20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
294698 2008 BJ_2									
5 21	21 56.26	−14 7.1	1.662	2.003	30.3	21.4	94 W	24*	78
5 31	22 11.74	−13 24.8	1.530	1.972	30.5	21.2	100 W	26*	77
6 10	22 26.16	−12 51.7	1.402	1.941	30.2	21.0	106 W	28*	77
6 20	22 39.28	−12 31.6	1.279	1.910	29.5	20.7	112 W	30*	77
6 30	22 50.78	−12 28.3	1.165	1.881	28.2	20.5	119 W	32*	76
7 10	23 0.30	−12 45.6	1.059	1.852	26.2	20.2	126 W	32*	77
7 20	23 7.41	−13 27.0	0.964	1.825	23.5	19.8	134 W	32	77
7 30	23 11.61	−14 34.2	0.881	1.799	19.9	19.5	143 W	30	79
8 9	23 12.62	−16 5.6	0.813	1.774	15.5	19.1	152 W	29	80
8 14	23 11.88	−16 58.5	0.786	1.762	13.2	19.0	157 W	28	81
8 19	23 10.34	−17 54.3	0.763	1.751	10.9	18.8	161 W	27	82
8 24	23 8.08	−18 51.3	0.744	1.740	9.0	18.7	164 W	26	83
8 29	23 5.25	−19 47.0	0.731	1.729	7.8	18.6	167 W	25	84
9 3	23 2.02	−20 39.4	0.722	1.719	7.9	18.5	167 W	24	85
9 8	22 58.59	−21 26.2	0.719	1.710	9.3	18.6	164 E	24	85
9 13	22 55.16	−22 5.4	0.720	1.701	11.5	18.6	160 E	23	86
9 18	22 51.98	−22 35.6	0.725	1.693	14.0	18.7	156 E	22	87
9 23	22 49.29	−22 55.5	0.735	1.686	16.7	18.9	151 E	22	87
9 28	22 47.27	−23 4.8	0.749	1.679	19.2	19.0	146 E	22	87
10 3	22 46.07	−23 3.3	0.767	1.672	21.7	19.1	142 E	22	87
10 8	22 45.77	−22 51.6	0.788	1.666	24.0	19.2	137 E	22	87
10 13	22 46.42	−22 30.3	0.812	1.661	26.0	19.3	133 E	22	87
10 18	22 48.04	−22 0.0	0.839	1.657	27.9	19.5	129 E	23	86
10 23	22 50.62	−21 21.4	0.868	1.653	29.5	19.6	125 E	24	85
10 28	22 54.12	−20 35.5	0.900	1.651	31.0	19.7	121 E	24	85
11 2	22 58.45	−19 43.1	0.933	1.648	32.2	19.8	118 E	25	84
11 7	23 3.56	−18 44.8	0.968	1.647	33.2	19.9	114 E	26	83
11 12	23 9.36	−17 41.4	1.005	1.646	34.1	20.0	111 E	27	82
11 17	23 15.80	−16 33.4	1.043	1.646	34.8	20.1	108 E	28	81
11 22	23 22.81	−15 21.4	1.083	1.647	35.4	20.2	105 E	30	79
11 27	23 30.33	−14 5.8	1.124	1.648	35.8	20.3	102 E	31	78
12 2	23 38.28	−12 47.4	1.166	1.650	36.1	20.4	100 E	32	77*
12 7	23 46.62	−11 26.4	1.210	1.653	36.2	20.5	97 E	34	74*
12 17	0 4.29	− 8 38.5	1.299	1.661	36.3	20.6	92 E	36	68*
12 27	0 23.07	− 5 45.4	1.393	1.671	36.0	20.8	88 E	39	62*
1 6	0 42.71	− 2 50.2	1.490	1.685	35.4	21.0	83 E	42	56*
1 16	1 3.06	+ 0 4.5	1.590	1.700	34.6	21.1	79 E	45	51*
91210 1998 XS_{96}									
5 21	21 58.77	−12 50.4	1.968	2.257	26.6	21.4	93 W	25*	77
5 31	22 9.98	−11 59.8	1.820	2.226	26.7	21.2	100 W	27*	76
6 10	22 19.72	−11 17.3	1.676	2.194	26.3	21.0	107 W	30*	75
6 20	22 27.71	−10 45.5	1.537	2.162	25.4	20.8	114 W	33*	75
6 30	22 33.57	−10 27.4	1.405	2.129	23.8	20.5	122 W	34*	74
7 10	22 36.95	−10 26.0	1.284	2.096	21.5	20.2	131 W	35	74
7 20	22 37.43	−10 43.8	1.175	2.063	18.3	19.9	141 W	34	75
7 30	22 34.74	−11 21.9	1.082	2.030	14.1	19.5	151 W	34	75
8 9	22 28.89	−12 18.8	1.007	1.996	9.0	19.1	162 W	33	76
8 14	22 24.90	−12 52.7	0.977	1.979	6.2	18.9	168 W	32	77
8 19	22 20.33	−13 29.1	0.954	1.962	3.4	18.7	173 W	32	77
8 24	22 15.36	−14 6.4	0.935	1.946	1.6	18.5	177 W	31	78
8 29	22 10.18	−14 43.4	0.923	1.929	3.8	18.6	173 E	30	79
9 3	22 5.02	−15 18.5	0.917	1.913	6.9	18.7	167 E	30	79
9 8	22 0.08	−15 50.4	0.915	1.896	10.1	18.8	161 E	29	80
9 13	21 55.58	−16 18.1	0.920	1.880	13.2	19.0	155 E	29	80
9 18	21 51.73	−16 40.7	0.929	1.863	16.1	19.1	149 E	28	81
9 23	21 48.70	−16 57.4	0.943	1.847	18.9	19.2	143 E	28	81
9 28	21 46.60	−17 8.0	0.960	1.832	21.5	19.3	138 E	28	81
10 8	21 45.45	−17 10.7	1.005	1.801	26.0	19.5	128 E	28	81
10 18	21 48.45	−16 49.6	1.060	1.771	29.6	19.7	119 E	28	81
10 28	21 55.37	−16 6.1	1.122	1.742	32.3	19.8	111 E	29	80
11 7	22 5.73	−15 2.3	1.188	1.715	34.2	20.0	103 E	30	79
11 17	22 18.99	−13 39.8	1.257	1.689	35.5	20.1	97 E	31	77*
11 27	22 34.69	−12 0.0	1.326	1.665	36.3	20.2	91 E	33	72*
12 7	22 52.36	−10 4.6	1.395	1.644	36.7	20.3	86 E	35	65*
12 17	23 11.65	− 7 55.3	1.464	1.625	36.7	20.4	81 E	37	59*
12 27	23 32.29	− 5 33.9	1.532	1.609	36.4	20.4	76 E	39	53*
1 6	23 54.06	− 3 3.0	1.599	1.595	35.9	20.5	72 E	42*	47*
1 16	0 16.81	− 0 24.7	1.666	1.584	35.1	20.6	68 E	44*	42*
101058 1998 RN_3									
5 21	22 0.85	−29 43.1	3.164	3.453	16.9	21.5	98 W	9*	86
5 31	22 5.22	−29 47.6	2.982	3.408	16.6	21.3	106 W	11*	86
6 10	22 7.74	−30 1.5	2.806	3.362	15.9	21.1	115 W	13*	86
6 20	22 8.13	−30 24.7	2.640	3.315	14.7	20.9	124 W	14*	86
6 30	22 6.12	−30 55.9	2.488	3.268	13.1	20.7	133 W	14	85
7 10	22 1.53	−31 32.5	2.353	3.220	11.1	20.5	143 W	13	84
7 20	21 54.34	−32 10.3	2.239	3.170	8.7	20.3	152 W	13	84

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
101058 1998 RN_3 *(continuation)*									
7 25	21 49.82	−32 27.9	2.191	3.146	7.6	20.1	156 W	13	84
7 30	21 44.77	−32 43.4	2.150	3.120	6.6	20.0	159 W	12	83
8 4	21 39.26	−32 56.1	2.116	3.095	5.9	19.9	162 W	12	83
8 9	21 33.41	−33 5.3	2.088	3.070	5.8	19.9	162 W	12	83
8 14	21 27.35	−33 10.2	2.068	3.044	6.2	19.9	161 E	12	83
8 19	21 21.20	−33 10.4	2.054	3.018	7.1	19.9	158 E	12	83
8 24	21 15.12	−33 5.4	2.048	2.992	8.4	19.9	154 E	12	83
8 29	21 9.28	−32 55.1	2.048	2.966	9.8	20.0	150 E	12	83
9 3	21 3.80	−32 39.6	2.055	2.939	11.3	20.0	145 E	12	83
9 8	20 58.81	−32 19.3	2.068	2.913	12.8	20.1	140 E	13	84
9 13	20 54.40	−31 54.3	2.086	2.886	14.3	20.1	135 E	13	84
9 18	20 50.66	−31 25.2	2.109	2.859	15.6	20.2	130 E	14	85
9 28	20 45.40	−30 16.7	2.167	2.804	18.0	20.3	120 E	15	86
10 8	20 43.20	−28 57.3	2.238	2.749	19.9	20.3	110 E	16	87
10 18	20 43.96	−27 30.2	2.317	2.693	21.3	20.4	101 E	17	88
10 28	20 47.48	−25 57.0	2.400	2.637	22.1	20.5	93 E	19	86*
11 7	20 53.42	−24 18.8	2.482	2.580	22.5	20.5	84 E	21	77*
11 17	21 1.47	−22 35.6	2.562	2.523	22.4	20.5	77 E	22	68*
11 27	21 11.35	−20 47.1	2.637	2.465	22.0	20.5	69 E	24*	59*
12 7	21 22.77	−18 52.8	2.703	2.407	21.2	20.5	62 E	26*	50*
12 17	21 35.51	−16 52.2	2.761	2.348	20.2	20.5	56 E	27*	42*
12 27	21 49.38	−14 44.5	2.809	2.290	19.0	20.4	49 E	27*	35*
1 6	22 4.24	−12 29.3	2.846	2.231	17.5	20.3	43 E	26*	28*
1 16	22 19.98	−10 6.1	2.871	2.173	15.9	20.2	37 E	24*	21*
511067 2013 TS_{10}									
5 21	22 1.91	− 9 35.7	1.504	1.827	33.6	21.5	91 W	27*	74
5 31	22 21.06	− 8 17.5	1.384	1.794	34.2	21.3	96 W	30*	72
6 10	22 39.63	− 7 4.4	1.269	1.764	34.5	21.1	101 W	32*	71
6 20	22 57.49	− 5 59.7	1.160	1.735	34.4	20.8	106 W	35*	70
6 30	23 14.40	− 5 7.5	1.057	1.708	33.8	20.6	111 W	38*	69
7 10	23 30.10	− 4 32.1	0.962	1.684	32.7	20.3	117 W	40*	69
7 20	23 44.21	− 4 18.0	0.876	1.662	30.9	20.0	123 W	41	68
7 30	23 56.25	− 4 30.0	0.798	1.643	28.4	19.7	130 W	41	68
8 9	0 5.74	− 5 11.2	0.731	1.627	25.1	19.4	137 W	40	69
8 19	0 12.14	− 6 22.6	0.675	1.614	20.9	19.1	145 W	39	70
8 24	0 14.07	− 7 8.6	0.653	1.609	18.5	19.0	150 W	38	71
8 29	0 15.16	− 8 0.0	0.634	1.605	16.0	18.8	154 W	37	72
9 3	0 15.43	− 8 55.4	0.619	1.601	13.4	18.7	158 W	36	73
9 8	0 14.96	− 9 52.6	0.609	1.599	10.9	18.5	163 W	35	74
9 13	0 13.85	−10 49.5	0.602	1.597	8.8	18.4	166 W	34	75
9 18	0 12.24	−11 43.6	0.600	1.596	7.7	18.4	168 W	33	76
9 23	0 10.35	−12 32.3	0.602	1.596	8.0	18.4	167 W	32	77
9 28	0 8.40	−13 13.3	0.609	1.598	9.6	18.5	165 E	32	77
10 3	0 6.60	−13 45.0	0.620	1.600	11.9	18.6	161 E	31	78
10 8	0 5.13	−14 6.3	0.636	1.602	14.4	18.8	157 E	31	78
10 18	0 3.82	−14 15.8	0.678	1.611	19.3	19.1	148 E	31	78
10 28	0 5.41	−13 42.8	0.735	1.623	23.6	19.4	139 E	31	78
11 7	0 10.12	−12 33.8	0.805	1.638	27.1	19.7	131 E	32	77
11 12	0 13.59	−11 48.2	0.844	1.647	28.5	19.9	128 E	33	76
11 17	0 17.75	−10 56.6	0.886	1.656	29.7	20.0	124 E	34	75
11 22	0 22.56	− 9 59.8	0.930	1.666	30.7	20.2	121 E	35	74
11 27	0 27.96	− 8 58.7	0.977	1.677	31.5	20.3	117 E	36	73
12 2	0 33.89	− 7 54.2	1.025	1.689	32.2	20.5	114 E	37	72
12 7	0 40.28	− 6 46.8	1.076	1.701	32.7	20.6	111 E	38	71
12 12	0 47.09	− 5 37.3	1.128	1.714	33.1	20.7	108 E	39	70
12 17	0 54.28	− 4 26.1	1.183	1.727	33.3	20.8	105 E	41	68*
12 22	1 1.82	− 3 13.7	1.239	1.741	33.5	21.0	103 E	42	67*
12 27	1 9.67	− 2 0.7	1.297	1.755	33.5	21.1	100 E	43	65*
1 1	1 17.79	− 0 47.3	1.356	1.770	33.5	21.2	97 E	44	62*
1 6	1 26.14	+ 0 25.8	1.416	1.785	33.3	21.3	94 E	45	60*
1 11	1 34.72	+ 1 38.6	1.478	1.801	33.1	21.4	92 E	47	58*
437844 1999 MN									
5 21	22 7.15	−10 52.1	0.283	1.052	74.2	21.4	90 W	26*	75*
5 26	21 59.49	−11 53.2	0.252	1.074	69.4	21.0	97 W	27*	76
5 31	21 48.40	−13 16.6	0.220	1.091	63.8	20.6	105 W	28*	77
6 5	21 31.75	−15 13.3	0.188	1.105	56.9	20.0	114 W	28*	79
6 10	21 5.90	−17 56.9	0.158	1.115	47.7	19.4	126 W	27*	82
6 12	20 51.71	−19 18.3	0.147	1.118	43.2	19.1	131 W	26	83
6 14	20 34.57	−20 48.6	0.136	1.120	37.9	18.8	137 W	24	85
6 16	20 13.89	−22 26.1	0.127	1.121	31.9	18.5	144 W	23	86
6 18	19 49.16	−24 6.4	0.118	1.122	25.1	18.2	152 W	21	88
6 20	19 20.08	−25 41.6	0.112	1.122	17.6	17.8	161 W	19	90
6 21	19 3.95	−26 23.9	0.109	1.122	13.5	17.6	165 W	19	90
6 22	18 46.88	−27 0.7	0.107	1.122	9.5	17.4	170 W	18	89
6 23	18 29.01	−27 30.4	0.106	1.121	5.7	17.2	174 W	17	88

437844 1999 *MN* *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
6 24	18 10.58	−27 51.6	0.105	1.121	4.0	17.1	176 E	17	88
6 25	17 51.83	−28 3.5	0.104	1.120	6.5	17.2	173 E	17	88
6 26	17 33.04	−28 5.7	0.105	1.119	10.5	17.4	168 E	17	88
6 27	17 14.50	−27 58.3	0.105	1.118	14.8	17.6	164 E	17	88
6 28	16 56.48	−27 41.9	0.107	1.117	19.2	17.8	159 E	17	88
6 29	16 39.19	−27 17.7	0.109	1.116	23.4	17.9	154 E	18	89
6 30	16 22.80	−26 47.0	0.111	1.114	27.5	18.1	150 E	18	89
7 1	16 7.42	−26 11.3	0.114	1.112	31.5	18.3	145 E	19	90
7 2	15 53.11	−25 32.0	0.118	1.111	35.2	18.4	141 E	19	90
7 3	15 39.88	−24 50.5	0.121	1.109	38.8	18.6	137 E	20	89
7 4	15 27.71	−24 7.9	0.125	1.106	42.1	18.8	133 E	21	88
7 5	15 16.55	−23 25.1	0.130	1.104	45.2	18.9	130 E	22*	87
7 6	15 6.35	−22 42.8	0.135	1.102	48.1	19.1	126 E	22*	87
7 7	14 57.02	−22 1.5	0.140	1.099	50.9	19.2	123 E	23*	86
7 8	14 48.50	−21 21.5	0.145	1.096	53.5	19.4	120 E	23*	85
7 9	14 40.73	−20 43.2	0.150	1.093	55.9	19.5	117 E	23*	85
7 10	14 33.62	−20 6.7	0.155	1.090	58.2	19.6	114 E	23*	84
7 12	14 21.17	−18 59.1	0.167	1.083	62.3	19.9	109 E	23*	83
7 14	14 10.68	−17 58.8	0.178	1.076	66.0	20.1	105 E	23*	82
7 16	14 1.80	−17 5.1	0.190	1.068	69.4	20.4	101 E	23*	81
7 18	13 54.20	−16 17.5	0.202	1.059	72.4	20.6	97 E	22*	80
7 20	13 47.65	−15 35.1	0.214	1.050	75.2	20.8	93 E	22*	80
7 22	13 41.93	−14 57.2	0.226	1.039	77.8	21.0	90 E	21*	79*
7 24	13 36.90	−14 23.0	0.237	1.029	80.3	21.1	86 E	20*	77*
7 26	13 32.39	−13 52.0	0.249	1.017	82.6	21.3	83 E	19*	75*
7 28	13 28.31	−13 23.5	0.261	1.005	84.9	21.5	80 E	19*	73*

515030 2009 UM_{130}

5 21	22 12.74	−24 37.0	1.733	2.064	29.3	21.3	94 W	13*	88*
5 31	22 29.94	−24 23.2	1.596	2.025	29.6	21.1	99 W	14*	88
6 10	22 46.26	−24 19.0	1.463	1.986	29.6	20.9	105 W	16*	88
6 20	23 1.46	−24 27.1	1.338	1.949	29.1	20.7	111 W	17*	88
6 30	23 15.21	−24 50.1	1.221	1.911	28.3	20.4	117 W	19*	89
7 10	23 27.12	−25 29.8	1.112	1.875	26.9	20.1	123 W	19*	89
7 20	23 36.68	−26 27.0	1.015	1.840	25.1	19.8	130 W	19	90
7 25	23 40.38	−27 1.8	0.970	1.823	23.9	19.7	133 W	18	89
7 30	23 43.27	−27 40.2	0.929	1.806	22.7	19.5	137 W	17	88
8 4	23 45.28	−28 21.1	0.891	1.790	21.4	19.4	140 W	17	88
8 9	23 46.34	−29 3.7	0.856	1.774	20.1	19.2	143 W	16	87
8 14	23 46.41	−29 46.6	0.825	1.759	18.7	19.1	146 W	15	86
8 19	23 45.44	−30 27.8	0.798	1.744	17.5	18.9	149 W	15	86
8 24	23 43.48	−31 5.2	0.775	1.730	16.5	18.8	151 W	14	85
8 29	23 40.62	−31 36.6	0.756	1.717	15.8	18.7	152 W	13	84
9 3	23 36.97	−31 59.4	0.742	1.704	15.5	18.7	153 W	13	84
9 8	23 32.74	−32 11.9	0.731	1.691	15.8	18.6	153 W	13	84
9 13	23 28.15	−32 12.0	0.725	1.679	16.6	18.6	152 W	13	84
9 18	23 23.46	−31 58.5	0.723	1.669	17.8	18.6	150 E	13	84
9 23	23 19.00	−31 30.8	0.724	1.658	19.3	18.7	147 E	13	84
9 28	23 15.02	−30 48.9	0.730	1.649	21.0	18.7	144 E	14	85
10 3	23 11.75	−29 53.7	0.739	1.640	22.8	18.8	141 E	15	86
10 8	23 9.35	−28 46.2	0.752	1.632	24.6	18.9	137 E	16	87
10 13	23 7.93	−27 28.1	0.768	1.625	26.4	19.0	134 E	18	89
10 18	23 7.56	−26 0.6	0.788	1.619	28.1	19.1	130 E	19	90
10 23	23 8.25	−24 25.4	0.810	1.614	29.7	19.2	127 E	21	88
10 28	23 9.99	−22 44.1	0.835	1.610	31.1	19.3	123 E	22	87
11 2	23 12.70	−20 57.9	0.862	1.607	32.3	19.4	120 E	24	85
11 7	23 16.31	−19 8.0	0.891	1.604	33.4	19.5	117 E	26	83
11 12	23 20.75	−17 15.4	0.923	1.603	34.4	19.6	114 E	28	81
11 17	23 25.96	−15 20.9	0.957	1.602	35.2	19.7	111 E	30	79
11 22	23 31.85	−13 25.1	0.993	1.603	35.9	19.8	108 E	32	77
11 27	23 38.36	−11 28.8	1.030	1.604	36.4	19.9	105 E	34	75
12 2	23 45.41	− 9 32.3	1.070	1.607	36.8	20.0	103 E	35	74*
12 7	23 52.95	− 7 36.3	1.111	1.610	37.0	20.1	100 E	37	71*
12 17	0 9.30	− 3 46.7	1.197	1.620	37.2	20.2	95 E	41	65*
12 27	0 27.09	− 0 2.3	1.290	1.633	37.0	20.4	91 E	45	58*
1 6	0 46.06	+ 3 34.6	1.388	1.650	36.5	20.6	86 E	49	52*
1 16	1 6.03	+ 7 2.5	1.490	1.669	35.7	20.7	82 E	52	46*

488726 2004 PZ_{104}

5 21	22 13.16	− 2 23.0	1.512	1.757	35.1	21.4	86 W	32*	66*
5 31	22 33.84	− 0 9.5	1.390	1.717	36.2	21.2	90 W	35*	64
6 10	22 54.57	+ 2 6.2	1.274	1.677	37.2	21.0	94 W	39*	62
6 20	23 15.40	+ 4 21.4	1.163	1.639	38.0	20.7	97 W	43*	60
6 30	23 36.30	+ 6 32.8	1.058	1.602	38.5	20.5	101 W	47*	57
7 5	23 46.78	+ 7 35.8	1.008	1.585	38.7	20.4	103 W	50*	56
7 10	23 57.27	+ 8 36.4	0.960	1.568	38.8	20.2	105 W	51*	55
7 15	0 7.76	+ 9 34.0	0.914	1.552	38.8	20.1	107 W	53*	54
7 20	0 18.22	+10 27.7	0.869	1.537	38.7	20.0	109 W	55*	54
7 25	0 28.62	+11 16.8	0.826	1.522	38.5	19.8	111 W	56*	53

488726 2004 PZ_{104} *(continuation)*

7 30	0 38.92	+12 0.6	0.786	1.508	38.2	19.7	113 W	57	52
8 4	0 49.11	+12 38.2	0.747	1.495	37.8	19.6	115 W	58	51
8 9	0 59.11	+13 8.9	0.710	1.483	37.2	19.4	118 W	58	51
8 14	1 8.87	+13 31.7	0.674	1.472	36.5	19.3	120 W	59	50
8 19	1 18.29	+13 45.6	0.641	1.462	35.6	19.1	123 W	59	50
8 24	1 27.29	+13 49.8	0.610	1.454	34.4	19.0	126 W	59	50
8 29	1 35.77	+13 43.4	0.581	1.446	33.1	18.8	129 W	59	50
9 3	1 43.66	+13 25.9	0.555	1.439	31.5	18.7	132 W	58	51
9 8	1 50.83	+12 56.9	0.531	1.434	29.7	18.5	135 W	58	51
9 18	2 2.58	+11 23.5	0.490	1.426	25.2	18.2	143 W	56	53
9 28	2 10.43	+ 9 7.0	0.461	1.424	19.8	17.9	151 W	54	55
10 8	2 14.34	+ 6 21.1	0.446	1.426	13.7	17.6	160 W	51	58
10 13	2 14.98	+ 4 53.9	0.443	1.430	10.8	17.5	164 W	50	59
10 18	2 14.94	+ 3 28.4	0.445	1.434	8.5	17.4	168 W	48	61
10 23	2 14.43	+ 2 8.5	0.450	1.440	7.5	17.4	169 W	47	62
10 28	2 13.70	+ 0 57.3	0.460	1.446	8.3	17.5	168 W	46	63
11 2	2 12.98	− 0 2.7	0.473	1.454	10.4	17.7	165 E	45	64
11 7	2 12.47	− 0 49.7	0.491	1.463	13.0	17.8	161 E	44	65
11 17	2 12.73	− 1 42.7	0.537	1.484	18.2	18.3	152 E	43	66
11 27	2 15.52	− 1 42.9	0.597	1.509	22.9	18.7	144 E	43	66
12 7	2 21.16	− 1 0.1	0.670	1.538	26.6	19.1	136 E	44	65
12 12	2 25.00	− 0 26.2	0.711	1.553	28.1	19.3	132 E	45	64
12 17	2 29.50	+ 0 14.3	0.755	1.570	29.4	19.4	129 E	45	64
12 22	2 34.62	+ 1 0.0	0.801	1.586	30.5	19.6	125 E	46	63
12 27	2 40.30	+ 1 49.7	0.850	1.604	31.4	19.8	122 E	47	62
1 1	2 46.50	+ 2 42.3	0.901	1.622	32.1	20.0	119 E	48	61
1 6	2 53.16	+ 3 36.9	0.954	1.640	32.7	20.1	116 E	49	60
1 11	3 0.24	+ 4 32.7	1.009	1.659	33.1	20.3	113 E	50	59
1 16	3 7.71	+ 5 29.1	1.067	1.678	33.5	20.5	110 E	50	59

301907 1998 XB_9

5 21	22 14.54	−13 43.0	2.523	2.711	21.9	21.3	90 W	22*	77*
5 31	22 22.51	−12 34.5	2.341	2.660	22.2	21.1	97 W	26*	77
6 10	22 29.02	−11 29.1	2.161	2.609	22.1	20.9	105 W	29*	75
6 20	22 33.77	−10 27.8	1.987	2.557	21.5	20.7	113 W	33*	74
6 30	22 36.43	− 9 31.8	1.821	2.504	20.3	20.4	121 W	35*	74
7 10	22 36.64	− 8 42.0	1.665	2.450	18.4	20.1	130 W	36	73
7 20	22 34.05	− 7 59.4	1.524	2.395	15.7	19.8	140 W	37	72
7 30	22 28.40	− 7 24.7	1.401	2.340	12.2	19.4	151 W	38	71
8 9	22 19.74	− 6 57.9	1.299	2.285	7.8	19.0	162 W	38	71
8 19	22 8.49	− 6 38.1	1.221	2.228	3.2	18.6	173 W	38	71
8 29	21 55.69	− 6 23.2	1.169	2.172	4.2	18.5	171 E	39	70
9 8	21 42.83	− 6 10.2	1.143	2.115	9.8	18.7	159 E	39	70
9 18	21 31.51	− 5 55.8	1.141	2.058	15.4	18.8	147 E	39	70
9 28	21 23.15	− 5 36.8	1.159	2.001	20.5	18.9	136 E	39	70
10 8	21 18.60	− 5 10.5	1.192	1.944	24.9	19.1	125 E	40	69
10 18	21 18.14	− 4 34.8	1.235	1.888	28.5	19.2	115 E	40	69
10 28	21 21.75	− 3 48.0	1.284	1.833	31.3	19.3	107 E	41	68
11 7	21 29.06	− 2 48.5	1.335	1.779	33.4	19.4	99 E	42	66*
11 17	21 39.72	− 1 35.5	1.385	1.727	34.9	19.4	92 E	43	62*
11 27	21 53.35	− 0 8.0	1.433	1.677	35.9	19.5	86 E	45	56*
12 7	22 9.60	+ 1 34.2	1.478	1.629	36.6	19.5	80 E	47	50*
12 17	22 28.22	+ 3 31.0	1.518	1.585	36.9	19.5	75 E	48*	43*
12 27	22 49.02	+ 5 41.7	1.555	1.544	37.0	19.5	71 E	50*	37*
1 6	23 11.84	+ 8 4.7	1.587	1.508	36.9	19.5	67 E	51*	32*
1 16	23 36.63	+10 37.7	1.618	1.476	36.7	19.5	64 E	51*	28*

465040 2006 QN_{62}

5 21	22 17.85	− 8 51.8	1.263	1.577	39.9	21.4	87 W	26*	73*
5 31	22 41.89	− 7 1.2	1.185	1.565	40.4	21.2	90 W	29*	71
6 10	23 4.96	− 5 15.2	1.112	1.557	40.6	21.1	94 W	31*	69
6 20	23 26.84	− 3 37.8	1.043	1.553	40.4	20.9	98 W	35*	68
6 30	23 47.19	− 2 13.4	0.979	1.553	39.8	20.8	102 W	38*	66
7 10	0 5.66	− 1 6.2	0.918	1.557	38.6	20.6	107 W	42*	65
7 20	0 21.78	− 0 20.0	0.862	1.565	36.8	20.4	113 W	44*	64
7 30	0 34.97	+ 0 1.3	0.812	1.577	34.3	20.3	119 W	45	64
8 9	0 44.72	− 0 4.5	0.767	1.592	30.9	20.1	126 W	45	64
8 19	0 50.48	− 0 38.2	0.730	1.611	26.6	19.9	135 W	44	65
8 29	0 51.93	− 1 37.6	0.704	1.633	21.3	19.6	144 W	43	66
9 3	0 51.10	− 2 14.9	0.696	1.645	18.4	19.5	149 W	43	66
9 8	0 49.32	− 2 55.6	0.691	1.657	15.3	19.4	154 W	42	67
9 13	0 46.71	− 3 38.1	0.691	1.671	12.2	19.3	160 W	41	68
9 18	0 43.44	− 4 20.6	0.695	1.685	9.1	19.3	165 W	41	68
9 23	0 39.72	− 5 1.1	0.703	1.699	6.5	19.2	169 W	40	69
9 28	0 35.81	− 5 37.8	0.717	1.714	5.1	19.2	171 W	39	70
10 3	0 31.93	− 6 9.1	0.736	1.730	5.9	19.3	170 E	39	70
10 8	0 28.30	− 6 33.8	0.760	1.746	8.0	19.5	166 E	38	71

