*	19*
488640 2003 FR_6									
7 10	23 56.68	+46 35.7	1.005	1.390	46.9	21.5	87 W	80*	17
7 15	0 2.01	+46 11.4	0.984	1.413	46.0	21.5	90 W	83*	18
7 20	0 6.18	+45 36.8	0.961	1.437	44.9	21.4	93 W	87*	18
7 25	0 9.12	+44 50.4	0.936	1.461	43.7	21.4	97 W	90	19
7 30	0 10.82	+43 50.5	0.910	1.486	42.1	21.3	101 W	89	20
8 4	0 11.25	+42 35.0	0.883	1.511	40.3	21.2	105 W	88	21

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	488640 2003 FR_6				*(continuation)*				
	h m	° ′			°	m	°	°	°
8 9	0 10.43	+41 1.8	0.856	1.537	38.2	21.1	110 W	86	23
8 14	0 8.39	+39 8.5	0.830	1.563	35.8	21.0	116 W	84	25
8 19	0 5.21	+36 52.8	0.805	1.589	32.9	20.9	121 W	82	27
8 24	0 1.04	+34 12.9	0.784	1.615	29.6	20.8	128 W	79	30
8 29	23 56.10	+31 8.2	0.766	1.641	26.0	20.7	135 W	76	33
9 3	23 50.64	+27 40.0	0.755	1.668	22.0	20.6	142 W	73	36
9 8	23 44.91	+23 51.8	0.749	1.694	17.8	20.4	149 W	69	40
9 13	23 39.18	+19 49.0	0.752	1.721	13.7	20.3	156 W	65	44
9 18	23 33.71	+15 39.3	0.763	1.747	10.1	20.3	162 E	61	48
9 23	23 28.74	+11 31.1	0.783	1.773	7.8	20.3	166 E	57	52
9 28	23 24.45	+ 7 32.7	0.812	1.799	8.0	20.4	165 E	53	56
10 3	23 20.95	+ 3 50.7	0.850	1.825	10.2	20.6	161 E	49	60
10 8	23 18.32	+ 0 29.5	0.896	1.851	13.0	20.9	155 E	45	64
10 13	23 16.57	− 2 28.5	0.949	1.877	15.8	21.1	149 E	43	66
10 18	23 15.70	− 5 2.8	1.009	1.902	18.3	21.4	143 E	40	69
	289227 2004 XY_{60}								
7 14	6 58.60	+20 8.9	0.870	0.201	132.3	21.1	8 W	—	2*
7 15	6 51.21	+19 5.2	0.882	0.229	120.1	20.3	11 W	—	5*
7 16	6 45.37	+18 7.3	0.897	0.257	110.5	19.9	14 W	—	7*
7 17	6 40.85	+17 15.1	0.914	0.285	102.7	19.7	16 W	1*	9*
7 18	6 37.39	+16 28.4	0.933	0.313	96.4	19.7	18 W	2*	11*
7 19	6 34.79	+15 46.6	0.951	0.339	91.1	19.7	19 W	2*	13*
7 20	6 32.88	+15 9.0	0.970	0.365	86.6	19.7	21 W	3*	14*
7 21	6 31.54	+14 35.1	0.988	0.390	82.8	19.7	22 W	4*	16*
7 22	6 30.66	+14 4.4	1.007	0.414	79.5	19.8	24 W	4*	17*
7 23	6 30.15	+13 36.4	1.024	0.437	76.6	19.8	25 W	5*	18*
7 24	6 29.97	+13 10.8	1.041	0.460	74.0	19.9	26 W	6*	19*
7 25	6 30.05	+12 47.3	1.057	0.482	71.8	19.9	27 W	6*	20*
7 26	6 30.35	+12 25.6	1.073	0.503	69.8	20.0	28 W	7*	21*
7 27	6 30.84	+12 5.4	1.088	0.524	68.0	20.1	29 W	7*	22*
7 28	6 31.48	+11 46.7	1.103	0.544	66.3	20.1	29 W	8*	22*
7 29	6 32.27	+11 29.1	1.117	0.563	64.9	20.2	30 W	9*	23*
7 30	6 33.17	+11 12.6	1.130	0.582	63.6	20.2	31 W	9*	24*
8 1	6 35.26	+10 42.3	1.155	0.619	61.3	20.4	32 W	10*	25*
8 3	6 37.66	+10 15.0	1.178	0.653	59.3	20.5	34 W	11*	26*
8 5	6 40.29	+ 9 49.9	1.198	0.686	57.7	20.6	35 W	12*	27*
8 7	6 43.11	+ 9 26.8	1.217	0.717	56.4	20.6	36 W	13*	28*
8 9	6 46.07	+ 9 5.1	1.233	0.746	55.2	20.7	37 W	15*	29*
8 14	6 53.89	+ 8 15.4	1.266	0.814	53.0	20.9	40 W	17*	31*
8 19	7 2.12	+ 7 29.8	1.289	0.873	51.5	21.1	43 W	20*	33*
8 24	7 10.56	+ 6 46.2	1.302	0.926	50.6	21.2	45 W	22*	35*
8 29	7 19.13	+ 6 3.3	1.307	0.972	50.0	21.3	47 W	25*	36*
9 3	7 27.79	+ 5 20.2	1.303	1.012	49.7	21.4	50 W	27*	38*
9 8	7 36.52	+ 4 36.2	1.293	1.046	49.7	21.4	52 W	29*	40*
9 13	7 45.31	+ 3 50.7	1.276	1.075	49.8	21.4	55 W	32*	41*
9 18	7 54.19	+ 3 3.2	1.252	1.099	50.1	21.5	57 W	33*	43*
9 23	8 3.15	+ 2 13.4	1.223	1.119	50.5	21.5	59 W	35*	44*
9 28	8 12.25	+ 1 20.8	1.188	1.133	51.1	21.4	62 W	37*	46*
10 3	8 21.53	+ 0 25.0	1.148	1.144	51.8	21.4	64 W	38*	47*
10 8	8 31.07	− 0 34.5	1.104	1.149	52.6	21.4	66 W	39*	49*
10 13	8 40.96	− 1 38.4	1.056	1.150	53.6	21.3	68 W	39*	50*
10 18	8 51.29	− 2 47.3	1.004	1.147	54.7	21.2	70 W	39*	52*
10 23	9 2.24	− 4 2.3	0.949	1.139	56.0	21.1	72 W	39*	54*
10 28	9 14.01	− 5 24.4	0.891	1.127	57.6	21.0	73 W	39*	55*
11 2	9 26.91	− 6 55.1	0.831	1.110	59.5	20.9	74 W	38*	57*
11 7	9 41.35	− 8 36.6	0.770	1.088	61.7	20.7	75 W	36*	58*
11 12	9 57.94	−10 31.2	0.707	1.061	64.5	20.6	75 W	34*	59*
11 17	10 17.50	−12 41.8	0.645	1.029	68.0	20.4	75 W	32*	60*
11 22	10 41.27	−15 10.9	0.585	0.992	72.4	20.3	73 W	30*	60*
11 27	11 10.97	−17 59.6	0.529	0.949	78.1	20.1	70 W	27*	58*
11 29	11 25.00	−19 11.7	0.509	0.930	80.8	20.1	69 W	26*	57*
12 1	11 40.51	−20 25.5	0.490	0.911	83.8	20.1	67 W	24*	56*
12 3	11 57.63	−21 39.7	0.473	0.890	87.1	20.1	64 W	23*	54*
12 5	12 16.50	−22 52.4	0.457	0.868	90.7	20.1	62 W	22*	52*
12 7	12 37.18	−24 1.2	0.445	0.844	94.6	20.1	59 W	20*	50*
12 9	12 59.65	−25 3.1	0.435	0.820	98.7	20.2	55 W	19*	47*
12 11	13 23.75	−25 54.6	0.429	0.794	103.1	20.3	52 W	17*	43*
12 13	13 49.17	−26 32.4	0.426	0.767	107.7	20.5	48 W	16*	40*
12 15	14 15.47	−26 53.9	0.428	0.739	112.3	20.7	44 W	14*	36*
12 17	14 42.06	−26 57.8	0.434	0.709	116.8	20.9	40 W	13*	32*
12 19	15 8.35	−26 44.2	0.445	0.677	121.0	21.2	36 W	12*	28*
	428507 2007 XQ_{56}								
7 20	0 1.89	− 6 46.4	1.289	1.996	26.3	21.2	120 W	38*	71
7 30	0 6.86	− 6 5.8	1.174	1.966	24.1	20.9	128 W	39	70
8 9	0 8.86	− 5 36.8	1.071	1.936	21.1	20.6	136 W	39	70
8 19	0 7.45	− 5 19.7	0.981	1.907	17.2	20.3	146 W	40	69
8 29	0 2.43	− 5 13.0	0.907	1.878	12.2	19.9	157 W	40	69
9 8	23 54.15	− 5 12.6	0.853	1.851	6.4	19.5	168 W	40	69

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	428507 2007 XQ_{56}				*(continuation)*				
	h m	° ′			°	m	°	°	°
9 13	23 49.05	− 5 13.0	0.834	1.837	3.4	19.3	174 W	40	69
9 18	23 43.56	− 5 12.8	0.820	1.824	1.8	19.1	177 W	40	69
9 23	23 37.92	− 5 10.9	0.812	1.811	4.3	19.2	172 E	40	69
9 28	23 32.38	− 5 6.3	0.809	1.799	7.5	19.4	166 E	40	69
10 3	23 27.19	− 4 58.4	0.812	1.787	10.8	19.5	161 E	40	69
10 8	23 22.58	− 4 46.6	0.820	1.775	14.0	19.6	155 E	40	69
10 18	23 15.78	− 4 10.2	0.849	1.753	19.8	19.9	143 E	41	68
10 28	23 13.02	− 3 15.4	0.894	1.732	24.7	20.1	133 E	42	67
11 7	23 14.53	− 2 3.1	0.950	1.714	28.7	20.3	124 E	43	66
11 17	23 20.08	− 0 34.9	1.015	1.697	31.7	20.5	116 E	44	65
11 27	23 29.22	+ 1 7.5	1.087	1.683	33.8	20.7	108 E	46	63
12 7	23 41.41	+ 3 2.1	1.163	1.672	35.2	20.9	102 E	48	60*
12 17	23 56.16	+ 5 6.8	1.242	1.662	36.1	21.0	96 E	50	55*
12 27	0 13.10	+ 7 19.4	1.324	1.656	36.4	21.2	91 E	52	50*
1 6	0 31.85	+ 9 37.4	1.407	1.652	36.4	21.3	86 E	55	45*
1 16	0 52.20	+11 58.3	1.491	1.652	36.0	21.4	81 E	57*	40*
	139047 2001 EB_{16}								
7 20	0 15.87	−10 47.1	1.791	2.434	21.7	21.4	118 W	34*	75
7 30	0 17.96	−13 54.9	1.658	2.411	19.6	21.1	127 W	31	78
8 9	0 17.26	−17 43.2	1.544	2.386	16.9	20.8	137 W	27	82
8 19	0 13.34	−22 7.0	1.454	2.359	14.1	20.6	146 W	23	86
8 29	0 5.96	−26 52.4	1.392	2.330	12.0	20.4	151 W	18	89
9 3	0 1.01	−29 16.4	1.373	2.315	11.6	20.3	152 W	16	87
9 8	23 55.31	−31 37.0	1.362	2.300	12.0	20.3	152 W	13	84
9 13	23 48.97	−33 50.8	1.359	2.284	12.9	20.3	149 W	11	82
9 18	23 42.16	−35 54.8	1.364	2.267	14.4	20.4	146 E	9	80
9 23	23 35.09	−37 46.5	1.376	2.251	16.0	20.4	142 E	7	78
9 28	23 28.00	−39 24.1	1.394	2.234	17.8	20.5	137 E	6	77
10 3	23 21.14	−40 46.7	1.417	2.216	19.6	20.6	132 E	4	75
10 8	23 14.73	−41 54.4	1.446	2.198	21.3	20.7	127 E	3	74
10 13	23 8.99	−42 47.5	1.479	2.180	22.8	20.7	122 E	2	73
10 18	23 4.07	−43 27.0	1.515	2.161	24.2	20.8	117 E	2	73
10 23	23 0.13	−43 54.0	1.553	2.141	25.4	20.9	112 E	1	72
10 28	22 57.24	−44 10.0	1.593	2.122	26.5	20.9	108 E	1	72
11 2	22 55.43	−44 16.4	1.634	2.102	27.3	21.0	104 E	1	72
11 7	22 54.70	−44 14.4	1.676	2.081	28.0	21.1	99 E	1	72
11 12	22 55.02	−44 5.1	1.717	2.060	28.6	21.1	95 E	1	72
11 17	22 56.36	−43 49.4	1.757	2.039	29.0	21.1	92 E	1	72
11 22	22 58.67	−43 28.1	1.796	2.017	29.3	21.2	88 E	2	73*
11 27	23 1.89	−43 2.0	1.833	1.995	29.5	21.2	84 E	2	72*
12 2	23 5.94	−42 31.7	1.869	1.972	29.6	21.2	81 E	2	71*
12 7	23 10.77	−41 57.4	1.902	1.949	29.6	21.2	78 E	3	70*
12 12	23 16.31	−41 19.4	1.932	1.926	29.6	21.2	75 E	4	68*
12 17	23 22.52	−40 38.1	1.960	1.903	29.5	21.2	72 E	4	65*
12 22	23 29.35	−39 53.5	1.985	1.879	29.3	21.2	69 E	5	63*
12 27	23 36.74	−39 5.9	2.007	1.854	29.2	21.2	67 E	6	61*
1 1	23 44.66	−38 15.3	2.026	1.830	29.0	21.2	64 E	7	58*
1 6	23 53.08	−37 21.8	2.041	1.805	28.8	21.2	62 E	8*	56*
1 11	0 1.95	−36 25.2	2.053	1.780	28.6	21.2	60 E	8*	54*
1 16	0 11.27	−35 25.7	2.063	1.754	28.4	21.1	58 E	9*	52*
	511808 2015 FH_{120}								
7 20	0 27.30	−16 41.7	1.090	1.792	30.5	21.4	117 W	28*	81
7 30	0 41.82	−17 39.9	0.936	1.709	30.2	20.9	122 W	27*	82
8 9	0 56.35	−19 11.1	0.792	1.623	29.7	20.4	128 W	26	83
8 19	1 11.06	−21 24.2	0.659	1.535	29.2	19.9	132 W	24	85
8 24	1 18.58	−22 49.9	0.598	1.490	29.1	19.6	134 W	22	87
8 29	1 26.33	−24 30.4	0.539	1.445	29.3	19.3	136 W	20	89
9 3	1 34.49	−26 27.8	0.484	1.399	29.8	19.0	136 W	19	90
9 8	1 43.26	−28 44.6	0.432	1.353	30.9	18.8	136 W	16	87
9 13	1 53.01	−31 24.4	0.383	1.307	32.6	18.5	136 W	14	85
9 18	2 4.31	−34 31.5	0.337	1.261	35.3	18.2	134 W	10	81
9 20	2 9.47	−35 55.0	0.319	1.242	36.6	18.1	132 W	9	80
9 22	2 15.14	−37 24.2	0.302	1.224	38.2	18.0	131 W	8	79
9 24	2 21.43	−38 59.5	0.285	1.205	39.9	17.9	130 W	6	77
9 26	2 28.51	−40 41.4	0.269	1.187	41.9	17.8	128 W	4	75
9 28	2 36.58	−42 30.5	0.254	1.169	44.1	17.7	126 W	2	73
9 30	2 45.92	−44 27.2	0.239	1.150	46.7	17.6	123 W	1	72
10 2	2 56.91	−46 31.9	0.225	1.132	49.5	17.5	121 W	—	69
10 4	3 10.06	−48 44.6	0.211	1.114	52.6	17.4	118 W	—	67
10 6	3 26.05	−51 4.5	0.198	1.096	56.2	17.3	114 W	—	65
10 8	3 45.84	−53 29.5	0.185	1.078	60.1	17.3	111 W	—	63
10 9	3 57.55	−54 42.6	0.179	1.070	62.3	17.2	109 W	—	61
10 10	4 10.72	−55 54.9	0.174	1.061	64.5	17.2	106 W	—	60
10 11	4 25.54	−57 5.3	0.168	1.052	66.9	17.2	104 W	—	59
10 12	4 42.24	−58 12.1	0.163	1.044	69.4	17.2	102 W	—	58
10 13	5 1.00	−59 13.1	0.158	1.035	72.1	17.2	99 W	—	57

511808 2015 FH_{120} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 14	5 21.96	−60 5.9	0.154	1.027	74.8	17.2	97 W	—	56
10 15	5 45.14	−60 47.2	0.150	1.018	77.8	17.2	94 W	—	55
10 16	6 10.42	−61 13.8	0.146	1.010	80.8	17.3	91 W	—	55
10 17	6 37.43	−61 22.2	0.142	1.002	84.0	17.3	88 W	—	55
10 18	7 5.59	−61 9.4	0.140	0.993	87.2	17.4	85 W	—	55*
10 19	7 34.14	−60 33.4	0.137	0.985	90.6	17.5	82 W	—	55*
10 20	8 2.25	−59 33.2	0.135	0.977	94.0	17.6	78 W	—	54*
10 21	8 29.16	−58 9.4	0.134	0.969	97.5	17.7	75 W	—	54*
10 22	8 54.31	−56 23.9	0.133	0.961	101.0	17.8	72 W	—	53*
10 23	9 17.37	−54 19.6	0.132	0.954	104.4	18.0	68 W	—	52*
10 24	9 38.21	−52 0.0	0.133	0.946	107.8	18.1	65 W	—	51*
10 25	9 56.88	−49 28.9	0.133	0.939	111.1	18.3	62 W	—	50*
10 26	10 13.52	−46 49.9	0.135	0.931	114.2	18.5	59 W	—	48*
10 27	10 28.33	−44 6.4	0.137	0.924	117.1	18.7	56 W	—	47*
10 28	10 41.52	−41 21.5	0.139	0.917	119.8	19.0	53 W	—	45*
10 29	10 53.29	−38 37.7	0.142	0.910	122.3	19.2	51 W	1*	44*
10 30	11 3.84	−35 57.0	0.146	0.903	124.4	19.4	49 W	3*	42*
10 31	11 13.33	−33 21.2	0.150	0.897	126.3	19.6	47 W	5*	41*
11 1	11 21.90	−30 51.4	0.155	0.890	127.9	19.8	45 W	7*	39*
11 2	11 29.70	−28 28.4	0.160	0.884	129.2	20.0	44 W	8*	38*
11 3	11 36.82	−26 12.7	0.165	0.878	130.1	20.1	43 W	10*	36*
11 4	11 43.35	−24 4.6	0.171	0.872	130.8	20.3	42 W	12*	35*
11 5	11 49.38	−22 4.2	0.177	0.866	131.3	20.4	41 W	14*	34*
11 6	11 54.98	−20 11.3	0.184	0.860	131.5	20.4	41 W	15*	33*
11 7	12 0.20	−18 25.8	0.190	0.855	131.4	20.5	40 W	17*	32*
11 9	12 9.68	−15 15.8	0.205	0.844	130.8	20.6	40 W	20*	30*
11 11	12 18.15	−12 31.5	0.220	0.835	129.5	20.6	41 W	22*	29*
11 13	12 25.84	−10 10.2	0.237	0.827	127.8	20.6	41 W	25*	27*
11 15	12 32.92	− 8 9.0	0.254	0.819	125.8	20.5	42 W	27*	27*
11 17	12 39.53	− 6 25.4	0.272	0.813	123.5	20.4	43 W	29*	26*
11 19	12 45.78	− 4 57.2	0.290	0.807	121.1	20.4	44 W	31*	25*
11 21	12 51.73	− 3 42.3	0.308	0.803	118.5	20.3	46 W	32*	25*
11 23	12 57.46	− 2 39.2	0.327	0.799	115.9	20.2	47 W	34*	25*
11 25	13 3.01	− 1 46.3	0.347	0.797	113.3	20.2	48 W	35*	25*
11 27	13 8.43	− 1 2.3	0.366	0.796	110.7	20.1	49 W	36*	25*
11 29	13 13.72	− 0 26.2	0.386	0.796	108.1	20.1	50 W	37*	25*
12 1	13 18.93	+ 0 3.0	0.405	0.797	105.5	20.1	51 W	38*	26*
12 3	13 24.06	+ 0 26.3	0.425	0.800	102.9	20.0	52 W	39*	26*
12 5	13 29.12	+ 0 44.4	0.444	0.803	100.4	20.0	53 W	40*	27*
12 7	13 34.12	+ 0 57.9	0.464	0.808	97.9	20.0	54 W	41*	27*
12 12	13 46.35	+ 1 15.9	0.511	0.823	92.1	20.0	57 W	42*	29*
12 17	13 58.19	+ 1 17.3	0.556	0.845	86.6	20.0	59 W	43*	31*
12 22	14 9.57	+ 1 8.1	0.597	0.873	81.7	20.0	61 W	44*	33*
12 27	14 20.44	+ 0 52.7	0.635	0.904	77.2	20.1	64 W	44*	36*
1 1	14 30.74	+ 0 34.2	0.669	0.940	73.1	20.2	66 W	45*	39*
1 6	14 40.41	+ 0 15.1	0.699	0.979	69.5	20.2	69 W	45*	41*
1 11	14 49.38	− 0 2.8	0.725	1.020	66.1	20.3	71 W	45*	45*
1 16	14 57.57	− 0 18.1	0.746	1.063	63.1	20.3	74 W	45*	48*

237566 2001 BW_1

7 20	0 40.90	+33 56.2	3.439	3.644	16.2	21.5	93 W	75*	30
7 30	0 41.22	+35 25.8	3.313	3.646	15.9	21.4	101 W	80*	29
8 9	0 39.50	+36 46.4	3.192	3.648	15.2	21.3	109 W	82	27
8 19	0 35.62	+37 54.7	3.080	3.649	14.3	21.2	117 W	83	26
8 29	0 29.58	+38 46.3	2.981	3.648	13.2	21.1	124 W	84	25
9 8	0 21.63	+39 17.3	2.898	3.647	11.9	20.9	132 W	84	25
9 18	0 12.24	+39 24.2	2.835	3.645	10.6	20.8	138 W	84	25
9 28	0 2.13	+39 5.1	2.794	3.643	9.6	20.8	143 E	84	25
10 8	23 52.20	+38 21.0	2.779	3.639	9.2	20.7	145 E	83	26
10 18	23 43.29	+37 15.6	2.788	3.634	9.5	20.8	143 E	82	27
10 28	23 36.12	+35 55.0	2.823	3.629	10.4	20.8	139 E	81	28
11 7	23 31.13	+34 26.7	2.882	3.623	11.7	20.9	132 E	79	30
11 17	23 28.51	+32 57.9	2.960	3.616	13.0	21.0	125 E	78	31
11 27	23 28.28	+31 34.6	3.056	3.608	14.1	21.1	117 E	77	32
12 7	23 30.25	+30 21.4	3.165	3.599	15.1	21.2	108 E	75	33*
12 17	23 34.22	+29 21.1	3.282	3.590	15.7	21.3	100 E	74	31*
12 27	23 39.96	+28 35.1	3.405	3.579	15.9	21.4	92 E	74	28*
1 6	23 47.20	+28 3.7	3.530	3.568	15.9	21.5	84 E	73*	24*

339233 2004 UG

7 20	0 43.94	−28 30.3	3.179	3.731	14.2	21.5	115 W	15*	87
7 30	0 42.72	−29 27.4	3.069	3.728	13.1	21.4	124 W	16*	87
8 9	0 39.31	−30 29.8	2.974	3.724	11.8	21.2	132 W	15	86
8 19	0 33.67	−31 32.9	2.898	3.720	10.3	21.1	139 W	13	84
8 29	0 25.94	−32 30.6	2.844	3.714	9.0	21.0	145 W	12	83
9 8	0 16.53	−33 16.4	2.815	3.708	8.3	21.0	148 W	12	83
9 18	0 6.04	−33 44.5	2.813	3.701	8.3	21.0	148 W	11	82
9 28	23 55.28	−33 50.7	2.837	3.693	9.2	21.0	144 E	11	82
10 8	23 45.10	−33 33.5	2.888	3.684	10.6	21.1	137 E	11	82
10 18	23 36.25	−32 53.8	2.961	3.675	12.1	21.2	129 E	12	83
10 28	23 29.27	−31 54.5	3.055	3.664	13.5	21.3	121 E	13	84
11 7	23 24.44	−30 39.4	3.164	3.653	14.6	21.4	112 E	14	85