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
465040 2006 QN_{62} *(continuation)*									
10 18	0 22.49	− 7 0.9	0.822	1.779	13.1	19.9	156 E	38	71
10 28	0 19.45	− 6 57.3	0.903	1.814	17.8	20.3	146 E	38	71
11 7	0 19.56	− 6 26.0	1.000	1.850	21.6	20.7	137 E	39	70
11 17	0 22.71	− 5 32.0	1.112	1.887	24.4	21.0	128 E	39	70
11 27	0 28.58	− 4 20.3	1.235	1.925	26.4	21.4	120 E	41	68
385395 2002 VO_{14}									
5 21	22 24.98	+19 2.4	2.053	2.059	28.5	21.4	76 W	48*	45*
5 31	22 40.61	+22 34.5	1.930	2.018	29.7	21.2	80 W	53*	41
6 10	22 56.01	+26 13.1	1.810	1.976	30.7	21.1	84 W	59*	38
6 20	23 11.15	+29 56.6	1.695	1.935	31.6	20.9	87 W	65*	34
6 30	23 25.96	+33 42.1	1.584	1.894	32.5	20.8	91 W	72*	30
7 10	23 40.37	+37 26.6	1.478	1.854	33.2	20.6	94 W	79*	27
7 20	23 54.24	+41 6.5	1.377	1.815	33.7	20.4	98 W	86*	23
7 25	0 0.89	+42 53.2	1.328	1.796	33.9	20.3	99 W	88	21
7 30	0 7.31	+44 37.0	1.280	1.778	34.1	20.2	101 W	90	19
8 4	0 13.48	+46 17.0	1.233	1.759	34.3	20.1	103 W	89	18
8 9	0 19.33	+47 52.7	1.187	1.741	34.3	20.0	104 W	87	16
8 14	0 24.81	+49 23.1	1.142	1.724	34.4	19.9	106 W	86	15
8 19	0 29.85	+50 47.2	1.098	1.707	34.3	19.8	108 W	84	13
8 24	0 34.37	+52 3.9	1.055	1.691	34.2	19.7	110 W	83	12
8 29	0 38.33	+53 11.9	1.013	1.675	34.0	19.6	112 W	82	11
9 3	0 41.67	+54 10.0	0.972	1.660	33.8	19.4	114 W	81	10
9 8	0 44.32	+54 56.6	0.932	1.646	33.4	19.3	116 W	80	9
9 13	0 46.25	+55 30.0	0.893	1.632	32.9	19.2	118 W	79	8
9 18	0 47.46	+55 48.1	0.855	1.619	32.2	19.1	121 W	79	8
9 23	0 48.02	+55 48.6	0.818	1.606	31.4	18.9	123 W	79	8
9 28	0 48.04	+55 29.5	0.783	1.595	30.5	18.8	126 W	80	9
10 3	0 47.70	+54 48.5	0.750	1.585	29.3	18.7	129 W	80	9
10 8	0 47.21	+53 43.5	0.720	1.575	28.1	18.5	132 E	81	10
10 13	0 46.78	+52 12.7	0.691	1.566	26.7	18.4	135 E	83	12
10 18	0 46.68	+50 14.8	0.667	1.558	25.2	18.2	138 E	85	14
10 23	0 47.15	+47 49.7	0.646	1.552	23.7	18.1	141 E	87	16
10 28	0 48.39	+44 59.0	0.629	1.546	22.4	18.0	144 E	90	19
11 2	0 50.48	+41 45.6	0.617	1.541	21.3	17.9	146 E	87	22
11 7	0 53.47	+38 14.1	0.611	1.538	20.9	17.9	146 E	83	26
11 12	0 57.35	+34 30.5	0.611	1.535	21.0	17.9	146 E	80	29
11 17	1 2.11	+30 41.9	0.617	1.534	21.9	17.9	145 E	76	33
11 22	1 7.68	+26 56.0	0.629	1.534	23.3	18.0	142 E	72	37
11 27	1 13.97	+23 19.3	0.647	1.534	25.0	18.1	139 E	68	41
12 2	1 20.89	+19 57.1	0.671	1.536	26.9	18.3	135 E	65	44
12 7	1 28.34	+16 53.0	0.700	1.539	28.8	18.4	131 E	62	47
12 12	1 36.25	+14 9.0	0.734	1.543	30.5	18.6	127 E	59	50
12 17	1 44.55	+11 45.7	0.772	1.548	32.1	18.7	123 E	57	52
12 22	1 53.19	+ 9 42.6	0.814	1.555	33.4	18.9	119 E	55	54
12 27	2 2.12	+ 7 58.6	0.859	1.562	34.6	19.1	116 E	53	56
1 1	2 11.28	+ 6 31.9	0.907	1.570	35.4	19.2	112 E	52	57
1 6	2 20.63	+ 5 20.7	0.958	1.579	36.1	19.4	109 E	50	59*
1 11	2 30.16	+ 4 23.3	1.010	1.589	36.6	19.5	106 E	49	59*
1 16	2 39.84	+ 3 37.8	1.064	1.600	36.9	19.7	103 E	49	60*
366686 2003 US_{275}									
5 21	22 25.84	−14 26.5	1.462	1.738	35.6	21.4	87 W	20*	77*
5 31	22 46.54	−12 38.5	1.362	1.719	36.1	21.2	91 W	23*	77
6 10	23 6.20	−10 51.0	1.267	1.702	36.4	21.0	96 W	26*	75
6 20	23 24.63	− 9 6.5	1.175	1.688	36.3	20.9	101 W	30*	73
6 30	23 41.52	− 7 28.0	1.089	1.677	35.7	20.7	106 W	34*	71
7 10	23 56.56	− 5 58.0	1.007	1.668	34.7	20.5	111 W	37*	70
7 20	0 9.30	− 4 39.4	0.932	1.662	33.0	20.2	117 W	40*	69
7 30	0 19.21	− 3 34.8	0.863	1.659	30.5	20.0	124 W	41	68
8 9	0 25.79	− 2 46.2	0.803	1.659	27.2	19.7	132 W	42	67
8 19	0 28.54	− 2 14.8	0.752	1.662	22.9	19.5	140 W	43	66
8 29	0 27.24	− 2 0.2	0.714	1.667	17.6	19.2	150 W	43	66
9 8	0 22.27	− 1 58.8	0.691	1.676	11.4	18.9	161 W	43	66
9 13	0 18.69	− 2 1.5	0.686	1.681	8.1	18.8	166 W	43	66
9 18	0 14.63	− 2 5.1	0.686	1.687	4.8	18.6	172 W	43	66
9 23	0 10.32	− 2 8.5	0.691	1.693	1.9	18.5	177 W	43	66
9 28	0 6.03	− 2 10.7	0.700	1.701	3.1	18.6	175 E	43	66
10 3	0 2.00	− 2 10.7	0.715	1.708	6.2	18.8	169 E	43	66
10 8	23 58.42	− 2 7.7	0.734	1.717	9.3	19.0	164 E	43	66
10 18	23 53.31	− 1 50.8	0.788	1.735	15.1	19.4	153 E	43	66
10 28	23 51.60	− 1 17.3	0.858	1.756	20.0	19.8	143 E	44	65
11 7	23 53.47	− 0 27.5	0.944	1.778	23.8	20.1	134 E	45	64
11 17	23 58.63	+ 0 36.8	1.042	1.802	26.7	20.5	125 E	46	63
11 27	0 6.66	+ 1 53.6	1.151	1.828	28.6	20.8	117 E	47	62
12 7	0 17.05	+ 3 20.5	1.268	1.855	29.9	21.1	110 E	48	61
12 17	0 29.34	+ 4 54.9	1.393	1.884	30.5	21.3	103 E	50	58*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
455514 2003 WF_{98}									
5 21	22 28.33	+ 5 35.1	1.389	1.563	39.6	21.5	80 W	37*	58*
5 31	22 46.43	+10 39.8	1.308	1.552	40.4	21.3	83 W	43*	53
6 10	23 3.83	+15 58.4	1.233	1.541	41.1	21.2	86 W	50*	48
6 20	23 20.52	+21 28.1	1.164	1.532	41.6	21.1	89 W	57*	43
6 30	23 36.40	+27 4.6	1.100	1.523	41.9	21.0	92 W	65*	37
7 10	23 51.35	+32 42.8	1.043	1.515	42.0	20.8	95 W	74*	31
7 20	0 5.11	+38 17.0	0.992	1.509	41.9	20.7	97 W	83*	26
7 30	0 17.27	+43 40.1	0.945	1.503	41.7	20.6	100 W	89	20
8 9	0 27.28	+48 44.5	0.903	1.499	41.3	20.5	103 W	86	15
8 14	0 31.21	+51 7.4	0.883	1.498	41.0	20.4	104 W	84	13
8 19	0 34.25	+53 22.3	0.865	1.497	40.7	20.4	106 W	82	11
8 24	0 36.26	+55 28.1	0.846	1.496	40.3	20.3	107 W	80	9
8 29	0 37.10	+57 23.2	0.829	1.495	39.9	20.2	108 W	78	7
9 3	0 36.67	+59 6.3	0.812	1.495	39.4	20.2	110 W	76	5
9 8	0 34.84	+60 35.9	0.796	1.495	38.8	20.1	111 W	74	3
9 13	0 31.59	+61 50.1	0.780	1.496	38.2	20.1	113 W	73	2
9 18	0 26.99	+62 46.8	0.765	1.496	37.6	20.0	115 W	72	1
9 23	0 21.27	+63 24.1	0.750	1.498	36.8	19.9	117 W	72	1
9 28	0 14.84	+63 40.5	0.737	1.499	36.0	19.9	118 E	71	—
9 30	0 12.18	+63 41.0	0.731	1.500	35.7	19.9	119 E	71	—
10 2	0 9.53	+63 37.8	0.726	1.500	35.4	19.8	120 E	71	—
10 4	0 6.91	+63 31.1	0.721	1.501	35.0	19.8	120 E	71	—
10 6	0 4.37	+63 20.7	0.717	1.502	34.7	19.8	121 E	72	1
10 8	0 1.94	+63 6.7	0.712	1.503	34.3	19.8	122 E	72	1
10 10	23 59.66	+62 49.0	0.708	1.504	34.0	19.8	123 E	72	1
10 12	23 57.55	+62 27.8	0.704	1.505	33.6	19.7	123 E	73	2
10 14	23 55.65	+62 2.9	0.700	1.506	33.3	19.7	124 E	73	2
10 16	23 53.99	+61 34.5	0.697	1.507	32.9	19.7	125 E	73	2
10 18	23 52.58	+61 2.7	0.694	1.508	32.6	19.7	125 E	74	3
10 23	23 50.30	+59 29.0	0.687	1.511	31.8	19.6	127 E	76	5
10 28	23 49.87	+57 37.0	0.683	1.515	31.0	19.6	128 E	77	6
11 2	23 51.26	+55 29.3	0.682	1.518	30.4	19.6	129 E	80	9
11 7	23 54.35	+53 8.6	0.684	1.522	30.0	19.6	130 E	82	11
11 12	23 58.97	+50 38.2	0.689	1.526	29.8	19.6	130 E	84	13
11 17	0 4.93	+48 1.4	0.697	1.531	29.8	19.6	130 E	87	16
11 22	0 12.03	+45 22.0	0.710	1.535	30.1	19.7	129 E	90	19
11 27	0 20.08	+42 43.4	0.726	1.540	30.6	19.8	127 E	88	21
12 2	0 28.89	+40 8.6	0.747	1.545	31.2	19.8	126 E	85	24
12 7	0 38.29	+37 40.1	0.771	1.551	32.0	19.9	124 E	83	26
12 12	0 48.17	+35 19.8	0.799	1.556	32.8	20.1	121 E	80	29
12 17	0 58.44	+33 9.2	0.831	1.562	33.6	20.2	119 E	78	31
12 22	1 9.00	+31 9.4	0.866	1.568	34.4	20.3	116 E	76	33*
12 27	1 19.80	+29 20.6	0.905	1.574	35.1	20.4	113 E	74	34*
1 1	1 30.75	+27 42.9	0.946	1.580	35.8	20.5	110 E	73	36*
1 6	1 41.83	+26 15.6	0.990	1.586	36.3	20.7	107 E	71	37*
1 11	1 53.00	+24 58.3	1.036	1.593	36.8	20.8	104 E	70	38*
1 16	2 4.26	+23 50.2	1.085	1.599	37.1	20.9	101 E	69	38*
427494 2002 BK_{26}									
5 21	22 34.43	−29 12.8	1.424	1.761	35.1	21.4	91 W	6*	83*
5 31	22 49.16	−27 21.8	1.311	1.744	35.3	21.2	96 W	10*	89*
6 10	23 1.57	−25 28.4	1.199	1.727	35.1	21.0	102 W	13*	89
6 20	23 11.25	−23 32.1	1.087	1.709	34.3	20.8	109 W	18*	88
6 30	23 17.60	−21 31.4	0.980	1.690	32.8	20.5	116 W	22*	86
7 5	23 19.32	−20 28.4	0.927	1.681	31.8	20.3	120 W	24*	84
7 10	23 19.92	−19 23.1	0.877	1.671	30.4	20.1	124 W	25*	83
7 15	23 19.29	−18 14.6	0.829	1.661	28.8	20.0	128 W	27	82
7 20	23 17.29	−17 2.4	0.783	1.652	26.8	19.8	133 W	28	81
7 25	23 13.80	−15 45.4	0.740	1.642	24.4	19.6	138 W	29	80
7 30	23 8.75	−14 22.8	0.700	1.632	21.7	19.3	144 W	31	78
8 9	22 53.84	−11 17.3	0.634	1.613	14.9	18.9	156 W	34	75
8 19	22 33.09	− 7 44.6	0.588	1.594	6.9	18.4	169 W	37	72
8 29	22 8.87	− 3 54.4	0.568	1.575	4.9	18.2	172 E	41	68
9 3	21 56.67	− 1 59.0	0.568	1.565	9.0	18.4	166 E	43	66
9 8	21 45.08	− 0 7.5	0.573	1.556	13.5	18.5	159 E	45	64
9 13	21 34.54	+ 1 37.6	0.585	1.547	17.8	18.7	152 E	47	62
9 18	21 25.40	+ 3 14.7	0.602	1.538	21.8	18.9	145 E	48	61
9 28	21 12.14	+ 6 3.9	0.647	1.521	28.6	19.2	133 E	51	58
10 8	21 5.72	+ 8 24.2	0.704	1.505	33.8	19.5	123 E	53	56
10 18	21 5.53	+10 24.0	0.768	1.489	37.5	19.8	115 E	55	54
10 23	21 7.51	+11 19.4	0.801	1.482	38.9	19.9	111 E	56	53
10 28	21 10.70	+12 13.1	0.834	1.475	40.0	20.0	107 E	57	52
11 2	21 14.98	+13 6.0	0.868	1.469	40.9	20.1	104 E	58	51*
11 7	21 20.26	+13 58.7	0.901	1.463	41.7	20.2	101 E	59	49*
11 12	21 26.45	+14 51.6	0.934	1.457	42.2	20.3	98 E	60	48*
11 17	21 33.49	+15 45.4	0.966	1.452	42.6	20.4	96 E	61	45*

427494 2002 BK_{26} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
11 27	21 49.87	+17 36.6	1.029	1.443	43.1	20.5	91 E	63	41*
12 7	22 8.98	+19 33.7	1.089	1.435	43.3	20.6	87 E	65	36*
12 17	22 30.57	+21 36.7	1.146	1.430	43.2	20.7	84 E	67*	30*
12 27	22 54.52	+23 44.7	1.201	1.426	42.9	20.8	81 E	68*	26*
1 6	23 20.68	+25 55.5	1.254	1.425	42.5	20.9	78 E	69*	22*
1 16	23 49.02	+28 5.6	1.306	1.426	41.9	21.0	76 E	68*	18*

509192 2006 OD_7

5 21	22 38.51	+ 9 54.4	0.863	1.157	58.0	21.4	76 W	39*	53*
5 26	22 57.22	+ 9 19.9	0.836	1.149	58.9	21.3	76 W	38*	54*
5 31	23 16.51	+ 8 35.9	0.809	1.142	59.8	21.3	77 W	37*	55*
6 5	23 36.39	+ 7 42.0	0.784	1.135	60.6	21.2	77 W	36*	56*
6 10	23 56.89	+ 6 37.7	0.761	1.129	61.4	21.2	77 W	34*	57*
6 15	0 17.96	+ 5 23.0	0.740	1.124	62.1	21.1	78 W	33*	58*
6 20	0 39.56	+ 3 57.9	0.722	1.120	62.7	21.1	78 W	32*	59*
6 25	1 1.60	+ 2 23.1	0.706	1.117	63.2	21.0	79 W	30*	61*
6 30	1 23.95	+ 0 39.6	0.693	1.114	63.5	21.0	79 W	29*	62*
7 5	1 46.48	− 1 11.0	0.684	1.113	63.8	21.0	79 W	27*	64*
7 10	2 9.05	− 3 6.7	0.678	1.113	63.9	21.0	79 W	26*	66*
7 15	2 31.47	− 5 5.4	0.675	1.114	63.9	20.9	80 W	25*	67*
7 20	2 53.56	− 7 5.0	0.676	1.115	63.7	20.9	80 W	23*	69*
7 25	3 15.16	− 9 3.5	0.679	1.118	63.4	21.0	80 W	22*	70*
7 30	3 36.11	−10 59.0	0.686	1.122	63.0	21.0	80 W	21*	71*
8 4	3 56.31	−12 50.2	0.694	1.126	62.5	21.0	80 W	21*	72*
8 9	4 15.68	−14 36.2	0.704	1.132	62.0	21.0	80 W	20*	73*
8 14	4 34.15	−16 16.6	0.715	1.138	61.4	21.0	80 W	19*	73*
8 19	4 51.66	−17 51.4	0.727	1.145	60.7	21.1	81 W	19*	74*
8 24	5 8.20	−19 20.8	0.739	1.153	60.0	21.1	81 W	18*	74*
8 29	5 23.75	−20 44.8	0.751	1.162	59.2	21.1	81 W	18*	75*
9 3	5 38.33	−22 3.9	0.762	1.171	58.4	21.2	81 W	18*	75*
9 8	5 51.96	−23 18.7	0.772	1.181	57.7	21.2	82 W	18*	76*
9 13	6 4.64	−24 29.7	0.781	1.191	56.9	21.2	83 W	18*	77*
9 18	6 16.37	−25 37.4	0.788	1.202	56.1	21.2	83 W	17*	77*
9 23	6 27.15	−26 42.1	0.793	1.213	55.4	21.2	84 W	17*	78*
9 28	6 36.98	−27 43.9	0.797	1.224	54.6	21.2	85 W	17*	79*
10 3	6 45.86	−28 43.0	0.798	1.236	53.9	21.2	86 W	16*	80*
10 8	6 53.78	−29 39.5	0.796	1.248	53.1	21.2	87 W	15*	81*
10 13	7 0.69	−30 33.6	0.793	1.261	52.3	21.2	89 W	14	82*
10 18	7 6.54	−31 24.9	0.787	1.273	51.5	21.2	90 W	14	83*
10 23	7 11.28	−32 12.8	0.778	1.286	50.7	21.2	92 W	13	83*
10 28	7 14.83	−32 56.6	0.768	1.298	49.8	21.1	94 W	12	83
11 2	7 17.14	−33 35.4	0.755	1.311	48.8	21.1	96 W	11	82
11 7	7 18.12	−34 8.3	0.740	1.323	47.8	21.1	99 W	11	82
11 12	7 17.66	−34 33.5	0.724	1.336	46.6	21.0	101 W	10	81
11 17	7 15.68	−34 49.0	0.706	1.348	45.4	20.9	104 W	10	81
11 22	7 12.11	−34 52.0	0.688	1.360	43.9	20.8	107 W	10	81
11 27	7 6.96	−34 39.3	0.669	1.372	42.4	20.8	110 W	10	81
12 2	7 0.25	−34 7.7	0.650	1.384	40.6	20.7	114 W	11	82
12 7	6 52.11	−33 13.5	0.632	1.395	38.7	20.6	118 W	12	83
12 12	6 42.73	−31 52.9	0.615	1.407	36.7	20.5	121 W	13	84
12 17	6 32.44	−30 2.6	0.601	1.417	34.6	20.4	125 W	15	86
12 22	6 21.67	−27 40.7	0.590	1.428	32.5	20.3	129 W	17	88
12 27	6 10.92	−24 47.4	0.582	1.438	30.6	20.2	132 E	20	89
1 1	6 0.63	−21 25.6	0.580	1.448	29.1	20.2	134 E	24	85
1 6	5 51.22	−17 40.4	0.583	1.458	28.1	20.2	136 E	27	82
1 11	5 43.00	−13 38.6	0.591	1.467	27.8	20.2	136 E	31	78
1 16	5 36.23	− 9 28.5	0.606	1.476	28.1	20.3	135 E	36	73

500815 2013 GU_{87}

5 21	22 42.99	− 3 58.0	1.486	1.637	37.4	21.4	79 W	27*	66*
5 31	23 5.37	− 2 7.5	1.407	1.633	38.1	21.3	83 W	30*	66*
6 10	23 26.86	− 0 24.2	1.330	1.631	38.4	21.2	87 W	33*	64
6 20	23 47.30	+ 1 8.6	1.255	1.633	38.5	21.1	91 W	37*	63
6 30	0 6.44	+ 2 27.3	1.182	1.637	38.2	21.0	96 W	41*	62
7 10	0 23.99	+ 3 28.4	1.111	1.644	37.4	20.8	101 W	44*	61
7 20	0 39.57	+ 4 8.4	1.044	1.653	36.1	20.7	107 W	48*	60
7 30	0 52.70	+ 4 23.8	0.980	1.666	34.1	20.5	113 W	49*	60
8 9	1 2.90	+ 4 11.7	0.921	1.680	31.3	20.3	120 W	49	60
8 19	1 9.62	+ 3 30.2	0.869	1.697	27.7	20.1	129 W	49	60
8 29	1 12.44	+ 2 19.1	0.827	1.716	23.2	19.9	138 W	47	62
9 3	1 12.35	+ 1 33.7	0.811	1.727	20.6	19.7	143 W	47	62
9 8	1 11.30	+ 0 42.8	0.798	1.738	17.8	19.6	148 W	46	63
9 13	1 9.33	− 0 12.4	0.789	1.749	14.8	19.5	154 W	45	64
9 18	1 6.56	− 1 10.1	0.785	1.760	11.8	19.4	159 W	44	65
9 23	1 3.15	− 2 8.5	0.786	1.773	8.9	19.3	164 W	43	66
9 28	0 59.31	− 3 5.3	0.792	1.785	6.4	19.2	169 W	42	67
10 3	0 55.24	− 3 58.6	0.803	1.798	5.1	19.2	171 W	41	68
10 8	0 51.16	− 4 46.4	0.819	1.811	5.9	19.3	169 E	40	69
10 13	0 47.28	− 5 27.4	0.841	1.824	8.0	19.5	165 E	40	69
10 18	0 43.79	− 6 0.4	0.869	1.838	10.5	19.7	160 E	39	70

500815 2013 GU_{87} *(continuation)*

10 28	0 38.61	− 6 40.2	0.939	1.866	15.5	20.1	150 E	38	71
11 7	0 36.38	− 6 45.8	1.026	1.895	19.7	20.4	140 E	38	71
11 17	0 37.27	− 6 21.3	1.129	1.924	23.0	20.8	131 E	39	70
11 27	0 41.15	− 5 32.2	1.245	1.955	25.4	21.1	122 E	39	70
12 7	0 47.61	− 4 24.2	1.370	1.985	27.0	21.4	114 E	41	68

464817 2004 SK_{29}

5 21	22 57.56	−13 19.0	1.586	1.722	35.3	21.4	80 W	17*	72*
5 31	23 18.51	−11 1.6	1.490	1.707	36.2	21.3	84 W	20*	73*
6 10	23 38.47	− 8 42.8	1.397	1.694	36.8	21.2	88 W	24*	73*
6 20	23 57.33	− 6 24.1	1.307	1.684	37.1	21.0	92 W	29*	70
6 30	0 14.86	− 4 7.8	1.220	1.676	37.1	20.9	97 W	34*	68
7 10	0 30.82	− 1 55.4	1.136	1.670	36.6	20.7	102 W	39*	66
7 20	0 44.86	+ 0 11.5	1.056	1.666	35.7	20.5	107 W	44*	64
7 30	0 56.52	+ 2 10.9	0.980	1.665	34.1	20.3	113 W	47*	62
8 9	1 5.31	+ 4 1.4	0.910	1.667	31.8	20.1	120 W	49	60
8 19	1 10.62	+ 5 41.0	0.847	1.671	28.6	19.8	128 W	51	58
8 29	1 11.91	+ 7 7.6	0.794	1.677	24.5	19.6	137 W	52	57
9 8	1 8.94	+ 8 19.0	0.752	1.686	19.3	19.3	146 W	53	56
9 18	1 1.96	+ 9 12.6	0.725	1.697	13.2	19.0	157 W	54	55
9 28	0 52.05	+ 9 47.7	0.716	1.710	6.7	18.7	169 W	55	54
10 3	0 46.57	+ 9 59.1	0.720	1.718	3.8	18.6	173 W	55	54
10 8	0 41.09	+10 6.9	0.728	1.725	3.1	18.6	175 E	55	54
10 13	0 35.87	+10 12.1	0.742	1.734	5.5	18.8	170 E	55	54
10 18	0 31.16	+10 15.7	0.761	1.742	8.5	19.0	165 E	55	54
10 23	0 27.18	+10 18.7	0.785	1.752	11.5	19.2	159 E	55	54
10 28	0 24.07	+10 22.2	0.814	1.761	14.3	19.4	154 E	55	54
11 2	0 21.93	+10 27.1	0.847	1.771	16.9	19.6	149 E	55	54
11 7	0 20.78	+10 34.0	0.885	1.782	19.3	19.8	144 E	56	53
11 17	0 21.47	+10 55.5	0.971	1.803	23.3	20.1	134 E	56	53
11 27	0 25.87	+11 29.2	1.070	1.826	26.2	20.4	125 E	56	53
12 7	0 33.45	+12 15.2	1.180	1.851	28.3	20.7	117 E	57	52
12 17	0 43.67	+13 12.0	1.298	1.876	29.6	21.0	110 E	58	51*
12 27	0 56.06	+14 18.2	1.422	1.902	30.3	21.3	103 E	59	48*
1 6	1 10.18	+15 31.4	1.552	1.928	30.4	21.5	96 E	61	45*

4034 Vishnu

5 21	23 10.90	+ 1 36.6	1.327	1.381	43.8	21.4	71 W	27*	58*
5 31	23 39.21	+ 4 3.0	1.217	1.337	46.5	21.2	73 W	30*	58*
6 10	0 10.33	+ 6 36.1	1.109	1.286	49.5	21.0	74 W	32*	56*
6 20	0 45.40	+ 9 14.4	1.007	1.229	52.9	20.8	75 W	35*	54*
6 30	1 25.79	+11 53.6	0.913	1.167	57.0	20.6	74 W	37*	51*
7 10	2 13.08	+14 24.3	0.834	1.098	61.7	20.4	72 W	39*	49*
7 15	2 39.73	+15 31.5	0.802	1.062	64.4	20.3	70 W	39*	47*
7 20	3 8.48	+16 29.3	0.775	1.024	67.1	20.3	68 W	40*	45*
7 25	3 39.21	+17 14.2	0.755	0.985	70.0	20.2	66 W	39*	44*
7 30	4 11.68	+17 42.9	0.743	0.945	72.8	20.2	63 W	38*	42*
8 4	4 45.46	+17 52.7	0.739	0.905	75.5	20.2	60 W	37*	40*
8 9	5 19.99	+17 42.2	0.745	0.863	77.8	20.2	56 W	36*	37*
8 14	5 54.65	+17 11.9	0.760	0.822	79.6	20.2	53 W	34*	35*
8 19	6 28.89	+16 23.8	0.784	0.781	80.6	20.2	50 W	32*	33*
8 24	7 2.28	+15 21.0	0.817	0.741	80.7	20.1	46 W	30*	31*
8 29	7 34.60	+14 7.0	0.860	0.703	79.8	20.1	43 W	28*	28*
9 3	8 5.81	+12 44.9	0.910	0.668	77.8	20.0	40 W	26*	26*
9 8	8 36.00	+11 17.2	0.967	0.638	74.6	20.0	38 W	24*	24*
9 13	9 5.32	+ 9 45.2	1.030	0.614	70.3	19.9	35 W	23*	22*
9 18	9 33.88	+ 8 9.9	1.097	0.597	65.1	19.8	33 W	21*	19*
9 23	10 1.77	+ 6 31.7	1.167	0.590	59.3	19.7	30 W	20*	17*
9 28	10 28.99	+ 4 51.5	1.237	0.591	53.2	19.7	28 W	18*	15*
10 3	10 55.50	+ 3 9.9	1.305	0.602	47.3	19.7	26 W	17*	13*
10 8	11 21.20	+ 1 28.2	1.372	0.621	41.8	19.7	24 W	16*	12*
10 13	11 46.04	− 0 12.5	1.435	0.647	37.0	19.7	23 W	15*	10*
10 18	12 9.96	− 1 50.8	1.494	0.679	33.0	19.8	22 W	14*	9*
10 23	12 32.95	− 3 25.5	1.551	0.715	29.7	19.9	21 W	13*	8*
10 28	12 55.05	− 4 55.7	1.603	0.753	27.1	20.0	20 W	13*	7*
11 7	13 36.78	− 7 40.2	1.699	0.835	23.5	20.3	20 W	12*	6*
11 17	14 15.61	−10 1.3	1.781	0.917	21.7	20.5	20 W	13*	6*
11 27	14 52.00	−11 58.1	1.851	0.997	20.9	20.8	21 W	13*	7*
12 7	15 26.35	−13 30.7	1.909	1.073	21.0	21.0	23 W	14*	8*
12 17	15 58.97	−14 40.3	1.955	1.144	21.5	21.2	25 W	16*	11*
12 27	16 30.07	−15 27.9	1.987	1.208	22.3	21.4	28 W	17*	14*

422699 2000 PD_3

5 21	23 32.33	− 1 10.0	1.445	1.403	41.6	21.4	67 W	22*	57*
5 31	0 6.59	+ 3 25.7	1.323	1.314	45.2	21.1	67 W	25*	55*
6 10	0 45.11	+ 8 31.2	1.221	1.225	49.1	20.9	66 W	28*	51*
6 20	1 28.91	+13 55.6	1.142	1.137	53.0	20.7	63 W	31*	46*
6 30	2 18.75	+19 15.4	1.092	1.052	56.6	20.5	60 W	33*	40*
7 10	3 14.64	+23 55.1	1.073	0.974	59.3	20.4	55 W	35*	35*

422699 2000 PD_3 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 15	3 44.49	+25 47.6	1.075	0.938	60.2	20.4	53 W	35*	32*
7 20	4 15.21	+27 16.2	1.086	0.906	60.6	20.3	51 W	35*	29*
7 25	4 46.36	+28 18.0	1.103	0.878	60.4	20.3	49 W	35*	27*
7 30	5 17.49	+28 51.7	1.127	0.854	59.8	20.3	47 W	34*	24*
8 4	5 48.16	+28 57.9	1.157	0.836	58.6	20.2	45 W	33*	22*
8 9	6 17.97	+28 38.2	1.192	0.823	57.0	20.2	43 W	32*	21*
8 14	6 46.62	+27 55.3	1.230	0.817	54.9	20.2	41 W	32*	19*
8 19	7 13.88	+26 52.5	1.271	0.817	52.7	20.2	40 W	31*	18*
8 24	7 39.64	+25 33.5	1.315	0.824	50.3	20.2	39 W	30*	17*
8 29	8 3.86	+24 1.8	1.359	0.837	47.8	20.3	38 W	29*	17*
9 3	8 26.55	+22 20.5	1.403	0.856	45.5	20.3	37 W	29*	16*
9 8	8 47.79	+20 32.7	1.447	0.880	43.3	20.4	37 W	29*	16*
9 13	9 7.67	+18 40.6	1.489	0.908	41.3	20.5	37 W	28*	16*
9 18	9 26.27	+16 46.3	1.531	0.941	39.6	20.6	37 W	28*	16*
9 23	9 43.70	+14 51.4	1.570	0.977	38.2	20.7	37 W	29*	17*
9 28	10 0.06	+12 57.2	1.607	1.015	36.9	20.8	37 W	29*	17*
10 3	10 15.45	+11 4.5	1.641	1.055	35.9	20.9	38 W	29*	18*
10 8	10 29.97	+ 9 14.1	1.673	1.097	35.1	21.0	39 W	30*	19*
10 13	10 43.68	+ 7 26.3	1.701	1.140	34.4	21.1	40 W	31*	20*
10 18	10 56.67	+ 5 41.6	1.727	1.183	34.0	21.2	42 W	31*	21*
10 23	11 8.97	+ 4 0.2	1.749	1.228	33.6	21.3	43 W	32*	23*
10 28	11 20.64	+ 2 22.2	1.768	1.272	33.3	21.4	45 W	33*	25*
11 2	11 31.73	+ 0 47.8	1.784	1.317	33.2	21.4	47 W	34*	26*

469329 1999 YJ_5

5 21	23 39.18	+ 4 4.2	2.280	2.040	26.4	21.4	63 W	25*	52*
5 31	23 55.36	+ 7 23.7	2.141	1.997	28.1	21.3	68 W	30*	53*
6 10	0 11.54	+10 54.4	2.003	1.955	29.7	21.2	73 W	35*	52*
6 20	0 27.79	+14 37.4	1.867	1.912	31.2	21.0	77 W	42*	49*
6 30	0 44.12	+18 33.2	1.735	1.871	32.5	20.8	81 W	49*	45
7 10	1 0.63	+22 42.7	1.607	1.830	33.6	20.6	85 W	57*	41
7 20	1 17.36	+27 6.5	1.487	1.790	34.6	20.5	89 W	65*	37
7 30	1 34.36	+31 44.1	1.373	1.751	35.4	20.3	93 W	73*	32
8 4	1 42.98	+34 7.8	1.320	1.732	35.7	20.2	95 W	77*	30
8 9	1 51.71	+36 34.6	1.269	1.713	36.0	20.1	97 W	81*	27
8 14	2 0.54	+39 4.1	1.220	1.695	36.2	20.0	98 W	84*	25
8 19	2 9.47	+41 35.9	1.174	1.678	36.5	19.9	100 W	87	22
8 24	2 18.51	+44 9.3	1.130	1.661	36.6	19.8	102 W	89	20
8 29	2 27.66	+46 43.7	1.088	1.644	36.7	19.7	103 W	88	17
9 3	2 36.92	+49 18.3	1.049	1.628	36.8	19.6	105 W	86	15
9 8	2 46.29	+51 52.2	1.013	1.613	36.9	19.5	106 W	83	12
9 13	2 55.74	+54 24.6	0.979	1.599	36.9	19.4	107 W	81	10
9 18	3 5.22	+56 54.1	0.947	1.585	36.9	19.3	109 W	78	7
9 23	3 14.69	+59 19.6	0.917	1.572	36.9	19.2	110 W	76	5
9 28	3 24.08	+61 39.7	0.890	1.560	36.9	19.1	111 W	73	2
10 3	3 33.28	+63 53.3	0.864	1.549	36.8	19.0	112 W	71	—
10 8	3 42.15	+65 59.1	0.840	1.539	36.6	18.9	113 W	69	—
10 13	3 50.45	+67 55.9	0.818	1.529	36.4	18.9	114 W	67	—
10 18	3 57.89	+69 42.1	0.798	1.521	36.2	18.8	116 W	65	—
10 20	4 0.55	+70 21.3	0.790	1.518	36.1	18.8	116 W	65	—
10 22	4 3.00	+70 58.5	0.782	1.515	36.0	18.7	116 W	64	—
10 24	4 5.23	+71 33.6	0.775	1.513	35.9	18.7	117 W	63	—
10 26	4 7.19	+72 6.6	0.768	1.510	35.7	18.7	117 W	63	—
10 28	4 8.88	+72 37.2	0.761	1.508	35.6	18.7	118 W	62	—
10 30	4 10.27	+73 5.5	0.754	1.506	35.4	18.6	118 W	62	—
11 1	4 11.34	+73 31.4	0.747	1.504	35.3	18.6	119 W	61	—
11 3	4 12.07	+73 54.7	0.741	1.502	35.1	18.6	120 W	61	—
11 5	4 12.46	+74 15.3	0.735	1.501	34.9	18.6	120 W	61	—
11 7	4 12.48	+74 33.1	0.729	1.499	34.7	18.5	121 W	60	—
11 12	4 10.99	+75 4.6	0.714	1.496	34.1	18.5	122 W	60	—
11 17	4 7.58	+75 15.8	0.701	1.495	33.5	18.4	123 W	60	—
11 22	4 2.99	+75 5.1	0.690	1.495	32.8	18.3	125 W	60	—
11 27	3 58.18	+74 31.3	0.680	1.495	32.0	18.3	127 E	60	—
11 29	3 56.41	+74 11.3	0.677	1.496	31.7	18.3	127 E	61	—
12 1	3 54.80	+73 47.6	0.674	1.497	31.4	18.3	128 E	61	—
12 3	3 53.40	+73 20.2	0.671	1.498	31.1	18.2	128 E	62	—
12 5	3 52.24	+72 49.1	0.668	1.499	30.7	18.2	129 E	62	—
12 7	3 51.36	+72 14.5	0.666	1.500	30.4	18.2	130 E	63	—
12 9	3 50.75	+71 36.3	0.665	1.502	30.1	18.2	130 E	63	—
12 11	3 50.45	+70 54.8	0.664	1.504	29.8	18.2	131 E	64	—
12 13	3 50.45	+70 9.9	0.663	1.505	29.5	18.2	131 E	65	—
12 15	3 50.76	+69 21.9	0.662	1.508	29.2	18.2	132 E	66	—
12 17	3 51.38	+68 31.0	0.663	1.510	29.0	18.2	132 E	66	—
12 22	3 54.15	+66 11.9	0.665	1.516	28.5	18.2	133 E	69	—
12 27	3 58.50	+63 38.8	0.672	1.524	28.1	18.2	133 E	71	—
1 1	4 4.12	+60 55.2	0.682	1.532	28.0	18.2	133 E	74	3
1 6	4 10.73	+58 4.5	0.697	1.542	28.1	18.3	132 E	77	6
1 11	4 18.13	+55 10.5	0.715	1.552	28.4	18.4	131 E	80	9
1 16	4 26.16	+52 16.6	0.739	1.564	28.9	18.5	130 E	83	12

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5 31	0 0.25	+11 38.7	2.668	2.429	22.3	21.4	65 W	32*	49*
6 10	0 14.26	+12 50.3	2.524	2.398	23.6	21.3	71 W	36*	50*
6 20	0 27.82	+13 55.5	2.375	2.366	24.8	21.2	77 W	41*	50*
6 30	0 40.77	+14 52.0	2.224	2.334	25.6	21.0	83 W	47*	49
7 10	0 52.98	+15 37.8	2.071	2.301	26.2	20.9	90 W	52*	48
7 20	1 4.24	+16 10.0	1.918	2.268	26.4	20.7	96 W	57*	48
7 30	1 14.27	+16 25.3	1.767	2.235	26.2	20.5	104 W	61*	48
8 4	1 18.73	+16 25.4	1.693	2.218	25.9	20.4	107 W	61*	48
8 9	1 22.77	+16 19.7	1.621	2.201	25.4	20.2	111 W	61	48
8 14	1 26.33	+16 7.7	1.550	2.184	24.8	20.1	115 W	61	48
8 19	1 29.36	+15 48.5	1.481	2.166	24.0	20.0	120 W	61	48
8 24	1 31.80	+15 21.5	1.414	2.149	23.0	19.8	124 W	60	49
8 29	1 33.61	+14 45.9	1.350	2.132	21.7	19.6	129 W	60	49
9 3	1 34.75	+14 1.2	1.290	2.115	20.2	19.5	133 W	59	50
9 8	1 35.18	+13 6.7	1.233	2.097	18.5	19.3	139 W	58	51
9 18	1 33.82	+10 46.5	1.132	2.063	14.3	19.0	150 W	56	53
9 28	1 29.60	+ 7 45.6	1.053	2.028	9.1	18.6	161 W	53	56
10 8	1 23.10	+ 4 11.9	0.999	1.994	3.6	18.1	173 W	49	60
10 13	1 19.29	+ 2 17.8	0.982	1.977	2.9	18.0	174 W	47	62
10 18	1 15.34	+ 0 22.6	0.971	1.960	5.1	18.1	170 E	45	64
10 23	1 11.45	− 1 30.5	0.968	1.943	8.2	18.2	164 E	43	66
10 28	1 7.81	− 3 18.5	0.971	1.927	11.4	18.4	157 E	42	67
11 2	1 4.61	− 4 58.8	0.980	1.911	14.5	18.5	151 E	40	69
11 7	1 1.98	− 6 29.2	0.995	1.894	17.4	18.6	145 E	39	70
11 12	1 0.06	− 7 48.4	1.014	1.878	20.2	18.7	139 E	37	72
11 17	0 58.94	− 8 55.5	1.038	1.863	22.6	18.8	134 E	36	73
11 27	0 59.33	−10 32.9	1.096	1.832	26.8	19.0	123 E	34	75
12 7	1 3.24	−11 24.5	1.163	1.803	30.0	19.2	114 E	34	75
12 17	1 10.48	−11 36.3	1.236	1.775	32.3	19.4	106 E	33	76
12 22	1 15.26	−11 29.4	1.273	1.761	33.1	19.4	102 E	34	75*
12 27	1 20.74	−11 15.2	1.310	1.749	33.8	19.5	98 E	34	74*
1 1	1 26.87	−10 54.5	1.347	1.736	34.3	19.6	95 E	34	73*
1 6	1 33.61	−10 28.0	1.384	1.724	34.7	19.6	92 E	35	70*
1 11	1 40.91	− 9 56.3	1.421	1.713	35.0	19.7	89 E	35	68*
1 16	1 48.74	− 9 20.0	1.457	1.702	35.2	19.7	86 E	36	66*

136773 1996 TR_6

5 31	0 1.28	+18 47.3	1.393	1.300	44.1	21.5	63 W	37*	42*
6 5	0 16.56	+19 50.4	1.377	1.302	44.4	21.5	64 W	38*	41*
6 10	0 31.83	+20 47.7	1.360	1.304	44.7	21.5	65 W	39*	41*
6 15	0 47.07	+21 38.9	1.343	1.307	45.1	21.4	66 W	40*	41*
6 20	1 2.27	+22 23.6	1.325	1.311	45.3	21.4	67 W	41*	40*
6 25	1 17.41	+23 1.5	1.306	1.316	45.6	21.4	68 W	43*	40*
6 30	1 32.46	+23 32.3	1.287	1.321	45.9	21.4	69 W	44*	40*
7 5	1 47.40	+23 55.6	1.266	1.327	46.1	21.4	70 W	46*	39*
7 10	2 2.20	+24 11.3	1.245	1.334	46.3	21.4	71 W	48*	39*
7 15	2 16.83	+24 19.2	1.223	1.341	46.4	21.3	73 W	49*	39*
7 20	2 31.25	+24 18.9	1.201	1.349	46.5	21.3	74 W	51*	39*
7 25	2 45.39	+24 10.4	1.177	1.358	46.6	21.3	76 W	53*	40*
7 30	2 59.23	+23 53.3	1.153	1.367	46.6	21.3	78 W	55*	40*
8 4	3 12.71	+23 27.5	1.127	1.376	46.5	21.2	80 W	56*	40*
8 9	3 25.80	+22 53.0	1.101	1.386	46.4	21.2	82 W	58*	41*
8 14	3 38.42	+22 9.5	1.075	1.396	46.2	21.1	84 W	59*	42*
8 19	3 50.52	+21 17.0	1.048	1.407	45.9	21.1	86 W	60*	43
8 24	4 2.04	+20 15.2	1.021	1.418	45.5	21.0	89 W	61*	44
8 29	4 12.92	+19 4.1	0.993	1.429	44.9	21.0	91 W	62*	45
9 3	4 23.10	+17 43.6	0.965	1.441	44.3	20.9	94 W	61*	46
9 8	4 32.52	+16 13.8	0.938	1.453	43.6	20.9	97 W	61*	48
9 13	4 41.11	+14 34.6	0.911	1.465	42.6	20.8	100 W	60*	49
9 18	4 48.79	+12 46.0	0.884	1.477	41.6	20.7	103 W	58	51
9 23	4 55.48	+10 48.4	0.858	1.489	40.4	20.6	106 W	56	53
9 28	5 1.12	+ 8 42.2	0.834	1.502	39.0	20.5	109 W	54	55
10 3	5 5.65	+ 6 27.9	0.810	1.514	37.5	20.5	113 W	51	58
10 8	5 8.99	+ 4 6.6	0.789	1.526	35.8	20.4	117 W	49	60
10 13	5 11.07	+ 1 39.4	0.770	1.539	34.0	20.3	120 W	47	62
10 18	5 11.83	− 0 51.7	0.754	1.552	32.1	20.2	124 W	44	65
10 23	5 11.24	− 3 24.3	0.741	1.564	30.1	20.1	128 W	42	67
10 28	5 9.32	− 5 55.6	0.731	1.576	28.1	20.1	132 W	39	70
11 2	5 6.13	− 8 22.1	0.725	1.589	26.3	20.0	135 W	37	72
11 7	5 1.74	−10 40.4	0.723	1.601	24.7	20.0	138 W	34	75
11 12	4 56.31	−12 46.8	0.726	1.613	23.4	19.9	140 W	32	77
11 17	4 50.05	−14 38.0	0.733	1.625	22.5	20.0	141 W	30	79
11 22	4 43.24	−16 11.0	0.744	1.637	22.1	20.0	141 W	29	80
11 27	4 36.20	−17 24.1	0.760	1.648	22.1	20.1	141 W	28	81
12 2	4 29.23	−18 16.6	0.780	1.660	22.6	20.1	140 E	27	82
12 7	4 22.62	−18 48.9	0.805	1.671	23.3	20.2	138 E	26	83
12 12	4 16.62	−19 1.9	0.833	1.682	24.3	20.4	135 E	26	83
12 17	4 11.43	−18 57.4	0.864	1.693	25.3	20.5	133 E	26	83
12 22	4 7.21	−18 37.4	0.899	1.703	26.4	20.6	130 E	26	83

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	136773 1996 TR_6 *(continuation)*								
	h m	° ′			°	m	°	°	°
12 27	4 4.05	−18 4.3	0.937	1.714	27.5	20.8	126 E	27	82
1 1	4 1.95	−17 20.5	0.977	1.724	28.5	20.9	123 E	28	81
1 6	4 0.92	−16 28.0	1.019	1.734	29.4	21.0	120 E	29	80
1 11	4 0.91	−15 28.8	1.063	1.743	30.3	21.1	117 E	30	79
1 16	4 1.88	−14 24.3	1.109	1.752	31.0	21.3	114 E	31	78
	163348 2002 NN_4								
5 31	0 50.08	− 8 50.3	0.052	0.991	114.8	18.1	63 W	8*	56*
6 1	0 30.56	−10 37.2	0.047	0.998	108.9	17.6	69 W	11*	62*
6 2	0 6.80	−12 39.3	0.043	1.004	102.1	17.0	76 W	13*	69*
6 3	23 37.89	−14 54.7	0.040	1.011	94.0	16.5	84 W	16*	76*
6 4	23 3.15	−17 15.8	0.037	1.017	84.6	15.9	93 W	19*	81
6 5	22 22.65	−19 28.3	0.035	1.024	74.1	15.5	104 W	21*	83
6 6	21 37.85	−21 12.5	0.034	1.030	62.8	15.1	115 W	22*	85
6 7	20 51.72	−22 12.2	0.034	1.036	51.4	14.8	127 W	23*	86
6 8	20 7.77	−22 23.7	0.036	1.042	40.6	14.6	138 W	23	86
6 9	19 28.65	−21 56.7	0.039	1.048	31.0	14.5	148 W	23	86
6 10	18 55.45	−21 6.5	0.042	1.054	22.8	14.4	156 W	24	85
6 11	18 28.01	−20 6.3	0.046	1.060	15.9	14.4	163 W	25	84
6 12	18 5.57	−19 4.7	0.051	1.066	10.5	14.4	169 W	26	83
6 13	17 47.22	−18 6.4	0.056	1.071	6.8	14.5	173 W	27	82
6 14	17 32.13	−17 13.3	0.061	1.077	5.7	14.7	174 W	28	81
6 15	17 19.63	−16 26.0	0.067	1.082	7.2	14.9	172 E	29	80
6 16	17 9.17	−15 44.2	0.073	1.088	9.6	15.2	170 E	29	80
6 17	17 0.35	−15 7.5	0.079	1.093	12.0	15.5	167 E	30	79
6 18	16 52.85	−14 35.3	0.085	1.098	14.3	15.8	165 E	30	79
6 19	16 46.43	−14 7.2	0.091	1.103	16.4	16.0	162 E	31	78
6 20	16 40.90	−13 42.5	0.098	1.108	18.3	16.2	160 E	31	78
6 22	16 31.93	−13 2.0	0.111	1.118	21.7	16.6	156 E	32	77
6 24	16 25.10	−12 30.8	0.124	1.128	24.6	17.0	152 E	32	77
6 26	16 19.84	−12 7.0	0.137	1.137	27.1	17.3	149 E	33	76
6 28	16 15.79	−11 48.9	0.151	1.146	29.3	17.6	147 E	33	76
6 30	16 12.68	−11 35.3	0.165	1.154	31.3	17.8	144 E	33	76
7 2	16 10.32	−11 25.4	0.179	1.162	33.0	18.1	141 E	34	75
7 4	16 8.58	−11 18.5	0.193	1.170	34.6	18.3	139 E	34	75
7 6	16 7.34	−11 14.2	0.208	1.177	36.1	18.5	137 E	34	75
7 8	16 6.53	−11 11.9	0.223	1.184	37.4	18.7	135 E	34	75
7 10	16 6.09	−11 11.4	0.237	1.191	38.6	18.9	133 E	34	75
7 15	16 6.32	−11 16.3	0.275	1.207	41.3	19.3	128 E	34	75
7 20	16 8.08	−11 28.0	0.313	1.220	43.5	19.7	124 E	34	75
7 25	16 11.07	−11 44.4	0.351	1.231	45.4	20.0	120 E	33*	76
7 30	16 15.05	−12 4.0	0.390	1.240	47.0	20.3	117 E	33*	76
8 4	16 19.85	−12 25.8	0.429	1.247	48.4	20.6	113 E	32*	76
8 9	16 25.34	−12 48.8	0.468	1.253	49.6	20.8	110 E	32*	77
8 14	16 31.43	−13 12.4	0.507	1.256	50.6	21.0	107 E	31*	77
8 19	16 38.08	−13 36.3	0.545	1.257	51.5	21.2	104 E	31*	78
8 24	16 45.24	−14 0.0	0.582	1.256	52.3	21.3	101 E	30*	78
8 29	16 52.86	−14 23.0	0.618	1.252	53.0	21.5	98 E	29*	78
	470215 2006 WP_{29}								
5 31	0 51.17	− 6 49.9	2.104	1.846	28.8	21.4	61 W	10*	55*
6 10	1 16.05	− 5 56.7	1.981	1.800	30.7	21.3	65 W	12*	58*
6 20	1 41.80	− 5 10.8	1.862	1.756	32.5	21.1	68 W	15*	61*
6 30	2 8.42	− 4 34.3	1.748	1.712	34.1	21.0	71 W	18*	62*
7 10	2 35.89	− 4 8.6	1.642	1.670	35.7	20.9	74 W	21*	64*
7 20	3 4.13	− 3 55.4	1.542	1.630	37.2	20.7	76 W	25*	65*
7 30	3 32.99	− 3 55.6	1.451	1.592	38.6	20.6	78 W	28*	65*
8 9	4 2.26	− 4 9.4	1.368	1.556	39.9	20.4	80 W	31*	66*
8 19	4 31.65	− 4 36.5	1.293	1.524	41.1	20.3	82 W	33*	67*
8 29	5 0.80	− 5 15.4	1.225	1.496	42.1	20.2	83 W	35*	67*
9 8	5 29.36	− 6 3.5	1.164	1.472	43.0	20.0	85 W	36*	68*
9 18	5 56.97	− 6 57.8	1.108	1.452	43.7	19.9	87 W	37*	69*
9 23	6 10.29	− 7 26.1	1.081	1.444	44.0	19.9	88 W	37*	69*
9 28	6 23.23	− 7 54.3	1.055	1.437	44.2	19.8	89 W	37*	70*
10 3	6 35.75	− 8 21.8	1.030	1.431	44.3	19.7	90 W	36*	71*
10 8	6 47.83	− 8 48.2	1.005	1.427	44.4	19.7	91 W	36*	71*
10 13	6 59.40	− 9 12.7	0.980	1.425	44.4	19.6	92 W	36	72*
10 18	7 10.42	− 9 34.7	0.955	1.423	44.3	19.6	94 W	35	73*
10 23	7 20.84	− 9 53.3	0.930	1.423	44.1	19.5	95 W	35	73*
10 28	7 30.63	−10 7.7	0.905	1.424	43.8	19.4	97 W	35	74*
11 2	7 39.74	−10 16.9	0.880	1.427	43.3	19.4	99 W	35	74*
11 7	7 48.11	−10 20.1	0.855	1.431	42.7	19.3	101 W	35	74*
11 12	7 55.70	−10 16.0	0.829	1.437	42.0	19.2	104 W	35	74
11 17	8 2.42	−10 3.5	0.803	1.443	41.0	19.1	107 W	35	74
11 22	8 8.22	− 9 41.0	0.778	1.451	39.7	19.0	110 W	35	74
11 27	8 13.03	− 9 6.8	0.753	1.461	38.3	18.9	114 W	36	73
12 2	8 16.82	− 8 19.6	0.728	1.471	36.5	18.8	117 W	37	72
12 7	8 19.51	− 7 17.5	0.705	1.483	34.4	18.7	122 W	38	71
12 12	8 21.06	− 5 59.1	0.683	1.495	32.0	18.6	126 W	39	70
12 17	8 21.43	− 4 22.8	0.663	1.509	29.1	18.5	132 W	41	68

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	470215 2006 WP_{29} *(continuation)*								
	h m	° ′			°	m	°	°	°
12 22	8 20.64	− 2 27.9	0.647	1.524	25.9	18.3	137 W	43	66
12 27	8 18.78	− 0 14.5	0.634	1.539	22.4	18.2	143 W	45	64
1 1	8 15.95	+ 2 15.9	0.625	1.556	18.5	18.1	150 W	47	62
1 6	8 12.30	+ 5 0.5	0.621	1.573	14.4	18.0	157 W	50	59
1 11	8 8.05	+ 7 55.0	0.624	1.591	10.3	17.8	163 W	53	56
1 16	8 3.46	+10 54.1	0.632	1.610	6.4	17.7	169 W	56	53
	285567 2000 OM								
5 31	1 18.57	+29 57.5	0.348	0.801	118.5	20.6	44 W	30*	24*
6 2	1 9.85	+28 11.4	0.347	0.821	114.1	20.3	48 W	32*	27*
6 4	1 1.98	+26 24.3	0.348	0.842	109.8	20.1	51 W	33*	31*
6 6	0 54.86	+24 37.1	0.349	0.863	105.6	19.9	55 W	35*	34*
6 8	0 48.40	+22 50.6	0.350	0.885	101.6	19.8	59 W	36*	37*
6 10	0 42.50	+21 5.2	0.352	0.907	97.7	19.6	62 W	37*	40*
6 15	0 29.60	+16 48.0	0.356	0.961	88.4	19.4	71 W	40*	46*
6 20	0 18.34	+12 38.9	0.361	1.016	79.8	19.2	80 W	42*	51*
6 25	0 7.72	+ 8 34.7	0.366	1.071	71.6	19.1	88 W	43*	55
6 30	23 57.02	+ 4 32.2	0.371	1.126	63.6	19.0	97 W	44*	59
7 5	23 45.76	+ 0 29.7	0.378	1.179	55.9	18.9	106 W	43*	64
7 10	23 33.61	− 3 32.5	0.386	1.232	48.2	18.8	115 W	41*	68
7 15	23 20.45	− 7 31.7	0.397	1.285	40.6	18.7	125 W	37	72
7 20	23 6.31	−11 23.2	0.412	1.336	33.2	18.7	134 W	34	75
7 25	22 51.44	−15 0.4	0.432	1.386	26.1	18.7	143 W	30	79
7 30	22 36.29	−18 16.9	0.458	1.435	19.5	18.7	152 W	27	82
8 4	22 21.36	−21 7.6	0.489	1.483	13.7	18.7	160 W	24	85
8 9	22 7.15	−23 30.0	0.527	1.530	9.4	18.8	166 W	22	87
8 14	21 54.08	−25 24.2	0.571	1.576	7.6	18.9	168 W	20	89
8 19	21 42.48	−26 52.1	0.621	1.621	8.9	19.2	166 E	18	89
8 24	21 32.58	−27 56.7	0.676	1.664	11.5	19.6	161 E	17	88
8 29	21 24.44	−28 41.7	0.737	1.707	14.4	19.9	155 E	16	87
9 3	21 18.04	−29 10.6	0.802	1.749	16.9	20.2	150 E	16	87
9 8	21 13.26	−29 26.5	0.872	1.789	19.2	20.5	144 E	16	87
9 13	21 9.98	−29 32.2	0.946	1.829	21.1	20.8	139 E	15	86
9 18	21 8.04	−29 29.7	1.023	1.867	22.7	21.1	134 E	16	87
9 23	21 7.30	−29 20.5	1.103	1.905	24.0	21.3	129 E	16	87
	401847 1999 WW_{19}								
5 31	1 20.80	+ 8 49.1	2.598	2.059	21.4	21.5	48 W	16*	39*
6 10	1 41.43	+11 14.9	2.471	2.007	23.4	21.4	52 W	20*	41*
6 20	2 2.85	+13 40.8	2.343	1.957	25.4	21.3	56 W	25*	42*
6 30	2 25.17	+16 5.4	2.217	1.908	27.2	21.2	59 W	30*	43*
7 10	2 48.47	+18 27.4	2.092	1.860	29.1	21.0	63 W	36*	42*
7 20	3 12.88	+20 45.0	1.971	1.815	30.8	20.9	66 W	42*	41*
7 30	3 38.42	+22 56.1	1.854	1.772	32.4	20.8	69 W	48*	40*
8 9	4 5.15	+24 58.3	1.742	1.733	33.9	20.6	73 W	53*	38*
8 19	4 33.04	+26 49.3	1.635	1.696	35.3	20.5	76 W	59*	36*
8 24	4 47.38	+27 39.8	1.584	1.679	35.9	20.4	77 W	61*	35*
8 29	5 1.95	+28 26.4	1.535	1.664	36.5	20.3	79 W	63*	35*
9 3	5 16.73	+29 8.9	1.487	1.649	37.1	20.2	80 W	66*	34*
9 8	5 31.68	+29 47.2	1.440	1.635	37.6	20.2	82 W	68*	33*
9 13	5 46.75	+30 21.0	1.396	1.623	38.0	20.1	83 W	70*	33*
9 18	6 1.89	+30 50.1	1.352	1.611	38.4	20.0	85 W	71*	32*
9 23	6 17.01	+31 14.5	1.311	1.601	38.7	20.0	87 W	73*	32*
9 28	6 32.07	+31 34.2	1.270	1.593	39.0	19.9	88 W	75*	31*
10 3	6 46.98	+31 49.4	1.232	1.585	39.1	19.8	90 W	76*	31*
10 8	7 1.68	+32 0.2	1.194	1.579	39.2	19.7	92 W	77*	31*
10 13	7 16.07	+32 6.9	1.158	1.575	39.2	19.7	94 W	77*	31*
10 18	7 30.07	+32 10.0	1.124	1.571	39.1	19.6	95 W	77	31*
10 23	7 43.57	+32 9.9	1.091	1.570	38.9	19.5	98 W	77	31*
10 28	7 56.50	+32 7.2	1.059	1.569	38.6	19.4	100 W	77	31*
11 2	8 8.79	+32 2.5	1.028	1.570	38.2	19.4	102 W	77	31*
11 7	8 20.33	+31 56.5	0.998	1.573	37.6	19.3	104 W	77	32*
11 12	8 31.04	+31 49.8	0.970	1.577	36.9	19.2	107 W	77	32*
11 17	8 40.82	+31 43.2	0.943	1.582	36.0	19.1	110 W	77	32*
11 22	8 49.57	+31 37.4	0.917	1.589	34.9	19.1	113 W	77	32*
11 27	8 57.24	+31 32.7	0.893	1.597	33.6	19.0	116 W	77	32
12 2	9 3.73	+31 29.7	0.870	1.606	32.2	18.9	120 W	76	33
12 7	9 8.97	+31 28.6	0.849	1.617	30.5	18.8	124 W	76	33
12 12	9 12.89	+31 29.6	0.830	1.629	28.6	18.7	128 W	76	33
12 17	9 15.41	+31 32.6	0.813	1.642	26.5	18.6	132 W	77	32
12 22	9 16.54	+31 37.0	0.799	1.656	24.2	18.5	136 W	77	32
12 27	9 16.28	+31 42.0	0.788	1.672	21.7	18.5	141 W	77	32
1 1	9 14.71	+31 46.7	0.781	1.688	19.0	18.4	146 W	77	32
1 6	9 11.93	+31 49.9	0.777	1.705	16.3	18.3	151 W	77	32
1 11	9 8.10	+31 50.3	0.778	1.723	13.5	18.2	156 W	77	32
1 16	9 3.48	+31 46.7	0.784	1.743	10.8	18.2	161 W	77	32
	415949 2001 XY_{10}								
5 31	2 40.51	+ 5 58.2	0.759	0.538	101.4	21.1	31 W	—	25*
6 2	2 50.03	+ 5 19.2	0.796	0.535	97.3	20.9	32 W	—	26*
6 4	2 59.48	+ 4 51.3	0.833	0.534	93.2	20.9	32 W	—	26*
6 6	3 8.86	+ 4 33.6	0.871	0.534	89.0	20.8	32 W	—	26*

415949 2001 XY_{10} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
6 8	3 18.14	+ 4 25.0	0.910	0.536	85.0	20.7	32 W	—	26*
6 10	3 27.33	+ 4 24.5	0.949	0.540	80.9	20.7	32 W	—	25*
6 12	3 36.43	+ 4 31.0	0.988	0.545	77.1	20.6	32 W	—	25*
6 14	3 45.42	+ 4 43.6	1.026	0.551	73.3	20.6	31 W	—	25*
6 16	3 54.31	+ 5 1.1	1.064	0.559	69.7	20.6	31 W	—	25*
6 18	4 3.08	+ 5 22.8	1.101	0.568	66.3	20.6	31 W	—	25*
6 20	4 11.73	+ 5 47.9	1.137	0.578	63.1	20.6	30 W	—	24*
6 25	4 32.86	+ 7 0.8	1.224	0.607	55.9	20.7	30 W	—	24*
6 30	4 53.27	+ 8 21.6	1.303	0.641	49.9	20.8	29 W	—	23*
7 5	5 13.00	+ 9 44.4	1.375	0.678	45.0	20.9	28 W	—	22*
7 10	5 32.13	+11 5.3	1.440	0.716	41.1	21.0	28 W	2*	21*
7 15	5 50.71	+12 21.9	1.498	0.754	38.0	21.1	27 W	4*	21*
7 20	6 8.82	+13 32.9	1.549	0.793	35.6	21.2	27 W	6*	20*
7 25	6 26.51	+14 37.5	1.594	0.830	33.8	21.3	27 W	8*	20*
7 30	6 43.83	+15 35.6	1.633	0.867	32.5	21.4	27 W	10*	19*

140333 2001 TD_2

5 31	2 51.91	− 3 45.8	0.616	0.625	109.6	21.1	36 W	—	28*
6 2	2 49.37	− 4 0.9	0.633	0.643	105.2	20.9	38 W	—	30*
6 4	2 47.47	− 4 7.5	0.650	0.662	101.3	20.9	40 W	—	33*
6 6	2 46.15	− 4 6.9	0.667	0.681	97.7	20.8	42 W	—	35*
6 8	2 45.35	− 4 0.5	0.683	0.700	94.4	20.8	43 W	—	37*
6 10	2 44.99	− 3 49.3	0.699	0.719	91.4	20.7	45 W	—	39*
6 12	2 45.02	− 3 34.1	0.714	0.738	88.7	20.7	47 W	—	40*
6 14	2 45.38	− 3 15.8	0.728	0.758	86.2	20.7	48 W	1*	42*
6 16	2 46.04	− 2 54.9	0.742	0.777	84.0	20.7	49 W	3*	43*
6 18	2 46.94	− 2 31.9	0.754	0.796	81.9	20.8	51 W	4*	45*
6 20	2 48.06	− 2 7.2	0.765	0.815	80.0	20.8	52 W	6*	46*
6 25	2 51.58	− 1 0.5	0.790	0.862	75.8	20.8	55 W	10*	49*
6 30	2 55.83	+ 0 10.8	0.808	0.907	72.4	20.9	58 W	14*	51*
7 5	3 0.54	+ 1 24.1	0.821	0.950	69.6	20.9	61 W	18*	53*
7 10	3 5.50	+ 2 38.3	0.828	0.992	67.2	20.9	64 W	22*	54*
7 15	3 10.56	+ 3 52.5	0.830	1.032	65.1	21.0	67 W	26*	55*
7 20	3 15.56	+ 5 6.3	0.827	1.070	63.3	21.0	70 W	30*	55*
7 25	3 20.38	+ 6 19.4	0.819	1.106	61.6	21.0	73 W	34*	55*
7 30	3 24.92	+ 7 32.0	0.808	1.140	60.0	21.0	76 W	38*	55*
8 4	3 29.08	+ 8 44.4	0.792	1.172	58.5	20.9	80 W	42*	55*
8 9	3 32.75	+ 9 56.9	0.773	1.202	56.9	20.9	83 W	46*	54*
8 14	3 35.79	+11 10.0	0.750	1.230	55.4	20.8	87 W	50*	53
8 19	3 38.07	+12 24.0	0.725	1.256	53.7	20.8	91 W	54*	52
8 24	3 39.40	+13 39.6	0.698	1.280	51.9	20.7	95 W	57*	50
8 29	3 39.59	+14 57.4	0.669	1.302	49.9	20.6	100 W	60*	49
9 3	3 38.43	+16 18.1	0.639	1.322	47.6	20.4	104 W	61	48
9 8	3 35.63	+17 42.1	0.608	1.340	45.1	20.3	110 W	63	46
9 13	3 30.86	+19 9.4	0.577	1.357	42.1	20.1	115 W	64	45
9 18	3 23.76	+20 39.8	0.547	1.372	38.7	19.9	121 W	66	43
9 23	3 13.95	+22 11.7	0.519	1.384	34.8	19.7	128 W	67	42
9 28	3 1.11	+23 42.6	0.493	1.396	30.5	19.5	135 W	69	40
10 3	2 45.07	+25 8.2	0.472	1.405	25.6	19.3	143 W	70	39
10 8	2 25.91	+26 22.2	0.455	1.412	20.6	19.1	150 W	71	38
10 13	2 4.12	+27 17.8	0.445	1.418	15.9	18.9	157 W	72	37
10 18	1 40.71	+27 49.0	0.441	1.422	12.7	18.7	162 W	73	36
10 20	1 31.20	+27 53.9	0.442	1.423	12.3	18.7	162 E	73	36
10 22	1 21.74	+27 54.5	0.444	1.424	12.4	18.7	162 E	73	36
10 24	1 12.45	+27 51.1	0.447	1.425	13.1	18.8	161 E	73	36
10 26	1 3.39	+27 43.8	0.451	1.425	14.2	18.8	159 E	73	36
10 28	0 54.66	+27 33.1	0.456	1.425	15.6	18.9	157 E	73	36
11 2	0 34.62	+26 54.4	0.473	1.424	20.0	19.1	151 E	72	37
11 7	0 17.62	+26 4.8	0.496	1.421	24.5	19.4	143 E	71	38
11 12	0 3.89	+25 11.3	0.524	1.416	28.8	19.6	136 E	70	39
11 17	23 53.34	+24 19.7	0.555	1.409	32.7	19.8	130 E	69	40
11 22	23 45.71	+23 33.9	0.588	1.401	36.0	20.1	123 E	69	40
11 27	23 40.61	+22 56.0	0.624	1.391	38.9	20.2	118 E	68	41
12 2	23 37.69	+22 26.8	0.660	1.379	41.4	20.4	112 E	67	41*
12 7	23 36.59	+22 6.3	0.696	1.365	43.5	20.6	107 E	67	41*
12 12	23 37.07	+21 54.3	0.731	1.350	45.4	20.7	103 E	67	40*
12 17	23 38.88	+21 50.3	0.766	1.332	46.9	20.8	98 E	67	38*
12 22	23 41.85	+21 53.8	0.798	1.313	48.3	20.9	94 E	67	36*
12 27	23 45.80	+22 4.2	0.829	1.292	49.6	21.0	91 E	67	34*
1 1	23 50.60	+22 20.7	0.857	1.269	50.7	21.1	87 E	67	32*
1 6	23 56.16	+22 42.5	0.882	1.244	51.7	21.1	83 E	68*	30*
1 11	0 2.40	+23 9.2	0.904	1.217	52.8	21.1	80 E	67*	27*
1 16	0 9.26	+23 40.2	0.922	1.188	53.8	21.2	77 E	66*	25*