480962 2003 UP_{87}

7 20	0 46.81	+ 4 55.0	1.939	2.408	24.1	21.5	105 W	48*	59
7 30	0 49.99	+ 6 58.8	1.777	2.364	23.3	21.2	113 W	52*	57
8 9	0 50.64	+ 9 6.0	1.625	2.320	21.9	20.9	121 W	54	55
8 19	0 48.22	+11 16.5	1.484	2.275	19.8	20.6	130 W	56	53
8 29	0 42.20	+13 28.3	1.360	2.231	16.9	20.3	140 W	58	51
9 8	0 32.31	+15 37.9	1.255	2.186	13.4	20.0	150 W	61	48
9 13	0 25.92	+16 40.0	1.212	2.164	11.5	19.8	155 W	62	47
9 18	0 18.66	+17 38.9	1.175	2.142	9.9	19.6	159 W	63	46
9 23	0 10.68	+18 33.5	1.145	2.120	8.7	19.5	161 W	64	45
9 28	0 2.17	+19 23.1	1.122	2.098	8.4	19.4	162 E	64	45
10 3	23 53.38	+20 6.8	1.105	2.076	9.2	19.4	161 E	65	44
10 8	23 44.58	+20 44.3	1.096	2.054	10.8	19.4	157 E	66	43
10 13	23 36.04	+21 15.6	1.093	2.033	12.9	19.5	153 E	66	43
10 18	23 28.06	+21 41.2	1.096	2.011	15.3	19.6	148 E	67	42
10 23	23 20.87	+22 2.0	1.105	1.990	17.6	19.6	143 E	67	42
10 28	23 14.66	+22 19.2	1.119	1.969	20.0	19.7	137 E	67	42
11 2	23 9.57	+22 34.1	1.137	1.948	22.1	19.8	132 E	68	41
11 7	23 5.66	+22 48.0	1.159	1.928	24.2	19.9	127 E	68	41
11 12	23 2.98	+23 1.9	1.184	1.908	26.0	20.0	122 E	68	41
11 17	23 1.52	+23 16.9	1.212	1.888	27.6	20.0	118 E	68	41
11 22	23 1.28	+23 34.0	1.241	1.868	29.0	20.1	113 E	69	40
11 27	23 2.18	+23 53.9	1.271	1.849	30.2	20.2	109 E	69	40*
12 7	23 7.20	+24 43.7	1.333	1.813	32.1	20.3	102 E	70	37*
12 17	23 16.13	+25 48.2	1.395	1.778	33.5	20.4	95 E	71	33*
12 27	23 28.59	+27 8.2	1.456	1.746	34.3	20.4	89 E	72	28*
1 6	23 44.22	+28 42.6	1.513	1.716	34.7	20.5	84 E	73*	23*
1 16	0 2.87	+30 29.1	1.567	1.690	34.9	20.6	79 E	72*	19*

69230 Hermes

7 20	0 55.43	− 0 54.7	1.517	2.032	28.9	21.2	105 W	42*	65
7 30	1 3.52	− 0 26.4	1.342	1.967	28.5	20.9	112 W	44*	64
8 9	1 9.80	− 0 12.3	1.173	1.898	27.5	20.5	120 W	45	64
8 19	1 13.61	− 0 16.2	1.011	1.826	25.5	20.0	129 W	45	64
8 29	1 14.03	− 0 42.4	0.860	1.749	22.5	19.5	138 W	44	65
9 3	1 12.61	− 1 5.4	0.789	1.709	20.5	19.2	144 W	44	65
9 8	1 9.85	− 1 36.0	0.722	1.668	18.1	18.8	149 W	43	66
9 13	1 5.54	− 2 14.9	0.658	1.626	15.3	18.5	155 W	43	66
9 18	0 59.41	− 3 2.8	0.599	1.583	12.1	18.1	161 W	42	67
9 28	0 40.82	− 5 5.7	0.496	1.494	6.0	17.3	171 W	40	69
10 8	0 12.59	− 7 38.8	0.414	1.400	12.1	17.0	163 E	37	72
10 18	23 34.79	−10 20.0	0.355	1.303	26.2	17.0	145 E	35	74
10 23	23 13.15	−11 32.0	0.334	1.252	34.4	17.0	135 E	33	76
10 28	22 50.43	−12 32.0	0.317	1.201	43.1	17.1	124 E	32	77
11 2	22 27.13	−13 17.3	0.304	1.149	52.2	17.1	114 E	32	77
11 7	22 3.57	−13 46.9	0.293	1.096	61.6	17.2	103 E	31	78
11 12	21 39.76	−14 1.8	0.284	1.043	71.4	17.4	93 E	31	76*
11 17	21 15.38	−14 3.9	0.276	0.990	81.8	17.5	82 E	31	67*
11 22	20 49.74	−13 56.1	0.269	0.936	93.0	17.8	71 E	31*	57*
11 27	20 21.87	−13 41.5	0.264	0.884	105.3	18.2	60 E	30*	45*
12 2	19 50.97	−13 23.2	0.262	0.832	118.9	19.0	48 E	27*	33*
12 7	19 16.98	−13 4.2	0.264	0.783	133.9	20.2	35 E	22*	20*
12 9	19 2.78	−12 57.2	0.267	0.765	140.1	20.9	30 E	19*	15*
12 11	18 48.46	−12 51.1	0.272	0.747	146.3	21.8	25 E	16*	10*
12 13	18 34.22	−12 46.1	0.278	0.729	152.3	22.9	20 E	13*	4*
12 15	18 20.28	−12 42.7	0.287	0.713	157.8	24.3	16 E	10*	—

419022 2009 QF_{31}

7 20	0 56.61	+13 15.6	1.186	1.681	36.6	21.4	99 W	55*	51
7 25	0 57.32	+15 57.7	1.130	1.678	36.2	21.3	103 W	60*	48
7 30	0 57.02	+18 48.9	1.077	1.674	35.6	21.1	106 W	64*	45
8 4	0 55.53	+21 49.4	1.027	1.670	34.9	21.0	110 W	67	42
8 9	0 52.65	+24 58.9	0.979	1.665	34.0	20.9	113 W	70	39
8 14	0 48.10	+28 16.6	0.936	1.660	33.0	20.7	117 W	73	36
8 19	0 41.60	+31 40.3	0.897	1.655	32.0	20.6	120 W	77	32
8 24	0 32.83	+35 6.5	0.864	1.649	30.9	20.5	123 W	80	29
8 29	0 21.49	+38 30.4	0.836	1.644	30.0	20.4	126 W	84	25
9 3	0 7.35	+41 45.6	0.814	1.637	29.3	20.3	127 W	87	22
9 8	23 50.32	+44 44.4	0.800	1.631	28.9	20.2	129 W	90	19
9 13	23 30.56	+47 18.9	0.791	1.624	28.8	20.2	129 W	88	17
9 18	23 8.65	+49 22.2	0.789	1.617	29.2	20.2	128 E	86	15
9 20	22 59.49	+50 1.6	0.790	1.614	29.5	20.2	128 E	85	14
9 22	22 50.22	+50 35.2	0.792	1.611	29.8	20.2	127 E	84	13
9 24	22 40.93	+51 3.1	0.795	1.608	30.1	20.2	126 E	84	13
9 26	22 31.70	+51 25.1	0.799	1.605	30.5	20.3	126 E	84	13
9 28	22 22.60	+51 41.7	0.803	1.602	30.9	20.3	125 E	83	12
9 30	22 13.72	+51 53.0	0.809	1.599	31.4	20.3	124 E	83	12
10 2	22 5.13	+51 59.4	0.815	1.596	31.9	20.3	123 E	83	12

419022 2009 QF_{31} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 4	21 56.88	+52 1.3	0.821	1.592	32.4	20.4	122 E	83	12
10 6	21 49.03	+51 59.1	0.829	1.589	32.8	20.4	120 E	83	12
10 8	21 41.62	+51 53.3	0.836	1.586	33.3	20.4	119 E	83	12
10 13	21 25.19	+51 25.8	0.858	1.577	34.6	20.5	116 E	84	13
10 18	21 11.89	+50 45.3	0.882	1.569	35.7	20.6	113 E	84	13
10 23	21 1.66	+49 58.2	0.908	1.560	36.8	20.6	110 E	85	14
10 28	20 54.27	+49 9.3	0.934	1.551	37.8	20.7	107 E	86	15*
11 2	20 49.38	+48 22.1	0.961	1.542	38.6	20.8	104 E	87	15*
11 7	20 46.72	+47 38.9	0.987	1.532	39.3	20.9	102 E	87	15*
11 12	20 46.00	+47 1.3	1.013	1.523	40.0	20.9	99 E	88	14*
11 17	20 47.01	+46 30.6	1.037	1.513	40.5	21.0	97 E	88	13*
11 22	20 49.55	+46 7.3	1.060	1.503	40.9	21.0	94 E	87*	12*
11 27	20 53.44	+45 52.0	1.081	1.493	41.3	21.1	92 E	85*	10*
12 2	20 58.58	+45 44.6	1.100	1.483	41.7	21.1	90 E	83*	9*
12 7	21 4.87	+45 45.0	1.117	1.473	42.0	21.1	89 E	81*	7*
12 12	21 12.28	+45 53.1	1.132	1.463	42.2	21.1	87 E	79*	5*
12 17	21 20.77	+46 8.7	1.145	1.452	42.5	21.2	86 E	77*	3*
12 22	21 30.35	+46 31.6	1.155	1.442	42.7	21.2	84 E	75*	1*
12 27	21 41.01	+47 1.4	1.163	1.432	43.0	21.2	83 E	73*	—
1 1	21 52.81	+47 37.5	1.169	1.422	43.2	21.2	82 E	71*	—
1 6	22 5.80	+48 19.1	1.173	1.412	43.5	21.2	81 E	69*	—
1 11	22 20.09	+49 5.5	1.176	1.402	43.8	21.2	80 E	67*	—
1 16	22 35.78	+49 55.6	1.176	1.392	44.0	21.2	80 E	66*	—

378054 2006 TF_{60}

7 20	1 7.74	+15 57.9	1.144	1.604	39.1	21.4	96 W	57*	48
7 25	1 17.40	+17 3.1	1.108	1.602	38.9	21.3	98 W	59*	47
7 30	1 26.71	+18 4.0	1.073	1.602	38.6	21.2	100 W	61*	46
8 4	1 35.63	+19 0.4	1.039	1.603	38.2	21.1	103 W	63*	45
8 9	1 44.09	+19 51.9	1.006	1.604	37.6	21.1	105 W	65*	44
8 14	1 52.02	+20 38.1	0.974	1.606	36.9	21.0	108 W	66	43
8 19	1 59.32	+21 18.7	0.943	1.610	36.0	20.9	111 W	66	43
8 24	2 5.92	+21 53.1	0.913	1.614	35.0	20.8	114 W	67	42
8 29	2 11.72	+22 20.9	0.884	1.618	33.7	20.7	117 W	67	42
9 3	2 16.66	+22 42.0	0.857	1.624	32.2	20.6	121 W	68	41
9 8	2 20.65	+22 55.8	0.831	1.631	30.5	20.5	125 W	68	41
9 13	2 23.62	+23 1.9	0.808	1.638	28.6	20.4	129 W	68	41
9 18	2 25.49	+22 59.8	0.786	1.646	26.4	20.3	133 W	68	41
9 28	2 25.96	+22 30.1	0.751	1.664	21.3	20.0	143 W	68	41
10 8	2 22.41	+21 26.6	0.730	1.685	15.2	19.8	154 W	66	43
10 18	2 15.87	+19 53.3	0.727	1.709	8.6	19.6	165 W	65	44
10 23	2 12.01	+18 58.7	0.732	1.722	5.3	19.4	171 W	64	45
10 28	2 8.12	+18 1.5	0.743	1.735	2.8	19.3	175 E	63	46
11 2	2 4.43	+17 3.7	0.759	1.749	3.6	19.5	174 E	62	47
11 7	2 1.14	+16 7.4	0.781	1.763	6.4	19.7	168 E	61	48
11 12	1 58.43	+15 14.5	0.807	1.777	9.5	19.9	163 E	60	49
11 17	1 56.44	+14 26.5	0.840	1.792	12.3	20.1	157 E	59	50
11 22	1 55.26	+13 44.8	0.877	1.808	15.0	20.3	152 E	59	50
11 27	1 54.93	+13 10.0	0.918	1.824	17.4	20.5	146 E	58	51
12 2	1 55.45	+12 42.3	0.964	1.840	19.6	20.7	141 E	58	51
12 7	1 56.80	+12 21.7	1.014	1.856	21.5	20.9	136 E	57	52
12 12	1 58.92	+12 7.9	1.067	1.873	23.1	21.1	132 E	57	52
12 17	2 1.79	+12 0.5	1.124	1.890	24.5	21.3	127 E	57	52
12 22	2 5.35	+11 59.0	1.183	1.907	25.6	21.4	123 E	57	52

488646 2003 QK_{47}

7 20	1 9.65	+12 36.0	1.014	1.516	41.7	21.5	97 W	53*	51
7 30	1 18.16	+17 51.1	0.952	1.531	40.4	21.3	102 W	62*	46
8 9	1 23.39	+23 15.6	0.896	1.547	38.5	21.2	108 W	68	41
8 19	1 24.36	+28 44.1	0.847	1.565	36.1	21.0	114 W	74	35
8 29	1 19.97	+34 5.0	0.808	1.584	33.2	20.8	121 W	79	30
9 8	1 9.24	+38 59.6	0.781	1.605	30.1	20.7	127 W	84	25
9 18	0 51.92	+43 2.5	0.769	1.626	27.1	20.6	132 W	88	21
9 28	0 29.53	+45 47.5	0.772	1.648	24.9	20.6	136 W	89	18
10 8	0 5.78	+47 2.4	0.792	1.671	23.8	20.6	137 E	88	17
10 18	23 45.12	+46 54.6	0.827	1.694	24.0	20.8	136 E	88	17
10 28	23 30.86	+45 48.5	0.877	1.717	24.9	20.9	133 E	89	18
11 7	23 24.01	+44 13.7	0.940	1.741	26.4	21.2	129 E	89	20
11 17	23 24.01	+42 32.7	1.014	1.765	27.8	21.4	124 E	88	21

405895 2006 GJ_{40}

7 20	1 16.69	−13 38.8	1.941	2.403	24.2	21.5	104 W	28*	78
7 30	1 21.79	−13 33.5	1.802	2.376	23.3	21.3	112 W	31*	78
8 9	1 24.38	−13 39.8	1.669	2.348	21.9	21.0	120 W	31	78
8 19	1 23.98	−13 56.4	1.546	2.320	19.8	20.8	129 W	31	78
8 29	1 20.14	−14 20.3	1.437	2.291	17.1	20.5	138 W	31	78
9 3	1 16.84	−14 33.1	1.388	2.276	15.5	20.3	143 W	30	79
9 8	1 12.61	−14 45.4	1.344	2.261	13.7	20.2	148 W	30	79
9 13	1 7.47	−14 56.1	1.306	2.246	12.0	20.1	152 W	30	79

405895 2006 GJ_{40} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 18	1 1.50	−15 3.9	1.273	2.230	10.4	19.9	156 W	30	79
9 23	0 54.80	−15 7.4	1.246	2.215	9.0	19.8	160 W	30	79
9 28	0 47.56	−15 5.5	1.226	2.199	8.3	19.7	161 W	30	79
10 3	0 39.96	−14 57.0	1.212	2.183	8.5	19.7	161 W	30	79
10 8	0 32.22	−14 41.3	1.206	2.167	9.6	19.7	159 E	30	79
10 13	0 24.59	−14 18.0	1.206	2.151	11.4	19.8	155 E	31	78
10 18	0 17.29	−13 46.9	1.212	2.135	13.4	19.8	150 E	31	78
10 23	0 10.56	−13 8.3	1.224	2.118	15.6	19.9	145 E	32	77
10 28	0 4.55	−12 22.7	1.243	2.102	17.8	20.0	140 E	33	76
11 2	23 59.41	−11 30.9	1.266	2.085	19.8	20.1	135 E	33	76
11 7	23 55.20	−10 33.7	1.293	2.068	21.8	20.2	129 E	34	75
11 12	23 51.98	− 9 32.0	1.325	2.052	23.5	20.3	124 E	35	74
11 17	23 49.76	− 8 26.3	1.360	2.035	25.1	20.4	119 E	37	72
11 27	23 48.26	− 6 5.7	1.437	2.001	27.6	20.5	110 E	39	70
12 7	23 50.35	− 3 36.0	1.520	1.967	29.4	20.7	101 E	41	67*
12 17	23 55.60	− 0 59.5	1.607	1.933	30.5	20.8	93 E	44	61*
12 27	0 3.61	+ 1 42.6	1.693	1.899	31.1	20.9	86 E	47	53*
1 6	0 13.97	+ 4 29.2	1.776	1.866	31.2	20.9	79 E	49	46*
1 16	0 26.41	+ 7 19.7	1.856	1.833	30.9	21.0	73 E	52*	39*

107888 2001 FY_{92}

7 20	1 37.89	+ 4 16.2	2.563	2.810	21.2	21.4	93 W	43*	60
7 30	1 42.55	+ 4 33.8	2.448	2.831	20.6	21.3	102 W	47*	59
8 9	1 45.19	+ 4 39.7	2.336	2.852	19.5	21.2	110 W	50*	59
8 19	1 45.58	+ 4 33.3	2.230	2.872	17.8	21.1	120 W	50	59
8 29	1 43.55	+ 4 14.7	2.135	2.890	15.5	20.9	130 W	49	60
9 8	1 39.08	+ 3 44.7	2.057	2.908	12.6	20.7	141 W	49	60
9 18	1 32.34	+ 3 5.3	1.998	2.925	9.2	20.5	152 W	48	61
9 28	1 23.78	+ 2 19.9	1.965	2.940	5.5	20.4	164 W	47	62
10 8	1 14.15	+ 1 33.3	1.960	2.955	2.2	20.2	174 W	47	62
10 13	1 9.21	+ 1 11.1	1.969	2.962	2.2	20.2	173 E	46	63
10 18	1 4.34	+ 0 50.5	1.985	2.969	3.7	20.3	169 E	46	63
10 23	0 59.67	+ 0 32.3	2.009	2.976	5.5	20.4	163 E	46	63
10 28	0 55.30	+ 0 16.8	2.040	2.982	7.3	20.6	158 E	45	64
11 2	0 51.33	+ 0 4.5	2.077	2.988	9.1	20.7	152 E	45	64
11 7	0 47.82	− 0 4.4	2.121	2.994	10.7	20.8	146 E	45	64
11 12	0 44.83	− 0 9.7	2.171	3.000	12.2	20.9	140 E	45	64
11 17	0 42.40	− 0 11.3	2.226	3.005	13.5	21.0	135 E	45	64
11 22	0 40.55	− 0 9.3	2.286	3.010	14.7	21.1	129 E	45	64
11 27	0 39.31	− 0 3.6	2.350	3.015	15.7	21.2	124 E	45	64
12 2	0 38.64	+ 0 5.5	2.418	3.020	16.6	21.3	119 E	45	64
12 7	0 38.55	+ 0 17.9	2.488	3.024	17.3	21.4	114 E	45	64
12 12	0 39.00	+ 0 33.4	2.561	3.028	17.9	21.5	109 E	46	63

464655 2001 QA_{59}

7 20	1 44.53	+11 50.3	1.302	1.637	38.4	21.5	89 W	49*	52
7 30	2 4.57	+13 8.3	1.226	1.639	38.2	21.3	93 W	53*	51
8 9	2 23.21	+14 8.5	1.153	1.643	37.6	21.2	98 W	57*	50
8 19	2 40.00	+14 49.2	1.082	1.650	36.5	21.0	104 W	60*	49
8 29	2 54.34	+15 9.2	1.014	1.660	34.8	20.9	110 W	60	49
9 8	3 5.67	+15 7.8	0.950	1.671	32.4	20.7	117 W	60	49
9 18	3 13.32	+14 44.7	0.892	1.686	29.1	20.5	125 W	60	49
9 28	3 16.75	+14 0.4	0.843	1.702	24.9	20.2	134 W	59	50
10 8	3 15.77	+12 57.6	0.805	1.720	19.7	20.0	145 W	58	51
10 13	3 13.67	+12 20.6	0.792	1.729	16.8	19.9	150 W	57	52
10 18	3 10.63	+11 41.0	0.783	1.740	13.7	19.8	156 W	57	52
10 23	3 6.79	+11 0.1	0.778	1.750	10.5	19.6	161 W	56	53
10 28	3 2.39	+10 19.4	0.779	1.761	7.4	19.5	167 W	55	54
11 2	2 57.64	+ 9 40.1	0.785	1.772	4.8	19.4	171 W	55	54
11 7	2 52.80	+ 9 3.9	0.796	1.784	4.0	19.4	173 W	54	55
11 12	2 48.10	+ 8 32.0	0.813	1.796	5.8	19.6	170 E	54	55
11 17	2 43.79	+ 8 5.5	0.836	1.808	8.4	19.8	164 E	53	56
11 22	2 40.07	+ 7 45.2	0.864	1.820	11.3	20.0	159 E	53	56
11 27	2 37.07	+ 7 31.6	0.897	1.833	14.0	20.2	153 E	53	56
12 7	2 33.61	+ 7 24.6	0.977	1.859	18.7	20.6	143 E	52	57
12 17	2 33.67	+ 7 42.1	1.073	1.886	22.5	20.9	133 E	53	56
12 27	2 37.15	+ 8 20.0	1.183	1.914	25.2	21.2	124 E	53	56
1 6	2 43.62	+ 9 13.1	1.302	1.942	27.2	21.5	116 E	54	55

308195 2005 EW_{12}

7 20	1 48.68	+ 9 52.9	1.788	2.037	29.9	21.4	89 W	46*	54
7 30	2 4.74	+11 30.8	1.633	1.982	30.7	21.2	94 W	52*	52
8 9	2 20.64	+13 6.0	1.482	1.927	31.3	20.9	99 W	56*	51
8 19	2 36.27	+14 38.2	1.337	1.873	31.5	20.6	105 W	60*	49
8 29	2 51.39	+16 7.3	1.198	1.819	31.3	20.3	111 W	61	48
9 8	3 5.77	+17 33.7	1.068	1.766	30.7	20.0	117 W	63	46
9 18	3 19.06	+18 57.7	0.946	1.714	29.5	19.6	123 W	64	45
9 28	3 30.77	+20 20.2	0.835	1.665	27.6	19.2	130 W	65	44
10 8	3 40.41	+21 42.1	0.736	1.617	24.9	18.8	137 W	67	42

308195 2005 EW_{12} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 18	3 47.33	+23 3.9	0.649	1.572	21.4	18.4	145 W	68	41
10 28	3 51.02	+24 25.4	0.576	1.531	16.8	17.9	154 W	69	40
11 7	3 51.33	+25 44.7	0.518	1.493	11.4	17.4	163 W	71	38
11 12	3 50.32	+26 22.3	0.494	1.476	8.6	17.2	167 W	71	38
11 17	3 48.71	+26 57.5	0.475	1.460	6.1	17.0	171 W	72	37
11 22	3 46.75	+27 29.9	0.461	1.446	5.1	16.8	173 E	72	37
11 27	3 44.72	+27 59.0	0.450	1.432	6.3	16.8	171 E	73	36
12 2	3 42.93	+28 24.6	0.443	1.421	9.0	16.9	167 E	73	36
12 7	3 41.68	+28 46.7	0.440	1.411	12.2	17.0	162 E	74	35
12 12	3 41.27	+29 5.5	0.440	1.402	15.4	17.1	158 E	74	35
12 17	3 41.95	+29 21.4	0.444	1.395	18.6	17.2	153 E	74	35
12 22	3 43.94	+29 35.2	0.452	1.390	21.5	17.3	149 E	75	34
12 27	3 47.33	+29 47.2	0.462	1.386	24.2	17.5	145 E	75	34
1 1	3 52.15	+29 57.9	0.475	1.385	26.7	17.6	141 E	75	34
1 6	3 58.36	+30 7.1	0.491	1.384	28.8	17.7	137 E	75	34
1 11	4 5.89	+30 15.0	0.509	1.386	30.8	17.9	134 E	75	34
1 16	4 14.66	+30 21.2	0.530	1.390	32.4	18.0	131 E	75	34