485512 2011 TB_{10}

5 31	2 57.21	+ 7 11.7	2.810	1.964	13.7	21.5	27 W	—	21*
6 10	3 21.03	+ 7 37.8	2.713	1.916	15.9	21.4	31 W	—	25*
6 20	3 45.77	+ 7 51.7	2.614	1.869	18.0	21.4	35 W	3*	29*
6 30	4 11.39	+ 7 51.3	2.514	1.824	20.1	21.3	38 W	6*	32*

485512 2011 TB_{10} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 10	4 37.88	+ 7 35.0	2.415	1.779	22.1	21.2	41 W	9*	34*
7 20	5 5.18	+ 7 1.3	2.318	1.737	24.0	21.1	44 W	13*	37*
7 30	5 33.19	+ 6 8.8	2.226	1.696	25.8	21.1	47 W	16*	38*
8 9	6 1.77	+ 4 57.3	2.138	1.658	27.4	21.0	49 W	19*	40*
8 19	6 30.79	+ 3 27.1	2.057	1.624	29.0	20.9	51 W	22*	42*
8 29	7 0.05	+ 1 39.4	1.983	1.593	30.4	20.8	53 W	25*	43*
9 8	7 29.38	− 0 23.5	1.917	1.565	31.6	20.7	55 W	27*	44*
9 18	7 58.61	− 2 38.5	1.856	1.542	32.8	20.7	56 W	28*	45*
9 28	8 27.56	− 5 1.8	1.802	1.524	33.8	20.6	58 W	29*	46*
10 8	8 56.07	− 7 29.1	1.754	1.511	34.6	20.5	59 W	30*	48*
10 18	9 24.05	− 9 56.1	1.708	1.503	35.4	20.5	61 W	30*	49*
10 28	9 51.34	−12 18.5	1.665	1.500	36.1	20.5	63 W	30*	51*
11 2	10 4.70	−13 26.7	1.644	1.501	36.4	20.4	64 W	29*	52*
11 7	10 17.85	−14 32.4	1.622	1.503	36.7	20.4	65 W	29*	53*
11 12	10 30.78	−15 35.0	1.601	1.507	37.0	20.4	66 W	29*	54*
11 17	10 43.47	−16 34.1	1.578	1.512	37.2	20.4	68 W	28*	56*
11 22	10 55.90	−17 29.4	1.555	1.518	37.5	20.4	69 W	27*	57*
11 27	11 8.05	−18 20.3	1.532	1.526	37.7	20.4	71 W	27*	59*
12 2	11 19.91	−19 6.6	1.507	1.534	37.8	20.3	73 W	26	61*
12 7	11 31.44	−19 47.9	1.481	1.544	37.9	20.3	74 W	25	63*
12 12	11 42.63	−20 23.8	1.455	1.555	38.0	20.3	77 W	25	66*
12 17	11 53.42	−20 54.0	1.427	1.568	38.0	20.3	79 W	24	68*
12 22	12 3.79	−21 17.8	1.398	1.581	37.9	20.2	81 W	24	71*
12 27	12 13.69	−21 35.0	1.368	1.595	37.8	20.2	84 W	23	74*
1 1	12 23.09	−21 45.0	1.337	1.611	37.5	20.2	87 W	23	77*
1 6	12 31.95	−21 47.5	1.305	1.627	37.2	20.1	89 W	23	80*
1 11	12 40.19	−21 41.9	1.272	1.644	36.7	20.1	93 W	23	83*
1 16	12 47.76	−21 27.5	1.239	1.662	36.1	20.0	96 W	24	85*

488461 1996 FS_1

5 31	2 58.43	+19 17.3	1.116	0.421	65.1	20.9	22 W	6*	14*
6 2	3 16.53	+18 13.8	1.139	0.395	61.8	20.7	20 W	4*	13*
6 4	3 34.93	+17 11.4	1.164	0.374	57.6	20.5	18 W	1*	12*
6 6	3 53.60	+16 12.1	1.191	0.357	52.6	20.3	16 W	—	10*
6 8	4 12.50	+15 18.1	1.219	0.348	47.1	20.1	15 W	—	9*
6 10	4 31.48	+14 31.0	1.247	0.345	41.6	20.0	13 W	—	7*
6 12	4 50.38	+13 51.8	1.275	0.350	36.6	19.9	12 W	—	5*
6 14	5 9.01	+13 20.4	1.302	0.363	32.6	19.9	11 W	—	3*
6 16	5 27.17	+12 56.2	1.328	0.381	29.8	20.0	11 W	—	1*
6 18	5 44.75	+12 37.9	1.354	0.404	28.1	20.1	11 W	—	—
6 20	6 1.67	+12 24.2	1.380	0.431	27.1	20.3	11 E	—	—
6 22	6 17.87	+12 13.7	1.406	0.460	26.7	20.5	12 E	—	2*
6 24	6 33.37	+12 5.6	1.432	0.491	26.5	20.6	12 E	—	4*
6 26	6 48.16	+11 58.9	1.459	0.524	26.3	20.8	13 E	—	5*
6 28	7 2.28	+11 53.1	1.486	0.557	26.2	21.0	14 E	—	6*
6 30	7 15.75	+11 47.7	1.514	0.590	25.9	21.1	15 E	—	8*
7 5	7 46.82	+11 34.0	1.587	0.674	25.0	21.5	16 E	—	10*
7 10	8 14.59	+11 18.3	1.662	0.756	23.8	21.8	17 E	—	11*
7 15	8 39.53	+10 59.6	1.740	0.836	22.2	22.1	18 E	—	12*
7 20	9 2.09	+10 38.1	1.820	0.913	20.5	22.3	18 E	—	12*

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5 31	3 5.36	+ 8 59.4	0.504	0.594	134.7	21.0	25 W	—	19*
6 2	2 57.13	+10 12.8	0.516	0.605	129.3	20.5	27 W	1*	21*
6 4	2 49.99	+11 28.2	0.530	0.618	124.0	20.1	30 W	4*	24*
6 6	2 43.94	+12 44.5	0.545	0.633	118.8	19.8	33 W	8*	26*
6 8	2 38.94	+14 0.5	0.561	0.648	114.0	19.6	36 W	11*	28*
6 10	2 34.91	+15 15.8	0.578	0.665	109.4	19.5	38 W	13*	29*
6 15	2 28.48	+18 17.9	0.621	0.709	99.4	19.2	44 W	20*	32*
6 20	2 26.12	+21 8.9	0.663	0.757	91.1	19.1	48 W	26*	33*
6 25	2 26.58	+23 48.4	0.703	0.806	84.4	19.1	52 W	31*	33*
6 30	2 28.92	+26 17.1	0.738	0.857	78.8	19.2	56 W	36*	33*
7 5	2 32.48	+28 36.2	0.769	0.908	74.1	19.2	59 W	41*	32*
7 10	2 36.76	+30 47.0	0.795	0.958	70.2	19.3	62 W	46*	31*
7 15	2 41.39	+32 50.6	0.816	1.008	66.8	19.3	66 W	50*	30*
7 20	2 46.08	+34 48.1	0.833	1.056	63.8	19.4	69 W	55*	29*
7 25	2 50.57	+36 40.4	0.846	1.104	61.1	19.4	72 W	60*	27*
7 30	2 54.65	+38 28.1	0.854	1.150	58.7	19.5	75 W	64*	26*
8 4	2 58.14	+40 11.8	0.859	1.195	56.4	19.5	79 W	69*	24
8 9	3 0.85	+41 52.0	0.860	1.238	54.2	19.5	82 W	74*	22
8 14	3 2.57	+43 29.0	0.858	1.280	52.1	19.5	86 W	78*	21
8 19	3 3.06	+45 2.7	0.854	1.320	50.0	19.5	90 W	83*	19
8 24	3 2.10	+46 32.6	0.847	1.359	47.9	19.5	94 W	88*	17
8 29	2 59.43	+47 57.8	0.839	1.397	45.7	19.5	98 W	87	16
9 3	2 54.83	+49 17.0	0.829	1.433	43.5	19.5	102 W	86	15
9 8	2 48.09	+50 28.3	0.820	1.468	41.2	19.4	106 W	85	14
9 13	2 39.02	+51 28.8	0.810	1.501	38.7	19.4	111 W	84	13
9 18	2 27.57	+52 15.1	0.801	1.533	36.2	19.3	116 W	83	12
9 23	2 13.90	+52 43.1	0.794	1.564	33.6	19.3	120 W	82	11
9 28	1 58.43	+52 49.0	0.789	1.593	31.0	19.2	125 W	82	11

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
141052 2001 XR_1 *(continuation)*									
9 30	1 51.88	+52 44.5	0.788	1.604	29.9	19.2	127 W	82	11
10 2	1 45.19	+52 35.9	0.788	1.615	28.9	19.2	129 W	82	11
10 4	1 38.43	+52 23.0	0.788	1.626	27.9	19.2	130 W	83	12
10 6	1 31.64	+52 5.9	0.789	1.637	26.9	19.2	132 W	83	12
10 8	1 24.88	+51 44.6	0.790	1.647	26.0	19.2	134 W	83	12
10 10	1 18.21	+51 19.0	0.793	1.658	25.1	19.2	135 W	84	13
10 12	1 11.68	+50 49.4	0.795	1.668	24.3	19.1	137 W	84	13
10 14	1 5.35	+50 16.0	0.799	1.678	23.5	19.1	138 E	85	14
10 16	0 59.25	+49 39.0	0.804	1.687	22.9	19.2	139 E	85	14
10 18	0 53.43	+48 58.6	0.809	1.697	22.3	19.2	140 E	86	15
10 23	0 40.28	+47 5.6	0.827	1.720	21.2	19.2	141 E	88	17
10 28	0 29.35	+44 59.9	0.849	1.741	20.8	19.3	142 E	90	19
11 2	0 20.71	+42 47.6	0.878	1.761	20.9	19.4	141 E	88	21
11 7	0 14.25	+40 34.0	0.912	1.781	21.6	19.5	139 E	86	23
11 12	0 9.82	+38 23.4	0.951	1.799	22.5	19.6	136 E	83	26
11 17	0 7.19	+36 19.3	0.994	1.815	23.7	19.8	132 E	81	28
11 22	0 6.16	+34 24.1	1.043	1.831	24.9	20.0	129 E	79	30
11 27	0 6.51	+32 39.2	1.094	1.845	26.0	20.1	125 E	78	31
12 2	0 8.03	+31 5.3	1.150	1.858	27.1	20.3	121 E	76	33
12 7	0 10.57	+29 42.4	1.208	1.871	28.1	20.4	117 E	75	34*
12 12	0 13.97	+28 30.2	1.268	1.882	28.9	20.6	113 E	74	35*
12 17	0 18.14	+27 28.2	1.330	1.891	29.5	20.7	109 E	72	36*
12 22	0 22.95	+26 35.9	1.394	1.900	30.0	20.8	105 E	72	36*
12 27	0 28.34	+25 52.5	1.458	1.908	30.4	20.9	101 E	71	35*
1 1	0 34.21	+25 17.2	1.524	1.914	30.6	21.0	97 E	70	34*
1 6	0 40.52	+24 49.2	1.589	1.920	30.7	21.1	94 E	70	33*
1 11	0 47.21	+24 27.7	1.655	1.924	30.7	21.2	90 E	69	32*
1 16	0 54.25	+24 12.2	1.720	1.927	30.6	21.3	86 E	69*	31*
413989 2007 EL_{88}									
5 31	3 9.97	+49 37.9	0.558	0.617	119.1	21.5	32 W	26*	—
6 2	3 9.14	+48 19.4	0.586	0.602	117.3	21.4	32 W	26*	—
6 4	3 9.27	+46 58.5	0.614	0.588	115.1	21.3	32 W	26*	—
6 6	3 10.33	+45 35.9	0.643	0.575	112.6	21.2	32 W	26*	1*
6 8	3 12.27	+44 12.0	0.673	0.564	109.9	21.1	31 W	25*	2*
6 10	3 15.03	+42 47.5	0.704	0.554	107.0	20.9	31 W	25*	4*
6 12	3 18.56	+41 22.6	0.735	0.547	103.8	20.8	32 W	25*	6*
6 14	3 22.80	+39 58.0	0.767	0.541	100.5	20.7	32 W	24*	7*
6 16	3 27.69	+38 34.1	0.799	0.537	97.0	20.6	32 W	24*	9*
6 18	3 33.16	+37 11.1	0.832	0.535	93.5	20.6	32 W	23*	10*
6 20	3 39.14	+35 49.6	0.864	0.536	89.9	20.5	32 W	23*	12*
6 22	3 45.56	+34 29.6	0.897	0.538	86.3	20.5	32 W	22*	13*
6 24	3 52.35	+33 11.5	0.929	0.543	82.9	20.4	32 W	22*	14*
6 26	3 59.44	+31 55.4	0.961	0.550	79.5	20.4	32 W	21*	15*
6 28	4 6.76	+30 41.3	0.992	0.558	76.3	20.4	32 W	21*	16*
6 30	4 14.25	+29 29.4	1.023	0.569	73.2	20.4	32 W	20*	17*
7 5	4 33.40	+26 38.7	1.096	0.601	66.3	20.4	33 W	19*	19*
7 10	4 52.64	+24 0.4	1.164	0.641	60.6	20.5	33 W	18*	21*
7 15	5 11.54	+21 32.9	1.226	0.685	56.0	20.7	34 W	17*	22*
7 20	5 29.86	+19 14.5	1.282	0.733	52.3	20.8	35 W	17*	24*
7 25	5 47.45	+17 3.6	1.334	0.782	49.4	20.9	36 W	17*	25*
7 30	6 4.28	+14 58.7	1.380	0.832	47.0	21.1	37 W	17*	27*
8 4	6 20.35	+12 59.0	1.421	0.881	45.1	21.2	38 W	17*	28*
8 9	6 35.68	+11 3.3	1.458	0.930	43.6	21.3	39 W	18*	30*
8 14	6 50.32	+ 9 11.0	1.491	0.978	42.4	21.5	41 W	19*	31*
220124 2002 TE_{66}									
5 31	3 14.80	+ 5 48.3	2.046	1.202	20.6	21.5	25 W	—	18*
6 10	3 51.16	+ 4 46.1	1.953	1.145	23.7	21.4	27 W	—	20*
6 20	4 30.55	+ 3 24.9	1.867	1.089	26.5	21.2	29 W	—	22*
6 30	5 13.08	+ 1 46.2	1.795	1.038	28.8	21.1	29 W	—	22*
7 10	5 58.53	− 0 4.8	1.741	0.992	30.3	21.0	29 W	—	21*
7 20	6 46.33	− 1 59.3	1.711	0.954	30.7	20.9	29 W	—	20*
7 30	7 35.45	− 3 46.2	1.707	0.926	29.9	20.8	27 W	—	18*
8 9	8 24.59	− 5 15.0	1.726	0.910	27.7	20.7	25 W	—	15*
8 19	9 12.55	− 6 19.5	1.767	0.907	24.3	20.7	22 W	—	12*
8 29	9 58.39	− 6 58.6	1.821	0.917	20.1	20.6	18 W	—	8*
9 8	10 41.61	− 7 15.2	1.882	0.941	15.4	20.6	14 W	—	5*
9 18	11 22.16	− 7 14.2	1.946	0.975	10.8	20.6	10 W	—	3*
9 28	12 0.21	− 7 0.3	2.006	1.018	6.7	20.6	7 W	—	—
10 8	12 36.08	− 6 36.7	2.060	1.067	4.4	20.6	5 W	—	—
10 18	13 10.15	− 6 5.4	2.105	1.121	5.7	20.8	6 W	—	—
10 28	13 42.74	− 5 26.8	2.142	1.177	8.6	21.1	10 W	4*	—
11 7	14 14.13	− 4 40.5	2.170	1.235	11.5	21.3	14 W	8*	—
137671 1999 XP_{35}									
5 31	3 38.52	+26 31.5	2.218	1.251	10.6	21.5	13 W	5*	3*
6 10	4 16.29	+26 54.9	2.195	1.231	11.1	21.4	14 W	5*	4*
6 20	4 54.57	+26 41.2	2.173	1.212	11.7	21.4	14 W	5*	4*
6 30	5 32.90	+25 49.3	2.152	1.197	12.5	21.4	15 W	5*	5*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
137671 1999 XP_{35} *(continuation)*									
7 10	6 10.85	+24 19.2	2.133	1.185	13.2	21.4	15 W	5*	6*
7 20	6 48.05	+22 12.9	2.116	1.176	14.1	21.4	16 W	6*	8*
7 30	7 24.24	+19 33.8	2.100	1.171	15.0	21.4	17 W	6*	9*
8 9	7 59.29	+16 26.2	2.087	1.170	15.9	21.4	18 W	7*	10*
8 19	8 33.20	+12 55.1	2.076	1.174	16.8	21.4	20 W	8*	11*
8 29	9 6.03	+ 9 6.0	2.068	1.180	17.7	21.5	21 W	8*	13*
368184 2000 RN_{77}									
5 31	3 59.82	+28 20.1	1.932	0.949	10.4	21.5	10 W	4*	—
6 5	4 23.04	+28 57.0	1.907	0.920	10.2	21.4	9 W	3*	—
6 10	4 47.16	+29 18.7	1.882	0.891	9.8	21.3	9 W	3*	—
6 15	5 12.09	+29 23.2	1.857	0.862	9.3	21.1	8 W	2*	—
6 20	5 37.72	+29 8.9	1.832	0.832	8.4	21.0	7 W	1*	—
6 25	6 3.91	+28 34.2	1.807	0.803	7.4	20.8	6 W	—	—
6 30	6 30.47	+27 37.8	1.783	0.774	6.1	20.7	5 W	—	—
7 5	6 57.24	+26 19.2	1.759	0.747	4.8	20.5	4 E	—	—
7 10	7 24.03	+24 38.1	1.735	0.722	4.0	20.4	3 E	—	—
7 15	7 50.72	+22 35.2	1.712	0.699	4.6	20.3	3 E	—	—
7 20	8 17.18	+20 11.8	1.688	0.680	6.7	20.3	4 E	—	—
7 25	8 43.33	+17 29.7	1.664	0.665	9.8	20.4	6 E	—	—
7 30	9 9.14	+14 31.7	1.641	0.654	13.3	20.4	9 E	—	3*
8 4	9 34.61	+11 20.8	1.617	0.649	17.1	20.5	11 E	—	5*
8 9	9 59.78	+ 8 0.7	1.593	0.649	21.0	20.6	13 E	—	7*
8 14	10 24.73	+ 4 35.0	1.571	0.655	24.7	20.7	16 E	—	9*
8 19	10 49.55	+ 1 7.7	1.550	0.666	28.1	20.8	18 E	—	12*
8 24	11 14.32	− 2 17.7	1.531	0.682	31.2	20.9	20 E	—	14*
8 29	11 39.13	− 5 37.8	1.515	0.702	33.8	21.0	23 E	—	16*
9 3	12 4.05	− 8 49.4	1.502	0.725	35.9	21.2	25 E	—	18*
9 8	12 29.14	−11 49.7	1.494	0.751	37.5	21.3	27 E	—	20*
9 13	12 54.43	−14 36.4	1.489	0.778	38.6	21.4	29 E	—	22*
9 18	13 19.89	−17 7.7	1.489	0.807	39.4	21.5	31 E	—	24*
439880 1999 XV_{223}									
5 31	4 51.27	+20 46.0	2.751	1.742	2.7	21.5	5 E	—	—
6 10	5 19.03	+21 44.6	2.783	1.769	1.0	21.4	2 E	—	—
6 20	5 46.55	+22 24.3	2.813	1.798	1.2	21.5	2 W	—	—
6 30	6 13.65	+22 45.6	2.839	1.829	2.9	21.7	5 W	—	—
7 10	6 40.19	+22 49.7	2.860	1.862	4.7	21.8	9 W	—	1*
180309 2003 XR									
5 31	5 3.62	+25 35.2	3.126	2.127	3.8	21.5	8 E	1*	—
6 10	5 26.64	+25 48.0	3.168	2.156	1.9	21.4	4 E	—	—
6 20	5 49.29	+25 48.6	3.200	2.186	1.3	21.4	3 W	—	—
6 30	6 11.46	+25 37.5	3.222	2.214	2.8	21.6	6 W	—	—
7 10	6 33.09	+25 15.5	3.234	2.243	4.8	21.7	11 W	3*	2*
99869 2002 PF_{46}									
5 31	5 12.79	+21 1.5	4.356	3.360	2.8	21.4	9 E	—	3*
6 10	5 26.41	+21 14.3	4.355	3.342	1.1	21.3	3 E	—	—
6 20	5 40.21	+21 22.4	4.336	3.323	1.2	21.3	4 W	—	—
6 30	5 54.12	+21 25.5	4.299	3.303	3.1	21.4	10 W	—	3*
7 10	6 8.04	+21 23.4	4.246	3.282	5.0	21.4	16 W	4*	9*
7 20	6 21.92	+21 16.3	4.175	3.259	6.8	21.5	22 W	9*	13*
86964 2000 JV_2									
5 31	5 13.26	+19 35.2	3.963	2.969	3.3	21.5	10 E	—	4*
6 10	5 28.63	+19 58.4	3.998	2.988	1.6	21.4	5 E	—	—
6 20	5 43.96	+20 15.1	4.018	3.005	1.4	21.4	4 W	—	—
6 30	5 59.18	+20 25.4	4.021	3.021	3.0	21.5	9 W	—	3*
7 10	6 14.21	+20 29.7	4.008	3.037	4.9	21.6	15 W	2*	8*
334673 2003 AL_{18}									
5 31	5 45.45	+29 3.3	2.462	1.530	11.8	21.4	18 E	10*	5*
6 10	6 15.60	+28 11.5	2.427	1.470	10.2	21.2	15 E	7*	4*
6 20	6 46.62	+26 54.2	2.386	1.409	8.7	21.0	12 E	4*	3*
6 30	7 18.35	+25 8.9	2.340	1.349	7.3	20.8	10 E	1*	2*
7 10	7 50.65	+22 53.4	2.289	1.288	6.0	20.6	8 E	—	—
7 20	8 23.45	+20 6.4	2.236	1.230	4.9	20.4	6 E	—	—
7 30	8 56.70	+16 47.4	2.182	1.174	4.2	20.2	5 E	—	—
8 9	9 30.42	+12 57.3	2.129	1.122	4.1	20.1	5 E	—	—
8 19	10 4.73	+ 8 38.3	2.080	1.075	4.7	20.0	5 E	—	—
8 24	10 22.15	+ 6 19.3	2.057	1.055	5.2	19.9	5 E	—	—
8 29	10 39.80	+ 3 55.0	2.036	1.036	5.8	19.9	6 E	—	—
9 3	10 57.70	+ 1 26.2	2.016	1.020	6.5	19.9	7 E	—	—
9 8	11 15.90	− 1 5.9	1.999	1.007	7.2	19.8	7 E	—	—
9 13	11 34.43	− 3 40.0	1.984	0.996	7.9	19.8	8 E	—	—
9 18	11 53.33	− 6 14.9	1.971	0.989	8.7	19.8	9 E	—	—
9 23	12 12.63	− 8 48.8	1.961	0.984	9.4	19.9	9 E	—	1*
9 28	12 32.36	−11 20.1	1.955	0.983	10.1	19.9	10 E	—	1*
10 3	12 52.54	−13 47.1	1.951	0.985	10.8	19.9	11 E	—	2*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
334673 2003 AL_{18} *(continuation)*									
10 8	13 13.17	−16 7.9	1.950	0.990	11.3	19.9	11 E	—	3*
10 13	13 34.27	−18 20.9	1.953	0.998	11.8	20.0	12 E	—	3*
10 18	13 55.79	−20 24.4	1.960	1.009	12.1	20.0	12 E	—	4*
10 23	14 17.69	−22 17.0	1.969	1.022	12.3	20.1	13 E	—	5*
10 28	14 39.89	−23 57.4	1.982	1.038	12.4	20.1	13 E	—	5*
11 2	15 2.32	−25 24.6	1.999	1.057	12.4	20.2	13 E	—	6*
11 7	15 24.88	−26 37.9	2.018	1.078	12.2	20.2	13 E	—	6*
11 12	15 47.44	−27 37.0	2.040	1.100	11.9	20.3	13 E	—	6*
11 17	16 9.88	−28 21.9	2.065	1.125	11.5	20.3	13 E	—	7*
11 22	16 32.08	−28 52.9	2.092	1.150	11.0	20.4	13 E	—	6*
11 27	16 53.91	−29 10.4	2.121	1.177	10.4	20.5	12 E	—	6*
12 2	17 15.27	−29 15.3	2.152	1.205	9.8	20.5	12 E	—	6*
12 7	17 36.08	−29 8.5	2.184	1.233	9.0	20.6	11 E	—	5*
12 12	17 56.27	−28 51.0	2.217	1.262	8.2	20.6	11 E	—	5*
12 17	18 15.79	−28 23.8	2.251	1.292	7.3	20.7	10 E	—	4*
12 22	18 34.60	−27 48.1	2.286	1.322	6.4	20.7	9 E	—	3*
12 27	18 52.70	−27 4.8	2.321	1.352	5.5	20.7	8 E	—	2*
1 1	19 10.08	−26 15.1	2.355	1.382	4.6	20.8	6 E	—	—
1 6	19 26.76	−25 19.7	2.389	1.413	3.6	20.8	5 E	—	—
1 11	19 42.76	−24 19.5	2.423	1.443	2.7	20.8	4 E	—	—
1 16	19 58.11	−23 15.3	2.455	1.473	1.9	20.8	3 E	—	—
147431 2003 JA									
5 31	5 47.04	+24 6.9	2.505	1.566	11.1	21.5	17 E	7*	8*
6 10	6 17.16	+24 38.3	2.528	1.567	9.4	21.4	15 E	4*	6*
6 20	6 47.47	+24 47.1	2.548	1.569	7.8	21.4	12 E	2*	4*
6 30	7 17.75	+24 33.4	2.565	1.571	6.1	21.3	10 E	1*	2*
7 10	7 47.80	+23 58.1	2.578	1.575	4.6	21.2	7 E	—	—
7 20	8 17.48	+23 2.2	2.589	1.579	3.3	21.2	5 E	—	—
7 30	8 46.64	+21 47.5	2.596	1.585	2.5	21.1	4 E	—	—
8 9	9 15.19	+20 16.0	2.600	1.591	2.8	21.2	4 W	—	—
8 19	9 43.10	+18 29.8	2.600	1.598	4.0	21.3	6 W	—	—
8 29	10 10.35	+16 31.4	2.597	1.606	5.4	21.3	9 W	3*	—
9 8	10 36.95	+14 23.1	2.589	1.614	7.1	21.4	11 W	5*	—
377603 2005 QW_{160}									
5 31	17 27.17	−21 38.6	2.182	3.179	4.0	23.0	167 W	23	86
6 10	17 17.20	−21 34.2	2.142	3.157	0.5	22.7	178 W	23	86
6 20	17 6.95	−21 28.6	2.132	3.135	3.6	22.9	169 E	24	85
6 30	16 57.35	−21 22.5	2.150	3.111	7.3	23.1	157 E	24	85
7 10	16 49.23	−21 17.7	2.193	3.086	10.7	23.2	146 E	24	85
415780 2000 WO_{10}									
5 31	17 29.83	−21 4.5	2.322	3.316	4.1	22.6	167 W	24	85
6 10	17 19.24	−21 22.3	2.303	3.317	0.6	22.3	178 W	24	85
6 20	17 8.50	−21 38.8	2.314	3.318	3.3	22.6	169 E	23	86
6 30	16 58.49	−21 54.0	2.355	3.317	6.8	22.8	157 E	23	86
7 10	16 49.99	−22 8.8	2.423	3.314	9.9	23.0	146 E	23	86
523589 2001 HA_4									
5 31	17 32.06	−44 58.9	3.699	4.631	5.5	24.3	154 W	—	71
6 5	17 26.36	−45 0.9	3.693	4.641	5.0	24.3	157 W	—	71
6 10	17 20.57	−44 59.5	3.694	4.651	4.7	24.3	158 W	—	71
6 15	17 14.79	−44 54.4	3.702	4.660	4.7	24.3	158 E	—	71
6 20	17 9.11	−44 46.0	3.718	4.669	4.9	24.3	157 E	—	71
6 25	17 3.64	−44 34.3	3.742	4.678	5.4	24.4	154 E	—	71
6 30	16 58.45	−44 19.7	3.772	4.686	6.1	24.4	151 E	1	72
415710 1998 WC_2									
5 31	17 34.94	+ 6 45.3	2.259	3.162	9.9	23.4	147 W	52	57
6 10	17 24.86	+ 7 28.5	2.289	3.205	9.3	23.4	149 W	52	57
6 20	17 15.00	+ 7 48.7	2.346	3.247	9.7	23.5	147 E	53	56
6 30	17 6.11	+ 7 46.7	2.427	3.288	11.0	23.7	142 E	53	56
7 10	16 58.78	+ 7 25.3	2.532	3.328	12.5	23.9	135 E	52	57
507799 2014 BV_{57}									
5 31	17 39.31	−61 48.3	2.646	3.471	11.2	22.6	138 W	—	54
6 5	17 30.97	−62 0.3	2.625	3.464	10.9	22.6	140 W	—	54
6 10	17 22.23	−62 4.8	2.609	3.456	10.7	22.5	141 W	—	54
6 15	17 13.34	−62 1.4	2.598	3.449	10.7	22.5	141 E	—	54
6 20	17 4.58	−61 50.1	2.594	3.441	10.8	22.5	141 E	—	54
6 25	16 56.21	−61 31.2	2.595	3.432	11.1	22.5	140 E	—	54
6 30	16 48.47	−61 5.3	2.603	3.424	11.5	22.6	138 E	—	55
415135 2012 DO_{54}									
5 31	17 41.45	− 7 28.9	1.961	2.926	7.5	22.7	158 W	38	71
6 10	17 31.67	− 7 12.4	1.922	2.910	5.7	22.6	164 W	38	71
6 20	17 21.39	− 7 8.1	1.910	2.893	6.3	22.6	162 E	38	71
6 30	17 11.58	− 7 16.7	1.926	2.875	8.9	22.7	154 E	38	71
7 10	17 3.11	− 7 37.9	1.967	2.856	11.9	22.9	144 E	37	72