447146 2005 GZ_{25}

7 20	1 51.77	− 3 28.8	1.234	1.635	38.4	21.5	93 W	34*	67
7 30	2 6.01	− 1 14.4	1.147	1.633	38.0	21.3	98 W	40*	65
8 9	2 18.14	+ 1 0.1	1.061	1.631	37.1	21.1	104 W	45*	63
8 19	2 27.62	+ 3 16.5	0.977	1.631	35.6	20.9	110 W	48*	61
8 29	2 33.76	+ 5 37.2	0.897	1.632	33.3	20.6	118 W	51	58
9 8	2 35.79	+ 8 5.0	0.823	1.633	29.9	20.3	126 W	53	56
9 18	2 32.83	+10 41.2	0.758	1.636	25.3	20.0	136 W	56	53
9 28	2 24.23	+13 24.2	0.706	1.639	19.5	19.7	147 W	58	51
10 3	2 17.82	+14 46.4	0.686	1.641	16.2	19.5	153 W	60	49
10 8	2 10.14	+16 7.3	0.672	1.644	12.6	19.4	159 W	61	48
10 13	2 1.40	+17 24.9	0.662	1.646	9.1	19.2	165 W	62	47
10 18	1 51.91	+18 37.5	0.659	1.649	6.2	19.1	170 W	64	45
10 23	1 42.10	+19 43.6	0.661	1.652	5.2	19.0	171 E	65	44
10 28	1 32.42	+20 42.5	0.670	1.655	7.0	19.1	168 E	66	43
11 2	1 23.29	+21 33.8	0.684	1.658	10.1	19.3	163 E	67	42
11 7	1 15.06	+22 18.0	0.704	1.662	13.5	19.5	157 E	67	42
11 12	1 8.03	+22 56.0	0.729	1.666	16.7	19.7	151 E	68	41
11 17	1 2.39	+23 29.2	0.758	1.670	19.6	19.9	145 E	68	41
11 22	0 58.24	+23 59.1	0.792	1.674	22.3	20.1	140 E	69	40
11 27	0 55.60	+24 27.2	0.829	1.678	24.6	20.3	135 E	69	40
12 2	0 54.41	+24 54.5	0.869	1.682	26.7	20.4	130 E	70	39
12 7	0 54.60	+25 21.9	0.912	1.687	28.4	20.6	125 E	70	39
12 12	0 56.06	+25 50.0	0.957	1.691	29.9	20.7	121 E	71	38
12 17	0 58.70	+26 19.2	1.004	1.696	31.1	20.9	117 E	71	38
12 22	1 2.43	+26 49.9	1.052	1.701	32.1	21.0	113 E	72	37*
12 27	1 7.14	+27 22.2	1.102	1.706	32.9	21.2	110 E	72	36*
1 1	1 12.74	+27 56.0	1.153	1.711	33.5	21.3	106 E	73	35*
1 6	1 19.13	+28 31.2	1.204	1.716	33.9	21.4	103 E	74	33*
1 11	1 26.26	+29 7.6	1.256	1.721	34.3	21.5	100 E	74	32*

513022 2017 VD_1

7 20	2 4.71	+11 44.5	1.408	1.653	37.7	21.5	84 W	46*	52
7 30	2 22.61	+13 56.5	1.338	1.666	37.5	21.4	89 W	52*	50
8 9	2 38.93	+15 58.9	1.268	1.681	37.0	21.2	94 W	58*	48
8 19	2 53.22	+17 51.6	1.198	1.698	35.9	21.1	100 W	62*	46
8 29	3 4.96	+19 34.5	1.130	1.717	34.3	21.0	107 W	65	44
9 8	3 13.56	+21 7.5	1.065	1.737	32.0	20.8	114 W	66	43
9 18	3 18.36	+22 29.9	1.005	1.759	29.0	20.6	122 W	67	42
9 28	3 18.76	+23 39.7	0.953	1.782	25.0	20.4	131 W	69	40
10 8	3 14.52	+24 33.6	0.913	1.806	20.1	20.2	142 W	70	39
10 13	3 10.72	+24 53.2	0.898	1.818	17.3	20.1	147 W	70	39
10 18	3 5.92	+25 7.0	0.887	1.831	14.4	20.0	153 W	70	39
10 23	3 0.31	+25 14.6	0.882	1.844	11.4	19.9	158 W	70	39
10 28	2 54.13	+25 16.1	0.882	1.857	8.5	19.8	164 W	70	39
11 2	2 47.67	+25 11.5	0.887	1.870	6.0	19.7	169 W	70	39
11 7	2 41.19	+25 1.7	0.898	1.884	4.7	19.6	171 E	70	39
11 12	2 34.99	+24 47.4	0.916	1.897	5.6	19.7	169 E	70	39
11 17	2 29.32	+24 30.0	0.939	1.911	7.7	19.9	165 E	70	39
11 22	2 24.40	+24 11.0	0.968	1.924	10.3	20.1	160 E	69	40
11 27	2 20.39	+23 51.7	1.002	1.938	12.8	20.3	154 E	69	40
12 2	2 17.38	+23 33.5	1.041	1.952	15.2	20.5	149 E	69	40
12 7	2 15.39	+23 17.2	1.085	1.966	17.4	20.7	143 E	68	41
12 12	2 14.43	+23 3.7	1.134	1.980	19.4	20.8	138 E	68	41
12 17	2 14.48	+22 53.3	1.186	1.994	21.1	21.0	133 E	68	41
12 22	2 15.49	+22 46.6	1.242	2.008	22.6	21.2	128 E	68	41
12 27	2 17.40	+22 43.4	1.302	2.021	23.8	21.3	124 E	68	41
1 1	2 20.13	+22 43.7	1.363	2.035	24.9	21.5	119 E	68	41

430777 2004 TS_{10}

7 20	2 11.34	+15 10.1	1.738	1.882	32.3	21.4	82 W	48*	49
7 25	2 21.63	+15 12.9	1.669	1.863	32.8	21.3	84 W	50*	49
7 30	2 31.94	+15 9.9	1.601	1.844	33.3	21.2	87 W	52*	49
8 4	2 42.28	+15 0.7	1.534	1.825	33.8	21.1	89 W	54*	49
8 9	2 52.63	+14 44.7	1.468	1.806	34.1	21.0	91 W	55*	49
8 14	3 2.95	+14 21.2	1.404	1.787	34.4	20.9	94 W	56*	50
8 19	3 13.21	+13 49.5	1.340	1.769	34.6	20.8	97 W	57*	50
8 24	3 23.39	+13 8.9	1.278	1.751	34.8	20.7	99 W	57*	51
8 29	3 33.43	+12 18.9	1.218	1.733	34.8	20.6	102 W	57*	52
9 3	3 43.31	+11 18.7	1.160	1.715	34.7	20.4	104 W	56*	53
9 8	3 52.97	+10 7.8	1.103	1.698	34.6	20.3	107 W	55	54
9 13	4 2.36	+ 8 45.4	1.050	1.681	34.3	20.2	110 W	54	55
9 18	4 11.41	+ 7 11.1	0.999	1.664	33.9	20.0	112 W	52	57
9 28	4 28.21	+ 3 25.9	0.906	1.633	32.9	19.7	118 W	48	61
10 8	4 42.83	− 1 6.8	0.826	1.603	31.6	19.5	123 W	44	65
10 18	4 54.63	− 6 20.0	0.761	1.576	30.3	19.2	127 W	39	70
10 23	4 59.27	− 9 6.9	0.735	1.564	29.7	19.1	129 W	36	73
10 28	5 3.01	−11 56.9	0.712	1.552	29.2	19.0	130 W	33	76
11 2	5 5.80	−14 46.6	0.694	1.541	28.9	18.9	131 W	30	79
11 7	5 7.61	−17 32.2	0.680	1.531	28.8	18.9	132 W	27	82
11 12	5 8.45	−20 9.8	0.669	1.522	28.8	18.8	132 W	25	84
11 17	5 8.36	−22 35.4	0.662	1.514	29.0	18.8	132 W	22	87
11 22	5 7.43	−24 45.1	0.659	1.507	29.5	18.8	131 W	20	89
11 27	5 5.83	−26 36.1	0.658	1.500	30.0	18.8	131 W	18	89
12 2	5 3.73	−28 6.3	0.660	1.495	30.6	18.8	129 W	17	88
12 7	5 1.33	−29 14.1	0.665	1.490	31.3	18.8	128 W	16	87
12 12	4 58.86	−29 58.9	0.671	1.487	32.0	18.9	127 E	15	86
12 17	4 56.56	−30 20.7	0.679	1.484	32.7	18.9	125 E	15	86
12 22	4 54.68	−30 20.0	0.690	1.483	33.4	18.9	124 E	15	86
12 27	4 53.42	−29 58.4	0.701	1.483	34.0	19.0	122 E	15	86
1 1	4 52.91	−29 17.7	0.714	1.484	34.6	19.1	121 E	16	87
1 6	4 53.27	−28 19.7	0.728	1.486	35.1	19.1	120 E	17	88
1 11	4 54.55	−27 6.4	0.744	1.489	35.5	19.2	118 E	18	89
1 16	4 56.80	−25 39.7	0.761	1.492	35.9	19.2	117 E	19	90

141851 2002 PM_6

7 20	2 24.16	+32 50.7	1.633	1.664	35.9	21.3	74 W	58*	31*
7 25	2 34.93	+34 27.2	1.539	1.620	37.4	21.2	76 W	61*	30*
7 30	2 46.61	+36 9.2	1.444	1.574	39.0	21.0	77 W	65*	28
8 4	2 59.47	+37 57.4	1.349	1.526	40.8	20.9	79 W	68*	26
8 9	3 13.90	+39 52.4	1.255	1.475	42.7	20.7	80 W	71*	24
8 14	3 30.43	+41 54.7	1.162	1.421	44.8	20.5	81 W	73*	22
8 19	3 49.78	+44 3.9	1.071	1.365	47.2	20.3	82 W	75*	20
8 21	3 58.55	+44 57.1	1.035	1.342	48.3	20.2	82 W	75*	19*
8 23	4 8.02	+45 51.0	0.999	1.318	49.4	20.1	82 W	76*	18*
8 25	4 18.30	+46 45.2	0.964	1.293	50.7	20.1	82 W	76*	17*
8 27	4 29.50	+47 39.3	0.930	1.268	52.0	20.0	82 W	76*	16*
8 29	4 41.75	+48 32.5	0.897	1.243	53.4	19.9	81 W	75*	15*
8 31	4 55.19	+49 24.2	0.864	1.217	54.9	19.8	81 W	75*	14*
9 2	5 9.96	+50 13.0	0.832	1.190	56.6	19.7	80 W	74*	13*
9 4	5 26.22	+50 57.7	0.802	1.163	58.3	19.6	79 W	73*	12*
9 6	5 44.09	+51 36.2	0.772	1.135	60.3	19.6	78 W	71*	11*
9 8	6 3.67	+52 6.3	0.744	1.107	62.4	19.5	77 W	70*	10*
9 10	6 25.00	+52 25.0	0.717	1.078	64.6	19.4	75 W	68*	9*
9 12	6 48.00	+52 29.3	0.692	1.048	67.1	19.4	74 W	66*	8*
9 14	7 12.49	+52 15.5	0.670	1.017	69.8	19.3	72 W	64*	7*
9 16	7 38.13	+51 40.3	0.649	0.986	72.6	19.3	69 W	62*	6*
9 18	8 4.43	+50 40.7	0.631	0.954	75.7	19.2	67 W	59*	5*
9 19	8 17.67	+50 0.9	0.623	0.937	77.2	19.2	66 W	58*	5*
9 20	8 30.85	+49 14.4	0.616	0.921	78.9	19.2	64 W	56*	4*
9 21	8 43.92	+48 20.9	0.610	0.904	80.6	19.2	63 W	55*	4*
9 22	8 56.81	+47 20.5	0.604	0.887	82.3	19.2	61 W	53*	3*
9 23	9 9.44	+46 13.4	0.599	0.870	84.0	19.2	60 W	52*	3*
9 24	9 21.78	+44 59.7	0.596	0.852	85.8	19.2	58 W	50*	2*
9 25	9 33.77	+43 39.7	0.593	0.834	87.6	19.3	56 W	49*	2*
9 26	9 45.38	+42 13.9	0.591	0.816	89.4	19.3	54 W	47*	2*
9 27	9 56.59	+40 42.6	0.590	0.798	91.2	19.3	53 W	45*	1*
9 28	10 7.37	+39 6.3	0.591	0.779	93.0	19.3	51 W	44*	1*
9 30	10 27.64	+35 41.3	0.595	0.741	96.5	19.4	47 W	40*	1*
10 2	10 46.20	+32 3.5	0.603	0.702	99.9	19.5	44 W	37*	—
10 4	11 3.16	+28 17.5	0.616	0.662	103.0	19.5	40 W	33*	—
10 6	11 18.65	+24 27.7	0.634	0.620	105.8	19.6	37 W	30*	—
10 8	11 32.85	+20 37.6	0.657	0.577	108.1	19.6	33 W	27*	—
10 10	11 45.98	+16 50.1	0.684	0.532	109.7	19.7	30 W	24*	—
10 12	11 58.23	+13 6.8	0.718	0.486	110.6	19.6	27 W	21*	1*
10 14	12 9.86	+ 9 28.6	0.756	0.438	110.5	19.5	24 W	18*	1*
10 16	12 21.13	+ 5 55.3	0.801	0.388	109.0	19.3	22 W	16*	2*
10 18	12 32.41	+ 2 25.6	0.851	0.338	105.5	18.9	19 W	13*	2*
10 20	12 44.20	− 1 2.4	0.909	0.287	99.0	18.4	17 W	10*	2*

141851 2002 PM_6 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 22	12 57.26	− 4 31.9	0.974	0.239	88.1	17.6	14 W	7*	2*
10 24	13 12.74	− 8 4.9	1.043	0.200	70.4	16.8	11 W	4*	2*
10 26	13 31.84	−11 36.5	1.111	0.180	45.7	15.9	7 W	—	—
10 28	13 54.28	−14 49.1	1.166	0.190	22.3	15.5	4 W	—	—
10 29	14 6.08	−16 12.2	1.187	0.204	16.4	15.5	3 W	—	—
10 30	14 17.88	−17 25.7	1.205	0.223	16.5	15.7	4 E	—	—
10 31	14 29.53	−18 30.0	1.220	0.245	19.9	16.1	5 E	—	—
11 1	14 40.91	−19 26.1	1.233	0.269	23.7	16.4	6 E	—	—
11 2	14 52.00	−20 15.0	1.245	0.294	27.0	16.7	8 E	—	1*
11 3	15 2.79	−20 57.5	1.256	0.319	29.7	17.0	9 E	—	3*
11 4	15 13.26	−21 34.4	1.267	0.344	31.9	17.3	11 E	—	4*
11 5	15 23.44	−22 6.4	1.278	0.370	33.6	17.5	12 E	—	6*
11 6	15 33.33	−22 34.0	1.289	0.395	34.8	17.7	13 E	—	7*
11 7	15 42.94	−22 57.7	1.301	0.419	35.8	17.8	14 E	—	8*
11 9	16 1.35	−23 34.8	1.324	0.468	36.9	18.2	16 E	—	10*
11 11	16 18.74	−24 0.3	1.349	0.515	37.4	18.4	18 E	1*	12*
11 13	16 35.17	−24 16.4	1.375	0.560	37.3	18.6	20 E	2*	14*
11 15	16 50.69	−24 24.5	1.403	0.604	37.0	18.8	22 E	3*	15*
11 17	17 5.36	−24 26.0	1.431	0.646	36.4	19.0	23 E	4*	16*
11 19	17 19.22	−24 22.1	1.462	0.687	35.7	19.2	24 E	5*	17*
11 21	17 32.32	−24 13.8	1.493	0.727	34.9	19.3	25 E	6*	18*
11 23	17 44.73	−24 1.7	1.525	0.765	34.0	19.4	26 E	7*	18*
11 25	17 56.47	−23 46.6	1.558	0.803	33.0	19.6	26 E	8*	19*
11 27	18 7.60	−23 29.0	1.591	0.839	32.1	19.7	27 E	9*	19*
12 2	18 33.04	−22 37.0	1.677	0.925	29.6	19.9	28 E	10*	19*
12 7	18 55.56	−21 37.6	1.765	1.006	27.3	20.2	28 E	12*	19*
12 12	19 15.68	−20 34.1	1.853	1.081	24.9	20.4	28 E	13*	18*
12 17	19 33.83	−19 28.5	1.941	1.153	22.7	20.5	27 E	13*	16*
12 22	19 50.34	−18 22.2	2.027	1.220	20.6	20.7	26 E	14*	14*
12 27	20 5.50	−17 15.8	2.111	1.284	18.6	20.8	25 E	14*	13*
1 1	20 19.53	−16 9.7	2.192	1.345	16.7	20.9	23 E	13*	10*
1 6	20 32.60	−15 4.2	2.271	1.402	14.8	21.0	21 E	13*	8*
1 11	20 44.86	−13 59.4	2.346	1.456	13.1	21.1	20 E	12*	6*
1 16	20 56.44	−12 55.2	2.417	1.508	11.4	21.2	18 E	10*	4*

357023 1999 YZ_3

7 20	2 41.73	− 2 42.8	2.622	2.657	22.2	21.5	81 W	29*	66*
7 30	2 51.21	− 1 57.1	2.459	2.617	22.8	21.3	87 W	35*	66*
8 9	2 59.48	− 1 17.4	2.294	2.578	23.1	21.2	94 W	40*	65
8 19	3 6.25	− 0 43.4	2.130	2.538	23.0	21.0	102 W	43*	65
8 29	3 11.12	− 0 14.2	1.969	2.497	22.4	20.7	110 W	45	64
9 8	3 13.67	+ 0 12.0	1.815	2.456	21.2	20.5	118 W	45	64
9 18	3 13.43	+ 0 37.2	1.670	2.414	19.4	20.2	127 W	46	63
9 28	3 9.92	+ 1 4.5	1.538	2.372	16.7	19.9	137 W	46	63
10 8	3 2.84	+ 1 38.0	1.423	2.330	13.2	19.6	148 W	47	62
10 18	2 52.16	+ 2 22.0	1.331	2.288	9.1	19.2	159 W	47	62
10 28	2 38.45	+ 3 20.6	1.265	2.246	5.3	18.9	168 W	48	61
11 7	2 22.95	+ 4 36.3	1.227	2.204	5.9	18.8	167 E	50	59
11 17	2 7.35	+ 6 9.0	1.220	2.162	10.6	19.0	156 E	51	58
11 27	1 53.53	+ 7 56.6	1.240	2.120	15.8	19.2	144 E	53	56
12 7	1 42.88	+ 9 56.0	1.283	2.079	20.5	19.3	132 E	55	54
12 17	1 36.18	+12 4.1	1.344	2.038	24.3	19.5	121 E	57	52
12 27	1 33.63	+14 19.2	1.416	1.998	27.3	19.7	111 E	59	50*
1 6	1 35.06	+16 39.9	1.496	1.959	29.3	19.8	102 E	62	46*
1 16	1 40.12	+19 5.3	1.578	1.921	30.7	19.9	94 E	64	41*

5879 Almeria

7 20	3 19.66	+ 1 54.1	1.852	1.787	32.4	21.5	70 W	27*	58*
7 30	3 42.54	+ 1 38.0	1.733	1.753	33.9	21.3	74 W	31*	59*
8 9	4 5.76	+ 1 3.4	1.617	1.717	35.2	21.2	78 W	35*	61*
8 19	4 29.27	+ 0 8.8	1.503	1.680	36.5	21.0	81 W	37*	62*
8 29	4 52.97	− 1 7.2	1.393	1.642	37.8	20.8	85 W	39*	64*
9 8	5 16.80	− 2 44.7	1.287	1.603	38.9	20.6	88 W	40*	66*
9 18	5 40.65	− 4 43.9	1.186	1.563	40.0	20.4	91 W	39*	68*
9 28	6 4.40	− 7 3.2	1.091	1.523	41.1	20.2	93 W	38*	71*
10 8	6 27.98	− 9 40.3	1.001	1.482	42.2	20.0	96 W	35	73*
10 13	6 39.69	−11 4.5	0.958	1.461	42.7	19.9	97 W	34	75*
10 18	6 51.31	−12 31.6	0.917	1.441	43.3	19.8	98 W	32	76*
10 23	7 2.86	−14 1.0	0.877	1.421	43.8	19.7	99 W	31	78*
10 28	7 14.33	−15 31.8	0.837	1.401	44.4	19.6	99 W	29	80
11 2	7 25.74	−17 3.2	0.799	1.381	45.0	19.4	100 W	28	81
11 7	7 37.09	−18 34.4	0.762	1.362	45.6	19.3	101 W	26	83
11 12	7 48.40	−20 4.3	0.726	1.342	46.2	19.2	102 W	25	84
11 17	7 59.65	−21 31.7	0.691	1.324	46.8	19.1	103 W	23	86
11 22	8 10.89	−22 55.5	0.656	1.306	47.4	19.0	103 W	22	87
11 27	8 22.16	−24 14.0	0.621	1.288	48.0	18.8	104 W	21	88
12 2	8 33.51	−25 26.1	0.588	1.271	48.5	18.7	105 W	20	89
12 7	8 44.97	−26 30.0	0.554	1.255	49.0	18.5	106 W	19	90
12 12	8 56.61	−27 23.9	0.521	1.240	49.5	18.4	107 W	18	89

5879 Almeria *(continuation)*

12 17	9 8.47	−28 5.3	0.488	1.226	49.8	18.2	108 W	17	88
12 22	9 20.65	−28 31.2	0.455	1.213	50.0	18.1	109 W	16	87
12 27	9 33.24	−28 38.1	0.423	1.200	50.0	17.9	111 W	16	87
1 1	9 46.35	−28 21.8	0.391	1.190	49.7	17.7	113 W	17	88
1 6	10 0.07	−27 36.8	0.359	1.180	49.1	17.5	115 W	17	88
1 11	10 14.46	−26 15.7	0.329	1.172	48.1	17.2	117 W	19	90
1 16	10 29.57	−24 9.1	0.300	1.165	46.6	17.0	121 W	21	88

138843 2000 VF_{39}

7 20	3 24.88	− 7 14.8	1.513	1.550	38.7	21.5	73 W	19*	64*
7 30	3 40.41	− 5 21.0	1.452	1.573	39.0	21.4	77 W	26*	66*
8 9	3 54.12	− 3 32.8	1.384	1.596	39.0	21.4	82 W	32*	66*
8 19	4 5.74	− 1 47.8	1.307	1.618	38.7	21.3	87 W	38*	66*
8 29	4 14.86	− 0 2.6	1.225	1.640	37.9	21.1	94 W	43*	64
9 8	4 20.94	+ 1 47.5	1.139	1.661	36.5	21.0	101 W	47*	62
9 18	4 23.24	+ 3 47.8	1.051	1.681	34.3	20.8	110 W	49	60
9 28	4 20.79	+ 6 5.1	0.966	1.700	30.9	20.5	119 W	51	58
10 8	4 12.59	+ 8 45.6	0.890	1.719	26.1	20.2	131 W	54	55
10 18	3 57.78	+11 51.7	0.828	1.736	19.7	19.9	144 W	57	52
10 23	3 47.84	+13 32.8	0.805	1.745	15.9	19.7	151 W	59	50
10 28	3 36.37	+15 17.0	0.789	1.753	11.8	19.5	159 W	60	49
11 2	3 23.68	+17 1.6	0.780	1.760	7.4	19.3	167 W	62	47
11 7	3 10.15	+18 43.5	0.779	1.768	3.1	19.1	174 W	64	45
11 12	2 56.29	+20 19.6	0.786	1.775	2.3	19.1	176 E	65	44
11 17	2 42.65	+21 47.7	0.802	1.782	6.3	19.4	169 E	67	42
11 22	2 29.78	+23 6.7	0.826	1.789	10.4	19.6	161 E	68	41
11 27	2 18.12	+24 16.6	0.857	1.795	14.1	19.8	154 E	69	40
12 2	2 7.96	+25 18.1	0.894	1.801	17.5	20.1	147 E	70	39
12 7	1 59.47	+26 12.6	0.937	1.806	20.5	20.3	140 E	71	38
12 12	1 52.71	+27 1.8	0.985	1.812	23.1	20.5	134 E	72	37
12 17	1 47.66	+27 47.1	1.036	1.817	25.2	20.6	128 E	73	36
12 22	1 44.24	+28 30.1	1.091	1.821	27.0	20.8	123 E	74	35
12 27	1 42.33	+29 11.8	1.148	1.825	28.5	21.0	118 E	74	35
1 1	1 41.80	+29 53.1	1.207	1.829	29.7	21.1	113 E	75	34*
1 6	1 42.52	+30 34.3	1.268	1.833	30.6	21.2	108 E	76	33*
1 11	1 44.37	+31 16.1	1.329	1.836	31.3	21.4	104 E	76	31*
1 16	1 47.25	+31 58.6	1.390	1.839	31.8	21.5	100 E	77	29*