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
436568 2011 HB_{53}									
5 31	17 42.47	−21 53.0	2.981	3.965	4.1	23.1	164 W	23	86
6 10	17 31.99	−22 14.0	2.938	3.951	1.1	22.9	176 W	23	86
6 20	17 21.08	−22 33.2	2.927	3.937	2.0	22.9	172 E	22	87
6 30	17 10.48	−22 50.4	2.949	3.920	5.0	23.1	160 E	22	87
7 10	17 0.88	−23 5.7	3.000	3.903	7.8	23.3	148 E	22	87
163667 2002 WC_1									
5 31	17 42.82	−27 43.5	1.968	2.952	5.8	24.0	163 W	17	88
6 5	17 36.70	−27 46.0	1.977	2.978	3.8	23.9	169 W	17	88
6 10	17 30.50	−27 46.5	1.992	3.004	2.1	23.8	174 W	17	88
6 15	17 24.35	−27 44.9	2.016	3.029	1.7	23.8	175 E	17	88
6 20	17 18.40	−27 41.6	2.047	3.054	3.1	24.0	171 E	17	88
6 25	17 12.78	−27 36.6	2.085	3.078	4.8	24.1	165 E	17	88
6 30	17 7.60	−27 30.5	2.130	3.103	6.6	24.3	159 E	17	88
214869 2007 PA_8									
5 31	17 45.83	−21 14.8	3.648	4.627	3.7	22.9	163 W	24	85
6 10	17 37.84	−21 10.8	3.603	4.614	1.3	22.7	174 W	24	85
6 20	17 29.54	−21 6.3	3.590	4.601	1.4	22.7	174 E	24	85
6 30	17 21.45	−21 1.4	3.607	4.587	3.8	22.8	162 E	24	85
7 10	17 14.08	−20 56.7	3.654	4.572	6.1	23.0	151 E	24	85
508825 2001 SK_{169}									
5 31	17 48.55	+ 1 41.1	3.815	4.720	6.2	24.2	150 W	47	62
6 10	17 41.74	+ 1 57.7	3.784	4.718	5.4	24.1	154 W	47	62
6 20	17 34.66	+ 2 3.6	3.780	4.715	5.4	24.1	154 E	47	62
6 30	17 27.76	+ 1 58.3	3.805	4.711	6.2	24.1	150 E	47	62
7 10	17 21.47	+ 1 42.3	3.856	4.707	7.5	24.2	143 E	47	62
523801 1993 TQ_2									
5 31	17 55.38	−32 4.5	1.826	2.796	7.5	24.0	159 W	13	84
6 5	17 49.04	−32 11.6	1.810	2.800	5.6	23.9	164 W	13	84
6 10	17 42.38	−32 15.5	1.801	2.804	4.0	23.8	169 W	13	84
6 15	17 35.55	−32 16.1	1.799	2.807	3.2	23.7	171 W	13	84
6 20	17 28.72	−32 13.3	1.805	2.810	3.8	23.8	169 E	13	84
6 25	17 22.09	−32 7.2	1.818	2.813	5.3	23.9	165 E	13	84
6 30	17 15.80	−31 58.3	1.837	2.815	7.1	24.0	160 E	13	84
7 5	17 10.01	−31 46.9	1.864	2.817	8.9	24.1	155 E	13	84
320276 2007 RL_{95}									
5 31	17 55.78	−19 52.6	2.038	3.012	6.5	22.6	160 W	25	84
6 10	17 45.92	−19 47.0	2.012	3.020	2.8	22.4	172 W	25	84
6 20	17 35.52	−19 41.9	2.014	3.027	2.0	22.4	174 E	25	84
6 30	17 25.55	−19 37.8	2.045	3.032	5.6	22.6	163 E	25	84
7 10	17 16.92	−19 35.5	2.104	3.037	9.1	22.8	152 E	25	84
382529 2001 SE_{313}									
5 31	17 58.91	−20 26.7	2.006	2.978	6.8	23.2	160 W	25	84
6 10	17 49.32	−20 30.2	1.940	2.947	3.0	22.9	171 W	24	85
6 20	17 38.68	−20 34.0	1.901	2.915	1.7	22.7	175 E	24	85
6 30	17 27.99	−20 38.0	1.892	2.882	5.6	22.9	164 E	24	85
7 10	17 18.29	−20 42.6	1.909	2.848	9.6	23.1	152 E	24	85
523657 2012 DJ_4									
5 31	17 59.10	−10 38.7	1.403	2.367	9.9	23.6	156 W	34	75
6 10	17 47.02	−10 24.9	1.359	2.355	6.4	23.4	165 W	35	74
6 20	17 33.76	−10 23.4	1.342	2.341	6.0	23.4	166 E	35	74
6 30	17 20.80	−10 35.0	1.351	2.325	9.4	23.5	158 E	34	75
7 10	17 9.55	−10 59.3	1.385	2.307	13.7	23.7	147 E	34	75
519824 2013 JY_{35}									
5 31	18 2.50	+ 7 51.1	1.409	2.301	15.4	22.7	143 W	53	56
6 5	17 54.06	+ 8 50.0	1.398	2.305	14.5	22.7	145 W	54	55
6 10	17 45.22	+ 9 40.4	1.393	2.309	14.1	22.6	146 W	55	54
6 15	17 36.19	+10 21.4	1.396	2.311	14.1	22.6	146 W	55	54
6 20	17 27.18	+10 52.2	1.405	2.313	14.6	22.7	145 E	56	53
6 25	17 18.43	+11 12.5	1.421	2.313	15.5	22.7	143 E	56	53
6 30	17 10.14	+11 22.6	1.444	2.313	16.6	22.8	139 E	56	53
7 5	17 2.48	+11 23.1	1.472	2.312	17.9	22.9	136 E	56	53
333888 1998 ST_4									
5 31	18 9.06	−17 53.2	3.560	4.510	5.1	23.2	157 W	27	82
6 10	18 1.52	−17 42.6	3.512	4.509	2.8	23.0	168 W	27	82
6 20	17 53.48	−17 33.4	3.494	4.507	1.3	22.9	174 E	27	82
6 30	17 45.45	−17 25.9	3.508	4.503	3.0	23.0	167 E	28	81
7 10	17 37.96	−17 20.2	3.551	4.499	5.3	23.2	156 E	28	81
503864 1999 SJ_{24}									
5 31	18 14.78	−25 7.9	1.634	2.595	9.0	22.2	156 W	20	89
6 10	18 5.19	−25 14.4	1.565	2.567	4.7	21.9	168 W	20	89
6 20	17 53.95	−25 16.8	1.522	2.538	0.7	21.6	178 E	20	89
6 30	17 42.29	−25 14.0	1.507	2.509	5.0	21.8	167 E	20	89
7 10	17 31.58	−25 6.4	1.517	2.479	9.8	22.0	156 E	20	89

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
426082 2012 DG_{31}									
5 31	18 26.25	+20 49.0	0.632	1.495	31.8	21.3	129 W	66	43
6 5	18 19.68	+20 35.5	0.618	1.500	30.2	21.2	132 W	66	43
6 10	18 12.18	+20 1.9	0.606	1.504	28.7	21.2	135 W	65	44
6 15	18 4.01	+19 6.7	0.597	1.508	27.4	21.1	137 W	64	45
6 20	17 55.48	+17 49.2	0.591	1.511	26.3	21.0	139 W	63	46
6 25	17 46.97	+16 9.8	0.588	1.514	25.7	21.0	140 E	61	48
6 30	17 38.84	+14 10.6	0.590	1.517	25.5	21.0	140 E	59	50
7 5	17 31.43	+11 54.6	0.596	1.519	25.8	21.1	139 E	57	52
7 10	17 24.97	+ 9 25.7	0.605	1.521	26.6	21.1	138 E	54	55
7 15	17 19.65	+ 6 48.1	0.619	1.523	27.7	21.2	136 E	52	57
7 20	17 15.61	+ 4 5.6	0.637	1.524	29.1	21.3	133 E	49	60
7 25	17 12.90	+ 1 22.1	0.658	1.525	30.7	21.4	130 E	46	63
6322 1991 CQ									
5 31	18 26.75	+14 23.9	2.678	3.462	12.1	21.8	134 W	59	50
6 10	18 18.66	+14 54.4	2.654	3.483	11.1	21.7	139 W	60	49
6 20	18 9.81	+15 2.3	2.652	3.504	10.4	21.7	141 W	60	49
6 30	18 0.89	+14 46.5	2.675	3.524	10.4	21.7	141 E	60	49
7 10	17 52.58	+14 8.3	2.720	3.543	11.1	21.8	138 E	59	50
7 20	17 45.45	+13 10.9	2.789	3.560	12.0	21.9	133 E	58	51
475462 2006 SW_5									
5 31	18 28.69	−38 38.8	1.346	2.282	12.8	22.1	150 W	6	77
6 5	18 21.19	−38 54.3	1.337	2.297	10.7	22.0	155 W	6	77
6 10	18 13.07	−39 4.0	1.334	2.312	8.8	21.9	160 W	6	77
6 15	18 4.58	−39 7.1	1.337	2.327	7.4	21.9	163 W	6	77
6 20	17 55.99	−39 3.4	1.347	2.341	6.7	21.9	164 W	6	77
6 25	17 47.58	−38 52.9	1.363	2.355	7.1	22.0	163 E	6	77
6 30	17 39.63	−38 36.4	1.386	2.368	8.3	22.1	160 E	6	77
7 5	17 32.36	−38 14.7	1.416	2.381	9.9	22.2	156 E	7	78
7 10	17 25.92	−37 49.0	1.451	2.394	11.7	22.3	151 E	7	78
7 15	17 20.44	−37 20.4	1.492	2.406	13.5	22.5	146 E	8	79
284114 2005 TZ_{51}									
5 31	18 30.34	−27 20.7	1.670	2.613	10.3	21.8	153 W	18	89
6 10	18 19.57	−27 2.1	1.584	2.577	6.0	21.4	165 W	18	89
6 20	18 6.65	−26 34.6	1.525	2.540	1.6	21.1	176 W	18	89
6 30	17 52.87	−25 57.3	1.495	2.502	4.2	21.1	170 E	19	90
7 10	17 39.75	−25 12.0	1.492	2.462	9.1	21.3	157 E	20	89
7 20	17 28.64	−24 22.5	1.514	2.420	13.8	21.5	145 E	21	88
382893 2004 PC_{88}									
5 31	18 31.19	−55 59.3	2.907	3.736	10.2	22.1	139 W	—	60
6 5	18 24.80	−56 12.4	2.878	3.733	9.6	22.1	142 W	—	60
6 10	18 17.88	−56 20.3	2.854	3.729	9.1	22.0	145 W	—	60
6 15	18 10.55	−56 22.3	2.837	3.725	8.7	22.0	146 W	—	60
6 20	18 3.01	−56 18.0	2.826	3.720	8.5	22.0	147 W	—	60
6 25	17 55.44	−56 7.3	2.821	3.716	8.6	22.0	147 E	—	60
6 30	17 48.03	−55 50.4	2.823	3.711	8.8	22.0	146 E	—	60
7 5	17 40.98	−55 27.4	2.832	3.706	9.2	22.0	144 E	—	61
7 10	17 34.43	−54 59.1	2.846	3.701	9.7	22.0	142 E	—	61
7 15	17 28.51	−54 26.0	2.867	3.695	10.4	22.1	139 E	—	62
7 20	17 23.31	−53 48.9	2.893	3.689	11.1	22.1	136 E	—	62
314005 2004 UK									
5 31	18 33.26	+ 5 54.1	2.282	3.122	12.2	21.5	139 W	51	58
6 10	18 25.19	+ 6 25.0	2.225	3.117	10.6	21.4	146 W	51	58
6 20	18 15.94	+ 6 35.7	2.193	3.112	9.5	21.3	150 W	52	57
6 30	18 6.28	+ 6 24.0	2.185	3.104	9.6	21.3	150 E	51	58
7 10	17 57.04	+ 5 50.7	2.203	3.096	10.7	21.3	146 E	51	58
7 20	17 48.96	+ 4 58.1	2.245	3.087	12.4	21.4	139 E	50	59
508594 2017 OJ_{61}									
5 31	18 35.76	−26 27.3	1.297	2.241	12.4	21.9	152 W	19	90
6 10	18 27.45	−26 41.4	1.221	2.212	7.8	21.5	163 W	18	89
6 20	18 16.53	−26 51.2	1.169	2.182	2.8	21.1	174 W	18	89
6 30	18 4.30	−26 53.5	1.141	2.152	3.9	21.1	172 E	18	89
7 10	17 52.51	−26 47.4	1.137	2.122	9.4	21.3	160 E	18	89
7 20	17 42.78	−26 34.4	1.156	2.091	14.7	21.5	149 E	18	89
436654 2011 RR_{12}									
5 31	18 37.54	− 9 12.8	0.854	1.793	17.8	21.2	147 W	36	73
6 5	18 34.08	− 8 30.5	0.811	1.772	15.6	20.9	152 W	36	73
6 10	18 29.58	− 7 50.2	0.773	1.751	13.5	20.7	156 W	37	72
6 15	18 24.13	− 7 13.0	0.740	1.730	11.6	20.5	160 W	38	71
6 20	18 17.83	− 6 40.0	0.712	1.708	10.4	20.4	162 W	38	71
6 25	18 10.91	− 6 12.4	0.689	1.687	10.3	20.3	163 E	39	70
6 30	18 3.61	− 5 51.3	0.670	1.665	11.5	20.2	161 E	39	70
7 5	17 56.23	− 5 37.3	0.657	1.642	13.8	20.3	157 E	39	70
7 10	17 49.06	− 5 31.1	0.648	1.620	16.6	20.3	153 E	39	70

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
436654 2011 RR_{12} *(continuation)*									
7 20	17 36.54	− 5 42.7	0.642	1.575	23.1	20.4	143 E	39	70
7 30	17 28.08	− 6 24.1	0.650	1.530	29.4	20.6	132 E	39	70
8 9	17 24.81	− 7 29.1	0.666	1.485	35.0	20.7	123 E	38	71
8 19	17 27.05	− 8 50.4	0.688	1.441	39.7	20.9	115 E	36	73
8 29	17 34.70	−10 20.8	0.711	1.398	43.6	21.0	107 E	35*	74
9 8	17 47.37	−11 53.6	0.735	1.356	46.8	21.1	101 E	33*	76
9 18	18 4.66	−13 22.7	0.756	1.317	49.4	21.1	96 E	31*	77*
9 28	18 26.21	−14 42.4	0.775	1.281	51.4	21.2	91 E	30*	77*
10 8	18 51.64	−15 47.0	0.791	1.249	53.1	21.2	88 E	29*	76*
10 18	19 20.58	−16 30.8	0.805	1.221	54.3	21.2	85 E	28*	74*
10 28	19 52.65	−16 48.5	0.819	1.199	55.2	21.3	82 E	28	71*
11 7	20 27.30	−16 35.3	0.832	1.182	55.7	21.3	80 E	28	69*
11 17	21 3.95	−15 48.0	0.847	1.173	55.8	21.3	79 E	29	66*
11 27	21 41.97	−14 25.3	0.866	1.170	55.6	21.3	78 E	31	63*
12 7	22 20.62	−12 29.1	0.889	1.174	54.9	21.4	77 E	33	61*
12 17	22 59.31	−10 3.5	0.920	1.186	54.0	21.5	77 E	35	58*
491585 2012 SL_6									
5 31	18 39.07	−29 21.2	2.116	3.040	9.4	21.7	151 W	16	87
6 10	18 30.57	−29 33.7	2.022	3.002	6.1	21.4	162 W	15	86
6 20	18 20.19	−29 40.3	1.955	2.964	2.9	21.1	172 W	15	86
6 30	18 8.85	−29 38.6	1.915	2.924	3.1	21.1	171 E	15	86
7 10	17 57.66	−29 27.8	1.905	2.884	6.7	21.2	161 E	16	87
7 20	17 47.73	−29 9.2	1.920	2.842	10.5	21.4	149 E	16	87
7 30	17 39.98	−28 45.2	1.959	2.800	14.0	21.5	138 E	16	87
367684 2010 OS_{22}									
5 31	18 39.79	−20 13.3	1.709	2.637	11.0	22.2	150 W	25	84
6 10	18 26.32	−19 56.4	1.622	2.609	6.6	21.8	163 W	25	84
6 20	18 10.44	−19 37.4	1.565	2.579	2.1	21.5	175 W	25	84
6 30	17 53.51	−19 15.6	1.539	2.545	4.3	21.5	169 E	26	83
7 10	17 37.16	−18 52.2	1.544	2.508	9.4	21.8	156 E	26	83
7 20	17 22.86	−18 29.8	1.576	2.468	14.2	22.0	143 E	27	82
337228 2000 FL_1									
5 31	18 40.49	−38 3.6	3.230	4.126	7.5	21.6	148 W	7	78
6 5	18 35.82	−38 38.6	3.193	4.121	6.5	21.5	153 W	6	77
6 10	18 30.72	−39 12.0	3.162	4.116	5.5	21.4	157 W	6	77
6 15	18 25.23	−39 43.1	3.139	4.110	4.8	21.4	160 W	5	76
6 20	18 19.46	−40 11.5	3.124	4.104	4.3	21.3	162 W	5	76
6 25	18 13.50	−40 36.7	3.116	4.098	4.2	21.3	163 E	4	75
6 30	18 7.47	−40 58.5	3.116	4.092	4.6	21.3	161 E	4	75
7 5	18 1.47	−41 16.8	3.124	4.085	5.3	21.4	158 E	4	75
7 10	17 55.62	−41 31.5	3.139	4.078	6.2	21.4	154 E	3	74
7 15	17 50.02	−41 42.7	3.161	4.071	7.2	21.5	150 E	3	74
7 20	17 44.76	−41 50.7	3.191	4.064	8.3	21.5	145 E	3	74
153542 2001 SS_{107}									
5 31	18 44.67	− 3 52.5	3.432	4.288	8.1	21.8	143 W	41	68
6 10	18 38.16	− 3 23.2	3.391	4.312	6.4	21.7	152 W	42	67
6 20	18 30.90	− 3 3.1	3.377	4.335	5.1	21.7	158 W	42	67
6 30	18 23.37	− 2 52.8	3.391	4.357	4.7	21.7	159 E	42	67
7 10	18 16.07	− 2 52.2	3.433	4.379	5.5	21.7	156 E	42	67
7 20	18 9.46	− 3 0.8	3.504	4.400	7.0	21.9	148 E	42	67
425250 2009 WG_{54}									
5 31	18 46.01	−32 36.7	0.648	1.603	19.3	22.3	149 W	12	83
6 5	18 37.77	−34 6.5	0.647	1.622	15.8	22.2	154 W	11	82
6 10	18 28.33	−35 29.4	0.651	1.641	12.5	22.1	160 W	10	81
6 15	18 18.05	−36 42.4	0.660	1.659	10.0	22.0	164 W	8	79
6 20	18 7.42	−37 43.2	0.674	1.677	8.7	22.1	165 W	7	78
6 25	17 56.93	−38 30.8	0.694	1.695	9.3	22.2	164 E	6	77
6 30	17 47.09	−39 5.3	0.719	1.712	11.2	22.3	161 E	6	77
7 5	17 38.31	−39 27.8	0.749	1.729	13.6	22.5	156 E	6	77
7 10	17 30.86	−39 40.1	0.784	1.746	16.2	22.8	151 E	5	76
344184 2001 DT_{105}									
5 31	18 46.83	−14 34.3	2.470	3.368	9.4	21.7	147 W	30	79
6 10	18 39.70	−14 30.4	2.384	3.347	6.5	21.5	158 W	30	79
6 20	18 31.16	−14 31.9	2.324	3.324	3.7	21.3	168 W	30	79
6 30	18 21.86	−14 38.8	2.294	3.301	2.8	21.2	171 E	30	79
7 10	18 12.59	−14 50.5	2.292	3.277	5.2	21.3	163 E	30	79
7 20	18 4.13	−15 6.6	2.318	3.252	8.3	21.5	152 E	30	79
434080 2002 AE_2									
5 31	18 47.43	+10 48.9	2.896	3.668	11.6	21.9	133 W	56	53
6 10	18 40.19	+10 56.3	2.838	3.674	10.2	21.8	140 W	56	53
6 20	18 31.92	+10 44.4	2.803	3.679	9.2	21.8	145 W	56	53
6 30	18 23.19	+10 12.1	2.793	3.683	8.8	21.8	146 E	55	54
7 10	18 14.65	+ 9 20.2	2.808	3.686	9.1	21.8	145 E	54	55
7 20	18 6.89	+ 8 11.2	2.850	3.689	10.1	21.9	140 E	53	56

523648 2010 WP_8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 31	18 50.80	−23 22.6	1.535	2.455	12.6	21.9	148 W	22	87
6 5	18 44.71	−22 58.5	1.521	2.474	10.3	21.8	154 W	22	87
6 10	18 38.08	−22 33.6	1.512	2.492	7.8	21.7	161 W	22	87
6 15	18 31.09	−22 8.0	1.510	2.510	5.3	21.6	167 W	23	86
6 20	18 23.90	−21 41.7	1.516	2.527	2.8	21.5	173 W	23	86
6 25	18 16.72	−21 15.1	1.528	2.544	0.9	21.4	178 W	24	85
6 30	18 9.73	−20 48.5	1.548	2.561	2.6	21.6	173 E	24	85
7 5	18 3.11	−20 22.3	1.576	2.577	5.0	21.8	167 E	25	84
7 10	17 57.00	−19 57.1	1.610	2.593	7.3	21.9	161 E	25	84
7 15	17 51.50	−19 33.1	1.651	2.608	9.5	22.1	155 E	25	84
7 20	17 46.72	−19 10.7	1.698	2.623	11.5	22.2	149 E	26	83
7 25	17 42.70	−18 50.3	1.751	2.637	13.3	22.4	143 E	26	83

490791 2010 VE_1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
5 31	18 52.06	−29 48.7	1.087	2.018	15.6	22.4	148 W	15	86
6 5	18 46.08	−30 21.3	1.080	2.040	12.8	22.3	154 W	15	86
6 10	18 39.33	−30 51.4	1.080	2.061	10.0	22.2	159 W	14	85
6 15	18 32.00	−31 17.9	1.084	2.082	7.3	22.1	165 W	14	85
6 20	18 24.35	−31 39.9	1.095	2.103	5.0	22.0	170 W	13	84
6 25	18 16.65	−31 56.9	1.113	2.123	4.1	22.0	171 W	13	84
6 30	18 9.20	−32 8.7	1.136	2.144	5.1	22.2	169 E	13	84
7 5	18 2.24	−32 15.7	1.166	2.163	7.2	22.3	165 E	13	84
7 10	17 55.96	−32 18.3	1.202	2.183	9.5	22.5	159 E	13	84
7 15	17 50.52	−32 17.1	1.244	2.202	11.7	22.7	154 E	13	84

483506 2002 XU_{66}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
5 31	18 52.30	−35 39.8	1.458	2.372	13.6	21.9	147 W	9	80
6 5	18 47.68	−35 18.6	1.395	2.340	11.8	21.7	152 W	10	81
6 10	18 42.09	−34 52.0	1.338	2.309	9.7	21.5	157 W	10	81
6 15	18 35.61	−34 19.1	1.287	2.277	7.6	21.3	163 W	11	82
6 20	18 28.36	−33 39.0	1.242	2.245	5.6	21.1	167 W	11	82
6 25	18 20.54	−32 51.2	1.204	2.213	4.4	20.9	170 W	12	83
6 30	18 12.40	−31 55.5	1.172	2.180	4.8	20.8	170 E	13	84
7 5	18 4.19	−30 52.2	1.148	2.148	6.7	20.9	166 E	14	85
7 10	17 56.19	−29 42.1	1.130	2.115	9.3	20.9	160 E	15	86
7 15	17 48.64	−28 26.5	1.119	2.082	12.2	21.0	154 E	17	88
7 20	17 41.80	−27 6.9	1.114	2.049	15.1	21.0	148 E	18	89
7 25	17 35.84	−25 45.3	1.115	2.016	18.0	21.1	142 E	19	90
7 30	17 30.93	−24 23.2	1.121	1.983	20.7	21.2	136 E	21	88
8 4	17 27.13	−23 2.3	1.131	1.950	23.3	21.2	131 E	22	87
8 9	17 24.49	−21 43.6	1.145	1.917	25.6	21.3	125 E	23	86
8 14	17 23.01	−20 28.1	1.162	1.884	27.8	21.3	120 E	25	84
8 19	17 22.67	−19 16.3	1.181	1.851	29.7	21.4	115 E	26*	83
8 24	17 23.46	−18 8.4	1.202	1.819	31.5	21.4	110 E	27*	82
8 29	17 25.30	−17 4.4	1.224	1.786	33.0	21.5	106 E	28*	81

52340 1992 SY

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
5 31	18 52.49	−34 33.8	2.023	2.925	10.9	22.3	147 W	10	81
6 5	18 46.85	−34 50.7	2.008	2.944	9.2	22.3	152 W	10	81
6 10	18 40.67	−35 5.0	1.999	2.963	7.5	22.2	158 W	10	81
6 15	18 34.10	−35 16.1	1.997	2.981	5.9	22.1	162 W	10	81
6 20	18 27.29	−35 23.5	2.003	2.999	4.7	22.1	166 W	10	81
6 25	18 20.39	−35 27.0	2.016	3.017	4.1	22.1	168 W	10	81
6 30	18 13.59	−35 26.6	2.036	3.034	4.4	22.1	167 E	10	81
7 5	18 7.04	−35 22.4	2.063	3.051	5.5	22.2	163 E	10	81
7 10	18 0.89	−35 14.8	2.098	3.068	6.9	22.4	159 E	10	81
7 15	17 55.24	−35 4.3	2.139	3.084	8.4	22.5	154 E	10	81

306749 2000 YS_2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
5 31	18 52.57	−29 32.5	1.607	2.523	12.4	21.6	148 W	15	86
6 5	18 47.96	−29 52.8	1.582	2.530	10.4	21.5	153 W	15	86
6 10	18 42.69	−30 11.9	1.563	2.537	8.3	21.4	159 W	15	86
6 15	18 36.87	−30 29.2	1.551	2.544	6.2	21.3	164 W	15	86
6 20	18 30.65	−30 44.1	1.545	2.550	4.3	21.2	169 W	14	85
6 25	18 24.22	−30 56.0	1.545	2.556	3.1	21.1	172 W	14	85
6 30	18 17.76	−31 4.7	1.553	2.562	3.5	21.1	171 E	14	85
7 5	18 11.48	−31 10.2	1.568	2.568	5.2	21.3	167 E	14	85
7 10	18 5.53	−31 12.4	1.589	2.573	7.2	21.4	162 E	14	85
7 15	18 0.07	−31 11.8	1.616	2.579	9.2	21.5	156 E	14	85
7 20	17 55.23	−31 8.7	1.650	2.583	11.1	21.6	151 E	14	85
7 25	17 51.13	−31 3.6	1.689	2.588	13.0	21.8	145 E	14	85

469046 2015 AB_{260}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
5 31	18 52.60	− 0 18.8	2.028	2.876	13.2	21.5	140 W	45	64
6 10	18 45.33	− 0 16.0	1.943	2.856	10.8	21.3	148 W	45	64
6 20	18 36.29	− 0 32.2	1.882	2.836	8.7	21.1	155 W	44	65
6 30	18 26.21	− 1 9.1	1.847	2.814	7.8	21.0	158 E	44	65
7 10	18 16.03	− 2 5.8	1.838	2.792	8.9	21.1	155 E	43	66
7 20	18 6.70	− 3 19.3	1.855	2.768	11.3	21.1	148 E	42	67
7 30	17 59.08	− 4 45.4	1.896	2.744	14.1	21.3	139 E	40	69
8 9	17 53.77	− 6 19.0	1.958	2.719	16.7	21.4	130 E	39	70

370123 2001 VP_2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 31	18 54.52	+12 15.2	2.697	3.450	12.8	21.8	131 W	57	52
6 10	18 47.86	+12 48.3	2.633	3.449	11.5	21.7	137 W	58	51
6 20	18 39.98	+13 1.1	2.591	3.448	10.5	21.6	142 W	58	51
6 30	18 31.44	+12 51.1	2.572	3.446	10.0	21.6	144 E	58	51
7 10	18 22.95	+12 18.2	2.577	3.443	10.2	21.6	143 E	57	52
7 20	18 15.14	+11 24.2	2.605	3.439	11.1	21.7	139 E	56	53

184061 2004 FM_{148}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
5 31	18 56.36	−42 17.3	2.225	3.101	11.2	21.6	144 W	3	74
6 5	18 51.58	−42 55.3	2.201	3.109	9.9	21.5	148 W	2	73
6 10	18 46.17	−43 30.3	2.184	3.117	8.8	21.5	152 W	1	72
6 15	18 40.21	−44 1.5	2.173	3.125	7.8	21.4	155 W	1	72
6 20	18 33.84	−44 28.0	2.169	3.132	7.1	21.4	158 W	1	72
6 25	18 27.22	−44 49.2	2.172	3.140	6.8	21.4	158 W	—	71
6 30	18 20.53	−45 5.0	2.182	3.147	7.0	21.4	158 E	—	71
7 5	18 13.93	−45 15.1	2.198	3.154	7.6	21.4	156 E	—	71
7 10	18 7.60	−45 19.7	2.221	3.160	8.4	21.5	153 E	—	71
7 15	18 1.69	−45 19.2	2.251	3.166	9.5	21.6	149 E	—	71
7 20	17 56.32	−45 14.0	2.287	3.173	10.6	21.7	145 E	—	71
7 25	17 51.61	−45 4.9	2.328	3.178	11.7	21.8	141 E	—	71

376246 2011 ES_{77}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
5 31	18 59.38	− 9 6.2	2.259	3.125	11.4	21.7	142 W	36	73
6 10	18 51.97	− 9 11.4	2.216	3.152	8.5	21.6	153 W	36	73
6 20	18 43.21	− 9 26.9	2.197	3.179	5.7	21.5	162 W	36	73
6 30	18 33.83	− 9 52.2	2.206	3.204	4.2	21.4	167 E	35	74
7 10	18 24.67	−10 25.7	2.244	3.229	5.4	21.5	163 E	35	74
7 20	18 16.47	−11 5.5	2.310	3.253	7.9	21.7	154 E	34	75

308084 2004 UF_1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
5 31	19 1.61	+ 4 36.2	2.162	2.965	14.0	22.0	135 W	50	59
6 10	18 54.07	+ 5 43.2	2.110	2.978	12.1	21.9	142 W	51	58
6 20	18 45.02	+ 6 31.0	2.080	2.989	10.5	21.8	148 W	52	57
6 30	18 35.18	+ 6 56.2	2.076	2.999	9.8	21.8	150 E	52	57
7 10	18 25.44	+ 6 58.0	2.097	3.008	10.3	21.9	148 E	52	57
7 20	18 16.61	+ 6 37.6	2.142	3.016	11.7	22.0	143 E	52	57

506420 1999 VW_{29}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
5 31	19 1.87	−16 12.2	1.582	2.477	13.8	22.0	144 W	29	80
6 10	18 55.34	−15 38.8	1.489	2.446	10.1	21.7	155 W	29	80
6 20	18 46.32	−15 10.3	1.418	2.415	6.1	21.3	165 W	30	79
6 30	18 35.63	−14 47.6	1.372	2.383	3.6	21.1	172 E	30	79
7 10	18 24.50	−14 31.6	1.353	2.350	6.3	21.2	165 E	30	79
7 20	18 14.24	−14 22.9	1.358	2.317	10.9	21.4	154 E	31	78