489541 2007 RL_{204}

7 20	3 30.71	+11 38.4	2.282	2.059	26.4	21.5	64 W	32*	48*
7 30	3 51.97	+11 2.4	2.140	2.015	28.1	21.3	69 W	37*	50*
8 9	4 13.48	+10 4.5	2.001	1.971	29.6	21.2	74 W	41*	52*
8 19	4 35.12	+ 8 41.9	1.864	1.929	30.9	21.0	78 W	44*	54*
8 29	4 56.74	+ 6 52.2	1.733	1.888	32.0	20.8	82 W	46*	56*
9 8	5 18.15	+ 4 33.5	1.608	1.848	33.0	20.7	87 W	47*	59*
9 18	5 39.14	+ 1 44.3	1.491	1.810	33.7	20.5	91 W	46*	62*
9 28	5 59.44	− 1 35.3	1.384	1.774	34.3	20.3	95 W	43*	65*
10 8	6 18.77	− 5 23.4	1.286	1.740	34.6	20.1	98 W	40	69*
10 13	6 27.98	− 7 27.1	1.242	1.724	34.7	20.0	100 W	38	71
10 18	6 36.80	− 9 36.3	1.200	1.709	34.8	19.9	102 W	35	74
10 23	6 45.20	−11 49.9	1.161	1.694	34.9	19.8	103 W	33	76
10 28	6 53.14	−14 7.0	1.125	1.681	34.9	19.7	105 W	31	78
11 2	7 0.56	−16 26.1	1.092	1.668	34.8	19.6	106 W	29	80
11 7	7 7.41	−18 46.1	1.062	1.656	34.8	19.6	107 W	26	83
11 12	7 13.63	−21 5.3	1.034	1.645	34.8	19.5	109 W	24	85
11 17	7 19.16	−23 22.1	1.008	1.634	34.7	19.4	110 W	22	87
11 22	7 23.94	−25 34.6	0.985	1.625	34.6	19.4	111 W	19	90
11 27	7 27.95	−27 41.1	0.964	1.617	34.5	19.3	112 W	17	88
12 2	7 31.14	−29 39.7	0.945	1.610	34.3	19.2	113 W	15	86
12 7	7 33.49	−31 28.7	0.927	1.604	34.1	19.2	114 W	14	85
12 12	7 34.97	−33 6.2	0.912	1.599	33.9	19.1	115 W	12	83
12 17	7 35.60	−34 30.2	0.897	1.595	33.7	19.1	116 W	10	81
12 22	7 35.44	−35 39.0	0.884	1.592	33.4	19.0	117 W	9	80
12 27	7 34.58	−36 30.9	0.873	1.591	33.1	19.0	118 W	8	79
1 1	7 33.15	−37 4.7	0.862	1.590	32.8	19.0	119 W	8	79
1 6	7 31.29	−37 19.2	0.853	1.591	32.4	18.9	120 W	8	79
1 11	7 29.19	−37 13.4	0.845	1.593	32.0	18.9	121 E	8	79
1 16	7 27.06	−36 46.7	0.839	1.596	31.5	18.9	122 E	8	79

282347 2003 AZ_{22}

7 20	4 0.09	+39 0.1	3.428	2.944	16.2	21.5	54 W	44*	20*
7 30	4 15.42	+40 6.1	3.305	2.927	17.4	21.4	60 W	51*	21*
8 9	4 30.23	+41 9.9	3.175	2.910	18.5	21.4	66 W	58*	21*
8 19	4 44.32	+42 12.2	3.037	2.892	19.5	21.3	72 W	65*	21*
8 29	4 57.43	+43 13.5	2.894	2.873	20.2	21.2	79 W	72*	20*
9 8	5 9.24	+44 14.4	2.748	2.853	20.6	21.1	86 W	79*	20*
9 18	5 19.40	+45 15.7	2.600	2.832	20.8	21.0	93 W	87*	19
9 28	5 27.43	+46 17.6	2.453	2.810	20.5	20.8	100 W	89	18
10 8	5 32.83	+47 20.0	2.310	2.787	19.9	20.6	108 W	88	17
10 18	5 34.99	+48 21.5	2.173	2.764	18.8	20.5	116 W	87	16

282347 2003 AZ_{22} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 23	5 34.66	+48 51.0	2.108	2.752	18.1	20.4	121 W	86	15
10 28	5 33.32	+49 18.9	2.046	2.739	17.3	20.3	125 W	86	15
11 2	5 30.92	+49 44.4	1.988	2.727	16.4	20.2	129 W	85	14
11 7	5 27.43	+50 6.6	1.934	2.714	15.3	20.0	134 W	85	14
11 12	5 22.85	+50 24.5	1.885	2.701	14.2	19.9	138 W	85	14
11 17	5 17.25	+50 36.8	1.840	2.688	13.1	19.8	142 W	84	13
11 22	5 10.73	+50 42.2	1.801	2.675	12.0	19.7	146 W	84	13
11 27	5 3.46	+50 39.9	1.768	2.661	11.1	19.7	149 W	84	13
12 2	4 55.68	+50 28.8	1.741	2.648	10.4	19.6	151 W	85	14
12 7	4 47.64	+50 8.7	1.721	2.634	10.0	19.5	152 E	85	14
12 12	4 39.61	+49 39.3	1.707	2.620	10.0	19.5	152 E	85	14
12 17	4 31.89	+49 1.0	1.700	2.605	10.5	19.5	151 E	86	15
12 22	4 24.75	+48 14.9	1.700	2.591	11.4	19.5	149 E	87	16
12 27	4 18.39	+47 22.3	1.706	2.576	12.5	19.6	145 E	88	17
1 1	4 12.99	+46 24.7	1.718	2.561	13.8	19.6	141 E	89	18
1 6	4 8.64	+45 23.6	1.736	2.546	15.2	19.7	137 E	90	19
1 11	4 5.39	+44 20.7	1.759	2.531	16.6	19.7	133 E	89	20
1 16	4 3.26	+43 17.4	1.787	2.516	17.9	19.8	128 E	88	21

308043 2004 TH_{10}

7 20	4 20.76	+50 58.7	0.275	0.874	113.8	19.9	52 W	46*	8*
7 21	4 6.53	+52 37.1	0.268	0.890	110.6	19.7	55 W	49*	8*
7 22	3 50.58	+54 12.9	0.262	0.907	107.3	19.5	59 W	52*	7*
7 23	3 32.74	+55 43.9	0.256	0.924	103.9	19.3	62 W	56*	7*
7 24	3 12.83	+57 7.5	0.251	0.940	100.4	19.1	65 W	59*	6*
7 25	2 50.76	+58 21.0	0.247	0.956	96.9	18.9	69 W	63*	6*
7 26	2 26.58	+59 21.0	0.243	0.972	93.4	18.8	73 W	66*	5
7 27	2 0.53	+60 4.3	0.240	0.988	89.8	18.6	77 W	69*	4
7 28	1 33.07	+60 28.0	0.238	1.003	86.2	18.5	80 W	72*	4
7 29	1 4.86	+60 30.2	0.237	1.018	82.6	18.4	84 W	74*	4
7 30	0 36.70	+60 9.8	0.236	1.034	79.0	18.3	88 W	75	4
7 31	0 9.39	+59 27.5	0.237	1.049	75.4	18.2	92 W	76	5
8 1	23 43.58	+58 25.0	0.238	1.063	71.9	18.1	95 W	77	6
8 2	23 19.73	+57 5.0	0.240	1.078	68.4	18.1	99 W	78	7
8 3	22 58.07	+55 30.7	0.243	1.093	65.1	18.0	102 W	79	8
8 4	22 38.63	+53 45.5	0.246	1.107	61.9	18.0	106 W	81	10
8 5	22 21.33	+51 52.5	0.251	1.121	58.8	18.0	109 W	83	12
8 6	22 6.00	+49 54.6	0.256	1.135	55.9	17.9	112 W	85	14
8 7	21 52.45	+47 54.0	0.261	1.149	53.2	17.9	115 W	87	16
8 8	21 40.47	+45 52.7	0.268	1.163	50.6	17.9	118 W	89	18
8 9	21 29.86	+43 52.4	0.275	1.176	48.2	18.0	120 W	89	20
8 10	21 20.45	+41 54.0	0.283	1.190	45.9	18.0	123 W	87	22
8 11	21 12.09	+39 58.6	0.291	1.203	43.8	18.0	125 E	85	24
8 12	21 4.63	+38 6.8	0.300	1.216	42.0	18.0	127 E	83	26
8 13	20 57.96	+36 18.8	0.309	1.229	40.2	18.1	128 E	81	28
8 14	20 51.99	+34 35.1	0.319	1.242	38.7	18.1	130 E	80	29
8 15	20 46.62	+32 55.7	0.329	1.255	37.3	18.2	131 E	78	31
8 16	20 41.78	+31 20.7	0.340	1.268	36.0	18.2	133 E	76	33
8 17	20 37.42	+29 50.0	0.351	1.280	34.9	18.3	134 E	75	34
8 18	20 33.48	+28 23.5	0.362	1.292	33.9	18.4	135 E	73	36
8 19	20 29.91	+27 1.1	0.374	1.305	33.1	18.4	135 E	72	37
8 21	20 23.75	+24 28.0	0.399	1.329	31.7	18.6	136 E	69	40
8 23	20 18.68	+22 9.3	0.424	1.353	30.7	18.7	137 E	67	42
8 25	20 14.51	+20 3.7	0.451	1.376	30.0	18.9	137 E	65	44
8 27	20 11.09	+18 9.9	0.479	1.399	29.6	19.0	137 E	63	46
8 29	20 8.29	+16 26.4	0.507	1.421	29.4	19.2	136 E	61	48
8 31	20 6.02	+14 52.2	0.537	1.443	29.3	19.3	136 E	60	49
9 2	20 4.22	+13 26.2	0.567	1.464	29.3	19.5	135 E	58	51
9 4	20 2.81	+12 7.6	0.598	1.485	29.4	19.6	134 E	57	52
9 6	20 1.75	+10 55.6	0.629	1.506	29.6	19.8	132 E	56	53
9 8	20 1.00	+ 9 49.4	0.661	1.527	29.8	19.9	131 E	55	54
9 13	20 0.25	+ 7 26.0	0.744	1.576	30.3	20.3	128 E	52	57
9 18	20 0.82	+ 5 28.2	0.829	1.623	30.8	20.6	124 E	50	59
9 23	20 2.44	+ 3 50.9	0.917	1.667	31.3	20.9	120 E	49	60
9 28	20 4.90	+ 2 30.2	1.008	1.710	31.6	21.1	117 E	48	61
10 3	20 8.04	+ 1 23.1	1.099	1.751	31.8	21.4	113 E	46	63

162210 1999 SM_5

7 20	4 27.40	+21 44.1	0.522	0.779	100.8	20.8	49 W	29*	32*
7 25	4 26.98	+22 49.8	0.568	0.818	92.5	20.7	54 W	35*	34*
7 30	4 28.73	+23 50.3	0.610	0.862	85.4	20.7	58 W	40*	34*
8 4	4 31.77	+24 45.8	0.647	0.910	79.3	20.7	62 W	44*	35*
8 9	4 35.46	+25 36.8	0.681	0.960	74.1	20.8	66 W	49*	35*
8 14	4 39.30	+26 23.8	0.709	1.013	69.5	20.8	69 W	53*	35*
8 19	4 42.93	+27 7.2	0.732	1.066	65.4	20.9	73 W	57*	35*
8 24	4 46.04	+27 47.3	0.751	1.121	61.7	20.9	77 W	61*	35*
8 29	4 48.41	+28 24.5	0.766	1.175	58.2	21.0	82 W	65*	35*
9 3	4 49.86	+28 59.2	0.777	1.230	54.9	21.0	86 W	69*	35*
9 8	4 50.22	+29 31.4	0.784	1.285	51.6	21.0	91 W	73*	34
9 13	4 49.33	+30 1.1	0.789	1.339	48.4	21.0	96 W	75*	34
9 18	4 47.05	+30 27.9	0.793	1.393	45.1	21.0	101 W	75	34

162210 1999 SM_5 *(continuation)*

9 23	4 43.26	+30 51.3	0.795	1.446	41.7	21.0	107 W	76	33
9 28	4 37.90	+31 10.4	0.796	1.499	38.2	21.0	112 W	76	33
10 3	4 30.99	+31 24.1	0.799	1.551	34.5	21.0	119 W	76	33
10 8	4 22.58	+31 31.1	0.803	1.603	30.6	21.0	125 W	77	32
10 13	4 12.81	+31 30.0	0.810	1.653	26.7	20.9	132 W	76	33
10 18	4 1.93	+31 19.7	0.820	1.703	22.6	20.9	139 W	76	33
10 23	3 50.29	+30 59.6	0.836	1.752	18.5	20.9	146 W	76	33
10 28	3 38.33	+30 29.8	0.857	1.800	14.4	20.9	153 W	75	34
11 2	3 26.47	+29 51.4	0.884	1.848	10.6	20.8	160 W	75	34
11 7	3 15.13	+29 6.1	0.918	1.894	7.4	20.8	166 W	74	35
11 12	3 4.63	+28 16.0	0.959	1.940	5.4	20.9	169 E	73	36
11 17	2 55.24	+27 23.6	1.007	1.985	5.7	21.1	168 E	72	37
11 22	2 47.13	+26 31.3	1.062	2.030	7.7	21.3	164 E	72	37
11 27	2 40.37	+25 41.2	1.124	2.074	10.0	21.6	159 E	71	38
12 2	2 34.95	+24 54.7	1.191	2.117	12.3	21.8	153 E	70	39
12 7	2 30.80	+24 12.9	1.265	2.159	14.4	22.1	147 E	69	40

415029 2011 UL_{21}

7 20	4 35.97	+41 18.6	3.343	2.755	15.7	21.5	47 W	39*	15*
7 30	4 53.14	+41 44.0	3.192	2.701	17.4	21.4	53 W	45*	16*
8 9	5 10.12	+42 5.5	3.031	2.645	19.1	21.3	58 W	51*	17*
8 19	5 26.80	+42 23.2	2.859	2.586	20.6	21.2	64 W	57*	18*
8 29	5 43.00	+42 37.2	2.679	2.525	22.1	21.0	70 W	64*	19*
9 8	5 58.52	+42 47.7	2.492	2.462	23.5	20.8	77 W	70*	19*
9 18	6 13.12	+42 55.0	2.299	2.397	24.6	20.6	83 W	77*	20*
9 28	6 26.45	+42 59.6	2.103	2.328	25.5	20.4	90 W	84*	20*
10 3	6 32.53	+43 1.0	2.004	2.293	25.8	20.3	93 W	87*	21*
10 8	6 38.13	+43 1.8	1.906	2.258	26.1	20.2	97 W	88	21*
10 13	6 43.19	+43 2.0	1.807	2.221	26.2	20.0	101 W	88	21*
10 18	6 47.60	+43 1.7	1.709	2.184	26.2	19.8	105 W	88	21*
10 23	6 51.28	+43 0.6	1.611	2.146	26.1	19.7	109 W	88	21
10 28	6 54.10	+42 58.5	1.515	2.108	25.8	19.5	113 W	88	21
11 2	6 55.95	+42 55.2	1.420	2.069	25.3	19.3	117 W	88	21
11 7	6 56.66	+42 50.0	1.327	2.029	24.6	19.1	121 W	88	21
11 12	6 56.06	+42 42.2	1.236	1.988	23.7	18.9	126 W	88	21
11 17	6 53.92	+42 30.5	1.148	1.947	22.5	18.6	131 W	88	21
11 22	6 50.05	+42 13.1	1.064	1.905	21.0	18.4	136 W	87	22
11 27	6 44.23	+41 47.5	0.983	1.862	19.1	18.1	142 W	87	22
12 2	6 36.28	+41 10.4	0.907	1.819	16.8	17.8	148 W	86	23
12 7	6 26.05	+40 17.5	0.836	1.774	14.1	17.5	154 W	85	24
12 12	6 13.51	+39 3.5	0.771	1.729	11.2	17.1	160 W	84	25
12 17	5 58.82	+37 22.5	0.713	1.684	8.5	16.8	165 W	82	27
12 22	5 42.39	+35 9.1	0.663	1.637	7.4	16.5	168 E	80	29
12 27	5 24.86	+32 19.8	0.621	1.590	9.7	16.4	164 E	77	32
1 1	5 7.02	+28 54.4	0.588	1.542	14.4	16.4	157 E	74	35
1 6	4 49.68	+24 57.1	0.564	1.494	20.2	16.4	148 E	70	39
1 8	4 43.06	+23 15.2	0.557	1.474	22.7	16.5	145 E	68	41
1 10	4 36.69	+21 30.2	0.552	1.454	25.2	16.5	141 E	67	42
1 12	4 30.58	+19 43.0	0.548	1.435	27.7	16.5	137 E	65	44
1 14	4 24.78	+17 54.4	0.545	1.415	30.3	16.5	134 E	63	46
1 16	4 19.30	+16 4.9	0.543	1.395	32.8	16.6	130 E	61	48

411611 2011 QF_{14}

7 20	4 45.79	+19 59.4	1.608	1.142	38.9	21.5	45 W	25*	31*
7 25	5 8.09	+20 32.1	1.592	1.121	39.4	21.4	44 W	26*	30*
7 30	5 30.73	+20 54.2	1.579	1.102	39.7	21.4	44 W	27*	29*
8 4	5 53.58	+21 4.9	1.571	1.086	39.9	21.3	43 W	27*	27*
8 9	6 16.53	+21 4.1	1.565	1.072	40.0	21.3	43 W	28*	26*
8 14	6 39.42	+20 51.7	1.564	1.061	39.9	21.3	42 W	28*	25*
8 19	7 2.13	+20 28.0	1.565	1.053	39.7	21.3	42 W	29*	24*
8 24	7 24.52	+19 53.6	1.570	1.048	39.5	21.2	41 W	29*	24*
8 29	7 46.48	+19 9.3	1.577	1.047	39.1	21.2	41 W	29*	23*
9 3	8 7.93	+18 16.1	1.586	1.049	38.6	21.2	40 W	30*	22*
9 8	8 28.79	+17 15.1	1.597	1.054	38.2	21.3	40 W	30*	22*
9 13	8 49.03	+16 7.5	1.610	1.062	37.7	21.3	40 W	30*	21*
9 18	9 8.61	+14 54.5	1.624	1.073	37.1	21.3	40 W	30*	21*
9 23	9 27.51	+13 37.2	1.638	1.087	36.6	21.3	40 W	31*	21*
9 28	9 45.72	+12 16.8	1.653	1.104	36.1	21.4	41 W	31*	21*
10 3	10 3.26	+10 54.4	1.668	1.123	35.7	21.4	41 W	31*	21*
10 8	10 20.15	+ 9 30.7	1.682	1.145	35.3	21.5	41 W	32*	21*