469307 1999 RD_{36}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
5 31	19 4.40	−11 16.1	1.581	2.462	14.6	21.5	142 W	34	75
6 10	18 59.31	−10 49.6	1.477	2.421	11.4	21.2	152 W	34	75
6 20	18 51.71	−10 34.0	1.394	2.379	7.9	20.9	161 W	34	75
6 30	18 42.28	−10 31.4	1.335	2.338	5.5	20.6	167 W	34	75
7 10	18 32.07	−10 42.5	1.301	2.296	7.0	20.6	164 E	34	75
7 20	18 22.35	−11 6.9	1.291	2.254	10.9	20.7	155 E	34	75
7 30	18 14.39	−11 42.8	1.304	2.212	15.3	20.8	145 E	33	76
8 9	18 9.19	−12 27.1	1.335	2.171	19.4	21.0	135 E	33	76
8 19	18 7.31	−13 16.8	1.382	2.130	22.9	21.1	125 E	32	77
8 29	18 9.01	−14 8.6	1.439	2.089	25.8	21.3	116 E	31	78
9 8	18 14.22	−14 59.3	1.503	2.049	27.9	21.4	108 E	30	79
9 18	18 22.71	−15 46.1	1.572	2.009	29.5	21.5	100 E	29*	80

234197 2000 QE_{180}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
5 31	19 5.07	−59 36.5	2.689	3.467	12.2	21.5	134 W	—	56
6 5	18 59.17	−60 7.1	2.654	3.461	11.7	21.4	136 W	—	56
6 10	18 52.35	−60 32.8	2.625	3.454	11.2	21.4	139 W	—	55
6 15	18 44.73	−60 52.7	2.601	3.446	10.8	21.3	140 W	—	55
6 20	18 36.50	−61 5.7	2.584	3.439	10.6	21.3	142 W	—	55
6 25	18 27.87	−61 11.4	2.572	3.431	10.5	21.3	142 W	—	55
6 30	18 19.11	−61 9.2	2.565	3.423	10.6	21.3	142 E	—	55
7 5	18 10.48	−60 59.3	2.565	3.415	10.8	21.3	141 E	—	55
7 10	18 2.23	−60 41.8	2.571	3.407	11.2	21.3	139 E	—	55
7 15	17 54.57	−60 17.2	2.582	3.399	11.7	21.3	137 E	—	56
7 20	17 47.70	−59 46.5	2.599	3.390	12.3	21.4	135 E	—	56
7 25	17 41.75	−59 10.3	2.620	3.381	13.0	21.4	132 E	—	57
7 30	17 36.82	−58 29.9	2.647	3.372	13.7	21.4	128 E	—	58
8 4	17 32.94	−57 46.2	2.678	3.362	14.3	21.5	125 E	—	58

422719 2001 AU_1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
5 31	19 8.95	−23 53.8	1.610	2.502	13.8	21.2	144 W	21	88
6 10	19 1.81	−23 37.8	1.507	2.466	10.0	20.9	155 W	21	88
6 20	18 51.83	−23 19.8	1.428	2.429	5.4	20.5	167 W	22	87
6 30	18 39.86	−22 57.9	1.374	2.391	0.3	20.1	179 W	22	87

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
422719 2001 AU_1 *(continuation)*									
7 5	18 33.52	−22 45.1	1.357	2.371	2.3	20.2	175 E	22	87
7 10	18 27.19	−22 31.2	1.347	2.352	5.0	20.3	168 E	22	87
7 15	18 21.05	−22 16.3	1.343	2.332	7.7	20.4	162 E	23	86
7 20	18 15.31	−22 0.7	1.346	2.312	10.3	20.5	156 E	23	86
7 25	18 10.11	−21 44.7	1.355	2.292	12.8	20.6	150 E	23	86
7 30	18 5.62	−21 28.8	1.369	2.271	15.1	20.7	144 E	24	85
8 4	18 1.92	−21 13.2	1.387	2.251	17.3	20.8	139 E	24	85
8 9	17 59.10	−20 58.3	1.411	2.230	19.4	20.9	133 E	24	85
8 14	17 57.18	−20 44.2	1.437	2.209	21.2	20.9	128 E	24	85
8 19	17 56.20	−20 31.1	1.467	2.188	22.9	21.0	123 E	24	85
8 24	17 56.16	−20 19.1	1.500	2.167	24.3	21.1	118 E	25	84
8 29	17 57.04	−20 8.0	1.534	2.146	25.6	21.2	113 E	25	84
9 3	17 58.79	−19 57.8	1.570	2.124	26.7	21.2	109 E	25	84
9 8	18 1.40	−19 48.2	1.607	2.103	27.6	21.3	105 E	25*	84
9 13	18 4.80	−19 39.1	1.644	2.081	28.4	21.3	101 E	25*	84
9 18	18 8.96	−19 30.1	1.682	2.060	29.0	21.4	97 E	25*	84
9 23	18 13.85	−19 21.0	1.720	2.038	29.5	21.4	93 E	25*	83*
9 28	18 19.42	−19 11.5	1.757	2.016	29.8	21.4	90 E	26*	80*
10 3	18 25.61	−19 1.3	1.794	1.994	30.0	21.5	86 E	26*	77*
10 8	18 32.39	−18 50.1	1.830	1.972	30.2	21.5	83 E	26*	74*
163412 2002 RV_{25}									
5 31	19 9.11	−71 12.2	1.845	2.573	18.6	21.6	126 W	—	45
6 2	19 5.09	−71 42.3	1.833	2.568	18.5	21.6	126 W	—	44
6 4	19 0.55	−72 11.2	1.821	2.562	18.5	21.6	127 W	—	44
6 6	18 55.49	−72 38.7	1.811	2.557	18.4	21.6	127 W	—	43
6 8	18 49.90	−73 4.7	1.800	2.551	18.3	21.6	128 W	—	43
6 10	18 43.77	−73 28.9	1.791	2.546	18.3	21.5	128 W	—	43
6 12	18 37.11	−73 51.2	1.783	2.540	18.3	21.5	128 W	—	42
6 14	18 29.94	−74 11.4	1.775	2.534	18.3	21.5	128 W	—	42
6 16	18 22.30	−74 29.2	1.767	2.528	18.3	21.5	129 W	—	42
6 18	18 14.24	−74 44.5	1.761	2.523	18.4	21.5	129 W	—	41
6 20	18 5.81	−74 57.1	1.755	2.517	18.4	21.5	128 W	—	41
6 22	17 57.09	−75 7.0	1.750	2.511	18.5	21.5	128 E	—	41
6 24	17 48.18	−75 14.0	1.746	2.504	18.6	21.5	128 E	—	41
6 26	17 39.18	−75 18.1	1.743	2.498	18.8	21.5	128 E	—	41
6 28	17 30.18	−75 19.2	1.740	2.492	18.9	21.4	127 E	—	41
6 30	17 21.30	−75 17.5	1.738	2.486	19.1	21.4	127 E	—	41
7 1	17 16.93	−75 15.5	1.737	2.482	19.2	21.4	127 E	—	41
7 2	17 12.63	−75 12.9	1.736	2.479	19.3	21.4	126 E	—	41
7 3	17 8.40	−75 9.6	1.736	2.476	19.4	21.4	126 E	—	41
7 4	17 4.25	−75 5.7	1.735	2.473	19.5	21.4	126 E	—	41
7 5	17 0.20	−75 1.1	1.735	2.469	19.6	21.4	126 E	—	41
7 6	16 56.25	−74 55.9	1.735	2.466	19.7	21.4	125 E	—	41
7 7	16 52.41	−74 50.1	1.735	2.463	19.8	21.4	125 E	—	41
7 8	16 48.70	−74 43.7	1.736	2.459	19.9	21.4	125 E	—	41
7 9	16 45.10	−74 36.8	1.736	2.456	20.0	21.4	124 E	—	41
7 10	16 41.63	−74 29.4	1.737	2.453	20.1	21.5	124 E	—	42
7 12	16 35.10	−74 13.0	1.738	2.446	20.4	21.5	123 E	—	42
7 14	16 29.13	−73 54.8	1.741	2.439	20.6	21.5	122 E	—	42
7 16	16 23.73	−73 35.1	1.743	2.432	20.9	21.5	121 E	—	42
7 18	16 18.90	−73 13.9	1.747	2.425	21.2	21.5	120 E	—	43
7 20	16 14.64	−72 51.5	1.751	2.418	21.5	21.5	119 E	—	43
7 22	16 10.94	−72 28.1	1.755	2.411	21.7	21.5	118 E	—	44
7 24	16 7.78	−72 3.9	1.760	2.404	22.0	21.5	117 E	—	44
501665 2014 SD_{343}									
5 31	19 10.24	−22 42.6	1.015	1.927	18.2	21.4	144 W	22	87
6 10	19 6.83	−22 44.7	0.932	1.898	13.6	21.0	154 W	22	87
6 20	18 59.80	−22 50.9	0.868	1.869	8.0	20.6	165 W	22	87
6 30	18 49.96	−22 58.6	0.825	1.841	1.7	20.1	177 W	22	87
7 5	18 44.48	−23 2.0	0.811	1.827	1.6	20.1	177 E	22	87
7 10	18 38.93	−23 4.7	0.802	1.813	5.0	20.2	171 E	22	87
7 15	18 33.57	−23 6.5	0.799	1.800	8.4	20.4	165 E	22	87
7 20	18 28.66	−23 7.3	0.800	1.787	11.7	20.5	159 E	22	87
7 25	18 24.44	−23 7.2	0.807	1.774	14.9	20.6	153 E	22	87
7 30	18 21.12	−23 6.4	0.817	1.762	17.9	20.7	148 E	22	87
8 4	18 18.83	−23 5.1	0.832	1.750	20.7	20.8	143 E	22	87
8 9	18 17.65	−23 3.3	0.850	1.738	23.2	20.9	137 E	22	87
8 14	18 17.63	−23 1.3	0.871	1.726	25.6	21.1	133 E	22	87
8 19	18 18.79	−22 58.9	0.895	1.715	27.7	21.2	128 E	22	87
8 24	18 21.11	−22 56.1	0.921	1.705	29.5	21.3	124 E	22	87
8 29	18 24.54	−22 52.8	0.949	1.695	31.1	21.4	120 E	22	87
9 3	18 29.04	−22 48.6	0.978	1.685	32.5	21.5	116 E	22	87
491007 2011 GL_{62}									
5 31	19 10.48	+ 7 20.9	0.974	1.812	24.8	21.9	131 W	52	57
6 5	19 3.27	+ 8 42.6	0.922	1.791	23.5	21.7	135 W	54	55
6 10	18 54.42	+10 1.5	0.874	1.769	22.2	21.5	139 W	55	54
6 15	18 43.88	+11 15.1	0.832	1.745	21.3	21.3	141 W	56	53

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
491007 2011 GL_{62} *(continuation)*									
6 20	18 31.73	+12 20.4	0.795	1.720	20.8	21.2	143 W	57	52
6 25	18 18.15	+13 14.2	0.765	1.693	21.0	21.1	143 W	58	51
6 30	18 3.46	+13 53.3	0.740	1.664	22.1	21.0	142 E	59	50
7 5	17 48.09	+14 15.5	0.722	1.633	24.0	21.0	139 E	59	50
7 10	17 32.52	+14 19.3	0.710	1.601	26.5	21.0	135 E	59	50
7 15	17 17.28	+14 4.6	0.703	1.567	29.6	21.0	130 E	59	50
7 20	17 2.83	+13 32.5	0.702	1.531	32.9	21.0	125 E	59	50
7 25	16 49.59	+12 45.0	0.704	1.493	36.4	21.1	119 E	58	51
7 30	16 37.79	+11 45.0	0.709	1.452	39.8	21.1	114 E	57	52
8 4	16 27.55	+10 35.3	0.717	1.410	43.2	21.2	108 E	55*	53
8 9	16 18.87	+ 9 18.5	0.725	1.366	46.5	21.2	102 E	53*	55
8 14	16 11.69	+ 7 56.5	0.733	1.319	49.7	21.3	97 E	51*	56
8 19	16 5.88	+ 6 30.9	0.741	1.270	52.8	21.3	91 E	48*	57
8 24	16 1.28	+ 5 2.9	0.746	1.218	56.0	21.3	86 E	45*	59*
8 29	15 57.69	+ 3 33.2	0.749	1.163	59.1	21.3	81 E	42*	59*
9 3	15 54.87	+ 2 2.1	0.749	1.106	62.4	21.3	76 E	40*	58*
9 8	15 52.54	+ 0 29.6	0.745	1.046	66.0	21.3	72 E	37*	56*
9 13	15 50.40	− 1 4.9	0.737	0.983	70.0	21.3	67 E	34*	53*
9 18	15 48.03	− 2 42.1	0.724	0.916	74.5	21.2	62 E	31*	50*
9 23	15 44.89	− 4 23.0	0.706	0.847	80.0	21.2	56 E	28*	46*
9 28	15 40.14	− 6 8.9	0.682	0.774	86.8	21.2	50 E	24*	41*
10 3	15 32.60	− 8 1.1	0.655	0.697	95.4	21.2	44 E	20*	35*
10 8	15 20.54	−10 0.1	0.625	0.618	106.9	21.4	36 E	15*	28*
461363 2000 GQ_{148}									
5 31	19 14.75	−40 42.8	5.672	6.492	5.6	21.5	141 W	4	75
6 10	19 10.41	−41 1.4	5.599	6.495	4.5	21.4	150 W	4	75
6 20	19 5.24	−41 15.5	5.551	6.498	3.5	21.3	157 W	4	75
6 30	18 59.53	−41 23.9	5.531	6.502	2.9	21.3	161 W	4	75
7 10	18 53.65	−41 25.8	5.539	6.505	3.0	21.3	160 E	4	75
7 20	18 47.98	−41 20.8	5.576	6.508	3.8	21.4	155 E	4	75
7 30	18 42.86	−41 9.4	5.639	6.511	4.9	21.4	147 E	4	75
288592 2004 JW_{20}									
5 31	19 28.30	− 2 44.8	0.594	1.485	29.8	21.7	133 W	42	67
6 5	19 18.73	− 0 50.1	0.560	1.481	27.0	21.5	138 W	44	65
6 10	19 6.86	+ 1 6.9	0.530	1.475	24.3	21.3	143 W	46	63
6 15	18 52.71	+ 3 3.2	0.505	1.467	21.9	21.1	147 W	48	61
6 20	18 36.49	+ 4 54.3	0.485	1.457	20.5	21.0	150 W	50	59
6 25	18 18.67	+ 6 35.1	0.472	1.445	20.6	20.9	150 W	52	57
6 30	17 59.94	+ 8 0.3	0.465	1.431	22.4	20.9	148 E	53	56
7 5	17 41.12	+ 9 6.4	0.464	1.415	25.6	21.0	143 E	54	55
7 10	17 23.01	+ 9 51.4	0.468	1.398	29.5	21.1	137 E	55	54
7 15	17 6.28	+10 15.8	0.477	1.378	33.8	21.2	131 E	55	54
7 20	16 51.43	+10 21.4	0.490	1.356	38.1	21.3	125 E	55	54
7 25	16 38.71	+10 11.3	0.505	1.332	42.2	21.5	118 E	55	54
333305 2000 VB_{35}									
5 31	19 30.85	−13 38.1	2.317	3.134	12.8	21.4	137 W	31	78
6 10	19 25.59	−13 18.7	2.205	3.108	10.2	21.1	147 W	32	77
6 20	19 18.30	−13 5.9	2.116	3.080	7.2	20.9	158 W	32	77
6 30	19 9.44	−13 0.1	2.052	3.052	4.2	20.7	167 W	32	77
7 10	18 59.74	−13 1.1	2.017	3.023	3.4	20.6	170 E	32	77
7 20	18 50.06	−13 8.4	2.010	2.993	6.0	20.7	162 E	32	77
7 30	18 41.29	−13 20.9	2.030	2.963	9.4	20.8	152 E	32	77
8 9	18 34.24	−13 37.4	2.074	2.931	12.6	21.0	141 E	31	78
8 19	18 29.41	−13 56.7	2.139	2.899	15.4	21.1	130 E	31	78
8 29	18 27.12	−14 17.5	2.219	2.866	17.7	21.2	120 E	31	78
9 8	18 27.45	−14 38.2	2.311	2.832	19.4	21.4	111 E	30	79
9 18	18 30.29	−14 57.6	2.410	2.798	20.6	21.5	102 E	30	79
497168 2004 SG_5									
5 31	19 36.85	−32 33.3	1.377	2.236	17.7	21.5	138 W	12	83
6 10	19 33.16	−33 48.4	1.271	2.197	14.3	21.1	148 W	11	82
6 20	19 25.51	−35 7.7	1.184	2.157	10.5	20.8	157 W	10	81
6 30	19 14.22	−36 21.9	1.119	2.116	7.4	20.5	164 W	9	80
7 10	19 0.46	−37 20.4	1.077	2.075	7.6	20.4	164 E	8	79
7 15	18 53.21	−37 40.9	1.066	2.054	9.2	20.4	161 E	7	78
7 20	18 46.09	−37 54.7	1.060	2.033	11.4	20.5	157 E	7	78
7 25	18 39.39	−38 1.5	1.059	2.012	13.8	20.5	152 E	7	78
7 30	18 33.38	−38 1.7	1.063	1.991	16.3	20.6	147 E	7	78
8 4	18 28.29	−37 55.9	1.073	1.970	18.7	20.7	141 E	7	78
8 9	18 24.27	−37 45.1	1.086	1.949	21.0	20.8	136 E	7	78
8 14	18 21.44	−37 30.0	1.102	1.928	23.2	20.8	131 E	7	78
8 19	18 19.86	−37 11.5	1.122	1.907	25.2	20.9	127 E	8	79
8 24	18 19.56	−36 50.5	1.144	1.886	27.0	21.0	122 E	8	79
8 29	18 20.53	−36 27.4	1.169	1.865	28.7	21.1	118 E	9	80
9 3	18 22.71	−36 2.9	1.194	1.844	30.1	21.1	113 E	9	80
9 8	18 26.05	−35 36.9	1.221	1.823	31.4	21.2	109 E	9	80
9 13	18 30.47	−35 9.7	1.249	1.803	32.5	21.2	106 E	10	81
9 18	18 35.91	−34 41.2	1.278	1.782	33.5	21.3	102 E	10	81

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
497168 2004 SG_5 *(continuation)*									
9 23	18 42.29	−34 11.3	1.306	1.762	34.3	21.3	99 E	11	82
9 28	18 49.55	−33 39.6	1.335	1.742	34.9	21.4	95 E	11	82
10 3	18 57.60	−33 6.0	1.364	1.722	35.5	21.4	92 E	12	82*
10 8	19 6.36	−32 30.1	1.392	1.703	35.9	21.4	89 E	12	81*
10 13	19 15.78	−31 51.6	1.420	1.684	36.3	21.5	86 E	13*	80*
10 18	19 25.79	−31 10.1	1.447	1.665	36.5	21.5	84 E	14*	77*
162195 1999 RK_{45}									
5 31	19 42.38	−16 4.2	0.992	1.853	22.8	21.6	135 W	29	80
6 5	19 31.80	−16 33.2	0.990	1.896	19.1	21.5	142 W	28	81
6 10	19 20.31	−17 3.5	0.993	1.939	15.3	21.5	150 W	28	81
6 15	19 8.20	−17 33.8	1.003	1.980	11.4	21.4	157 W	27	82
6 20	18 55.81	−18 3.1	1.021	2.019	7.6	21.3	165 W	27	82
6 25	18 43.52	−18 30.5	1.047	2.058	4.0	21.2	172 W	26	83
6 30	18 31.69	−18 55.3	1.080	2.095	2.1	21.2	176 E	26	83
7 5	18 20.64	−19 17.4	1.122	2.132	4.4	21.5	171 E	26	83
7 10	18 10.60	−19 36.7	1.171	2.167	7.4	21.8	164 E	25	84
7 15	18 1.71	−19 53.7	1.227	2.200	10.2	22.0	157 E	25	84
7 20	17 54.08	−20 8.8	1.290	2.233	12.8	22.3	151 E	25	84
7 25	17 47.72	−20 22.3	1.358	2.265	15.0	22.5	145 E	25	84
303959 2005 YW_{195}									
5 31	19 49.69	−60 56.3	1.896	2.647	17.5	21.4	128 W	—	55
6 5	19 43.58	−61 34.9	1.876	2.658	16.7	21.4	131 W	—	54
6 10	19 36.01	−62 7.8	1.861	2.669	15.9	21.3	134 W	—	54
6 15	19 27.09	−62 33.2	1.851	2.680	15.2	21.3	136 W	—	53
6 20	19 17.08	−62 49.7	1.845	2.690	14.6	21.3	138 W	—	53
6 25	19 6.30	−62 56.0	1.845	2.701	14.1	21.3	140 W	—	53
6 30	18 55.18	−62 51.3	1.850	2.711	13.9	21.3	140 W	—	53
7 5	18 44.16	−62 35.4	1.861	2.720	13.9	21.3	140 E	—	53
7 10	18 33.64	−62 8.8	1.877	2.730	14.0	21.3	139 E	—	54
7 15	18 23.97	−61 32.2	1.898	2.739	14.4	21.4	138 E	—	54
7 20	18 15.43	−60 47.0	1.925	2.748	14.9	21.4	136 E	—	55
7 25	18 8.21	−59 54.7	1.957	2.757	15.5	21.5	134 E	—	56
7 30	18 2.38	−58 56.9	1.993	2.765	16.1	21.6	131 E	—	57
467550 2007 TY_{92}									
5 31	19 56.54	− 8 15.0	1.205	2.005	23.1	21.2	129 W	37	72
6 10	19 57.52	− 7 13.5	1.102	1.974	20.3	20.9	138 W	38	71
6 20	19 55.28	− 6 25.6	1.013	1.943	16.8	20.6	146 W	39	70
6 30	19 49.89	− 5 56.8	0.941	1.912	12.8	20.2	155 W	39	70
7 10	19 41.95	− 5 51.8	0.888	1.882	9.3	19.9	163 W	39	70
7 20	19 32.55	− 6 13.2	0.855	1.853	8.5	19.8	164 E	39	70
7 30	19 23.30	− 6 59.5	0.842	1.825	11.7	19.8	159 E	38	71
8 4	19 19.28	− 7 30.4	0.844	1.812	14.1	19.9	154 E	37	72
8 9	19 15.93	− 8 5.2	0.849	1.799	16.6	20.0	150 E	37	72
8 14	19 13.38	− 8 42.9	0.859	1.786	19.1	20.1	145 E	36	73
8 19	19 11.77	− 9 22.6	0.873	1.773	21.5	20.2	140 E	36	73
8 24	19 11.19	−10 3.0	0.891	1.761	23.7	20.3	136 E	35	74
8 29	19 11.68	−10 43.2	0.911	1.749	25.8	20.4	131 E	34	75
9 3	19 13.26	−11 22.5	0.935	1.738	27.7	20.5	127 E	34	75
9 8	19 15.90	−11 59.9	0.960	1.727	29.4	20.6	123 E	33	76
9 13	19 19.57	−12 34.9	0.988	1.717	30.9	20.7	119 E	32	77
9 18	19 24.22	−13 7.0	1.017	1.707	32.2	20.8	115 E	32	77
9 23	19 29.82	−13 35.6	1.048	1.698	33.3	20.8	112 E	31	78
9 28	19 36.30	−14 0.3	1.081	1.689	34.3	20.9	108 E	31	78
10 3	19 43.57	−14 20.7	1.114	1.681	35.1	21.0	105 E	31	78
10 8	19 51.57	−14 36.7	1.149	1.673	35.7	21.1	102 E	30	79
10 13	20 0.24	−14 47.9	1.184	1.666	36.2	21.2	99 E	30	79
10 18	20 9.52	−14 54.3	1.220	1.660	36.6	21.2	96 E	30	79*
10 23	20 19.34	−14 55.5	1.257	1.654	36.9	21.3	94 E	30	78*
10 28	20 29.65	−14 51.7	1.294	1.649	37.0	21.3	91 E	30	76*
11 2	20 40.36	−14 42.6	1.332	1.645	37.1	21.4	89 E	30	74*
11 7	20 51.44	−14 28.5	1.370	1.642	37.1	21.5	87 E	31	72*
491770 2012 WP_9									
5 31	20 21.58	−23 54.3	1.697	2.450	19.2	21.4	128 W	21*	88
6 10	20 22.35	−24 32.4	1.565	2.409	16.7	21.1	137 W	20	89
6 20	20 20.11	−25 22.9	1.449	2.367	13.5	20.8	147 W	20	89
6 30	20 14.78	−26 23.7	1.354	2.326	9.6	20.4	158 W	19	90
7 5	20 11.02	−26 56.6	1.314	2.305	7.5	20.2	163 W	18	89
7 10	20 6.62	−27 29.9	1.280	2.284	5.4	20.1	168 W	18	89
7 15	20 1.69	−28 2.9	1.252	2.263	3.8	19.9	172 W	17	88
7 20	19 56.38	−28 34.4	1.231	2.242	3.6	19.8	172 E	16	87
7 25	19 50.86	−29 3.5	1.216	2.221	5.1	19.9	169 E	16	87
7 30	19 45.34	−29 29.4	1.207	2.200	7.4	20.0	164 E	16	87
8 4	19 40.04	−29 51.4	1.204	2.179	9.9	20.0	158 E	15	86
8 9	19 35.14	−30 9.2	1.206	2.158	12.4	20.1	153 E	15	86
8 14	19 30.84	−30 22.6	1.214	2.138	14.8	20.2	147 E	15	86
8 19	19 27.28	−30 31.6	1.227	2.117	17.2	20.3	142 E	14	85

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
491770 2012 WP_9 *(continuation)*									
8 24	19 24.60	−30 36.4	1.244	2.097	19.3	20.4	137 E	14	85
8 29	19 22.89	−30 37.3	1.264	2.076	21.4	20.4	132 E	14	85
9 8	19 22.54	−30 28.8	1.315	2.036	24.8	20.6	122 E	15	86
9 18	19 26.26	−30 8.2	1.374	1.997	27.5	20.7	113 E	15	86
9 28	19 33.85	−29 36.8	1.440	1.959	29.6	20.8	105 E	15	86
10 8	19 44.86	−28 54.7	1.508	1.921	31.0	20.9	98 E	16	87
10 18	19 58.82	−28 1.3	1.577	1.886	31.9	21.0	91 E	17	85*
10 28	20 15.25	−26 55.7	1.647	1.852	32.3	21.1	85 E	18	79*
11 7	20 33.71	−25 36.7	1.714	1.820	32.4	21.1	80 E	19	73*
11 17	20 53.78	−24 3.6	1.780	1.790	32.2	21.2	74 E	21	66*
11 27	21 15.13	−22 15.8	1.844	1.763	31.7	21.2	70 E	23*	60*
12 7	21 37.44	−20 13.3	1.905	1.738	30.9	21.2	65 E	25*	54*
12 17	22 0.47	−17 56.7	1.964	1.716	30.1	21.2	61 E	27*	48*
12 27	22 24.03	−15 27.0	2.022	1.698	29.0	21.3	57 E	28*	43*
1 6	22 47.96	−12 45.7	2.078	1.683	27.9	21.3	53 E	29*	38*
1 16	23 12.18	− 9 54.8	2.134	1.672	26.6	21.3	50 E	30*	33*
488788 2004 XF_{42}									
5 31	20 49.96	−24 7.6	1.364	2.079	24.7	21.4	121 W	20*	88
6 10	20 55.82	−24 53.5	1.243	2.045	22.5	21.1	130 W	20*	89
6 20	20 58.69	−25 58.4	1.134	2.011	19.6	20.8	138 W	19	90
6 30	20 58.09	−27 22.3	1.041	1.977	15.9	20.4	148 W	18	89
7 5	20 56.42	−28 10.2	1.000	1.960	13.8	20.3	153 W	17	88
7 10	20 53.83	−29 1.0	0.965	1.943	11.6	20.1	157 W	16	87
7 15	20 50.36	−29 53.3	0.934	1.926	9.5	19.9	162 W	15	86
7 20	20 46.07	−30 45.6	0.909	1.910	7.8	19.8	165 W	14	85
7 25	20 41.13	−31 35.9	0.890	1.893	6.9	19.6	167 W	13	84
7 30	20 35.74	−32 22.6	0.875	1.877	7.5	19.6	166 E	13	84
8 4	20 30.14	−33 3.9	0.866	1.860	9.1	19.6	163 E	12	83
8 9	20 24.59	−33 38.4	0.863	1.844	11.5	19.7	159 E	11	82
8 14	20 19.35	−34 5.1	0.864	1.829	14.1	19.8	154 E	11	82
8 19	20 14.71	−34 23.7	0.870	1.813	16.8	19.9	149 E	11	82
8 24	20 10.90	−34 33.9	0.880	1.798	19.4	20.0	144 E	10	81
8 29	20 8.11	−34 36.1	0.894	1.783	21.9	20.1	139 E	10	81
9 3	20 6.46	−34 30.9	0.911	1.768	24.2	20.2	134 E	10	81
9 8	20 6.02	−34 19.0	0.931	1.753	26.3	20.3	129 E	11	82
9 18	20 8.77	−33 37.3	0.979	1.726	30.0	20.4	121 E	11	82
9 28	20 16.19	−32 35.1	1.033	1.700	32.8	20.6	113 E	12	83
10 8	20 27.65	−31 15.2	1.093	1.676	34.9	20.8	106 E	14	85
10 18	20 42.44	−29 38.6	1.155	1.654	36.4	20.9	100 E	15	86
10 28	20 59.90	−27 45.8	1.220	1.635	37.3	21.0	95 E	17	88*
11 7	21 19.37	−25 37.2	1.286	1.618	37.8	21.1	90 E	19	83*
11 17	21 40.33	−23 13.2	1.353	1.604	37.9	21.2	85 E	22	77*
11 27	22 2.38	−20 34.7	1.421	1.593	37.7	21.3	81 E	24	70*
12 7	22 25.16	−17 43.3	1.490	1.585	37.2	21.4	77 E	27	64*
12 17	22 48.46	−14 40.7	1.561	1.580	36.5	21.4	73 E	30	58*
498761 2008 UH_{33}									
5 31	20 51.56	−10 50.0	0.998	1.717	31.7	21.3	117 W	34*	75
6 10	21 2.10	− 9 36.4	0.907	1.697	29.8	21.0	124 W	35*	74
6 20	21 9.88	− 8 34.7	0.825	1.678	27.1	20.7	131 W	36	73
6 30	21 14.45	− 7 50.8	0.753	1.662	23.6	20.4	139 W	37	72
7 10	21 15.62	− 7 30.4	0.694	1.647	19.1	20.1	148 W	37	72
7 20	21 13.41	− 7 37.9	0.649	1.635	13.7	19.7	158 W	37	72
7 30	21 8.47	− 8 14.3	0.619	1.625	7.9	19.4	167 W	37	72
8 4	21 5.38	− 8 42.0	0.611	1.621	5.5	19.2	171 W	36	73
8 9	21 2.14	− 9 14.7	0.607	1.617	4.7	19.2	173 E	36	73
8 14	20 58.99	− 9 51.1	0.607	1.615	6.2	19.2	170 E	35	74
8 19	20 56.16	−10 29.6	0.612	1.613	8.9	19.4	166 E	35	74
8 24	20 53.88	−11 8.5	0.622	1.611	11.9	19.5	161 E	34	75
8 29	20 52.35	−11 46.1	0.635	1.611	14.9	19.7	156 E	33	76
9 3	20 51.69	−12 21.3	0.653	1.610	17.8	19.8	151 E	33	76
9 8	20 51.99	−12 52.9	0.674	1.611	20.4	20.0	146 E	32	77
9 13	20 53.28	−13 20.0	0.699	1.612	22.9	20.1	141 E	32	77
9 18	20 55.58	−13 42.1	0.726	1.614	25.1	20.3	137 E	31	78
9 28	21 3.09	−14 9.6	0.791	1.620	28.7	20.6	129 E	31	78
10 8	21 14.05	−14 13.9	0.865	1.629	31.5	20.9	122 E	31	78
10 18	21 27.79	−13 55.7	0.947	1.640	33.4	21.2	115 E	31	78
10 28	21 43.75	−13 16.1	1.037	1.653	34.6	21.4	109 E	32	77
391595 2007 UR_2									
5 31	20 52.27	−31 34.1	0.779	1.572	33.2	21.3	122 W	13*	84
6 5	20 57.52	−32 20.9	0.744	1.568	31.8	21.2	126 W	12*	84
6 10	21 1.77	−33 13.7	0.710	1.565	30.2	21.0	129 W	12*	83
6 15	21 4.87	−34 12.5	0.679	1.561	28.4	20.9	133 W	11	82
6 20	21 6.69	−35 16.9	0.651	1.557	26.4	20.7	137 W	10	81
6 25	21 7.11	−36 26.0	0.625	1.553	24.3	20.6	141 W	9	80
6 30	21 6.04	−37 38.2	0.602	1.549	22.1	20.4	145 W	7	78