376848 2001 RY_{47}

7 20	5 28.34	− 3 1.0	0.437	0.763	113.0	21.4	44 W	1*	38*
7 22	5 23.80	− 2 37.6	0.437	0.778	110.3	21.2	46 W	4*	40*
7 24	5 19.73	− 2 10.0	0.438	0.793	107.6	21.1	48 W	7*	42*
7 26	5 16.10	− 1 38.9	0.439	0.809	105.1	21.0	50 W	10*	44*
7 28	5 12.88	− 1 4.7	0.439	0.824	102.7	21.0	52 W	13*	46*
7 30	5 10.03	− 0 27.9	0.439	0.839	100.4	20.9	54 W	15*	47*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
376848 2001 RY_{47} *(continuation)*									
8 4	5 4.36	+ 1 13.1	0.439	0.876	95.1	20.7	59 W	22*	50*
8 9	5 0.36	+ 3 3.8	0.436	0.912	90.4	20.6	64 W	28*	52*
8 14	4 57.53	+ 5 1.9	0.431	0.947	86.0	20.5	69 W	34*	53*
8 19	4 55.40	+ 7 6.3	0.424	0.980	82.0	20.4	73 W	40*	53*
8 24	4 53.52	+ 9 17.2	0.414	1.011	78.2	20.2	78 W	46*	53*
8 29	4 51.51	+11 35.5	0.401	1.041	74.4	20.1	83 W	51*	52*
9 3	4 48.96	+14 2.6	0.387	1.068	70.7	20.0	88 W	56*	50*
9 8	4 45.44	+16 40.3	0.371	1.094	66.8	19.8	93 W	61*	47
9 13	4 40.39	+19 30.4	0.354	1.118	62.7	19.6	99 W	64*	44
9 18	4 33.18	+22 34.6	0.337	1.140	58.2	19.4	105 W	68	41
9 23	4 23.03	+25 53.0	0.320	1.161	53.4	19.2	112 W	71	38
9 28	4 9.06	+29 23.6	0.304	1.179	48.1	19.0	119 W	74	35
9 30	4 2.20	+30 49.9	0.298	1.186	45.8	18.9	122 W	76	33
10 2	3 54.52	+32 16.5	0.293	1.193	43.5	18.8	125 W	77	32
10 4	3 45.96	+33 42.5	0.288	1.199	41.2	18.7	128 W	79	30
10 6	3 36.50	+35 6.7	0.284	1.205	38.9	18.6	131 W	80	29
10 8	3 26.10	+36 28.0	0.281	1.211	36.5	18.5	134 W	81	28
10 10	3 14.76	+37 44.9	0.278	1.216	34.3	18.5	137 W	83	26
10 12	3 2.53	+38 55.9	0.276	1.221	32.1	18.4	139 W	84	25
10 14	2 49.48	+39 59.5	0.275	1.226	30.0	18.3	142 W	85	24
10 16	2 35.74	+40 54.3	0.275	1.230	28.2	18.3	144 W	86	23
10 18	2 21.49	+41 39.2	0.275	1.235	26.7	18.3	146 W	87	22
10 20	2 6.94	+42 13.2	0.277	1.239	25.6	18.2	148 W	87	22
10 22	1 52.32	+42 36.2	0.280	1.242	24.8	18.3	148 W	88	21
10 24	1 37.88	+42 48.1	0.283	1.245	24.5	18.3	149 E	88	21
10 26	1 23.84	+42 49.6	0.288	1.249	24.6	18.3	148 E	88	21
10 28	1 10.41	+42 41.6	0.293	1.251	25.1	18.4	148 E	88	21
10 30	0 57.74	+42 25.3	0.299	1.254	25.9	18.5	147 E	87	22
11 1	0 45.94	+42 1.9	0.306	1.256	26.9	18.5	145 E	87	22
11 3	0 35.10	+41 33.0	0.314	1.258	28.2	18.6	143 E	87	22
11 5	0 25.23	+40 59.7	0.323	1.259	29.5	18.7	141 E	86	23
11 7	0 16.34	+40 23.3	0.332	1.261	31.0	18.8	139 E	85	24
11 9	0 8.41	+39 44.9	0.341	1.261	32.4	18.9	137 E	85	24
11 11	0 1.40	+39 5.5	0.351	1.262	33.9	19.0	135 E	84	25
11 13	23 55.25	+38 25.9	0.362	1.263	35.3	19.2	132 E	83	26
11 15	23 49.93	+37 46.7	0.373	1.263	36.7	19.3	130 E	83	26
11 17	23 45.36	+37 8.4	0.384	1.262	38.1	19.4	128 E	82	27
11 19	23 41.49	+36 31.6	0.396	1.262	39.4	19.5	126 E	82	27
11 21	23 38.25	+35 56.3	0.408	1.261	40.6	19.6	124 E	81	28
11 23	23 35.60	+35 23.0	0.420	1.260	41.8	19.6	122 E	80	29
11 25	23 33.47	+34 51.7	0.432	1.259	42.9	19.7	120 E	80	29
11 27	23 31.83	+34 22.4	0.445	1.257	44.0	19.8	118 E	79	30
12 2	23 29.54	+33 18.3	0.476	1.252	46.4	20.0	113 E	78	31*
12 7	23 29.44	+32 26.9	0.506	1.245	48.5	20.2	109 E	77	31*
12 12	23 31.11	+31 47.3	0.537	1.235	50.4	20.4	105 E	77	30*
12 17	23 34.23	+31 18.6	0.566	1.225	52.1	20.5	101 E	76	29*
12 22	23 38.56	+30 59.8	0.594	1.212	53.6	20.6	97 E	76	28*
12 27	23 43.88	+30 49.7	0.620	1.197	55.0	20.8	94 E	76	27*
1 1	23 50.05	+30 47.1	0.644	1.181	56.4	20.8	91 E	76	25*
1 6	23 56.95	+30 50.9	0.665	1.162	57.7	20.9	87 E	76*	23*
1 11	0 4.49	+31 0.0	0.684	1.142	59.0	21.0	84 E	75*	21*
1 16	0 12.63	+31 13.7	0.700	1.120	60.3	21.0	82 E	74*	20*
484506 2008 ER_7									
7 20	5 39.68	+24 20.0	1.081	0.583	67.8	21.5	32 W	18*	19*
7 25	6 13.68	+24 24.8	1.159	0.564	61.2	21.4	29 W	17*	16*
7 30	6 46.62	+24 0.7	1.240	0.559	53.8	21.3	26 W	16*	13*
8 4	7 18.19	+23 11.0	1.321	0.569	46.2	21.2	24 W	14*	11*
8 9	7 48.08	+22 0.4	1.400	0.592	39.3	21.3	22 W	13*	9*
8 14	8 16.05	+20 33.9	1.477	0.626	33.2	21.3	20 W	11*	8*
8 19	8 42.03	+18 56.2	1.550	0.669	28.3	21.4	18 W	10*	6*
33342 1998 WT_{24}									
7 20	5 42.25	+17 15.7	0.665	0.576	109.7	20.0	32 W	13*	23*
7 22	5 41.10	+17 6.4	0.684	0.595	105.0	19.8	34 W	15*	25*
7 24	5 40.88	+17 0.1	0.703	0.613	100.8	19.7	36 W	17*	26*
7 26	5 41.46	+16 56.1	0.722	0.632	97.0	19.7	38 W	19*	27*
7 28	5 42.71	+16 54.2	0.740	0.650	93.6	19.6	40 W	20*	28*
7 30	5 44.55	+16 53.8	0.757	0.668	90.6	19.6	41 W	22*	29*
8 4	5 51.18	+16 57.9	0.797	0.712	84.3	19.6	44 W	25*	31*
8 9	5 59.94	+17 5.7	0.831	0.754	79.4	19.7	47 W	28*	32*
8 14	6 10.19	+17 14.5	0.860	0.792	75.5	19.7	49 W	31*	33*
8 19	6 21.49	+17 22.4	0.882	0.828	72.5	19.8	51 W	34*	33*
8 24	6 33.56	+17 28.3	0.899	0.861	70.1	19.8	53 W	36*	34*
8 29	6 46.20	+17 31.5	0.910	0.890	68.2	19.8	55 W	39*	34*
9 8	7 12.86	+17 27.7	0.918	0.940	65.6	19.9	58 W	43*	35*
9 18	7 41.05	+17 8.2	0.909	0.978	64.2	19.9	61 W	47*	35*
9 28	8 10.72	+16 31.2	0.886	1.003	63.7	19.9	64 W	49*	35*
10 8	8 42.18	+15 34.6	0.851	1.017	64.0	19.9	66 W	52*	35*
10 18	9 15.96	+14 14.9	0.808	1.018	64.9	19.8	68 W	53*	36*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
33342 1998 WT_{24} *(continuation)*									
10 23	9 33.92	+13 25.0	0.785	1.014	65.7	19.7	68 W	53*	36*
10 28	9 52.76	+12 27.5	0.760	1.008	66.7	19.7	69 W	53*	36*
11 2	10 12.61	+11 21.2	0.736	0.998	67.9	19.6	69 W	52*	36*
11 7	10 33.62	+10 5.1	0.712	0.985	69.3	19.6	68 W	52*	36*
11 12	10 55.93	+ 8 38.0	0.689	0.970	71.0	19.5	68 W	51*	36*
11 17	11 19.67	+ 6 58.9	0.668	0.951	73.0	19.5	67 W	49*	36*
11 27	12 11.83	+ 3 2.4	0.635	0.904	77.6	19.4	63 W	46*	35*
12 7	13 10.43	− 1 42.8	0.621	0.845	83.0	19.4	58 W	40*	34*
12 17	14 14.47	− 6 56.2	0.636	0.773	88.0	19.5	52 W	34*	31*
12 22	14 47.84	− 9 31.9	0.657	0.733	89.9	19.5	48 W	31*	30*
12 27	15 21.72	−12 0.1	0.688	0.690	91.1	19.5	45 W	27*	28*
1 1	15 55.87	−14 16.4	0.729	0.645	91.1	19.5	41 W	24*	27*
1 6	16 30.23	−16 17.2	0.781	0.599	89.9	19.4	38 W	21*	25*
1 11	17 4.86	−17 59.9	0.844	0.553	86.8	19.3	34 W	17*	23*
1 16	17 39.99	−19 21.8	0.918	0.508	81.8	19.1	31 W	14*	21*
35670 1998 SU_{27}									
7 20	6 9.84	+25 13.4	1.678	0.875	29.8	21.4	25 W	14*	13*
7 25	6 37.15	+24 29.8	1.689	0.863	28.4	21.4	24 W	13*	12*
7 30	7 3.94	+23 28.5	1.704	0.858	26.8	21.3	22 W	12*	11*
8 4	7 29.97	+22 11.4	1.723	0.858	25.1	21.3	21 W	11*	10*
8 9	7 55.11	+20 40.9	1.747	0.864	23.4	21.3	20 W	11*	9*
8 14	8 19.24	+18 59.4	1.773	0.876	21.8	21.3	19 W	10*	8*
8 19	8 42.30	+17 9.5	1.802	0.894	20.2	21.3	18 W	9*	7*
8 24	9 4.28	+15 13.7	1.833	0.916	18.9	21.4	17 W	8*	7*
8 29	9 25.19	+13 14.1	1.867	0.943	17.7	21.5	16 W	8*	7*
286079 2001 TW_1									
7 20	8 4.72	+35 28.0	1.857	0.913	16.6	21.2	15 E	7*	—
7 25	8 28.58	+33 52.1	1.810	0.864	17.0	21.1	14 E	7*	—
7 30	8 52.64	+31 51.1	1.763	0.813	17.3	20.9	14 E	6*	—
8 4	9 16.77	+29 22.7	1.714	0.760	17.4	20.7	13 E	6*	—
8 9	9 40.87	+26 24.6	1.665	0.706	17.4	20.5	12 E	6*	—
8 14	10 4.85	+22 54.6	1.615	0.650	17.4	20.2	11 E	5*	—
8 19	10 28.63	+18 50.5	1.562	0.595	17.8	20.0	10 E	4*	—
8 24	10 52.16	+14 10.9	1.506	0.542	19.3	19.7	10 E	3*	1*
8 29	11 15.40	+ 8 55.8	1.446	0.495	23.1	19.6	11 E	1*	4*
9 3	11 38.29	+ 3 7.9	1.378	0.457	30.1	19.5	13 E	—	7*
9 8	12 0.77	− 3 5.3	1.302	0.436	40.0	19.5	16 E	—	10*
9 10	12 9.66	− 5 38.9	1.269	0.432	44.5	19.6	18 E	—	11*
9 12	12 18.51	− 8 13.5	1.235	0.432	49.1	19.7	19 E	—	12*
9 14	12 27.34	−10 48.1	1.200	0.436	53.8	19.8	20 E	—	13*
9 16	12 36.19	−13 21.8	1.164	0.442	58.4	19.9	22 E	—	15*
9 18	12 45.11	−15 53.9	1.128	0.452	62.8	20.0	24 E	—	16*
9 20	12 54.17	−18 23.7	1.092	0.464	66.8	20.1	25 E	—	17*
9 22	13 3.43	−20 50.8	1.056	0.478	70.5	20.2	27 E	—	18*
9 24	13 12.98	−23 14.8	1.021	0.495	73.8	20.3	28 E	—	19*
9 26	13 22.91	−25 35.5	0.987	0.513	76.7	20.4	30 E	—	20*
9 28	13 33.31	−27 52.5	0.954	0.532	79.2	20.5	31 E	—	21*
9 30	13 44.30	−30 5.6	0.923	0.552	81.4	20.6	33 E	—	22*
10 2	13 55.99	−32 14.5	0.892	0.573	83.1	20.7	35 E	—	23*
10 4	14 8.48	−34 18.7	0.864	0.595	84.4	20.7	36 E	—	25*
10 6	14 21.90	−36 17.4	0.837	0.617	85.5	20.8	38 E	—	26*
10 8	14 36.34	−38 9.9	0.812	0.639	86.2	20.8	40 E	—	28*
10 10	14 51.92	−39 55.0	0.788	0.661	86.6	20.8	41 E	—	29*
10 12	15 8.70	−41 31.3	0.767	0.684	86.7	20.8	43 E	—	31*
10 14	15 26.73	−42 57.3	0.748	0.706	86.6	20.9	45 E	—	33*
10 16	15 46.01	−44 11.2	0.731	0.728	86.2	20.9	47 E	—	35*
10 18	16 6.44	−45 11.3	0.715	0.750	85.7	20.9	49 E	—	37*
10 20	16 27.89	−45 55.7	0.703	0.771	84.9	20.8	50 E	—	39*
10 22	16 50.12	−46 23.1	0.692	0.793	83.9	20.8	52 E	—	41*
10 24	17 12.82	−46 32.3	0.683	0.814	82.8	20.8	54 E	—	44*
10 26	17 35.64	−46 23.0	0.677	0.834	81.5	20.8	56 E	—	46*
10 28	17 58.23	−45 55.4	0.673	0.854	80.2	20.8	58 E	—	48*
10 30	18 20.23	−45 10.4	0.672	0.874	78.7	20.8	60 E	—	51*
11 1	18 41.37	−44 9.6	0.672	0.894	77.2	20.8	61 E	—	53*
11 3	19 1.43	−42 55.0	0.675	0.913	75.7	20.8	63 E	1*	55*
11 5	19 20.28	−41 28.8	0.680	0.932	74.1	20.8	65 E	3*	57*
11 7	19 37.87	−39 53.3	0.687	0.950	72.5	20.8	66 E	5*	59*
11 9	19 54.19	−38 10.9	0.696	0.968	70.9	20.8	67 E	7*	61*
11 11	20 9.28	−36 23.6	0.706	0.985	69.4	20.8	69 E	8*	63*
11 13	20 23.23	−34 33.2	0.719	1.003	67.9	20.9	70 E	10*	64*
11 15	20 36.11	−32 41.3	0.732	1.019	66.4	20.9	71 E	12*	65*
11 17	20 48.01	−30 49.2	0.748	1.036	65.0	20.9	72 E	14	66*
11 19	20 59.04	−28 57.9	0.764	1.052	63.7	21.0	72 E	16	66*
11 21	21 9.28	−27 8.3	0.782	1.067	62.4	21.0	73 E	18	66*
11 23	21 18.81	−25 20.9	0.801	1.082	61.1	21.1	74 E	20	66*
11 25	21 27.71	−23 36.1	0.821	1.097	59.9	21.1	74 E	21	65*
11 27	21 36.05	−21 54.4	0.841	1.111	58.8	21.2	74 E	23	65*

286079 2001 TW_1 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 2	21 54.84	−17 53.9	0.896	1.145	56.2	21.3	75 E	27	63*
12 7	22 11.29	−14 13.5	0.955	1.177	53.8	21.4	75 E	31	59*
12 12	22 25.99	−10 52.2	1.017	1.206	51.7	21.6	74 E	34	56*
12 17	22 39.40	− 7 47.9	1.080	1.233	49.8	21.7	73 E	37	52*

291919 2006 QU_{20}

7 20	8 7.16	+16 37.6	3.211	2.200	2.1	21.5	5 E	—	—
7 30	8 27.48	+15 37.7	3.242	2.230	1.7	21.5	4 W	—	—
8 9	8 47.18	+14 30.6	3.263	2.260	3.2	21.7	7 W	—	1*
8 19	9 6.27	+13 17.5	3.272	2.289	5.1	21.8	12 W	2*	4*
8 29	9 24.74	+11 59.6	3.270	2.318	7.1	21.9	16 W	7*	7*

128472 2004 PS

7 20	8 7.19	+20 38.6	3.755	2.739	0.8	21.4	2 E	—	—
7 30	8 23.55	+19 39.1	3.778	2.766	1.3	21.5	4 W	—	—
8 9	8 39.46	+18 35.2	3.787	2.791	3.3	21.6	9 W	2*	1*
8 19	8 54.90	+17 27.6	3.781	2.816	5.3	21.8	15 W	7*	5*
8 29	9 9.81	+16 17.0	3.761	2.840	7.3	21.9	21 W	13*	8*

78545 2002 RT_{121}

7 20	8 16.40	+20 53.1	3.712	2.700	1.6	21.4	4 E	—	—
7 30	8 32.91	+19 47.4	3.701	2.686	0.6	21.3	2 W	—	—
8 9	8 49.31	+18 35.8	3.676	2.672	2.6	21.4	7 W	—	—
8 19	9 5.57	+17 18.8	3.636	2.657	4.7	21.5	12 W	5*	2*
8 29	9 21.64	+15 56.8	3.582	2.640	6.8	21.6	18 W	10*	6*

213050 1998 TS_3

7 20	8 18.37	− 0 34.0	2.497	1.599	13.7	21.5	22 E	—	8*
7 30	8 46.37	− 1 25.3	2.502	1.587	12.7	21.4	20 E	—	5*
8 9	9 14.34	− 2 25.0	2.507	1.577	11.6	21.4	18 W	—	2*
8 19	9 42.25	− 3 31.4	2.511	1.568	10.6	21.3	17 W	—	4*
8 29	10 10.05	− 4 42.6	2.514	1.560	9.6	21.3	15 W	—	5*
9 8	10 37.75	− 5 56.6	2.514	1.553	8.8	21.3	14 W	—	6*
9 18	11 5.37	− 7 11.4	2.511	1.548	8.4	21.2	13 W	—	6*
9 28	11 32.92	− 8 24.8	2.504	1.545	8.4	21.2	13 W	—	7*
10 8	12 0.44	− 9 34.7	2.493	1.542	9.0	21.2	14 W	1*	8*
10 18	12 27.99	−10 39.1	2.477	1.542	10.1	21.3	16 W	4*	9*
10 28	12 55.57	−11 35.6	2.455	1.543	11.6	21.3	18 W	8*	10*
11 7	13 23.24	−12 22.3	2.427	1.545	13.4	21.3	21 W	11*	11*
11 17	13 51.00	−12 56.9	2.393	1.549	15.3	21.4	24 W	14*	13*
11 27	14 18.84	−13 17.3	2.354	1.554	17.4	21.4	28 W	17*	15*
12 7	14 46.72	−13 21.4	2.309	1.561	19.4	21.5	32 W	20*	17*
12 17	15 14.60	−13 7.4	2.259	1.569	21.5	21.5	36 W	22*	20*

153243 2001 AU_{47}

7 20	8 25.90	+21 42.4	2.914	1.908	3.5	21.5	7 E	—	—
7 30	8 44.27	+19 34.9	2.946	1.932	1.0	21.3	2 E	—	—
8 9	9 1.91	+17 23.3	2.962	1.951	1.9	21.4	4 W	—	—
8 19	9 18.93	+15 7.5	2.961	1.966	4.5	21.6	9 W	1*	1*
8 29	9 35.40	+12 47.2	2.943	1.978	7.1	21.7	14 W	6*	5*

285263 1998 QE_2

7 20	8 31.12	+11 12.0	2.842	1.862	6.7	21.3	12 E	—	5*
7 30	8 53.55	+ 9 37.1	2.779	1.786	5.5	21.1	10 E	—	1*
8 9	9 16.99	+ 7 47.1	2.707	1.710	4.8	20.9	8 E	—	—
8 19	9 41.54	+ 5 41.5	2.630	1.633	4.8	20.8	8 W	—	—
8 29	10 7.33	+ 3 20.2	2.548	1.556	5.4	20.6	8 W	—	2*
9 8	10 34.52	+ 0 43.5	2.464	1.480	6.4	20.5	9 W	—	3*
9 18	11 3.35	− 2 7.4	2.380	1.405	7.6	20.4	11 W	—	5*
9 28	11 34.05	− 5 10.2	2.299	1.332	8.6	20.2	12 W	—	5*
10 8	12 6.93	− 8 21.2	2.223	1.264	9.6	20.1	12 W	1*	6*
10 13	12 24.27	− 9 58.0	2.188	1.231	9.9	20.0	12 W	1*	6*
10 18	12 42.27	−11 34.7	2.155	1.201	10.2	19.9	12 W	1*	6*
10 23	13 0.94	−13 9.9	2.124	1.172	10.4	19.8	12 W	1*	6*
10 28	13 20.30	−14 42.6	2.097	1.145	10.5	19.8	12 W	1*	5*
11 2	13 40.36	−16 11.3	2.072	1.120	10.5	19.7	12 W	1*	5*
11 7	14 1.11	−17 34.8	2.051	1.099	10.4	19.6	12 W	1*	5*
11 12	14 22.53	−18 51.4	2.034	1.080	10.2	19.6	11 W	1*	4*
11 17	14 44.56	−19 59.8	2.020	1.064	9.9	19.5	11 W	—	4*
11 22	15 7.12	−20 58.5	2.009	1.052	9.6	19.5	10 W	—	3*
11 27	15 30.11	−21 46.3	2.003	1.044	9.2	19.4	10 W	—	3*
12 2	15 53.40	−22 22.2	2.000	1.039	8.8	19.4	9 W	—	2*
12 7	16 16.86	−22 45.6	2.001	1.039	8.4	19.4	9 W	—	2*
12 12	16 40.34	−22 56.1	2.006	1.042	8.0	19.4	8 W	—	1*
12 17	17 3.67	−22 53.7	2.014	1.049	7.7	19.4	8 W	—	1*
12 22	17 26.71	−22 38.7	2.025	1.060	7.4	19.4	8 W	—	1*
12 27	17 49.30	−22 11.9	2.039	1.074	7.3	19.4	8 W	—	—
1 1	18 11.35	−21 34.0	2.057	1.092	7.3	19.5	8 W	—	—
1 6	18 32.76	−20 46.3	2.077	1.113	7.3	19.6	8 W	1*	—
1 11	18 53.47	−19 49.9	2.099	1.136	7.5	19.6	9 W	1*	—
1 16	19 13.42	−18 46.0	2.123	1.162	7.7	19.7	9 W	2*	1*

498422 2008 AZ_{41}

7 20	8 42.24	+17 9.2	2.960	1.972	5.6	21.4	11 E	—	5*
7 30	9 2.79	+14 33.8	2.937	1.934	3.8	21.2	7 E	—	1*
8 9	9 23.42	+11 46.6	2.906	1.896	2.4	21.1	4 E	—	—
8 19	9 44.18	+ 8 47.6	2.868	1.861	2.5	21.0	5 W	—	—
8 29	10 5.11	+ 5 36.9	2.824	1.827	4.0	21.0	7 W	—	1*
9 8	10 26.28	+ 2 15.2	2.775	1.795	6.0	21.1	11 W	—	5*
9 18	10 47.79	− 1 17.1	2.723	1.765	7.9	21.1	14 W	1*	8*
9 28	11 9.75	− 4 59.0	2.668	1.738	9.9	21.1	17 W	4*	11*
10 8	11 32.28	− 8 48.9	2.611	1.713	11.9	21.1	21 W	6*	14*
10 18	11 55.55	−12 45.1	2.555	1.692	13.8	21.1	24 W	8*	17*
10 28	12 19.73	−16 44.9	2.499	1.674	15.5	21.1	27 W	9*	20*
11 7	12 45.01	−20 45.2	2.446	1.660	17.2	21.1	30 W	10*	23*
11 17	13 11.59	−24 42.1	2.395	1.649	18.8	21.0	32 W	9*	26*
11 27	13 39.65	−28 31.2	2.347	1.642	20.2	21.0	35 W	8*	28*
12 7	14 9.35	−32 7.2	2.303	1.639	21.6	21.0	38 W	7*	31*
12 17	14 40.78	−35 24.9	2.262	1.641	22.8	21.0	40 W	5*	34*
12 27	15 13.87	−38 19.0	2.225	1.646	24.0	21.0	43 W	3*	37*
1 6	15 48.43	−40 44.6	2.189	1.655	25.0	21.1	45 W	1*	39*
1 16	16 24.01	−42 38.2	2.155	1.668	26.0	21.1	48 W	—	42*

82474 2001 OB_{23}

7 20	9 9.14	+26 31.3	3.903	2.948	5.9	21.5	17 E	9*	5*
7 30	9 24.59	+25 21.3	3.939	2.958	4.4	21.4	13 E	6*	1*
8 9	9 39.86	+24 9.0	3.960	2.967	3.4	21.4	10 E	4*	—
8 19	9 54.90	+22 54.9	3.966	2.975	3.4	21.4	10 E	2*	—
8 29	10 9.70	+21 39.8	3.956	2.982	4.5	21.5	13 W	6*	—

507261 2011 CO_{46}

7 20	9 10.43	+15 17.1	2.293	1.363	13.3	21.4	18 E	1*	12*
7 30	9 40.10	+12 1.5	2.292	1.348	12.3	21.4	16 E	—	10*
8 9	10 9.47	+ 8 31.2	2.291	1.338	11.3	21.3	15 E	—	9*
8 19	10 38.65	+ 4 49.5	2.293	1.331	10.3	21.3	14 E	—	7*
8 29	11 7.77	+ 1 0.3	2.296	1.328	9.5	21.2	12 E	—	6*
9 8	11 36.94	− 2 52.4	2.302	1.330	8.6	21.2	11 E	—	5*
9 18	12 6.35	− 6 44.5	2.311	1.336	7.9	21.2	10 E	—	3*
9 28	12 36.13	−10 31.6	2.323	1.346	7.1	21.2	10 E	—	2*
10 8	13 6.40	−14 9.2	2.338	1.359	6.4	21.2	9 E	—	—
10 18	13 37.29	−17 33.2	2.356	1.377	5.8	21.2	8 E	—	—
10 28	14 8.84	−20 39.4	2.376	1.397	5.4	21.2	8 W	—	—
11 7	14 41.04	−23 24.3	2.398	1.421	5.2	21.3	7 W	—	—
11 17	15 13.81	−25 44.7	2.420	1.447	5.3	21.4	8 W	—	1*
11 27	15 46.99	−27 38.4	2.443	1.475	5.8	21.4	9 W	—	2*

480883 2001 YE_4

7 20	9 16.97	+14 7.0	1.123	0.384	64.1	21.1	20 E	1*	14*
7 22	9 24.04	+13 32.1	1.067	0.362	72.2	21.2	20 E	1*	14*
7 24	9 30.12	+13 3.3	1.008	0.342	81.7	21.2	19 E	1*	13*
7 26	9 34.75	+12 44.1	0.946	0.326	92.8	21.4	19 E	—	13*
7 28	9 37.40	+12 38.4	0.885	0.316	105.5	21.8	17 E	—	11*

169516 2002 EQ

7 20	9 41.80	+12 58.8	3.160	2.289	11.2	21.5	26 E	5*	19*
7 30	9 59.96	+11 32.0	3.169	2.251	9.3	21.4	21 E	2*	15*
8 9	10 18.51	+ 9 57.4	3.168	2.213	7.4	21.3	16 E	—	10*
8 19	10 37.45	+ 8 15.4	3.156	2.174	5.4	21.1	12 E	—	6*
8 29	10 56.77	+ 6 26.5	3.134	2.135	3.4	21.0	7 E	—	1*
9 8	11 16.50	+ 4 31.5	3.102	2.097	1.3	20.7	3 E	—	—
9 18	11 36.68	+ 2 31.2	3.062	2.058	0.8	20.6	2 W	—	—
9 28	11 57.33	+ 0 26.4	3.014	2.020	2.9	20.7	6 W	—	—
10 8	12 18.50	− 1 41.8	2.958	1.982	5.0	20.8	10 W	3*	—
10 18	12 40.28	− 3 52.0	2.896	1.944	7.1	20.8	14 W	7*	3*
10 28	13 2.72	− 6 2.8	2.828	1.907	9.3	20.8	18 W	11*	6*
11 7	13 25.88	− 8 12.6	2.755	1.872	11.4	20.8	22 W	14*	9*
11 17	13 49.85	−10 19.5	2.678	1.837	13.5	20.7	26 W	16*	12*
11 27	14 14.68	−12 21.4	2.598	1.804	15.5	20.7	29 W	18*	15*
12 7	14 40.41	−14 15.9	2.517	1.773	17.6	20.7	33 W	20*	19*
12 17	15 7.07	−16 0.6	2.434	1.743	19.6	20.6	36 W	21*	23*
12 27	15 34.63	−17 32.8	2.351	1.716	21.5	20.6	40 W	21*	27*
1 6	16 3.04	−18 50.0	2.268	1.691	23.4	20.5	43 W	21*	32*
1 16	16 32.18	−19 49.9	2.187	1.668	25.3	20.5	46 W	21*	36*