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
391595 2007 UR_2 *(continuation)*									
7 5	21 3.42	−38 51.3	0.583	1.545	20.0	20.3	149 W	6	77
7 10	20 59.25	−40 2.7	0.567	1.541	18.0	20.1	152 W	5	76
7 15	20 53.61	−41 9.2	0.555	1.537	16.4	20.0	155 W	4	75
7 20	20 46.67	−42 7.1	0.547	1.532	15.5	20.0	156 W	3	74
7 25	20 38.80	−42 53.2	0.542	1.528	15.5	19.9	156 W	2	73
7 30	20 30.46	−43 24.9	0.542	1.524	16.3	20.0	155 E	2	73
8 4	20 22.17	−43 40.8	0.546	1.520	17.9	20.0	153 E	1	72
8 9	20 14.41	−43 40.6	0.553	1.515	20.0	20.1	149 E	1	72
8 14	20 7.64	−43 25.2	0.563	1.511	22.3	20.2	145 E	2	73
8 19	20 2.21	−42 56.0	0.577	1.507	24.8	20.3	141 E	2	73
8 24	19 58.36	−42 15.2	0.594	1.503	27.1	20.5	137 E	3	74
8 29	19 56.19	−41 25.0	0.613	1.499	29.4	20.6	133 E	4	75
9 3	19 55.70	−40 27.4	0.635	1.494	31.4	20.7	129 E	5	76
9 8	19 56.78	−39 24.1	0.658	1.490	33.3	20.9	126 E	6	77
9 13	19 59.31	−38 16.3	0.684	1.486	35.0	21.0	122 E	7	78
9 18	20 3.17	−37 5.0	0.710	1.483	36.5	21.1	119 E	8	79
9 23	20 8.22	−35 50.8	0.738	1.479	37.8	21.2	115 E	9	80
9 28	20 14.32	−34 34.2	0.768	1.475	39.0	21.3	112 E	10	81
10 3	20 21.30	−33 15.4	0.798	1.471	39.9	21.4	109 E	12	83
275742 2001 HL_{18}									
5 31	20 56.81	−41 53.5	2.394	3.054	16.4	21.4	122 W	3*	74
6 5	20 56.41	−42 42.6	2.348	3.059	15.5	21.3	126 W	2*	73
6 10	20 55.22	−43 33.4	2.306	3.063	14.6	21.3	130 W	1*	72
6 15	20 53.21	−44 25.1	2.268	3.067	13.7	21.2	134 W	1	72
6 20	20 50.37	−45 16.8	2.236	3.071	12.7	21.1	138 W	—	71
6 25	20 46.70	−46 7.5	2.208	3.075	11.7	21.1	142 W	—	70
6 30	20 42.24	−46 56.1	2.186	3.078	10.8	21.0	145 W	—	69
7 5	20 37.05	−47 41.4	2.171	3.081	10.0	21.0	148 W	—	68
7 10	20 31.24	−48 22.3	2.161	3.084	9.5	20.9	150 W	—	68
7 15	20 24.91	−48 57.9	2.158	3.087	9.2	20.9	151 W	—	67
7 20	20 18.22	−49 27.2	2.161	3.089	9.2	20.9	151 W	—	67
7 25	20 11.36	−49 49.6	2.171	3.091	9.5	21.0	150 E	—	66
7 30	20 4.53	−50 4.7	2.187	3.093	10.1	21.0	148 E	—	66
8 4	19 57.93	−50 12.6	2.209	3.095	10.8	21.1	145 E	—	66
8 9	19 51.72	−50 13.5	2.237	3.097	11.7	21.1	142 E	—	66
8 14	19 46.06	−50 7.8	2.270	3.098	12.7	21.2	138 E	—	66
8 19	19 41.08	−49 56.2	2.309	3.099	13.6	21.3	134 E	—	66
8 24	19 36.89	−49 39.4	2.352	3.100	14.5	21.3	130 E	—	66
8 29	19 33.54	−49 18.2	2.400	3.100	15.3	21.4	126 E	—	67
9 3	19 31.07	−48 53.4	2.451	3.100	16.1	21.5	122 E	—	67
344112 1999 VD_4									
5 31	21 2.67	−23 43.8	2.100	2.730	19.1	21.5	118 W	20*	88
6 10	21 4.71	−24 10.0	1.951	2.692	17.4	21.2	127 W	21*	88
6 20	21 4.16	−24 48.1	1.817	2.652	15.1	21.0	137 W	20	89
6 30	21 0.78	−25 37.2	1.699	2.613	12.2	20.7	147 W	19	90
7 10	20 54.59	−26 34.2	1.603	2.572	8.7	20.4	158 W	18	89
7 15	20 50.51	−27 3.9	1.564	2.552	6.8	20.2	163 W	18	89
7 20	20 45.87	−27 33.5	1.530	2.531	5.1	20.1	167 W	17	88
7 25	20 40.77	−28 1.9	1.504	2.511	4.0	19.9	170 W	17	88
7 30	20 35.36	−28 28.2	1.484	2.490	4.0	19.9	170 E	17	88
8 4	20 29.81	−28 51.5	1.470	2.469	5.4	19.9	167 E	16	87
8 9	20 24.27	−29 11.2	1.463	2.448	7.3	20.0	162 E	16	87
8 14	20 18.92	−29 26.8	1.463	2.427	9.4	20.1	157 E	16	87
8 19	20 13.95	−29 37.9	1.468	2.406	11.6	20.2	151 E	15	86
8 24	20 9.50	−29 44.4	1.479	2.385	13.7	20.2	146 E	15	86
8 29	20 5.73	−29 46.5	1.495	2.363	15.8	20.3	141 E	15	86
9 3	20 2.73	−29 44.3	1.515	2.342	17.7	20.4	135 E	15	86
9 8	20 0.57	−29 38.3	1.540	2.320	19.4	20.4	130 E	15	86
9 18	19 58.92	−29 15.8	1.599	2.278	22.4	20.6	120 E	16	87
9 28	20 0.89	−28 41.4	1.667	2.235	24.7	20.7	111 E	16	87
10 8	20 6.26	−27 56.8	1.742	2.192	26.4	20.8	103 E	17	88
10 18	20 14.69	−27 2.9	1.819	2.149	27.5	20.9	95 E	18	89*
10 28	20 25.79	−25 59.6	1.897	2.107	28.1	21.0	88 E	19	81*
11 7	20 39.17	−24 46.5	1.972	2.065	28.3	21.0	81 E	20	74*
11 17	20 54.45	−23 23.1	2.045	2.024	28.1	21.0	75 E	22	67*
11 27	21 11.32	−21 48.8	2.112	1.984	27.6	21.0	69 E	23*	59*
12 7	21 29.50	−20 3.1	2.175	1.945	26.9	21.0	63 E	25*	52*
12 17	21 48.77	−18 6.0	2.233	1.907	26.0	21.0	58 E	26*	46*
12 27	22 8.93	−15 57.3	2.284	1.870	24.9	21.0	53 E	27*	40*
1 6	22 29.83	−13 37.8	2.330	1.836	23.7	21.0	49 E	27*	34*
1 16	22 51.38	−11 7.9	2.372	1.803	22.4	20.9	44 E	27*	29*
503984 2004 TT_{99}									
5 31	21 8.71	−13 5.5	0.981	1.673	33.6	21.3	114 W	31*	77
6 10	21 22.70	−11 53.9	0.892	1.652	32.2	21.0	120 W	33*	76
6 20	21 34.33	−10 52.1	0.811	1.634	30.0	20.7	126 W	34*	75
6 30	21 43.12	−10 5.6	0.739	1.618	27.0	20.4	134 W	35	74
7 10	21 48.71	− 9 39.4	0.678	1.604	23.1	20.1	142 W	35	74

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
503984 2004 TT_{99} *(continuation)*									
7 20	21 50.79	− 9 37.4	0.628	1.594	18.2	19.7	151 W	35	74
7 30	21 49.48	−10 1.0	0.593	1.587	12.2	19.4	161 W	35	74
8 4	21 47.78	−10 21.4	0.581	1.585	9.0	19.2	166 W	35	74
8 9	21 45.57	−10 46.4	0.574	1.583	5.6	19.0	171 W	34	75
8 14	21 43.03	−11 14.7	0.570	1.582	2.4	18.8	176 W	34	75
8 19	21 40.38	−11 44.8	0.571	1.582	2.2	18.8	177 E	33	76
8 24	21 37.87	−12 15.2	0.576	1.583	5.4	19.0	172 E	33	76
8 29	21 35.75	−12 44.1	0.586	1.585	8.8	19.2	166 E	32	77
9 3	21 34.21	−13 10.1	0.600	1.587	12.0	19.4	161 E	32	77
9 8	21 33.39	−13 32.3	0.617	1.591	15.1	19.6	156 E	31	78
9 13	21 33.39	−13 49.6	0.639	1.595	17.9	19.8	151 E	31	78
9 18	21 34.29	−14 1.7	0.664	1.600	20.5	19.9	146 E	31	78
9 28	21 38.90	−14 8.4	0.725	1.612	24.9	20.3	137 E	31	78
10 8	21 46.97	−13 52.0	0.797	1.627	28.3	20.6	129 E	31	78
10 18	21 57.99	−13 14.1	0.880	1.644	30.8	20.9	122 E	32	77
10 28	22 11.42	−12 16.6	0.972	1.664	32.6	21.2	116 E	33	76
11 7	22 26.66	−11 2.2	1.072	1.686	33.6	21.5	110 E	34	75
264932 2002 VV_{34}									
5 31	21 13.85	−39 22.4	2.683	3.290	15.7	21.5	119 W	5*	77
6 10	21 13.52	−40 56.3	2.578	3.292	14.2	21.4	127 W	4*	75
6 20	21 10.38	−42 37.1	2.490	3.293	12.5	21.2	136 W	2	73
6 30	21 4.30	−44 19.0	2.422	3.293	10.7	21.1	143 W	1	72
7 10	20 55.47	−45 54.4	2.378	3.292	9.1	21.0	149 W	—	70
7 20	20 44.37	−47 15.3	2.360	3.291	8.4	20.9	152 W	—	69
7 30	20 31.97	−48 14.6	2.368	3.288	8.8	21.0	150 E	—	68
8 9	20 19.52	−48 48.0	2.401	3.284	10.2	21.0	145 E	—	67
8 19	20 8.29	−48 55.5	2.459	3.280	12.0	21.2	138 E	—	67
8 29	19 59.35	−48 39.7	2.537	3.274	13.8	21.3	130 E	—	67
9 8	19 53.36	−48 5.8	2.632	3.268	15.3	21.4	121 E	—	68
317096 2001 TD_{36}									
5 31	21 13.99	−26 48.2	1.493	2.146	25.0	21.3	116 W	17*	89
6 10	21 20.29	−27 4.0	1.367	2.115	23.3	21.0	124 W	18*	89
6 20	21 23.59	−27 32.6	1.252	2.083	20.9	20.7	133 W	17	88
6 30	21 23.40	−28 13.5	1.150	2.050	17.7	20.4	142 W	17	88
7 10	21 19.42	−29 3.0	1.064	2.018	13.8	20.0	152 W	16	87
7 15	21 15.99	−29 29.0	1.028	2.002	11.7	19.9	157 W	16	87
7 20	21 11.65	−29 54.2	0.997	1.986	9.6	19.7	161 W	15	86
7 25	21 6.51	−30 17.2	0.972	1.970	7.8	19.6	165 W	15	86
7 30	21 0.76	−30 36.6	0.952	1.954	6.8	19.5	167 W	14	85
8 4	20 54.60	−30 50.9	0.937	1.938	7.1	19.4	166 E	14	85
8 9	20 48.28	−30 59.2	0.928	1.922	8.6	19.4	164 E	14	85
8 14	20 42.05	−31 0.5	0.925	1.906	10.8	19.5	159 E	14	85
8 19	20 36.21	−30 54.6	0.926	1.891	13.3	19.6	155 E	14	85
8 24	20 31.00	−30 41.5	0.933	1.875	15.9	19.7	149 E	14	85
8 29	20 26.66	−30 21.6	0.944	1.860	18.5	19.8	144 E	15	86
9 3	20 23.32	−29 55.5	0.959	1.845	20.9	19.9	139 E	15	86
9 8	20 21.08	−29 24.1	0.978	1.830	23.2	20.0	134 E	16	87
9 13	20 19.99	−28 48.1	1.000	1.815	25.3	20.1	130 E	16	87
9 18	20 20.07	−28 8.1	1.025	1.801	27.2	20.1	125 E	17	88
9 28	20 23.63	−26 38.3	1.081	1.773	30.3	20.3	117 E	18	89
10 8	20 31.27	−24 57.9	1.144	1.746	32.8	20.5	109 E	20	89
10 18	20 42.38	−23 8.0	1.211	1.721	34.5	20.6	102 E	22	87
10 28	20 56.37	−21 8.8	1.280	1.698	35.6	20.7	96 E	24	85*
11 7	21 12.65	−18 59.9	1.351	1.677	36.2	20.9	90 E	26	79*
11 17	21 30.75	−16 41.1	1.422	1.658	36.4	20.9	85 E	28	72*
11 27	21 50.30	−14 12.3	1.494	1.641	36.3	21.0	80 E	31	65*
12 7	22 10.96	−11 34.0	1.565	1.627	35.9	21.1	76 E	33	58*
12 17	22 32.52	− 8 46.9	1.635	1.616	35.2	21.2	71 E	36*	51*
12 27	22 54.81	− 5 52.4	1.706	1.607	34.4	21.2	67 E	39*	45*
1 6	23 17.70	− 2 52.0	1.776	1.602	33.3	21.3	64 E	41*	40*
1 16	23 41.15	+ 0 12.1	1.846	1.599	32.2	21.3	60 E	42*	35*
514105 2015 BT_{92}									
5 31	21 16.92	−10 12.7	0.882	1.566	37.1	21.3	111 W	33*	74
6 10	21 26.79	− 7 23.9	0.810	1.564	35.2	21.1	117 W	37*	71
6 20	21 33.06	− 4 35.2	0.745	1.562	32.5	20.8	124 W	40*	69
6 30	21 35.20	− 1 52.8	0.687	1.561	29.1	20.5	132 W	43	66
7 10	21 32.94	+ 0 35.2	0.639	1.561	24.8	20.2	140 W	46	63
7 15	21 30.14	+ 1 40.6	0.619	1.561	22.5	20.1	144 W	47	62
7 20	21 26.29	+ 2 38.3	0.603	1.561	20.0	20.0	148 W	48	61
7 25	21 21.54	+ 3 26.9	0.590	1.562	17.7	19.8	152 W	48	61
7 30	21 16.09	+ 4 5.1	0.582	1.563	15.6	19.7	155 W	49	60
8 4	21 10.18	+ 4 32.2	0.577	1.564	14.1	19.7	158 W	50	59
8 9	21 4.10	+ 4 47.9	0.576	1.566	13.3	19.7	159 E	50	59
8 14	20 58.14	+ 4 52.4	0.580	1.567	13.6	19.7	159 E	50	59
8 19	20 52.60	+ 4 46.4	0.587	1.569	14.7	19.7	157 E	50	59

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
514105 2015 BT_{92} *(continuation)*									
8 24	20 47.78	+ 4 31.3	0.599	1.571	16.5	19.9	154 E	50	59
8 29	20 43.88	+ 4 9.0	0.615	1.573	18.6	20.0	150 E	49	60
9 3	20 41.07	+ 3 41.4	0.634	1.576	20.8	20.1	146 E	49	60
9 8	20 39.40	+ 3 10.4	0.656	1.578	23.1	20.3	142 E	48	61
9 13	20 38.93	+ 2 37.7	0.682	1.581	25.2	20.4	138 E	48	61
9 18	20 39.65	+ 2 4.7	0.711	1.584	27.1	20.6	134 E	47	62
9 23	20 41.53	+ 1 32.9	0.742	1.587	28.9	20.7	130 E	47	62
9 28	20 44.49	+ 1 3.3	0.775	1.590	30.4	20.9	127 E	46	63
10 3	20 48.46	+ 0 36.9	0.810	1.594	31.8	21.0	123 E	46	63
10 8	20 53.33	+ 0 14.2	0.848	1.597	33.0	21.1	119 E	45	64
10 13	20 59.03	− 0 4.5	0.887	1.601	34.0	21.3	116 E	45	64
10 18	21 5.47	− 0 18.8	0.927	1.605	34.9	21.4	113 E	45	64
427584 2003 RK_{11}									
5 31	21 37.99	−21 1.2	1.340	1.934	29.6	21.3	110 W	21*	85
6 10	21 48.47	−19 45.5	1.218	1.902	28.5	21.0	116 W	24*	84
6 20	21 56.42	−18 30.8	1.104	1.871	26.8	20.7	124 W	26*	83
6 30	22 1.34	−17 18.3	1.001	1.842	24.3	20.4	132 W	28	81
7 10	22 2.80	−16 8.1	0.908	1.813	20.8	20.0	141 W	29	80
7 20	22 0.43	−15 0.1	0.830	1.786	16.3	19.6	150 W	30	79
7 30	21 54.23	−13 53.2	0.769	1.760	10.8	19.2	161 W	31	78
8 9	21 44.92	−12 45.9	0.726	1.737	4.4	18.8	172 W	32	77
8 14	21 39.50	−12 11.7	0.713	1.725	1.4	18.5	178 W	33	76
8 19	21 33.89	−11 37.2	0.704	1.715	2.9	18.6	175 E	33	76
8 24	21 28.37	−11 2.3	0.701	1.705	6.4	18.8	169 E	34	75
8 29	21 23.23	−10 27.0	0.703	1.695	9.8	18.9	163 E	35	74
9 8	21 15.00	− 9 16.0	0.720	1.678	16.3	19.2	152 E	36	73
9 18	21 10.61	− 8 4.9	0.754	1.663	22.0	19.5	142 E	37	72
9 28	21 10.75	− 6 53.4	0.801	1.651	26.7	19.7	132 E	38	71
10 8	21 15.34	− 5 39.7	0.859	1.642	30.3	20.0	124 E	39	70
10 18	21 23.91	− 4 22.4	0.925	1.636	33.0	20.2	117 E	41	68
10 28	21 35.88	− 2 59.3	0.998	1.633	34.8	20.4	110 E	42	67
11 7	21 50.62	− 1 29.0	1.076	1.633	36.0	20.6	104 E	44	65
11 17	22 7.57	+ 0 8.8	1.159	1.637	36.6	20.8	99 E	45	63*
11 27	22 26.28	+ 1 54.5	1.246	1.643	36.8	20.9	94 E	47	59*
12 7	22 46.34	+ 3 47.2	1.336	1.652	36.6	21.1	89 E	49	54*
12 17	23 7.48	+ 5 46.0	1.429	1.664	36.1	21.3	85 E	51	48*
12 27	23 29.46	+ 7 49.3	1.526	1.679	35.3	21.4	81 E	53	43*
334038 2001 CK_{20}									
5 31	21 40.28	−26 8.4	2.292	2.813	19.7	21.4	111 W	16*	90
6 10	21 43.60	−26 16.3	2.136	2.777	18.6	21.2	119 W	18*	90
6 20	21 44.44	−26 34.5	1.990	2.740	16.9	21.0	128 W	18*	89
6 30	21 42.51	−27 2.0	1.859	2.701	14.6	20.7	138 W	18	89
7 10	21 37.63	−27 36.4	1.746	2.663	11.7	20.5	148 W	17	88
7 20	21 29.83	−28 12.9	1.654	2.623	8.4	20.2	158 W	17	88
7 25	21 24.94	−28 30.1	1.617	2.603	6.8	20.0	162 W	17	88
7 30	21 19.52	−28 45.2	1.586	2.583	5.5	19.9	166 W	16	87
8 4	21 13.69	−28 57.4	1.562	2.563	4.8	19.8	168 W	16	87
8 9	21 7.62	−29 5.9	1.545	2.542	5.3	19.8	167 E	16	87
8 14	21 1.45	−29 10.2	1.535	2.522	6.6	19.8	163 E	16	87
8 19	20 55.39	−29 9.6	1.531	2.501	8.4	19.9	159 E	16	87
8 24	20 49.61	−29 4.0	1.533	2.480	10.4	20.0	154 E	16	87
8 29	20 44.28	−28 53.4	1.541	2.459	12.4	20.0	148 E	16	87
9 3	20 39.56	−28 38.0	1.555	2.438	14.4	20.1	143 E	16	87
9 8	20 35.55	−28 18.2	1.574	2.417	16.3	20.2	138 E	17	88
9 18	20 29.97	−27 27.2	1.626	2.374	19.7	20.3	127 E	18	89
9 28	20 27.93	−26 24.0	1.690	2.331	22.4	20.5	118 E	19	90
10 8	20 29.36	−25 11.5	1.764	2.287	24.5	20.6	109 E	20	89
10 18	20 33.99	−23 51.5	1.844	2.243	25.9	20.7	100 E	21	88
10 28	20 41.48	−22 24.6	1.926	2.200	26.8	20.7	92 E	23	84*
11 7	20 51.40	−20 51.0	2.007	2.156	27.2	20.8	85 E	24	76*
11 17	21 3.40	−19 10.2	2.085	2.113	27.2	20.8	78 E	26	67*
11 27	21 17.15	−17 21.5	2.160	2.069	26.9	20.9	71 E	28*	59*
12 7	21 32.38	−15 24.4	2.228	2.027	26.2	20.9	65 E	29*	51*
12 17	21 48.85	−13 18.3	2.290	1.985	25.3	20.9	60 E	31*	44*
12 27	22 6.40	−11 3.2	2.346	1.943	24.3	20.8	54 E	31*	37*
1 6	22 24.87	− 8 38.9	2.394	1.903	23.0	20.8	49 E	31*	31*
1 16	22 44.19	− 6 5.8	2.435	1.864	21.7	20.7	44 E	31*	25*
508779 1999 VB_{138}									
5 31	21 44.70	−28 25.7	1.418	2.008	28.3	21.3	110 W	14*	88
6 10	21 57.80	−28 50.4	1.288	1.966	27.5	21.0	117 W	15*	87
6 20	22 9.03	−29 30.3	1.167	1.924	26.1	20.7	124 W	15*	86
6 30	22 17.88	−30 27.2	1.056	1.883	24.2	20.4	131 W	15*	86
7 5	22 21.24	−31 2.1	1.006	1.863	23.1	20.3	134 W	14	85
7 10	22 23.80	−31 40.9	0.958	1.843	21.8	20.1	138 W	13	84
7 15	22 25.47	−32 23.2	0.914	1.823	20.4	19.9	141 W	13	84

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
508779 1999 VB_{138} *(continuation)*									
7 20	22 26.17	−33 8.2	0.874	1.803	18.9	19.8	145 W	12	83
7 25	22 25.84	−33 54.6	0.838	1.784	17.4	19.6	148 W	11	82
7 30	22 24.48	−34 40.7	0.805	1.764	16.0	19.4	151 W	10	81
8 4	22 22.11	−35 24.5	0.777	1.746	14.9	19.3	154 W	10	81
8 9	22 18.77	−36 3.9	0.753	1.727	14.1	19.2	155 W	9	80
8 14	22 14.60	−36 36.6	0.734	1.710	13.9	19.1	156 W	8	79
8 19	22 9.78	−37 0.1	0.718	1.692	14.3	19.0	156 W	8	79
8 24	22 4.58	−37 12.3	0.708	1.675	15.4	19.0	154 E	8	79
8 29	21 59.34	−37 11.7	0.701	1.659	17.0	19.0	151 E	8	79
9 3	21 54.35	−36 57.6	0.698	1.644	18.9	19.1	148 E	8	79
9 8	21 49.93	−36 29.8	0.699	1.629	21.0	19.1	145 E	9	80
9 13	21 46.32	−35 48.7	0.704	1.614	23.2	19.2	141 E	9	80
9 18	21 43.74	−34 55.3	0.712	1.601	25.4	19.2	137 E	10	81
9 23	21 42.34	−33 50.8	0.723	1.588	27.5	19.3	133 E	11	82
9 28	21 42.18	−32 36.6	0.737	1.576	29.4	19.4	129 E	12	83
10 3	21 43.27	−31 14.2	0.753	1.565	31.2	19.5	126 E	14	85
10 8	21 45.54	−29 44.9	0.771	1.555	32.9	19.6	122 E	15	86
10 13	21 48.93	−28 9.7	0.792	1.545	34.4	19.7	119 E	17	88
10 18	21 53.36	−26 29.6	0.814	1.537	35.7	19.7	116 E	19	90
10 23	21 58.75	−24 45.4	0.838	1.530	36.8	19.8	113 E	20	89
10 28	22 5.00	−22 57.8	0.864	1.524	37.8	19.9	110 E	22	87
11 2	22 11.98	−21 7.5	0.891	1.519	38.6	20.0	107 E	24	85
11 7	22 19.62	−19 14.8	0.919	1.515	39.2	20.1	105 E	26	83
11 12	22 27.83	−17 20.3	0.950	1.512	39.7	20.2	102 E	28	81
11 17	22 36.56	−15 24.4	0.981	1.510	40.1	20.2	100 E	30	79*
11 22	22 45.73	−13 27.4	1.014	1.509	40.4	20.3	98 E	32	77*
11 27	22 55.29	−11 29.6	1.048	1.510	40.6	20.4	96 E	34	74*
12 7	23 15.36	− 7 33.6	1.121	1.514	40.6	20.5	92 E	37	67*
12 17	23 36.48	− 3 39.0	1.198	1.523	40.2	20.7	88 E	41	60*
12 27	23 58.47	+ 0 11.7	1.281	1.536	39.6	20.8	84 E	45	54*
1 6	0 21.16	+ 3 55.7	1.369	1.553	38.7	21.0	81 E	49	48*
1 16	0 44.48	+ 7 30.9	1.462	1.574	37.6	21.1	77 E	52*	42*
454177 2013 GJ_{35}									
5 31	21 47.38	+ 6 54.9	2.810	3.113	18.8	21.5	98 W	47*	57
6 10	21 45.89	+ 8 50.6	2.687	3.127	18.2	21.4	106 W	52*	55
6 20	21 42.10	+10 40.8	2.573	3.139	17.1	21.2	115 W	56*	53
6 30	21 35.91	+12 21.6	2.472	3.150	15.6	21.1	124 W	57	52
7 10	21 27.40	+13 48.6	2.388	3.160	13.8	21.0	132 W	59	50
7 20	21 16.86	+14 57.1	2.326	3.168	12.0	20.9	139 W	60	49
7 30	21 4.84	+15 42.8	2.288	3.174	10.5	20.8	145 W	61	48
8 9	20 52.18	+16 3.4	2.277	3.179	9.9	20.7	148 E	61	48
8 19	20 39.83	+15 59.3	2.294	3.183	10.3	20.8	146 E	61	48
8 29	20 28.70	+15 33.7	2.338	3.186	11.5	20.9	141 E	61	48
9 8	20 19.54	+14 52.2	2.405	3.186	13.2	21.0	134 E	60	49
9 18	20 12.77	+14 1.2	2.494	3.186	14.8	21.1	126 E	59	50
9 28	20 8.59	+13 6.7	2.598	3.184	16.2	21.3	117 E	58	51
10 8	20 6.96	+12 14.1	2.714	3.181	17.3	21.4	109 E	57	52
505657 2014 SR_{339}									
5 31	21 50.76	+ 8 38.7	1.128	1.597	39.1	21.3	96 W	48*	55
6 5	21 57.77	+ 8 51.8	1.067	1.584	39.2	21.2	99 W	49*	55
6 10	22 4.56	+ 8 58.5	1.006	1.571	39.2	21.1	102 W	51*	55
6 15	22 11.09	+ 8 57.5	0.945	1.557	39.1	20.9	105 W	52*	55
6 20	22 17.35	+ 8 47.1	0.884	1.542	38.7	20.7	108 W	52*	55
6 25	22 23.32	+ 8 25.1	0.823	1.526	38.2	20.5	112 W	53*	56
6 30	22 28.97	+ 7 48.8	0.763	1.510	37.5	20.3	115 W	53*	56
7 5	22 34.28	+ 6 55.0	0.704	1.493	36.5	20.1	119 W	52	57
7 10	22 39.23	+ 5 39.9	0.647	1.475	35.1	19.8	123 W	51	58
7 15	22 43.76	+ 3 58.1	0.592	1.457	33.4	19.6	128 W	49	60
7 20	22 47.81	+ 1 43.2	0.538	1.438	31.2	19.3	133 W	47	62
7 25	22 51.33	− 1 12.5	0.488	1.418	28.5	19.0	138 W	44	65
7 30	22 54.25	− 4 57.8	0.442	1.397	25.3	18.6	144 W	40	69
8 4	22 56.51	− 9 41.6	0.401	1.377	21.6	18.3	150 W	35	74
8 9	22 58.02	−15 31.2	0.366	1.355	18.1	17.9	155 W	29	80
8 14	22 58.64	−22 28.2	0.338	1.333	16.1	17.6	159 W	23	86
8 19	22 58.25	−30 23.1	0.318	1.310	17.6	17.5	157 W	15	86
8 21	22 57.78	−33 44.5	0.313	1.301	19.3	17.5	155 W	11	82
8 23	22 57.12	−37 9.3	0.309	1.292	21.5	17.6	152 W	8	79
8 25	22 56.27	−40 35.4	0.306	1.283	24.0	17.6	149 W	4	75
8 27	22 55.21	−44 0.4	0.305	1.274	26.8	17.7	145 W	1	72
8 29	22 53.94	−47 22.0	0.306	1.264	29.7	17.7	142 W	—	69
8 31	22 52.45	−50 38.2	0.308	1.255	32.6	17.8	138 W	—	65
9 2	22 50.73	−53 47.3	0.311	1.245	35.6	17.9	134 W	—	62
9 4	22 48.76	−56 47.8	0.315	1.236	38.4	18.0	130 E	—	59
9 6	22 46.53	−59 38.7	0.320	1.226	41.2	18.1	127 E	—	56
9 8	22 44.03	−62 19.5	0.326	1.217	43.8	18.2	123 E	—	54
9 13	22 36.49	−68 15.2	0.343	1.193	49.8	18.4	115 E	—	48
9 18	22 26.95	−73 7.3	0.364	1.169	54.9	18.6	108 E	—	43
9 23	22 15.24	−77 3.6	0.386	1.145	59.2	18.8	102 E	—	39
9 28	22 0.96	−80 14.6	0.408	1.121	62.8	19.0	96 E	—	36