456537 2007 BG

7 20	10 8.08	+14 25.2	1.450	0.790	42.3	21.4	32 E	10*	24*
7 30	10 45.92	+12 18.2	1.358	0.724	47.1	21.2	31 E	11*	24*
8 9	11 24.47	+ 9 48.1	1.242	0.656	54.6	21.0	32 E	11*	24*
8 19	12 2.93	+ 6 55.9	1.099	0.593	65.8	20.9	32 E	12*	25*
8 29	12 38.94	+ 3 43.1	0.930	0.546	81.9	20.9	32 E	12*	25*
9 8	13 7.17	+ 0 8.5	0.747	0.527	103.3	21.3	31 E	11*	23*

276703 2004 BL_{11}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 20	10 32.92	+14 37.0	1.401	0.854	46.1	21.2	37 E	15*	28*
7 30	10 53.24	+12 34.5	1.267	0.694	53.1	20.8	33 E	12*	25*
8 9	11 11.57	+10 18.7	1.083	0.523	68.3	20.3	29 E	9*	21*
8 19	11 13.95	+ 8 25.2	0.847	0.364	106.5	20.5	20 E	4*	13*
8 29	10 19.33	+ 8 51.4	0.687	0.325	171.2	34.2	3 W	—	—
9 8	9 24.33	+ 9 34.3	0.779	0.455	106.5	20.8	26 W	15*	15*
9 18	9 13.83	+ 9 6.0	0.921	0.627	78.4	20.6	38 W	25*	23*
9 28	9 18.98	+ 8 15.2	1.029	0.793	65.2	21.0	46 W	32*	28*
10 8	9 28.02	+ 7 19.0	1.099	0.944	58.0	21.3	53 W	38*	33*

479345 2013 WY_{67}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	10 36.33	+17 49.8	1.396	0.852	46.4	21.4	37 E	18*	27*
7 25	10 56.81	+14 40.1	1.365	0.845	47.9	21.4	38 E	16*	29*
7 30	11 17.02	+11 17.0	1.336	0.843	49.4	21.4	39 E	15*	30*
8 4	11 37.02	+ 7 42.4	1.309	0.843	50.8	21.4	40 E	14*	32*
8 9	11 56.86	+ 3 58.7	1.285	0.848	52.0	21.4	41 E	13*	34*
8 14	12 16.63	+ 0 8.5	1.265	0.857	52.9	21.4	42 E	12*	36*
8 19	12 36.45	− 3 45.4	1.249	0.869	53.5	21.4	44 E	10*	37*
8 24	12 56.42	− 7 40.0	1.236	0.884	53.9	21.5	45 E	9*	39*
8 29	13 16.65	−11 32.1	1.228	0.902	54.0	21.5	46 E	8*	40*

267720 2003 CA

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	12 33.50	+18 24.7	1.160	1.166	51.8	21.4	64 E	38*	42*
7 30	12 40.68	+14 55.8	1.120	1.040	55.9	21.2	58 E	33*	41*
8 9	12 48.58	+11 4.3	1.055	0.903	61.8	20.9	52 E	27*	39*
8 19	12 55.17	+ 6 41.2	0.962	0.758	71.0	20.6	45 E	21*	35*
8 29	12 55.45	+ 1 34.7	0.840	0.607	87.0	20.4	37 E	14*	29*
9 3	12 49.45	− 1 15.4	0.771	0.533	99.8	20.5	31 E	9*	25*
9 8	12 35.45	− 4 6.9	0.704	0.466	117.5	21.0	24 E	3*	18*
9 13	12 10.18	− 6 29.3	0.653	0.414	140.0	22.8	15 E	—	9*
9 18	11 35.66	− 7 28.2	0.640	0.388	154.7	25.2	10 W	—	—

382586 2002 CC_{214}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	20 48.82	−16 6.6	2.034	3.033	4.3	22.6	167 W	29	80
7 30	20 39.44	−16 54.9	1.989	3.004	0.6	22.3	178 W	28	81
8 9	20 29.69	−17 44.2	1.974	2.975	3.8	22.5	169 E	27	82
8 19	20 20.48	−18 30.6	1.987	2.945	7.8	22.7	157 E	26	83
8 29	20 12.71	−19 11.0	2.026	2.914	11.4	22.9	145 E	26	83

302098 2001 FG_{31}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	20 50.12	+10 27.3	3.790	4.670	6.9	22.9	146 W	55	54
7 30	20 43.61	+10 6.6	3.760	4.677	6.0	22.8	151 W	55	54
8 9	20 37.03	+ 9 32.7	3.757	4.682	5.7	22.8	153 E	55	54
8 19	20 30.79	+ 8 47.6	3.782	4.687	6.2	22.8	150 E	54	55
8 29	20 25.30	+ 7 53.8	3.834	4.691	7.2	22.9	144 E	53	56

452313 1998 XR_{16}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	20 52.46	−34 58.5	1.882	2.863	6.5	22.7	161 W	10	81
7 25	20 45.77	−35 42.0	1.900	2.886	6.0	22.7	163 W	9	80
7 30	20 39.01	−36 19.6	1.926	2.909	6.1	22.7	162 W	9	80
8 4	20 32.36	−36 51.1	1.959	2.932	6.9	22.8	160 E	8	79
8 9	20 25.97	−37 16.2	1.999	2.954	8.1	22.9	156 E	8	79
8 14	20 20.00	−37 35.0	2.046	2.975	9.4	23.0	151 E	7	78
8 19	20 14.56	−37 47.8	2.099	2.997	10.7	23.2	147 E	7	78

396794 2004 KT

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	20 53.25	+33 56.5	2.402	3.085	15.9	23.0	124 W	79	30
7 25	20 46.32	+34 19.6	2.382	3.086	15.5	23.0	126 W	79	30
7 30	20 39.15	+34 33.5	2.367	3.085	15.3	23.0	127 W	80	29
8 4	20 31.88	+34 37.8	2.357	3.084	15.1	22.9	128 E	80	29
8 9	20 24.65	+34 32.7	2.352	3.083	15.0	22.9	128 E	80	29
8 14	20 17.60	+34 18.3	2.353	3.081	15.0	22.9	128 E	79	30
8 19	20 10.88	+33 55.2	2.358	3.078	15.2	22.9	127 E	79	30

207970 1996 BZ_3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	20 56.66	−13 34.8	2.472	3.462	4.5	23.2	164 W	31	78
7 30	20 47.67	−14 12.7	2.414	3.427	1.5	22.9	175 W	31	78
8 9	20 38.20	−14 53.7	2.386	3.390	2.7	22.9	171 E	30	79
8 19	20 28.99	−15 34.5	2.387	3.353	6.1	23.1	159 E	29	80
8 29	20 20.82	−16 12.3	2.417	3.315	9.4	23.2	148 E	29	80

497093 2003 YP_{146}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	21 3.15	−26 12.9	2.220	3.209	5.0	22.4	164 W	19	90
7 25	20 58.24	−26 36.4	2.203	3.205	3.6	22.3	168 W	18	89
7 30	20 53.11	−26 58.3	2.193	3.200	2.9	22.2	171 W	18	89
8 4	20 47.87	−27 18.0	2.191	3.194	3.2	22.2	170 E	18	89
8 9	20 42.64	−27 35.1	2.196	3.189	4.4	22.3	166 E	17	88
8 14	20 37.54	−27 49.1	2.208	3.183	5.9	22.4	161 E	17	88
8 19	20 32.68	−28 0.0	2.227	3.177	7.5	22.5	156 E	17	88

376729 1998 YB_8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 20	21 3.57	−21 44.2	2.020	3.013	5.1	23.3	165 W	23	86
7 25	20 58.75	−22 17.2	1.989	2.995	3.3	23.2	170 W	23	86
7 30	20 53.61	−22 50.0	1.964	2.976	1.9	23.1	174 W	22	87
8 4	20 48.27	−23 22.0	1.947	2.958	2.2	23.1	174 E	22	87
8 9	20 42.84	−23 52.5	1.938	2.939	3.8	23.1	169 E	21	88
8 14	20 37.46	−24 20.8	1.935	2.920	5.8	23.2	163 E	21	88
8 19	20 32.26	−24 46.4	1.940	2.900	7.7	23.3	157 E	20	89

437313 2013 EK_{73}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	21 4.71	−15 12.9	11.435	12.412	1.4	24.1	163 W	30	79
7 30	21 2.23	−15 25.3	11.432	12.441	0.5	24.1	173 W	30	79
8 9	20 59.69	−15 38.1	11.458	12.470	0.3	24.1	176 E	29	80
8 19	20 57.20	−15 50.7	11.515	12.499	1.1	24.2	166 E	29	80
8 29	20 54.87	−16 2.7	11.600	12.528	1.9	24.2	156 E	29	80

407656 2011 SL_{102}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	21 5.24	−30 36.2	2.201	3.183	5.7	22.9	162 W	14	85
7 25	20 59.82	−31 6.8	2.181	3.174	4.7	22.8	165 W	14	85
7 30	20 54.11	−31 34.9	2.169	3.165	4.3	22.8	166 W	13	84
8 4	20 48.25	−31 59.7	2.165	3.156	4.7	22.8	165 E	13	84
8 9	20 42.37	−32 20.8	2.167	3.146	5.8	22.8	162 E	13	84
8 14	20 36.60	−32 37.6	2.177	3.136	7.1	22.9	157 E	12	83
8 19	20 31.07	−32 50.1	2.194	3.126	8.6	23.0	152 E	12	83

211914 2004 RM_{251}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	21 7.88	−36 4.6	2.756	3.719	5.8	23.2	158 W	9	80
7 25	21 2.45	−36 22.4	2.729	3.703	5.2	23.2	161 W	9	80
7 30	20 56.75	−36 36.9	2.710	3.687	5.0	23.1	161 W	8	79
8 4	20 50.90	−36 47.9	2.698	3.670	5.3	23.1	160 E	8	79
8 9	20 45.01	−36 54.8	2.694	3.653	6.0	23.1	158 E	8	79
8 14	20 39.20	−36 57.5	2.697	3.636	7.0	23.2	154 E	8	79
8 19	20 33.59	−36 55.8	2.707	3.618	8.1	23.2	150 E	8	79

416803 2005 GZ_{127}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	21 8.10	+12 3.5	2.118	2.993	11.8	22.4	143 W	57	52
7 30	20 59.53	+11 31.3	2.069	2.988	9.9	22.3	149 W	57	52
8 9	20 50.43	+10 34.0	2.045	2.983	8.9	22.2	153 E	56	53
8 19	20 41.62	+ 9 14.4	2.046	2.976	9.3	22.2	152 E	54	55
8 29	20 33.95	+ 7 38.4	2.074	2.968	10.9	22.3	146 E	53	56

511140 2013 YJ_2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	21 8.40	+19 19.8	2.860	3.664	11.0	23.1	136 W	64	45
7 30	21 0.35	+19 23.2	2.816	3.667	9.9	23.0	142 W	64	45
8 9	20 51.91	+19 4.3	2.795	3.668	9.2	23.0	145 E	64	45
8 19	20 43.71	+18 24.1	2.799	3.669	9.3	23.0	144 E	63	46
8 29	20 36.38	+17 25.9	2.828	3.669	10.0	23.0	141 E	62	47

523614 2006 TH_7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	21 8.77	− 4 39.0	3.506	4.456	5.2	25.5	157 W	40	69
7 30	21 0.46	− 5 18.9	3.485	4.476	3.2	25.4	166 W	40	69
8 9	20 51.94	− 6 4.9	3.497	4.495	2.6	25.4	169 E	39	70
8 19	20 43.70	− 6 54.3	3.540	4.512	4.0	25.5	162 E	38	71
8 29	20 36.24	− 7 44.7	3.614	4.528	6.1	25.6	152 E	37	72

376955 2002 GR_3

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	21 16.25	+19 9.7	2.877	3.675	11.1	22.4	136 W	64	45
7 30	21 8.59	+18 56.6	2.819	3.671	9.9	22.3	142 W	64	45
8 9	21 0.41	+18 20.8	2.784	3.666	9.0	22.3	146 E	63	46
8 19	20 52.33	+17 23.5	2.775	3.660	8.8	22.2	146 E	62	47
8 29	20 44.99	+16 8.2	2.791	3.653	9.5	22.3	143 E	61	48

377097 2002 WQ_4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	21 17.49	−11 23.6	1.852	2.824	7.5	23.7	159 W	34	75
7 30	21 5.64	−12 7.1	1.845	2.852	3.3	23.5	171 W	33	76
8 9	20 53.43	−12 54.0	1.868	2.877	2.2	23.5	174 E	32	77
8 19	20 41.95	−13 39.6	1.920	2.901	6.0	23.8	163 E	31	78
8 29	20 32.15	−14 20.4	2.001	2.924	9.8	24.1	151 E	31	78

437994 2003 UL_{12}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	21 23.51	+ 6 21.8	3.423	4.302	7.6	23.7	146 W	51	58
7 30	21 16.58	+ 6 1.2	3.322	4.256	6.1	23.5	154 W	51	58
8 9	21 8.97	+ 5 26.7	3.248	4.208	5.0	23.4	159 E	50	59
8 19	21 1.16	+ 4 39.5	3.203	4.160	5.2	23.4	158 E	50	59
8 29	20 53.67	+ 3 41.9	3.188	4.111	6.5	23.4	153 E	49	60

500136 2012 CO_{46}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
7 20	21 26.50	−25 29.9	0.371	1.369	15.3	22.1	159 W	20	89
7 25	21 20.22	−25 57.8	0.349	1.355	11.7	21.8	164 W	19	90
7 30	21 12.33	−26 23.6	0.330	1.341	8.5	21.5	169 W	19	90
8 4	21 3.08	−26 44.2	0.315	1.326	7.3	21.3	170 W	18	89

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
500136 2012 CO_{46} *(continuation)*									
8 9	20 52.86	−26 56.7	0.303	1.311	9.5	21.3	168 E	18	89
8 14	20 42.20	−26 58.6	0.294	1.297	13.7	21.4	162 E	18	89
8 19	20 31.74	−26 48.4	0.289	1.282	18.6	21.5	156 E	18	89
8 24	20 22.16	−26 25.7	0.286	1.267	23.6	21.6	150 E	19	90
8 29	20 14.03	−25 51.3	0.286	1.252	28.5	21.7	144 E	19	90
9 3	20 7.70	−25 7.2	0.287	1.237	33.2	21.8	138 E	20	89
505461 2013 TZ_{80}									
7 20	21 28.11	−17 55.4	2.313	3.280	6.5	22.6	159 W	27	82
7 30	21 19.72	−18 44.2	2.263	3.267	3.1	22.4	170 W	26	83
8 9	21 10.47	−19 33.0	2.242	3.254	1.2	22.2	176 E	25	84
8 19	21 1.13	−20 17.6	2.250	3.239	4.5	22.4	165 E	25	84
8 29	20 52.58	−20 54.5	2.287	3.224	8.0	22.6	154 E	24	85
445025 2008 NS_1									
7 20	21 33.66	−11 57.0	2.426	3.377	7.2	22.6	156 W	33	76
7 30	21 22.20	−12 33.5	2.433	3.432	3.6	22.5	168 W	32	77
8 9	21 10.42	−13 11.6	2.472	3.485	0.9	22.3	177 E	32	77
8 19	20 59.15	−13 48.0	2.543	3.535	3.8	22.6	167 E	31	78
8 29	20 49.15	−14 19.9	2.645	3.584	6.9	22.9	155 E	31	78
358438 2007 DZ_{82}									
7 20	21 33.97	+ 9 56.3	1.654	2.529	14.5	21.5	141 W	55	54
7 30	21 25.73	+ 8 50.8	1.600	2.531	11.5	21.3	150 W	54	55
8 9	21 16.33	+ 7 14.2	1.569	2.533	9.0	21.2	157 W	52	57
8 19	21 6.77	+ 5 11.5	1.564	2.533	8.4	21.2	159 E	50	59
8 29	20 58.17	+ 2 51.6	1.586	2.533	10.1	21.3	154 E	48	61
9 8	20 51.45	+ 0 25.8	1.634	2.531	13.0	21.4	146 E	45	64
162635 2000 SS_{164}									
7 20	21 35.04	−10 47.0	2.478	3.424	7.3	21.6	155 W	34	75
7 30	21 27.18	−11 34.2	2.398	3.392	4.1	21.3	166 W	33	76
8 9	21 18.27	−12 28.2	2.346	3.359	1.0	21.0	177 W	33	76
8 19	21 8.98	−13 25.3	2.325	3.324	3.3	21.2	169 E	32	77
8 29	21 0.11	−14 21.1	2.333	3.288	6.8	21.3	157 E	31	78
9 8	20 52.41	−15 12.0	2.369	3.251	10.1	21.5	146 E	30	79
376864 2001 TP_{103}									
7 20	21 37.12	− 5 44.2	1.374	2.319	12.0	23.1	152 W	39	70
7 30	21 26.50	− 6 16.9	1.307	2.297	7.5	22.8	163 W	39	70
8 9	21 14.01	− 7 6.6	1.266	2.273	3.9	22.6	171 E	38	71
8 19	21 0.93	− 8 8.1	1.251	2.247	6.2	22.6	166 E	37	72
8 29	20 48.83	− 9 14.4	1.263	2.219	11.1	22.8	155 E	36	73
210718 2000 ST_{252}									
7 20	21 37.16	−23 0.8	3.287	4.241	5.4	21.4	157 W	22	87
7 30	21 30.90	−23 43.2	3.219	4.213	3.2	21.2	167 W	21	88
8 9	21 23.89	−24 23.4	3.181	4.185	2.1	21.1	171 W	21	88
8 19	21 16.61	−24 58.4	3.171	4.157	3.6	21.1	165 E	20	89
8 29	21 9.66	−25 25.8	3.191	4.128	5.9	21.3	155 E	20	89
9 8	21 3.58	−25 43.9	3.238	4.099	8.2	21.4	144 E	19	90
100756 1998 FM_5									
7 20	21 39.34	− 3 31.2	2.555	3.473	8.4	21.5	150 W	41	68
7 30	21 31.20	− 4 12.2	2.486	3.461	5.6	21.3	161 W	41	68
8 9	21 22.11	− 5 4.5	2.446	3.447	3.2	21.1	169 W	40	69
8 19	21 12.73	− 6 4.7	2.436	3.432	3.6	21.2	168 E	39	70
8 29	21 3.82	− 7 8.9	2.456	3.416	6.2	21.3	158 E	38	71
9 8	20 56.06	− 8 12.4	2.505	3.398	9.2	21.5	147 E	37	72
452362 2001 VH_{125}									
7 20	21 39.56	−21 51.9	1.110	2.081	11.3	21.2	156 W	23	86
7 25	21 35.52	−22 43.3	1.079	2.069	8.9	21.0	162 W	22	87
7 30	21 30.75	−23 36.2	1.055	2.056	6.6	20.9	167 W	21	88
8 4	21 25.39	−24 29.1	1.036	2.043	4.9	20.7	170 W	21	88
8 9	21 19.60	−25 20.1	1.023	2.030	4.7	20.7	170 W	20	89
8 14	21 13.60	−26 7.9	1.017	2.017	6.4	20.7	167 E	19	90
8 19	21 7.60	−26 50.7	1.016	2.004	8.9	20.8	162 E	18	89
8 24	21 1.88	−27 27.5	1.021	1.990	11.6	20.9	157 E	18	89
8 29	20 56.66	−27 57.4	1.031	1.977	14.3	21.1	151 E	17	88
9 3	20 52.15	−28 20.2	1.047	1.963	16.9	21.2	146 E	17	88
9 8	20 48.49	−28 35.8	1.066	1.950	19.4	21.3	140 E	16	87
9 13	20 45.81	−28 44.5	1.090	1.936	21.6	21.4	135 E	16	87
9 18	20 44.18	−28 46.7	1.117	1.922	23.7	21.5	130 E	16	87
470678 2008 SS_{251}									
7 20	21 42.98	− 5 27.4	0.475	1.449	20.3	21.3	150 W	40	69
7 25	21 47.87	− 5 8.3	0.439	1.423	18.4	21.0	154 W	40	69
7 30	21 52.69	− 4 55.7	0.405	1.398	16.4	20.7	157 W	40	69
8 4	21 57.51	− 4 50.4	0.375	1.374	14.1	20.5	161 W	40	69
8 9	22 2.43	− 4 53.2	0.348	1.352	11.8	20.2	164 W	40	69

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
470678 2008 SS_{251} *(continuation)*									
8 19	22 12.98	− 5 25.6	0.303	1.312	6.7	19.6	171 W	40	69
8 29	22 25.49	− 6 32.3	0.270	1.280	2.4	19.1	177 E	38	71
9 8	22 41.10	− 8 1.2	0.249	1.256	5.4	19.0	173 E	37	72
9 13	22 50.21	− 8 47.7	0.244	1.247	8.0	19.1	170 E	36	73
9 18	23 0.17	− 9 30.8	0.241	1.240	10.5	19.1	167 E	35	74
9 23	23 10.91	−10 6.9	0.241	1.237	12.9	19.2	164 E	35	74
9 28	23 22.29	−10 32.7	0.244	1.235	15.1	19.3	161 E	34	75
10 3	23 34.09	−10 45.8	0.249	1.236	17.2	19.5	159 E	34	75
10 8	23 46.07	−10 45.3	0.258	1.240	19.0	19.6	156 E	34	75
10 13	23 58.01	−10 30.9	0.270	1.245	20.7	19.8	154 E	34	75
10 18	0 9.75	−10 3.0	0.284	1.254	22.2	19.9	152 E	35	74
10 23	0 21.22	− 9 22.7	0.302	1.264	23.5	20.1	150 E	36	73
10 28	0 32.35	− 8 31.8	0.322	1.277	24.7	20.3	148 E	36	73
11 2	0 43.08	− 7 32.2	0.346	1.292	25.8	20.5	146 E	37	72
11 7	0 53.42	− 6 26.0	0.372	1.309	26.8	20.7	143 E	39	70
11 12	1 3.40	− 5 14.9	0.402	1.328	27.7	21.0	141 E	40	69
11 17	1 13.08	− 4 0.2	0.434	1.348	28.6	21.2	139 E	41	68
11 22	1 22.52	− 2 43.2	0.470	1.370	29.4	21.4	137 E	42	67
399446 2002 GF_1									
7 20	21 46.29	−17 25.3	0.720	1.694	15.1	21.8	154 W	28	81
7 25	21 40.21	−18 1.3	0.728	1.720	11.4	21.7	160 W	27	82
7 30	21 33.68	−18 36.6	0.742	1.746	7.7	21.6	167 W	26	83
8 4	21 26.98	−19 9.8	0.761	1.772	4.2	21.5	173 W	26	83
8 9	21 20.38	−19 39.4	0.786	1.798	2.2	21.5	176 W	25	84
8 14	21 14.15	−20 4.6	0.815	1.824	4.2	21.7	172 E	25	84
8 19	21 8.51	−20 24.8	0.851	1.850	7.2	22.0	167 E	25	84
8 24	21 3.64	−20 39.8	0.891	1.876	10.1	22.3	161 E	24	85
8 29	20 59.69	−20 49.7	0.937	1.902	12.8	22.5	155 E	24	85
417264 2006 AT_2									
7 20	21 48.02	− 8 47.4	2.002	2.933	9.7	21.7	151 W	36	73
7 25	21 43.54	− 9 33.1	1.999	2.961	7.7	21.6	157 W	35	74
7 30	21 38.76	−10 20.7	2.003	2.989	5.7	21.5	163 W	35	74
8 4	21 33.81	−11 9.3	2.014	3.017	3.6	21.5	169 W	34	75
8 9	21 28.77	−11 58.3	2.033	3.044	1.6	21.4	175 W	33	76
8 14	21 23.78	−12 46.6	2.060	3.071	1.0	21.4	177 E	32	77
8 19	21 18.93	−13 33.5	2.094	3.098	2.8	21.6	171 E	31	78
8 24	21 14.33	−14 18.3	2.135	3.125	4.6	21.7	166 E	31	78
8 29	21 10.09	−15 0.4	2.185	3.151	6.4	21.9	160 E	30	79
9 3	21 6.28	−15 39.3	2.241	3.176	8.1	22.0	154 E	29	80
9 8	21 2.96	−16 14.9	2.303	3.202	9.6	22.2	148 E	29	80
376811 2000 WU_{124}									
7 20	21 50.69	−51 22.1	2.800	3.657	9.8	22.3	142 W	—	65
7 25	21 45.62	−52 3.8	2.791	3.656	9.5	22.3	143 W	—	64
7 30	21 40.04	−52 40.6	2.787	3.656	9.5	22.3	144 W	—	63
8 4	21 34.08	−53 11.7	2.790	3.655	9.5	22.3	143 W	—	63
8 9	21 27.86	−53 36.6	2.799	3.654	9.8	22.3	142 W	—	62
8 14	21 21.54	−53 54.8	2.814	3.652	10.2	22.3	140 E	—	62
8 19	21 15.27	−54 6.1	2.835	3.651	10.7	22.3	138 E	—	62
8 24	21 9.23	−54 10.5	2.862	3.649	11.3	22.4	135 E	—	62
8 29	21 3.57	−54 8.2	2.893	3.647	11.9	22.4	132 E	—	62
9 3	20 58.41	−53 59.8	2.930	3.645	12.5	22.5	129 E	—	62
23548 1994 EF_2									
7 20	21 55.83	−32 39.6	2.332	3.260	8.6	22.5	151 W	12	83
7 25	21 50.55	−33 1.1	2.296	3.248	7.5	22.4	155 W	12	83
7 30	21 44.77	−33 20.2	2.268	3.235	6.5	22.3	159 W	12	83
8 4	21 38.58	−33 36.2	2.246	3.223	5.8	22.3	161 W	11	82
8 9	21 32.12	−33 48.4	2.231	3.210	5.7	22.2	162 W	11	82
8 14	21 25.50	−33 56.1	2.224	3.196	6.1	22.2	160 E	11	82
8 19	21 18.89	−33 58.8	2.224	3.182	7.0	22.3	157 E	11	82
8 24	21 12.42	−33 56.4	2.232	3.168	8.2	22.3	153 E	11	82
8 29	21 6.25	−33 48.9	2.246	3.154	9.5	22.4	149 E	11	82
9 3	21 0.50	−33 36.4	2.267	3.139	10.9	22.4	144 E	11	82
390774 2003 UJ_{188}									
7 20	21 55.96	−54 0.2	3.065	3.898	9.7	21.8	140 W	—	62
7 25	21 50.62	−54 32.5	3.054	3.896	9.5	21.8	141 W	—	61
7 30	21 44.79	−55 0.0	3.049	3.893	9.4	21.8	141 W	—	61
8 4	21 38.57	−55 22.0	3.049	3.891	9.4	21.8	141 W	—	61
8 9	21 32.11	−55 37.8	3.056	3.888	9.6	21.8	140 W	—	60
8 14	21 25.54	−55 47.3	3.068	3.886	9.9	21.8	139 E	—	60
8 19	21 19.05	−55 50.2	3.086	3.883	10.4	21.9	136 E	—	60
8 24	21 12.78	−55 46.5	3.110	3.879	10.8	21.9	134 E	—	60
8 29	21 6.89	−55 36.5	3.139	3.876	11.4	21.9	131 E	—	60
9 3	21 1.50	−55 20.5	3.172	3.872	11.9	22.0	128 E	—	61
9 8	20 56.70	−54 59.2	3.211	3.869	12.4	22.0	124 E	—	61

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
182231 2001 CZ_{20}									
7 20	21 58.80	− 6 41.4	2.147	3.055	10.3	21.9	148 W	38	71
7 30	21 51.23	− 7 19.2	2.096	3.065	6.8	21.7	159 W	38	71
8 9	21 42.44	− 8 6.9	2.070	3.074	3.3	21.5	170 W	37	72
8 19	21 33.16	− 9 0.7	2.074	3.082	2.1	21.5	174 E	36	73
8 29	21 24.28	− 9 55.7	2.107	3.089	5.3	21.7	164 E	35	74
9 8	21 16.58	−10 47.5	2.167	3.095	8.7	21.9	152 E	34	75
363069 2000 EV_{106}									
7 20	22 3.11	+30 9.0	0.921	1.686	31.1	21.6	121 W	75	34
7 25	22 1.52	+30 6.8	0.863	1.663	30.3	21.4	124 W	75	34
7 30	21 58.97	+29 47.2	0.807	1.640	29.3	21.2	128 W	75	34
8 4	21 55.46	+29 6.7	0.754	1.616	28.0	21.0	132 W	74	35
8 9	21 51.03	+28 1.0	0.703	1.592	26.6	20.7	135 W	73	36
8 14	21 45.73	+26 25.5	0.655	1.568	25.0	20.5	139 W	71	38
8 19	21 39.72	+24 15.3	0.611	1.544	23.4	20.3	143 E	69	40
8 24	21 33.23	+21 26.1	0.571	1.519	21.8	20.0	146 E	66	43
8 29	21 26.54	+17 55.2	0.537	1.494	20.7	19.8	148 E	63	46
9 3	21 19.99	+13 42.2	0.508	1.469	20.5	19.7	149 E	59	50
9 8	21 13.89	+ 8 50.3	0.487	1.444	21.5	19.6	148 E	54	55
9 13	21 8.58	+ 3 27.2	0.472	1.420	23.8	19.5	145 E	48	61
9 18	21 4.36	− 2 15.8	0.464	1.395	27.3	19.6	140 E	43	66
9 20	21 3.05	− 4 35.4	0.463	1.385	28.9	19.6	138 E	40	69
9 22	21 1.96	− 6 55.0	0.464	1.375	30.5	19.6	136 E	38	71
9 24	21 1.12	− 9 13.7	0.465	1.365	32.3	19.7	133 E	36	73
9 26	21 0.53	−11 30.8	0.467	1.355	34.0	19.7	131 E	33	76
9 28	21 0.20	−13 45.4	0.470	1.346	35.7	19.8	128 E	31	78
10 3	21 0.54	−19 7.6	0.482	1.321	39.9	19.9	122 E	26	83
10 8	21 2.55	−24 4.1	0.499	1.298	43.8	20.0	116 E	21	88
10 13	21 6.26	−28 31.2	0.519	1.274	47.2	20.2	110 E	16	87
10 18	21 11.66	−32 28.3	0.541	1.252	50.2	20.3	105 E	13	84
10 23	21 18.70	−35 56.5	0.565	1.230	52.7	20.4	100 E	9	80
10 28	21 27.33	−38 58.1	0.590	1.209	54.8	20.6	96 E	6	77
11 2	21 37.44	−41 35.4	0.614	1.189	56.5	20.7	92 E	3	74
11 7	21 48.95	−43 50.7	0.638	1.170	57.9	20.8	89 E	1	72*
11 12	22 1.77	−45 46.0	0.660	1.153	59.0	20.8	86 E	—	70*
11 17	22 15.85	−47 23.0	0.681	1.137	59.8	20.9	84 E	—	68*
11 22	22 31.10	−48 43.0	0.700	1.122	60.5	20.9	81 E	—	67*
11 27	22 47.39	−49 47.1	0.717	1.109	61.0	21.0	80 E	—	65*
12 2	23 4.63	−50 36.1	0.731	1.098	61.4	21.0	78 E	—	64*
12 7	23 22.70	−51 10.3	0.743	1.089	61.7	21.0	77 E	—	63*
12 12	23 41.52	−51 29.8	0.752	1.082	61.9	21.1	76 E	—	63*
12 17	0 0.98	−51 34.4	0.758	1.077	62.0	21.1	75 E	—	62*
12 22	0 20.98	−51 24.1	0.761	1.074	62.1	21.1	75 E	—	62*
12 27	0 41.41	−50 58.3	0.761	1.074	62.1	21.1	75 E	—	62*
1 1	1 2.15	−50 16.6	0.759	1.076	62.0	21.1	75 E	—	63*
1 6	1 23.10	−49 18.0	0.755	1.080	61.8	21.1	76 E	—	64*
1 11	1 44.18	−48 1.4	0.749	1.086	61.6	21.0	76 E	—	65*
1 16	2 5.32	−46 26.0	0.742	1.094	61.3	21.0	77 E	—	67*
301011 2008 JO									
7 20	22 5.27	− 5 22.0	1.191	2.109	15.8	21.3	146 W	40	69
7 30	21 53.10	− 5 42.8	1.095	2.070	10.8	20.9	158 W	39	70
8 9	21 37.17	− 6 24.7	1.023	2.027	5.4	20.4	169 W	39	70
8 19	21 18.72	− 7 24.0	0.977	1.981	5.2	20.3	170 E	38	71
8 24	21 9.19	− 7 57.8	0.965	1.957	8.1	20.3	164 E	37	72
8 29	20 59.87	− 8 32.7	0.960	1.932	11.5	20.4	158 E	36	73
9 3	20 51.05	− 9 7.6	0.961	1.906	14.9	20.5	151 E	36	73
9 8	20 42.99	− 9 41.3	0.967	1.879	18.3	20.6	144 E	35	74
9 13	20 35.90	−10 12.9	0.979	1.851	21.5	20.7	138 E	35	74
9 18	20 29.95	−10 41.8	0.995	1.823	24.4	20.8	131 E	34	75
9 23	20 25.25	−11 7.5	1.014	1.793	27.2	20.9	125 E	34	75
9 28	20 21.82	−11 29.7	1.036	1.762	29.6	21.0	120 E	34	75
10 3	20 19.68	−11 48.1	1.060	1.731	31.8	21.1	114 E	33	76
10 8	20 18.77	−12 2.7	1.084	1.698	33.8	21.1	109 E	33	76
10 13	20 19.06	−12 13.5	1.109	1.664	35.5	21.2	104 E	33	76
10 18	20 20.48	−12 20.4	1.134	1.630	37.1	21.2	100 E	33	76
10 23	20 22.98	−12 23.4	1.158	1.595	38.4	21.3	95 E	33	76*
10 28	20 26.46	−12 22.6	1.180	1.558	39.6	21.3	91 E	33	74*
11 2	20 30.87	−12 17.7	1.201	1.521	40.7	21.3	87 E	33	71*
11 7	20 36.14	−12 9.0	1.219	1.482	41.6	21.3	84 E	33	68*
11 12	20 42.22	−11 56.2	1.235	1.443	42.5	21.3	80 E	33	64*
11 17	20 49.06	−11 39.2	1.247	1.403	43.3	21.3	77 E	33	61*
11 22	20 56.62	−11 18.1	1.257	1.361	44.1	21.3	74 E	34*	57*
11 27	21 4.85	−10 52.7	1.263	1.319	44.9	21.2	71 E	34*	54*
12 2	21 13.73	−10 22.9	1.265	1.276	45.7	21.2	68 E	34*	50*
12 7	21 23.23	− 9 48.7	1.263	1.233	46.5	21.1	65 E	35*	47*
12 12	21 33.34	− 9 10.1	1.257	1.188	47.4	21.1	63 E	35*	44*
12 17	21 44.06	− 8 26.9	1.247	1.143	48.4	21.0	60 E	35*	41*
12 22	21 55.37	− 7 39.0	1.232	1.098	49.5	20.9	58 E	35*	38*
12 27	22 7.27	− 6 46.7	1.213	1.053	50.9	20.8	56 E	36*	35*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
301011 2008 JO *(continuation)*									
1 1	22 19.76	− 5 49.9	1.188	1.007	52.4	20.7	54 E	36*	33*
1 6	22 32.86	− 4 49.0	1.159	0.962	54.3	20.6	53 E	36*	31*
1 11	22 46.57	− 3 44.1	1.125	0.918	56.5	20.5	51 E	36*	29*
1 16	23 0.92	− 2 35.8	1.086	0.875	59.1	20.4	50 E	36*	27*
399774 2005 NB_7									
7 20	22 7.20	+ 7 19.2	1.434	2.290	17.4	22.2	138 W	52	57
7 30	21 56.65	+ 6 30.0	1.418	2.343	13.2	22.1	148 W	52	57
8 9	21 44.73	+ 5 13.3	1.425	2.394	9.2	22.0	158 W	50	59
8 19	21 32.67	+ 3 35.3	1.458	2.443	7.0	22.0	163 E	49	60
8 29	21 21.78	+ 1 45.8	1.519	2.491	8.1	22.2	160 E	47	62
9 8	21 13.04	− 0 4.7	1.607	2.536	11.1	22.4	151 E	45	64
496819 1994 XE									
7 20	22 8.74	−16 38.2	1.777	2.698	11.2	22.1	149 W	28	81
7 30	22 1.72	−17 51.1	1.705	2.682	7.4	21.8	160 W	27	82
8 9	21 52.77	−19 9.6	1.659	2.665	3.5	21.6	171 W	26	83
8 19	21 42.70	−20 26.3	1.641	2.647	3.1	21.5	172 E	25	84
8 29	21 32.60	−21 33.7	1.650	2.628	7.0	21.7	161 E	23	86
9 8	21 23.64	−22 26.1	1.686	2.608	11.1	21.9	150 E	23	86
312978 1999 JG_{29}									
7 20	22 12.56	+13 32.0	3.504	4.257	10.1	21.4	132 W	59	50
7 30	22 7.39	+13 29.0	3.445	4.283	8.6	21.3	141 W	58	51
8 9	22 1.38	+13 10.8	3.408	4.308	7.0	21.3	149 W	58	51
8 19	21 54.93	+12 38.0	3.397	4.333	5.8	21.2	155 W	58	51
8 29	21 48.52	+11 52.3	3.413	4.357	5.3	21.2	156 E	57	52
9 8	21 42.61	+10 56.8	3.458	4.381	5.9	21.3	153 E	56	53
9 18	21 37.60	+ 9 55.1	3.529	4.404	7.2	21.4	147 E	55	54
97725 2000 GB_{147}									
7 20	22 12.81	− 7 45.8	1.340	2.249	15.0	21.9	145 W	37	72
7 30	22 0.53	− 7 20.5	1.298	2.267	10.1	21.7	157 W	38	71
8 9	21 46.14	− 7 6.5	1.281	2.283	5.0	21.5	169 W	38	71
8 19	21 31.08	− 7 1.4	1.291	2.298	3.5	21.4	172 E	38	71
8 29	21 17.03	− 7 1.8	1.330	2.310	7.9	21.7	162 E	38	71
9 8	21 5.40	− 7 3.8	1.395	2.322	12.6	22.0	150 E	38	71
410622 2008 QF									
7 20	22 15.89	+ 2 25.0	0.370	1.319	30.3	21.3	139 W	47	62
7 25	22 23.74	+ 3 18.7	0.353	1.311	28.8	21.1	142 W	48	61
7 30	22 31.10	+ 4 2.3	0.338	1.304	27.2	20.9	144 W	49	60
8 4	22 37.91	+ 4 34.6	0.325	1.299	25.3	20.8	147 W	50	59
8 9	22 44.14	+ 4 54.2	0.314	1.296	23.1	20.6	150 W	50	59
8 14	22 49.71	+ 5 0.2	0.306	1.294	20.7	20.5	153 W	50	59
8 19	22 54.63	+ 4 52.0	0.301	1.294	18.0	20.4	157 W	50	59
8 24	22 58.94	+ 4 30.3	0.297	1.295	15.1	20.3	161 W	50	59
8 29	23 2.73	+ 3 56.6	0.297	1.299	12.0	20.2	164 W	49	60
9 3	23 6.11	+ 3 13.1	0.299	1.303	9.0	20.1	168 W	48	61
9 8	23 9.18	+ 2 22.5	0.305	1.310	6.2	20.0	172 W	47	62
9 13	23 12.06	+ 1 27.9	0.313	1.318	4.7	20.0	174 E	46	63
9 18	23 14.90	+ 0 32.5	0.325	1.327	5.5	20.1	173 E	46	63
9 23	23 17.86	− 0 20.4	0.339	1.338	8.0	20.3	169 E	45	64
9 28	23 21.08	− 1 8.1	0.357	1.351	10.8	20.6	165 E	44	65
10 3	23 24.64	− 1 48.5	0.379	1.364	13.7	20.9	161 E	43	66
10 8	23 28.56	− 2 20.6	0.403	1.379	16.5	21.1	157 E	43	66
10 13	23 32.89	− 2 43.7	0.431	1.395	19.0	21.4	153 E	42	67
435302 2007 US_6									
7 20	22 18.24	+ 9 28.8	1.627	2.447	17.3	22.1	134 W	54	55
7 25	22 15.58	+ 9 45.9	1.566	2.424	16.0	22.0	139 W	55	54
7 30	22 12.25	+ 9 57.0	1.509	2.401	14.7	21.8	143 W	55	54
8 4	22 8.27	+10 1.7	1.458	2.377	13.2	21.7	148 W	55	54
8 9	22 3.69	+ 9 59.2	1.411	2.353	11.8	21.5	152 W	55	54
8 14	21 58.59	+ 9 49.1	1.370	2.329	10.5	21.4	155 W	55	54
8 19	21 53.10	+ 9 31.1	1.335	2.304	9.6	21.3	158 E	55	54
8 24	21 47.35	+ 9 5.3	1.307	2.279	9.2	21.2	159 E	54	55
8 29	21 41.52	+ 8 32.0	1.284	2.254	9.5	21.1	158 E	54	55
9 3	21 35.79	+ 7 52.0	1.268	2.228	10.5	21.1	156 E	53	56
9 8	21 30.33	+ 7 6.1	1.258	2.202	12.1	21.1	153 E	52	57
9 13	21 25.31	+ 6 15.8	1.253	2.176	14.0	21.2	149 E	51	58
9 18	21 20.89	+ 5 22.1	1.254	2.149	16.0	21.2	144 E	50	59
9 23	21 17.21	+ 4 26.8	1.261	2.123	18.1	21.3	139 E	49	60
9 28	21 14.37	+ 3 31.1	1.272	2.096	20.1	21.3	134 E	49	60
10 3	21 12.44	+ 2 36.5	1.287	2.068	22.1	21.4	129 E	48	61
10 8	21 11.44	+ 1 43.9	1.305	2.041	23.9	21.4	124 E	47	62
513171 2004 MD_6									
7 20	22 25.09	+44 14.6	0.811	1.473	41.3	22.4	107 W	89	20
7 25	22 14.59	+47 2.9	0.784	1.465	41.2	22.3	108 W	88	17
7 30	22 1.16	+49 39.7	0.760	1.456	41.1	22.2	109 W	85	14
8 4	21 44.56	+51 59.6	0.737	1.444	41.3	22.2	110 W	83	12

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
513171 2004 MD_6 *(continuation)*									
8 9	21 24.74	+53 56.2	0.718	1.430	41.7	22.1	110 W	81	10
8 14	21 2.01	+55 23.2	0.701	1.414	42.3	22.0	110 E	80	9
8 19	20 37.18	+56 15.1	0.686	1.397	43.2	22.0	109 E	79	8
8 24	20 11.50	+56 28.9	0.674	1.377	44.3	21.9	108 E	79	8
8 29	19 46.44	+56 4.8	0.664	1.355	45.7	21.9	106 E	79	8
9 3	19 23.25	+55 6.4	0.655	1.331	47.3	21.9	104 E	80	9
9 8	19 2.77	+53 39.0	0.648	1.305	49.1	21.9	102 E	81	10
153951 2002 AC_3									
7 20	22 27.11	− 7 0.5	1.428	2.311	15.9	22.1	141 W	38	71
7 30	22 16.28	− 6 49.0	1.381	2.333	11.3	21.8	153 W	38	71
8 9	22 3.14	− 6 49.9	1.358	2.353	6.2	21.6	165 W	38	71
8 19	21 48.92	− 7 0.0	1.363	2.372	2.5	21.4	174 E	38	71
8 29	21 35.17	− 7 15.0	1.396	2.389	5.8	21.7	166 E	38	71
9 8	21 23.30	− 7 30.2	1.456	2.404	10.5	22.0	154 E	37	72
171784 2001 BV_{67}									
7 20	22 32.17	−10 36.9	2.222	3.084	11.8	21.4	142 W	34	75
7 30	22 25.22	−11 2.6	2.155	3.094	8.6	21.2	153 W	34	75
8 9	22 16.60	−11 35.6	2.113	3.102	4.9	21.0	165 W	33	76
8 19	22 6.92	−12 12.0	2.099	3.110	1.1	20.7	177 W	33	76
8 29	21 57.03	−12 47.6	2.115	3.116	2.9	20.9	171 E	32	77
9 8	21 47.83	−13 18.4	2.159	3.122	6.6	21.1	159 E	32	77
9 18	21 40.06	−13 41.4	2.231	3.126	9.9	21.4	147 E	31	78
488799 2005 EE_{38}									
7 20	22 34.40	+14 7.9	1.427	2.205	21.2	21.3	128 W	59	50
7 25	22 31.63	+13 25.3	1.384	2.209	19.5	21.2	133 W	58	51
7 30	22 28.13	+12 31.6	1.346	2.213	17.6	21.1	139 W	58	51
8 4	22 23.97	+11 26.3	1.312	2.216	15.5	21.0	144 W	56	53
8 9	22 19.23	+10 9.6	1.284	2.219	13.3	20.8	150 W	55	54
8 14	22 14.02	+ 8 42.0	1.262	2.222	11.1	20.7	155 W	54	55
8 19	22 8.50	+ 7 4.3	1.247	2.224	9.0	20.6	160 W	52	57
8 24	22 2.83	+ 5 18.3	1.238	2.226	7.4	20.5	163 E	50	59
8 29	21 57.21	+ 3 26.1	1.237	2.228	6.9	20.5	165 E	48	61
9 3	21 51.82	+ 1 30.4	1.244	2.229	7.5	20.6	163 E	47	62
9 8	21 46.82	− 0 26.2	1.258	2.230	9.2	20.7	159 E	45	64
9 13	21 42.35	− 2 21.2	1.280	2.230	11.2	20.8	154 E	43	66
9 18	21 38.53	− 4 12.3	1.308	2.230	13.4	20.9	149 E	41	68
9 23	21 35.48	− 5 57.6	1.343	2.230	15.6	21.0	143 E	39	70
9 28	21 33.24	− 7 35.6	1.384	2.230	17.6	21.2	138 E	37	72
10 3	21 31.83	− 9 5.5	1.430	2.229	19.4	21.3	132 E	36	73
10 8	21 31.27	−10 26.8	1.480	2.227	21.1	21.4	127 E	35	74
306695 2000 VL_1									
7 20	22 55.65	−39 48.9	3.044	3.856	10.2	21.4	138 W	5	76
7 25	22 53.00	−40 40.6	3.016	3.858	9.6	21.4	141 W	4	75
7 30	22 49.81	−41 31.0	2.994	3.859	9.0	21.3	144 W	3	74
8 4	22 46.12	−42 19.4	2.979	3.860	8.5	21.3	146 W	3	74
8 9	22 41.98	−43 4.7	2.970	3.861	8.2	21.3	147 W	2	73
8 14	22 37.46	−43 46.3	2.967	3.862	8.1	21.3	148 W	1	72
8 19	22 32.63	−44 23.3	2.971	3.862	8.1	21.3	147 W	1	72
8 24	22 27.61	−44 55.2	2.982	3.862	8.4	21.3	146 W	—	71
8 29	22 22.51	−45 21.3	2.999	3.862	8.8	21.3	144 E	—	71
9 3	22 17.43	−45 41.5	3.023	3.862	9.4	21.4	141 E	—	70
9 8	22 12.50	−45 55.7	3.052	3.861	10.0	21.4	138 E	—	70
9 13	22 7.81	−46 3.8	3.087	3.860	10.7	21.5	135 E	—	70
9 18	22 3.46	−46 6.1	3.128	3.859	11.4	21.5	131 E	—	70
9 23	21 59.55	−46 2.8	3.173	3.858	12.0	21.6	127 E	—	70
197588 2004 HE_{12}									
7 20	23 13.19	−23 51.1	1.890	2.705	15.4	21.5	135 W	21	88
7 30	23 1.43	−24 11.2	1.802	2.704	12.1	21.3	146 W	21	88
8 9	22 46.40	−24 26.9	1.738	2.702	8.4	21.0	157 W	21	88
8 19	22 28.98	−24 30.4	1.705	2.697	5.3	20.9	166 W	20	89
8 29	22 10.64	−24 15.1	1.704	2.690	5.8	20.9	164 E	21	88
9 8	21 53.10	−23 38.3	1.736	2.682	9.2	21.1	155 E	21	88
9 18	21 37.85	−22 42.0	1.798	2.672	13.0	21.3	143 E	22	87
9 28	21 25.91	−21 30.9	1.885	2.659	16.3	21.5	132 E	23	86
343098 2009 DV_{42}									
7 20	23 19.44	−20 20.8	1.043	1.889	23.1	21.3	133 W	25	84
7 30	23 20.65	−23 48.4	0.956	1.863	19.7	20.9	142 W	21	88
8 9	23 17.85	−27 51.9	0.888	1.835	16.3	20.6	149 W	17	88
8 19	23 10.65	−32 13.6	0.842	1.806	14.3	20.4	154 W	13	84
8 24	23 5.46	−34 22.6	0.827	1.791	14.5	20.4	154 W	11	82
8 29	22 59.39	−36 24.7	0.818	1.775	15.4	20.4	152 W	9	80
9 3	22 52.67	−38 16.2	0.815	1.759	17.0	20.4	149 W	7	78
9 8	22 45.55	−39 53.8	0.816	1.743	19.1	20.4	145 E	5	76
9 13	22 38.39	−41 15.1	0.823	1.726	21.5	20.5	141 E	4	75

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
343098 2009 DV_{42} *(continuation)*									
9 18	22 31.53	−42 18.8	0.834	1.709	23.9	20.6	137 E	3	74
9 23	22 25.35	−43 4.5	0.848	1.692	26.2	20.7	132 E	2	73
9 28	22 20.14	−43 33.1	0.865	1.674	28.4	20.8	127 E	1	72
10 3	22 16.12	−43 45.8	0.885	1.656	30.5	20.8	123 E	1	72
10 8	22 13.41	−43 44.3	0.906	1.638	32.4	20.9	118 E	1	72
10 13	22 12.09	−43 30.0	0.928	1.619	34.1	21.0	114 E	1	72
10 18	22 12.16	−43 4.4	0.952	1.601	35.7	21.1	110 E	2	73
10 23	22 13.60	−42 28.9	0.975	1.582	37.0	21.1	107 E	3	74
10 28	22 16.32	−41 44.7	0.999	1.563	38.2	21.2	103 E	3	74
11 2	22 20.22	−40 52.7	1.022	1.544	39.3	21.3	100 E	4	75
11 7	22 25.18	−39 53.6	1.045	1.524	40.2	21.3	97 E	5	76
11 12	22 31.11	−38 47.8	1.067	1.505	41.0	21.3	94 E	6	77
11 17	22 37.90	−37 35.6	1.088	1.485	41.7	21.4	91 E	7	78
11 22	22 45.48	−36 17.4	1.108	1.466	42.3	21.4	89 E	9	79*
11 27	22 53.75	−34 53.4	1.126	1.447	42.9	21.4	86 E	10	79*
12 2	23 2.62	−33 23.7	1.143	1.428	43.4	21.4	84 E	12	78*
12 7	23 12.02	−31 48.4	1.159	1.409	43.8	21.5	82 E	13	76*
12 12	23 21.89	−30 7.5	1.174	1.390	44.2	21.5	80 E	15	73*
12 17	23 32.21	−28 21.1	1.187	1.371	44.5	21.5	78 E	17	71*
12 22	23 42.92	−26 29.2	1.199	1.353	44.8	21.5	76 E	19	68*
12 27	23 53.98	−24 32.1	1.209	1.335	45.1	21.5	74 E	20	66*
1 1	0 5.37	−22 29.8	1.219	1.318	45.4	21.5	73 E	23	63*
1 6	0 17.06	−20 22.5	1.227	1.301	45.7	21.5	71 E	25	60*
1 11	0 29.05	−18 10.4	1.235	1.285	45.9	21.4	70 E	27*	58*
1 16	0 41.33	−15 53.6	1.242	1.270	46.1	21.4	68 E	29*	55*
486001 2012 MR_7									
7 20	23 25.90	+30 22.2	0.983	1.624	36.4	21.4	109 W	75	34
7 25	23 27.67	+33 1.5	0.945	1.612	36.2	21.3	111 W	78	31
7 30	23 28.56	+35 41.0	0.908	1.599	35.9	21.2	112 W	81	28
8 4	23 28.44	+38 19.4	0.874	1.587	35.7	21.1	114 W	83	26
8 9	23 27.20	+40 55.1	0.843	1.574	35.5	21.0	116 W	86	23
8 14	23 24.68	+43 25.9	0.813	1.561	35.3	20.9	117 W	88	21
8 19	23 20.77	+45 49.5	0.786	1.548	35.2	20.8	118 W	89	18
8 24	23 15.38	+48 3.1	0.762	1.534	35.1	20.7	119 W	87	16
8 29	23 8.51	+50 3.8	0.740	1.521	35.1	20.6	120 W	85	14
9 3	23 0.23	+51 49.0	0.719	1.508	35.2	20.5	121 W	83	12
9 8	22 50.71	+53 16.1	0.701	1.494	35.3	20.5	121 E	82	11
9 13	22 40.28	+54 22.7	0.685	1.481	35.6	20.4	121 E	81	10
9 18	22 29.43	+55 7.1	0.670	1.468	35.9	20.3	121 E	80	9
9 20	22 25.11	+55 18.6	0.665	1.462	36.1	20.3	121 E	80	9
9 22	22 20.86	+55 26.4	0.660	1.457	36.2	20.3	121 E	80	9
9 24	22 16.73	+55 30.6	0.655	1.452	36.4	20.3	121 E	79	8
9 26	22 12.76	+55 31.4	0.650	1.447	36.6	20.3	121 E	79	8
9 28	22 8.98	+55 28.8	0.646	1.441	36.8	20.2	120 E	80	9
9 30	22 5.42	+55 23.0	0.642	1.436	37.0	20.2	120 E	80	9
10 2	22 2.12	+55 14.0	0.637	1.431	37.2	20.2	120 E	80	9
10 4	21 59.11	+55 2.1	0.634	1.426	37.5	20.2	120 E	80	9
10 6	21 56.40	+54 47.3	0.630	1.421	37.7	20.2	120 E	80	9
10 8	21 54.02	+54 29.8	0.626	1.416	38.0	20.2	119 E	80	9
10 13	21 49.63	+53 35.3	0.618	1.403	38.6	20.1	119 E	81	10
10 18	21 47.59	+52 27.5	0.610	1.391	39.3	20.1	118 E	83	12
10 23	21 47.97	+51 9.1	0.604	1.379	40.0	20.1	117 E	84	13
10 28	21 50.71	+49 42.4	0.598	1.367	40.7	20.1	116 E	85	14
11 2	21 55.68	+48 9.1	0.593	1.356	41.4	20.0	115 E	87	16
11 7	22 2.72	+46 30.6	0.588	1.345	42.2	20.0	114 E	88	17
11 12	22 11.69	+44 47.7	0.585	1.334	42.9	20.0	113 E	90	19*
11 17	22 22.44	+43 1.4	0.583	1.324	43.7	20.0	112 E	88	21*
11 22	22 34.78	+41 12.5	0.582	1.315	44.4	20.0	111 E	86	23*
11 27	22 48.53	+39 21.7	0.582	1.306	45.2	20.0	110 E	84	24*
12 2	23 3.47	+37 29.4	0.584	1.298	45.9	20.0	109 E	82	26*
12 7	23 19.43	+35 36.1	0.587	1.291	46.7	20.1	108 E	81	27*
12 12	23 36.23	+33 42.3	0.593	1.284	47.4	20.1	106 E	79	29*
12 17	23 53.70	+31 49.0	0.600	1.278	48.1	20.1	105 E	77	30*
12 22	0 11.66	+29 57.0	0.610	1.273	48.7	20.2	104 E	75	32*
12 27	0 29.95	+28 7.3	0.622	1.269	49.3	20.2	102 E	73	33*
1 1	0 48.40	+26 20.5	0.636	1.265	49.8	20.3	101 E	71	35*
1 6	1 6.89	+24 37.4	0.653	1.262	50.3	20.3	99 E	70	36*
1 11	1 25.32	+22 58.7	0.671	1.261	50.7	20.4	97 E	68	37*
1 16	1 43.61	+21 25.0	0.693	1.260	51.0	20.5	96 E	66	39*
136620 1994 JC									
7 20	23 30.62	−44 23.0	3.560	4.289	10.4	21.5	130 W	1	72
7 30	23 24.90	−45 33.7	3.531	4.321	9.4	21.4	136 W	—	70
8 9	23 17.21	−46 35.8	3.523	4.352	8.6	21.4	140 W	—	69
8 19	23 7.95	−47 24.0	3.540	4.382	8.2	21.4	142 W	—	69
8 29	22 57.76	−47 53.9	3.581	4.412	8.3	21.5	141 W	—	68
9 8	22 47.45	−48 2.8	3.646	4.441	8.8	21.5	137 E	—	68
9 18	22 37.78	−47 50.4	3.734	4.469	9.6	21.6	132 E	—	68
9 28	22 29.45	−47 18.2	3.844	4.497	10.5	21.8	125 E	—	69

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
489235 2006 QA_{58}									
7 20	23 36.56	+17 29.1	0.533	1.327	44.3	21.3	114 W	62	47
7 25	23 46.14	+16 3.3	0.488	1.316	43.2	21.1	118 W	61	48
7 30	23 55.90	+14 4.2	0.445	1.303	41.7	20.8	121 W	59	50
8 4	0 5.90	+11 24.0	0.404	1.291	39.9	20.6	125 W	56	53
8 9	0 16.20	+ 7 53.0	0.366	1.278	37.7	20.3	130 W	53	56
8 11	0 20.42	+ 6 12.0	0.351	1.273	36.8	20.1	131 W	51	58
8 13	0 24.70	+ 4 20.4	0.337	1.268	35.8	20.0	133 W	49	60
8 15	0 29.04	+ 2 17.5	0.324	1.262	34.7	19.9	135 W	47	62
8 17	0 33.44	+ 0 2.9	0.312	1.257	33.7	19.8	136 W	45	64
8 19	0 37.92	− 2 23.9	0.300	1.252	32.7	19.7	138 W	43	66
8 24	0 49.49	− 9 24.7	0.276	1.239	30.7	19.4	141 W	36	73
8 29	1 1.68	−17 35.1	0.259	1.225	30.2	19.2	142 W	27	82
9 3	1 14.61	−26 31.5	0.249	1.212	32.0	19.2	141 W	18	89
9 8	1 28.37	−35 35.7	0.248	1.198	35.9	19.2	136 W	9	80
9 10	1 34.11	−39 6.2	0.250	1.193	37.8	19.3	133 W	6	77
9 12	1 40.00	−42 28.9	0.253	1.187	39.9	19.4	131 W	3	74
9 14	1 46.02	−45 42.0	0.257	1.182	42.0	19.4	128 W	—	70
9 16	1 52.19	−48 44.2	0.262	1.177	44.1	19.5	125 W	—	67
9 18	1 58.49	−51 34.6	0.267	1.171	46.2	19.6	123 W	—	64
9 23	2 14.86	−57 46.3	0.285	1.158	50.9	19.9	116 W	—	58
9 28	2 32.03	−62 43.5	0.305	1.145	55.0	20.1	111 W	—	53
10 3	2 49.81	−66 35.4	0.327	1.133	58.3	20.3	106 W	—	49
10 8	3 7.85	−69 33.2	0.349	1.121	61.0	20.5	101 W	—	46
10 13	3 25.69	−71 47.4	0.371	1.109	63.1	20.7	98 W	—	44
10 18	3 42.87	−73 26.5	0.391	1.098	64.8	20.9	94 W	—	43
10 23	3 59.02	−74 37.7	0.410	1.088	66.1	21.0	92 W	—	41
10 28	4 13.89	−75 26.8	0.427	1.078	67.2	21.1	89 W	—	41
11 2	4 27.32	−75 58.4	0.442	1.069	68.0	21.2	88 W	—	40
11 7	4 39.20	−76 16.1	0.454	1.061	68.7	21.2	86 W	—	40
11 12	4 49.50	−76 22.0	0.463	1.054	69.3	21.3	85 W	—	40
11 17	4 58.34	−76 17.7	0.469	1.047	69.8	21.3	84 W	—	40
11 22	5 5.96	−76 4.1	0.472	1.042	70.2	21.3	83 W	—	40
11 27	5 12.61	−75 41.8	0.472	1.038	70.5	21.3	83 W	—	40
12 2	5 18.46	−75 11.3	0.469	1.036	70.7	21.3	83 W	—	41
12 7	5 23.64	−74 32.3	0.462	1.034	70.9	21.3	83 W	—	41
12 12	5 28.26	−73 43.9	0.452	1.034	71.1	21.2	83 W	—	42
12 17	5 32.50	−72 44.3	0.440	1.034	71.1	21.2	84 E	—	43
12 22	5 36.58	−71 31.7	0.424	1.036	71.0	21.1	85 E	—	44
12 27	5 40.66	−70 3.4	0.406	1.039	70.8	21.0	86 E	—	46
1 1	5 44.86	−68 15.8	0.385	1.044	70.3	20.9	88 E	—	48
1 6	5 49.24	−66 3.6	0.362	1.049	69.6	20.7	90 E	—	50
1 11	5 53.94	−63 19.3	0.338	1.055	68.6	20.6	93 E	—	53
1 16	5 59.14	−59 52.9	0.313	1.063	67.0	20.4	96 E	—	56
452435 2003 GB									
7 30	0 5.01	+14 21.4	2.588	3.209	16.0	21.5	119 W	59	50
8 9	0 2.08	+13 38.2	2.511	3.251	13.9	21.4	129 W	59	50
8 19	23 57.31	+12 35.3	2.451	3.293	11.3	21.2	140 W	58	51
8 29	23 51.03	+11 13.4	2.412	3.334	8.4	21.1	151 W	56	53
9 8	23 43.77	+ 9 35.6	2.400	3.373	5.3	21.0	162 W	55	54
9 18	23 36.16	+ 7 46.9	2.418	3.413	2.9	20.9	170 E	53	56
9 28	23 28.90	+ 5 54.0	2.467	3.451	3.7	21.0	167 E	51	58
10 8	23 22.61	+ 4 4.0	2.548	3.489	6.4	21.2	157 E	49	60
10 18	23 17.75	+ 2 23.0	2.656	3.526	9.1	21.5	146 E	47	62
220906 2005 BC_7									
7 30	0 9.58	− 1 41.4	1.456	2.206	22.0	21.4	125 W	43	66
8 9	0 8.06	− 2 16.9	1.379	2.220	18.6	21.2	136 W	43	66
8 19	0 3.40	− 3 12.7	1.318	2.233	14.5	21.0	147 W	42	67
8 29	23 55.88	− 4 25.3	1.276	2.245	9.6	20.7	158 W	41	68
9 8	23 46.26	− 5 47.5	1.257	2.256	4.4	20.5	170 W	39	70
9 13	23 41.00	− 6 29.2	1.257	2.262	2.2	20.3	175 W	39	70
9 18	23 35.66	− 7 9.7	1.265	2.267	2.5	20.4	174 E	38	71
9 23	23 30.44	− 7 47.7	1.278	2.272	4.8	20.5	169 E	37	72
9 28	23 25.50	− 8 22.0	1.299	2.276	7.3	20.7	163 E	37	72
10 3	23 20.99	− 8 51.8	1.325	2.281	9.8	20.8	157 E	36	73
10 8	23 17.05	− 9 16.4	1.358	2.285	12.1	21.0	151 E	36	73
10 13	23 13.75	− 9 35.6	1.396	2.289	14.3	21.1	146 E	35	74
10 18	23 11.18	− 9 49.2	1.439	2.293	16.2	21.3	140 E	35	74
10 23	23 9.37	− 9 57.0	1.487	2.297	18.0	21.4	135 E	35	74
407653 2011 QF_3									
7 30	0 16.96	+ 3 38.4	1.869	2.553	19.8	21.4	122 W	49	60
8 9	0 16.36	+ 3 11.5	1.718	2.509	17.6	21.1	132 W	48	61
8 19	0 13.01	+ 2 21.6	1.583	2.462	14.6	20.8	142 W	47	62
8 29	0 6.73	+ 1 7.0	1.466	2.414	10.6	20.4	154 W	46	63
9 8	23 57.72	− 0 31.1	1.373	2.364	5.8	20.0	166 W	44	65

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
407653 2011 QF_3 *(continuation)*									
9 13	23 52.35	− 1 27.6	1.336	2.338	3.1	19.8	173 W	44	65
9 18	23 46.56	− 2 27.6	1.307	2.312	0.5	19.5	179 W	43	66
9 23	23 40.51	− 3 29.7	1.285	2.285	2.7	19.6	174 E	42	67
9 28	23 34.37	− 4 32.3	1.270	2.258	5.7	19.7	167 E	40	69
10 3	23 28.35	− 5 33.8	1.262	2.230	8.6	19.8	160 E	39	70
10 8	23 22.61	− 6 32.6	1.260	2.202	11.5	19.9	154 E	38	71
10 13	23 17.34	− 7 27.3	1.265	2.173	14.3	20.0	147 E	38	71
10 18	23 12.70	− 8 16.7	1.276	2.144	17.0	20.1	141 E	37	72
10 23	23 8.82	− 8 59.9	1.291	2.115	19.5	20.2	135 E	36	73
10 28	23 5.79	− 9 36.3	1.311	2.084	21.8	20.2	129 E	35	74
11 7	23 2.46	−10 28.0	1.360	2.023	25.7	20.4	118 E	35	74
11 17	23 2.86	−10 52.0	1.417	1.960	28.7	20.5	108 E	34	75
11 27	23 6.85	−10 50.0	1.476	1.894	31.0	20.6	99 E	34	74*
12 7	23 14.11	−10 24.8	1.534	1.828	32.6	20.6	90 E	35	69*
12 17	23 24.28	− 9 38.7	1.587	1.759	33.7	20.6	83 E	35	62*
12 27	23 37.08	− 8 33.8	1.632	1.690	34.4	20.6	76 E	36	56*
1 6	23 52.21	− 7 11.9	1.669	1.619	34.8	20.6	70 E	38*	49*
1 16	0 9.50	− 5 34.4	1.695	1.548	35.0	20.5	64 E	38*	44*
496863 2000 CL_{59}									
7 30	0 19.69	−11 56.0	1.230	2.005	24.1	21.3	126 W	33	76
8 9	0 23.30	−16 0.1	1.138	1.990	21.1	21.0	135 W	29	80
8 19	0 23.63	−20 47.7	1.068	1.974	17.8	20.7	143 W	24	85
8 29	0 20.32	−26 2.7	1.021	1.958	15.4	20.5	149 W	19	90
9 8	0 13.43	−31 17.2	1.001	1.940	15.0	20.5	150 W	14	85
9 13	0 8.83	−33 44.2	1.001	1.931	15.9	20.5	148 W	11	82
9 18	0 3.66	−35 59.1	1.007	1.922	17.2	20.5	146 W	9	80
9 23	23 58.13	−37 58.9	1.019	1.912	18.9	20.6	142 E	7	78
9 28	23 52.52	−39 41.3	1.037	1.903	20.7	20.7	138 E	5	76
10 3	23 47.07	−41 5.4	1.059	1.893	22.5	20.8	134 E	4	75
10 8	23 42.05	−42 11.2	1.085	1.883	24.3	20.9	129 E	3	74
10 13	23 37.68	−42 59.3	1.114	1.873	25.9	21.0	125 E	2	73
10 18	23 34.14	−43 30.7	1.147	1.862	27.4	21.1	121 E	1	72
10 23	23 31.59	−43 46.8	1.181	1.852	28.8	21.2	116 E	1	72
10 28	23 30.10	−43 49.5	1.217	1.841	29.9	21.2	112 E	1	72
11 2	23 29.69	−43 40.2	1.253	1.830	30.9	21.3	109 E	1	72
11 7	23 30.36	−43 20.4	1.290	1.820	31.7	21.4	105 E	2	73
11 12	23 32.06	−42 51.4	1.328	1.809	32.4	21.5	102 E	2	73
508987 2005 ER_{133}									
7 30	0 39.45	− 5 18.9	1.468	2.159	24.1	21.3	120 W	40	69
8 9	0 39.51	− 4 5.1	1.335	2.122	21.9	21.0	129 W	41	68
8 19	0 35.97	− 2 52.5	1.215	2.085	18.7	20.7	139 W	42	67
8 29	0 28.37	− 1 39.7	1.111	2.047	14.4	20.3	150 W	43	66
9 8	0 16.66	− 0 25.1	1.027	2.009	9.0	19.9	162 W	45	64
9 18	0 1.41	+ 0 52.2	0.969	1.971	2.8	19.4	175 W	46	63
9 28	23 44.16	+ 2 12.2	0.937	1.933	4.4	19.4	171 E	47	62
10 8	23 27.15	+ 3 34.4	0.932	1.896	11.4	19.6	158 E	49	60
10 18	23 12.59	+ 4 58.2	0.951	1.858	17.8	19.9	145 E	50	59
10 28	23 2.16	+ 6 24.7	0.990	1.822	23.4	20.1	133 E	51	58
11 7	22 56.55	+ 7 55.5	1.044	1.786	27.8	20.3	123 E	53	56
11 17	22 55.74	+ 9 32.5	1.107	1.751	31.2	20.5	113 E	55	54
11 27	22 59.36	+11 17.9	1.174	1.718	33.7	20.6	105 E	56	52*
12 7	23 6.87	+13 12.8	1.243	1.686	35.4	20.8	98 E	58	48*
12 17	23 17.77	+15 17.4	1.311	1.656	36.4	20.9	91 E	60	42*
12 27	23 31.68	+17 32.0	1.376	1.629	37.0	21.0	86 E	63	36*
1 6	23 48.28	+19 55.3	1.439	1.604	37.2	21.0	81 E	65*	30*
1 16	0 7.41	+22 25.8	1.497	1.581	37.1	21.1	76 E	65*	25*
2201 Oljato									
7 30	1 14.63	+ 4 56.8	3.139	3.584	15.6	21.4	108 W	49*	59
8 9	1 13.89	+ 4 44.5	2.975	3.562	14.6	21.2	118 W	50	59
8 19	1 11.17	+ 4 20.2	2.823	3.538	13.0	21.0	128 W	49	60
8 29	1 6.38	+ 3 43.5	2.688	3.513	10.9	20.8	139 W	49	60
9 8	0 59.58	+ 2 55.2	2.574	3.487	8.2	20.6	151 W	48	61
9 18	0 51.01	+ 1 57.0	2.487	3.458	5.0	20.3	162 W	47	62
9 28	0 41.14	+ 0 52.6	2.429	3.428	1.7	20.1	174 W	46	63
10 8	0 30.68	− 0 13.3	2.405	3.396	2.5	20.1	171 E	45	64
10 13	0 25.48	− 0 45.1	2.405	3.379	4.3	20.2	165 E	44	65
10 18	0 20.43	− 1 15.3	2.412	3.362	6.0	20.3	159 E	44	65
10 23	0 15.63	− 1 43.3	2.428	3.345	7.8	20.4	153 E	43	66
10 28	0 11.18	− 2 8.4	2.451	3.327	9.4	20.4	147 E	43	66
11 7	0 3.59	− 2 48.9	2.515	3.290	12.3	20.6	135 E	42	67
11 17	23 58.06	− 3 14.8	2.600	3.251	14.7	20.7	123 E	42	67
11 27	23 54.79	− 3 25.4	2.700	3.210	16.5	20.8	113 E	42	67
12 7	23 53.79	− 3 21.5	2.809	3.167	17.7	20.9	102 E	42	67*
12 17	23 54.92	− 3 4.1	2.922	3.122	18.4	21.0	92 E	42	63*
12 27	23 58.03	− 2 34.5	3.034	3.075	18.5	21.1	83 E	42	56*
1 6	0 2.88	− 1 54.4	3.140	3.026	18.2	21.1	74 E	43*	48*
1 16	0 9.27	− 1 5.0	3.238	2.975	17.6	21.1	66 E	43*	41*