505657 2014 SR_{339} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 29	21 57.72	−80 48.2	0.412	1.116	63.4	19.1	95 E	—	35
9 30	21 54.32	−81 20.5	0.416	1.111	64.0	19.1	94 E	—	35
10 1	21 50.75	−81 51.6	0.421	1.107	64.6	19.1	93 E	—	34
10 2	21 46.98	−82 21.4	0.425	1.102	65.2	19.2	92 E	—	34
10 3	21 42.99	−82 50.1	0.429	1.097	65.7	19.2	91 E	—	33
10 4	21 38.75	−83 17.7	0.433	1.093	66.3	19.2	90 E	—	33
10 5	21 34.21	−83 44.3	0.437	1.088	66.8	19.2	90 E	—	32
10 6	21 29.34	−84 9.9	0.441	1.083	67.3	19.3	89 E	—	32
10 7	21 24.07	−84 34.5	0.445	1.079	67.8	19.3	88 E	—	31
10 8	21 18.33	−84 58.3	0.448	1.074	68.3	19.3	87 E	—	31
10 9	21 12.03	−85 21.2	0.452	1.070	68.7	19.3	86 E	—	31
10 10	21 5.04	−85 43.3	0.456	1.065	69.2	19.4	86 E	—	30
10 11	20 57.22	−86 4.5	0.459	1.061	69.6	19.4	85 E	—	30
10 12	20 48.37	−86 25.0	0.463	1.056	70.0	19.4	84 E	—	30
10 13	20 38.22	−86 44.6	0.466	1.052	70.5	19.4	83 E	—	29
10 14	20 26.41	−87 3.4	0.469	1.047	70.9	19.4	83 E	—	29
10 15	20 12.49	−87 21.3	0.472	1.043	71.3	19.5	82 E	—	29
10 16	19 55.81	−87 38.2	0.475	1.039	71.6	19.5	81 E	—	28*
10 17	19 35.53	−87 54.0	0.478	1.034	72.0	19.5	81 E	—	28*
10 18	19 10.54	−88 8.3	0.481	1.030	72.4	19.5	80 E	—	28*
10 19	18 39.59	−88 20.9	0.483	1.026	72.8	19.5	80 E	—	27*
10 20	18 1.49	−88 31.1	0.486	1.022	73.1	19.5	79 E	—	27*
10 21	17 15.98	−88 38.4	0.488	1.018	73.5	19.5	79 E	—	27*
10 22	16 24.81	−88 42.1	0.490	1.014	73.8	19.6	78 E	—	27*
10 23	15 32.14	−88 41.7	0.493	1.010	74.1	19.6	77 E	—	26*
10 24	14 42.92	−88 37.5	0.495	1.006	74.5	19.6	77 E	—	26*
10 25	14 0.50	−88 30.1	0.496	1.002	74.8	19.6	76 E	—	26*
10 26	13 25.73	−88 20.2	0.498	0.998	75.1	19.6	76 W	—	26*
10 27	12 57.87	−88 8.5	0.500	0.994	75.4	19.6	75 W	—	26*
10 28	12 35.66	−87 55.6	0.501	0.990	75.7	19.6	75 W	—	26*
10 29	12 17.85	−87 41.8	0.502	0.986	76.1	19.6	75 W	—	27*
10 30	12 3.44	−87 27.4	0.504	0.983	76.4	19.6	74 W	—	27*
10 31	11 51.67	−87 12.4	0.505	0.979	76.7	19.6	74 W	—	27*
11 1	11 41.95	−86 57.1	0.505	0.976	77.0	19.7	73 W	—	27*
11 2	11 33.86	−86 41.5	0.506	0.972	77.3	19.7	73 W	—	28*
11 3	11 27.07	−86 25.6	0.507	0.969	77.6	19.7	73 W	—	28*
11 4	11 21.35	−86 9.4	0.507	0.966	77.9	19.7	72 W	—	28*
11 5	11 16.52	−85 53.1	0.507	0.962	78.2	19.7	72 W	—	28*
11 6	11 12.42	−85 36.6	0.508	0.959	78.5	19.7	71 W	—	29*
11 7	11 8.95	−85 19.9	0.508	0.956	78.7	19.7	71 W	—	29*
11 8	11 6.01	−85 3.1	0.507	0.953	79.0	19.7	71 W	—	29*
11 9	11 3.54	−84 46.0	0.507	0.950	79.3	19.7	70 W	—	29*
11 10	11 1.48	−84 28.8	0.507	0.947	79.6	19.7	70 W	—	30*
11 11	10 59.79	−84 11.4	0.506	0.944	79.9	19.7	70 W	—	30*
11 12	10 58.41	−83 53.8	0.505	0.942	80.2	19.7	70 W	—	30*
11 13	10 57.32	−83 36.1	0.504	0.939	80.5	19.7	69 W	—	31*
11 14	10 56.49	−83 18.1	0.503	0.936	80.8	19.7	69 W	—	31*
11 15	10 55.90	−83 0.0	0.502	0.934	81.0	19.7	69 W	—	31*
11 16	10 55.52	−82 41.6	0.501	0.932	81.3	19.7	69 W	—	32*
11 17	10 55.35	−82 22.9	0.499	0.929	81.6	19.7	68 W	—	32*
11 18	10 55.37	−82 4.1	0.498	0.927	81.9	19.7	68 W	—	32*
11 19	10 55.56	−81 44.9	0.496	0.925	82.2	19.7	68 W	—	33*
11 20	10 55.92	−81 25.5	0.494	0.923	82.5	19.7	68 W	—	33*
11 21	10 56.44	−81 5.9	0.492	0.921	82.7	19.7	68 W	—	33*
11 22	10 57.11	−80 45.9	0.490	0.919	83.0	19.7	68 W	—	34*
11 23	10 57.92	−80 25.6	0.487	0.918	83.3	19.7	67 W	—	34*
11 24	10 58.87	−80 5.0	0.485	0.916	83.6	19.7	67 W	—	34*
11 25	10 59.95	−79 44.0	0.482	0.915	83.8	19.7	67 W	—	35*
11 26	11 1.16	−79 22.7	0.479	0.913	84.1	19.7	67 W	—	35*
11 27	11 2.49	−79 1.0	0.477	0.912	84.4	19.6	67 W	—	35*
11 29	11 5.48	−78 16.5	0.470	0.910	84.9	19.6	67 W	—	36*
12 1	11 8.90	−77 30.3	0.464	0.908	85.5	19.6	67 W	—	37*
12 3	11 12.71	−76 42.3	0.456	0.906	86.0	19.6	67 W	—	38*
12 5	11 16.88	−75 52.4	0.449	0.905	86.5	19.6	66 W	—	38*
12 7	11 21.38	−75 0.4	0.440	0.905	87.0	19.6	67 W	—	39*
12 9	11 26.18	−74 6.0	0.432	0.905	87.4	19.5	67 W	—	40*
12 11	11 31.24	−73 9.0	0.423	0.905	87.9	19.5	67 W	—	41*
12 13	11 36.55	−72 9.1	0.413	0.906	88.3	19.5	67 W	—	42*
12 15	11 42.07	−71 6.0	0.403	0.907	88.7	19.4	67 W	—	43*
12 17	11 47.78	−69 59.2	0.393	0.909	89.0	19.4	67 W	—	44*
12 19	11 53.68	−68 48.4	0.383	0.911	89.3	19.4	68 W	—	45*
12 21	11 59.72	−67 33.1	0.372	0.913	89.6	19.3	68 W	—	47*
12 23	12 5.91	−66 12.7	0.361	0.916	89.8	19.3	69 W	—	48*
12 25	12 12.21	−64 46.6	0.350	0.919	89.9	19.2	69 W	—	49*
12 27	12 18.62	−63 14.3	0.339	0.923	90.0	19.2	70 W	—	51*
12 29	12 25.11	−61 34.8	0.327	0.927	90.0	19.1	71 W	—	52*
12 31	12 31.65	−59 47.5	0.316	0.932	89.9	19.0	71 W	—	54*
1 2	12 38.24	−57 51.4	0.304	0.937	89.7	18.9	72 W	—	56*
1 4	12 44.84	−55 45.5	0.293	0.942	89.4	18.9	73 W	—	58*
1 6	12 51.44	−53 28.8	0.282	0.947	89.0	18.8	74 W	—	60*
1 8	12 58.00	−50 59.9	0.271	0.953	88.4	18.7	76 W	—	63*
1 10	13 4.50	−48 17.6	0.260	0.959	87.6	18.6	77 W	—	65*

505657 2014 SR_{339} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 12	13 10.93	−45 20.5	0.249	0.966	86.7	18.5	79 W	—	68*
1 14	13 17.26	−42 7.4	0.240	0.972	85.6	18.3	80 W	3	71*

136900 1998 HL_{49}

5 31	21 54.62	+ 1 38.5	1.714	2.111	28.4	21.3	98 W	41*	62
6 10	22 2.63	+ 3 31.3	1.534	2.045	28.7	21.0	105 W	46*	60
6 20	22 9.05	+ 5 27.5	1.359	1.975	28.6	20.7	112 W	50*	59
6 30	22 13.42	+ 7 26.0	1.189	1.901	27.9	20.3	119 W	52*	57
7 10	22 15.20	+ 9 25.3	1.028	1.824	26.7	19.9	126 W	54	55
7 20	22 13.55	+11 22.5	0.878	1.743	24.9	19.4	134 W	56	53
7 25	22 11.12	+12 18.6	0.807	1.701	23.7	19.1	138 W	57	52
7 30	22 7.41	+13 11.9	0.739	1.658	22.5	18.8	141 W	58	51
8 4	22 2.26	+14 1.0	0.675	1.614	21.2	18.5	145 W	59	50
8 9	21 55.47	+14 44.1	0.615	1.569	20.1	18.2	148 W	60	49
8 14	21 46.83	+15 18.8	0.558	1.523	19.3	17.9	150 W	60	49
8 19	21 36.15	+15 42.2	0.506	1.476	19.3	17.6	151 E	61	48
8 24	21 23.30	+15 50.4	0.458	1.428	20.4	17.4	150 E	61	48
8 29	21 8.21	+15 39.4	0.415	1.379	23.0	17.2	148 E	61	48
9 3	20 50.86	+15 5.1	0.376	1.329	27.1	17.0	143 E	60	49
9 8	20 31.30	+14 2.8	0.342	1.278	32.7	16.9	137 E	59	50
9 13	20 9.65	+12 28.7	0.312	1.226	39.7	16.8	129 E	57	52
9 18	19 46.08	+10 19.9	0.285	1.174	47.9	16.7	120 E	55	54
9 23	19 20.66	+ 7 35.3	0.263	1.120	57.4	16.7	110 E	53	56
9 28	18 53.18	+ 4 15.3	0.244	1.067	68.2	16.8	99 E	49	60
10 3	18 23.06	+ 0 21.5	0.229	1.013	80.3	16.9	87 E	45*	61*
10 8	17 49.45	− 4 1.4	0.217	0.960	94.1	17.3	73 E	38*	57*
10 10	17 34.84	− 5 52.4	0.214	0.939	100.1	17.4	68 E	35*	54*
10 12	17 19.51	− 7 45.2	0.212	0.917	106.4	17.7	62 E	31*	50*
10 14	17 3.45	− 9 38.0	0.211	0.897	112.9	18.0	56 E	27*	45*
10 16	16 46.71	−11 29.0	0.211	0.876	119.6	18.4	50 E	23*	40*
10 18	16 29.38	−13 15.9	0.212	0.856	126.6	19.0	44 E	19*	35*
10 20	16 11.61	−14 56.4	0.215	0.835	133.7	19.7	37 E	15*	30*
10 22	15 53.61	−16 28.1	0.219	0.816	140.8	20.5	31 E	10*	24*

326364 2000 VC_2

5 31	22 2.48	−36 2.4	2.591	3.067	18.3	21.4	108 W	5*	80
6 10	22 5.96	−37 20.4	2.474	3.068	17.2	21.3	117 W	6*	79
6 20	22 6.89	−38 51.5	2.368	3.067	15.7	21.2	125 W	6*	77
6 30	22 4.96	−40 32.4	2.278	3.065	14.0	21.0	133 W	4	75
7 10	21 59.99	−42 17.2	2.207	3.063	12.1	20.9	141 W	3	74
7 20	21 52.00	−43 58.0	2.157	3.059	10.5	20.8	147 W	1	72
7 30	21 41.39	−45 25.4	2.132	3.054	9.6	20.7	150 W	—	71
8 9	21 29.05	−46 30.4	2.133	3.048	9.8	20.7	149 W	—	69
8 19	21 16.24	−47 7.1	2.158	3.041	11.1	20.8	145 E	—	69
8 29	21 4.37	−47 13.6	2.207	3.033	12.9	20.9	138 E	—	69
9 8	20 54.66	−46 52.4	2.277	3.024	14.8	21.0	130 E	—	69
9 18	20 47.89	−46 8.3	2.363	3.014	16.5	21.1	122 E	—	70
9 28	20 44.41	−45 7.1	2.464	3.003	17.9	21.3	113 E	—	71
10 8	20 44.14	−43 53.9	2.573	2.991	18.8	21.4	105 E	1	72
10 18	20 46.81	−42 32.5	2.689	2.978	19.4	21.5	97 E	2	73

515013 2009 SN_{69}

5 31	22 13.76	− 9 4.5	1.378	1.817	33.6	21.5	98 W	30*	73
6 10	22 30.92	− 7 39.0	1.266	1.789	33.6	21.3	103 W	33*	72
6 20	22 46.97	− 6 20.0	1.160	1.764	33.2	21.0	108 W	36*	70
6 30	23 1.61	− 5 11.3	1.061	1.741	32.3	20.8	114 W	39*	69
7 10	23 14.53	− 4 16.8	0.969	1.720	30.8	20.5	120 W	41*	68
7 20	23 25.31	− 3 40.9	0.885	1.702	28.5	20.2	127 W	41	68
7 30	23 33.45	− 3 27.6	0.811	1.686	25.4	19.9	134 W	42	67
8 9	23 38.59	− 3 40.0	0.749	1.674	21.4	19.6	143 W	41	68
8 19	23 40.42	− 4 18.7	0.700	1.664	16.4	19.3	152 W	41	68
8 24	23 40.12	− 4 47.1	0.681	1.661	13.6	19.2	157 W	40	69
8 29	23 39.10	− 5 20.2	0.667	1.658	10.5	19.0	163 W	40	69
9 3	23 37.48	− 5 56.6	0.657	1.656	7.4	18.8	168 W	39	70
9 8	23 35.40	− 6 34.8	0.651	1.655	4.4	18.6	173 W	38	71
9 13	23 33.03	− 7 13.0	0.650	1.655	2.4	18.5	176 W	38	71
9 18	23 30.58	− 7 49.3	0.654	1.656	4.0	18.6	173 E	37	72
9 23	23 28.28	− 8 21.8	0.662	1.657	7.0	18.8	168 E	37	72
9 28	23 26.34	− 8 49.0	0.675	1.659	10.1	19.0	163 E	36	73
10 3	23 24.91	− 9 9.6	0.693	1.663	13.1	19.2	158 E	36	73
10 8	23 24.13	− 9 23.1	0.714	1.667	15.9	19.3	153 E	36	73
10 18	23 24.85	− 9 27.2	0.770	1.677	20.9	19.7	143 E	36	73
10 28	23 28.86	− 9 1.4	0.839	1.690	24.9	20.0	134 E	36	73
11 7	23 35.97	− 8 9.2	0.921	1.706	27.9	20.3	126 E	37	72
11 12	23 40.55	− 7 34.7	0.966	1.715	29.1	20.5	123 E	37	72
11 17	23 45.76	− 6 55.3	1.013	1.725	30.1	20.6	119 E	38	71
11 22	23 51.53	− 6 11.5	1.062	1.736	30.9	20.8	116 E	39	70
11 27	23 57.80	− 5 24.0	1.114	1.747	31.5	20.9	112 E	40	69

515013 2009 SN_{69} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 2	0 4.51	− 4 33.2	1.168	1.758	32.0	21.0	109 E	40	69
12 7	0 11.61	− 3 39.7	1.223	1.770	32.3	21.1	106 E	41	68*
12 12	0 19.05	− 2 43.8	1.280	1.783	32.5	21.3	103 E	42	66*
12 17	0 26.81	− 1 46.0	1.338	1.796	32.6	21.4	100 E	43	65*
12 22	0 34.85	− 0 46.7	1.398	1.810	32.6	21.5	97 E	44	62*

316695 1996 TE_9

5 31	22 27.46	−48 12.2	1.057	1.664	35.6	21.5	107 W	—	68
6 5	22 41.45	−48 39.1	1.008	1.642	35.9	21.4	109 W	—	67
6 10	22 55.28	−49 6.3	0.961	1.620	36.1	21.2	110 W	—	67
6 15	23 8.88	−49 34.0	0.916	1.598	36.3	21.1	112 W	—	66
6 20	23 22.16	−50 2.2	0.872	1.576	36.4	21.0	113 W	—	66
6 25	23 35.02	−50 31.0	0.830	1.554	36.6	20.8	114 W	—	65
6 30	23 47.37	−51 0.2	0.790	1.532	36.8	20.7	115 W	—	65
7 5	23 59.09	−51 29.6	0.751	1.510	37.0	20.6	117 W	—	65
7 10	0 10.05	−51 59.3	0.713	1.488	37.2	20.4	118 W	—	64
7 15	0 20.09	−52 29.1	0.677	1.467	37.4	20.3	119 W	—	64
7 20	0 29.01	−52 58.8	0.642	1.446	37.6	20.2	120 W	—	63
7 25	0 36.58	−53 27.7	0.608	1.425	37.8	20.0	121 W	—	63
7 30	0 42.59	−53 54.9	0.575	1.405	37.9	19.9	122 W	—	62
8 4	0 46.79	−54 19.1	0.543	1.385	38.0	19.7	123 W	—	62
8 9	0 48.90	−54 38.8	0.511	1.366	38.1	19.5	124 W	—	61
8 14	0 48.59	−54 51.7	0.481	1.348	38.0	19.4	125 W	—	61
8 19	0 45.56	−54 54.3	0.452	1.330	37.8	19.2	126 W	—	61
8 24	0 39.60	−54 41.4	0.423	1.313	37.5	19.0	128 W	—	61
8 29	0 30.68	−54 6.4	0.396	1.297	37.1	18.9	129 W	—	62
9 3	0 18.96	−53 1.7	0.371	1.283	36.4	18.7	131 W	—	63
9 8	0 4.91	−51 18.3	0.347	1.269	35.6	18.5	133 W	—	65
9 10	23 58.80	−50 23.9	0.338	1.264	35.2	18.4	134 W	—	66
9 12	23 52.49	−49 21.2	0.329	1.259	34.9	18.3	134 W	—	67
9 14	23 46.07	−48 9.6	0.321	1.254	34.5	18.3	135 W	—	68
9 16	23 39.59	−46 48.6	0.314	1.250	34.1	18.2	136 W	—	69
9 18	23 33.15	−45 18.0	0.307	1.245	33.7	18.1	137 E	—	71
9 20	23 26.80	−43 37.4	0.300	1.241	33.4	18.1	137 E	1	72
9 22	23 20.62	−41 46.9	0.294	1.237	33.1	18.0	138 E	3	74
9 24	23 14.68	−39 46.6	0.289	1.234	32.8	17.9	138 E	5	76
9 26	23 9.01	−37 36.9	0.284	1.230	32.6	17.9	139 E	7	78
9 28	23 3.67	−35 18.5	0.281	1.227	32.5	17.9	139 E	10	81
9 30	22 58.68	−32 52.0	0.278	1.224	32.6	17.8	139 E	12	83
10 2	22 54.07	−30 18.5	0.276	1.222	32.7	17.8	139 E	15	86
10 4	22 49.85	−27 39.3	0.274	1.219	33.0	17.8	138 E	17	88
10 6	22 46.03	−24 55.5	0.274	1.217	33.4	17.8	138 E	20	89
10 8	22 42.61	−22 8.5	0.274	1.215	34.0	17.8	137 E	23	86
10 10	22 39.60	−19 19.9	0.276	1.213	34.6	17.9	136 E	26	83
10 12	22 36.99	−16 30.9	0.278	1.212	35.4	17.9	135 E	28	81
10 14	22 34.76	−13 43.0	0.281	1.211	36.2	17.9	134 E	31	78
10 16	22 32.92	−10 57.4	0.286	1.210	37.1	18.0	133 E	34	75
10 18	22 31.46	− 8 15.0	0.291	1.209	38.0	18.1	132 E	37	72
10 20	22 30.36	− 5 36.9	0.296	1.209	38.9	18.1	130 E	39	70
10 22	22 29.60	− 3 3.7	0.303	1.209	39.8	18.2	129 E	42	67
10 24	22 29.18	− 0 35.9	0.310	1.209	40.7	18.3	128 E	44	65
10 26	22 29.07	+ 1 46.2	0.318	1.209	41.6	18.3	126 E	47	62
10 28	22 29.26	+ 4 2.2	0.326	1.210	42.4	18.4	125 E	49	60
11 7	22 34.21	+13 52.7	0.376	1.217	45.6	18.8	119 E	59	50
11 17	22 44.87	+21 30.7	0.436	1.231	47.3	19.2	114 E	67	42
11 27	23 0.37	+27 29.3	0.502	1.250	47.9	19.6	110 E	72	36*
12 2	23 9.70	+30 0.4	0.537	1.262	47.9	19.8	108 E	75	33*
12 7	23 20.00	+32 16.2	0.573	1.275	47.7	19.9	107 E	77	30*
12 12	23 31.22	+34 18.8	0.609	1.289	47.4	20.1	106 E	79	28*
12 17	23 43.35	+36 9.9	0.647	1.305	47.0	20.2	104 E	81	25*
12 22	23 56.35	+37 51.0	0.685	1.321	46.5	20.3	103 E	83	23*
12 27	0 10.16	+39 23.0	0.724	1.338	45.9	20.5	102 E	84	21*
1 1	0 24.73	+40 46.4	0.764	1.356	45.4	20.6	101 E	86	19*
1 6	0 40.03	+42 1.6	0.805	1.375	44.8	20.7	100 E	87	18*
1 11	0 56.02	+43 8.8	0.847	1.394	44.2	20.9	99 E	88	17*
1 16	1 12.64	+44 8.3	0.890	1.414	43.6	21.0	98 E	89	15*

247908 2003 VS

5 31	22 27.96	−30 31.1	2.650	3.025	19.2	21.5	102 W	9*	85
6 10	22 31.42	−30 44.8	2.512	3.016	18.4	21.3	110 W	11*	85
6 20	22 32.49	−31 9.7	2.382	3.007	17.2	21.2	119 W	12*	85
6 30	22 30.87	−31 44.5	2.262	2.996	15.5	21.0	128 W	13*	84
7 10	22 26.36	−32 26.2	2.158	2.985	13.4	20.8	137 W	13	84
7 20	22 18.89	−33 9.8	2.072	2.973	10.9	20.6	146 W	12	83
7 30	22 8.70	−33 48.3	2.010	2.959	8.5	20.5	155 W	11	82
8 4	21 56.47	−34 14.2	1.974	2.945	6.9	20.3	160 W	11	82
8 9	21 49.90	−34 20.3	1.966	2.938	6.9	20.3	160 W	11	82
8 14	21 43.22	−34 20.9	1.966	2.930	7.3	20.3	158 E	11	82

247908 2003 VS *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
8 24	21 36.61	−34 15.8	1.972	2.922	8.3	20.4	155 E	11	82
8 29	21 30.24	−34 4.7	1.985	2.914	9.5	20.4	152 E	11	82
9 3	21 24.25	−33 48.0	2.005	2.905	10.8	20.5	147 E	11	82
9 8	21 18.78	−33 25.9	2.031	2.897	12.2	20.6	143 E	12	83
9 13	21 13.92	−32 58.9	2.062	2.888	13.5	20.7	138 E	12	83
9 18	21 9.76	−32 27.5	2.099	2.878	14.8	20.7	133 E	13	84
9 23	21 6.34	−31 52.5	2.141	2.869	16.0	20.8	128 E	13	84
9 28	21 3.71	−31 14.3	2.186	2.859	17.1	20.9	123 E	14	85
10 3	21 1.85	−30 33.6	2.236	2.849	18.0	21.0	118 E	14	85
10 8	21 0.76	−29 50.9	2.288	2.839	18.8	21.0	114 E	15	86
10 13	21 0.39	−29 6.5	2.343	2.829	19.5	21.1	109 E	16	87
10 18	21 0.73	−28 20.7	2.400	2.818	20.0	21.2	104 E	17	88
10 23	21 1.74	−27 33.8	2.458	2.807	20.4	21.2	100 E	17	88
10 28	21 3.37	−26 46.0	2.517	2.796	20.7	21.3	96 E	18	89*
11 2	21 5.57	−25 57.4	2.577	2.785	20.9	21.3	91 E	19	85*
11 7	21 8.30	−25 8.1	2.637	2.773	20.9	21.3	87 E	20	81*
11 12	21 11.51	−24 18.2	2.696	2.762	20.9	21.4	83 E	21	76*
11 17	21 15.16	−23 27.5	2.755	2.750	20.7	21.4	79 E	22	71*
11 22	21 19.23	−22 36.2	2.813	2.737	20.4	21.4	75 E	22	67*
11 27	21 23.66	−21 44.2	2.869	2.725	20.1	21.5	72 E	23	62*
12 2	21 28.42	−20 51.5	2.924	2.712	19.7	21.5	68 E	24*	58*
12 7	21 33.49	−19 58.0	2.976	2.699	19.2	21.5	64 E	25*	53*

523633 2009 XR_2

5 31	22 28.91	+ 8 8.8	1.094	1.462	43.9	21.3	88 W	43*	56
6 10	22 49.26	+14 55.8	1.000	1.420	45.6	21.1	90 W	51*	49
6 20	23 10.72	+22 25.5	0.919	1.378	47.5	20.9	91 W	59*	42
6 30	23 34.13	+30 30.6	0.852	1.335	49.6	20.7	91 W	68*	33
7 10	0 0.88	+38 56.7	0.801	1.293	51.8	20.6	90 W	77*	25
7 20	0 33.24	+47 21.3	0.763	1.252	54.2	20.5	88 W	82*	17
7 22	0 40.66	+48 59.4	0.757	1.244	54.7	20.5	88 W	82*	15
7 24	0 48.48	+50 36.0	0.752	1.236	55.2	20.4	87 W	81*	13
7 26	0 56.75	+52 10.6	0.747	1.228	55.7	20.4	87 W	81*	12
7 28	1 5.49	+53 43.1	0.742	1.221	56.1	20.4	87 W	80*	10
7 30	1 14.78	+55 12.9	0.738	1.213	56.6	20.4	86 W	78*	9
8 1	1 24.64	+56 39.9	0.734	1.205	57.1	20.4	86 W	77*	7
8 3	1 35.14	+58 3.7	0.731	1.198	57.5	20.4	85 W	76*	6
8 5	1 46.33	+59 23.8	0.728	1.191	58.0	20.4	85 W	75*	5
8 7	1 58.26	+60 39.9	0.725	1.183	58.5	20.4	84 W	73*	3
8 9	2 10.96	+61 51.5	0.723	1.176	58.9	20.4	83 W	72*	2
8 11	2 24.49	+62 58.2	0.720	1.169	59.3	20.4	83 W	71*	1
8 13	2 38.84	+63 59.5	0.718	1.162	59.8	20.4	82 W	70*	—
8 15	2 54.04	+64 54.9	0.717	1.156	60.2	20.3	82 W	69*	—
8 17	3 10.05	+65 43.9	0.715	1.149	60.6	20.3	81 W	68*	—
8 19	3 26.81	+66 26.2	0.713	1.143	61.0	20.3	81 W	67*	—
8 21	3 44.26	+67 1.2	0.712	1.137	61.4	20.3	80 W	66*	—
8 23	4 2.25	+67 28.8	0.711	1.131	61.7	20.3	80 W	65*	—
8 25	4 20.63	+67 48.5	0.709	1.125	62.1	20.3	80 W	65*	—
8 27	4 39.23	+68 0.4	0.708	1.119	62.4	20.3	79 W	64*	—
8 29	4 57.85	+68 4.3	0.707	1.114	62.8	20.3	79 W	63*	—
8 30	5 7.11	+68 3.4	0.706	1.111	62.9	20.3	79 W	63*	—
8 31	5 16.29	+68 0.6	0.705	1.109	63.1	20.3	78 W	63*	—
9 1	5 25.39	+67 55.8	0.705	1.106	63.2	20.3	78 W	63*	—
9 2	5 34.36	+67 49.3	0.704	1.104	63.4	20.3	78 W	63*	—
9 3	5 43.21	+67 41.0	0.703	1.102	63.5	20.3	78 W	62*	—
9 4	5 51.90	+67 30.9	0.703	1.099	63.7	20.3	78 W	62*	—
9 5	6 0.43	+67 19.1	0.702	1.097	63.8	20.3	78 W	62*	—
9 6	6 8.77	+67 5.8	0.701	1.095	63.9	20.3	77 W	62*	—
9 7	6 16.92	+66 50.9	0.701	1.093	64.1	20.3	77 W	62*	—
9 8	6 24.87	+66 34.5	0.700	1.091	64.2	20.3	77 W	62*	—
9 10	6 40.13	+65 57.5	0.698	1.087	64.5	20.3	77 W	62*	—
9 12	6 54.53	+65 15.3	0.696	1.083	64.7	20.3	77 W	62*	—
9 14	7 8.04	+64 28.4	0.694	1.080	64.9	20.3	76 W	62*	—
9 16	7 20.70	+63 37.3	0.692	1.076	65.1	20.3	76 W	62*	—
9 18	7 32.52	+62 42.4	0.690	1.073	65.3	20.3	76 W	62*	—
9 20	7 43.55	+61 44.1	0.688	1.071	65.5	20.3	76 W	62*	—
9 22	7 53.83	+60 42.7	0.685	1.069	65.6	20.2	76 W	63*	—
9 24	8 3.41	+59 38.4	0.683	1.066	65.8	20.2	76 W	63*	—
9 26	8 12.35	+58 31.6	0.680	1.065	65.9	20.2	76 W	64*	—
9 28	8 20.71	+57 22.4	0.677	1.063	66.0	20.2	76 W	64*	1*
9 30	8 28.51	+56 11.0	0.673	1.062	66.1	20.2	76 W	65*	1*
10 2	8 35.82	+54 57.7	0.670	1.061	66.2	20.2	76 W	65*	2*
10 4	8 42.68	+53 42.4	0.666	1.061	66.3	20.2	76 W	66*	3*
10 6	8 49.11	+52 25.3	0.663	1.060	66.3	20.2	76 W	67*	4*
10 8	8 55.16	+51 6.6	0.659	1.061	66.4	20.2	76 W	68*	5*
10 13	9 8.79	+47 42.7	0.648	1.062	66.3	20.1	77 W	69*	8*
10 18	9 20.57	+44 9.5	0.636	1.065	66.2	20.1	78 W	71*	11*
10 23	9 30.81	+40 27.1	0.624	1.071	65.9	20.0	79 W	73*	15*
10 28	9 39.72	+36 35.7	0.610	1.078	65.5	20.0	81 W	74*	19*

523633 2009 XR_2 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
11 2	9 47.48	+32 35.3	0.596	1.086	64.8	20.0	82 W	74*	23*
11 7	9 54.18	+28 25.9	0.583	1.097	64.0	19.9	84 W	72*	28*
11 17	10 4.57	+19 40.7	0.555	1.122	61.8	19.8	89 W	65	38*
11 27	10 10.83	+10 23.3	0.530	1.152	58.7	19.6	94 W	55	50*
12 7	10 12.57	+ 0 43.3	0.510	1.186	54.9	19.5	100 W	46	62*
12 12	10 11.49	− 4 9.4	0.503	1.205	52.7	19.5	103 W	41	68*
12 17	10 8.93	− 8 59.2	0.499	1.224	50.4	19.4	107 W	36	73
12 22	10 4.79	−13 41.3	0.496	1.243	48.1	19.4	110 W	31	78
12 27	9 58.98	−18 10.5	0.497	1.264	45.7	19.3	113 W	27	82
1 1	9 51.46	−22 21.4	0.501	1.284	43.5	19.3	116 W	23	86
1 6	9 42.27	−26 8.3	0.508	1.305	41.4	19.3	119 W	19	90
1 11	9 31.53	−29 26.1	0.518	1.326	39.5	19.4	121 W	16	87
1 16	9 19.53	−32 10.6	0.531	1.347	37.9	19.4	123 W	13	84

363560 2003 YC

5 31	22 45.33	− 9 0.8	2.197	2.426	24.7	21.5	90 W	26*	73
6 10	22 56.27	− 9 15.6	2.037	2.392	24.9	21.3	98 W	29*	73
6 20	23 6.08	− 9 49.8	1.880	2.358	24.6	21.1	105 W	31*	74
6 30	23 14.49	−10 47.9	1.729	2.322	23.8	20.8	113 W	32*	75
7 10	23 21.22	−12 14.4	1.586	2.287	22.3	20.6	121 W	33*	76
7 20	23 25.90	−14 13.4	1.456	2.251	20.2	20.3	130 W	31	78
7 30	23 28.12	−16 47.3	1.342	2.214	17.3	20.0	139 W	28	81
8 9	23 27.56	−19 54.3	1.246	2.177	14.1	19.7	149 W	25	84
8 14	23 26.17	−21 38.1	1.207	2.158	12.5	19.5	153 W	23	86
8 19	23 24.03	−23 26.7	1.174	2.139	11.1	19.4	156 W	22	87
8 24	23 21.17	−25 17.7	1.147	2.120	10.1	19.3	158 W	20	89
8 29	23 17.68	−27 8.7	1.127	2.101	9.9	19.2	159 W	18	89
9 3	23 13.66	−28 56.7	1.113	2.082	10.5	19.2	158 W	16	87
9 8	23 9.26	−30 39.1	1.106	2.063	11.9	19.2	155 W	14	85
9 13	23 4.64	−32 13.4	1.104	2.044	13.7	19.3	151 E	13	84
9 18	23 0.02	−33 37.3	1.109	2.025	15.8	19.3	147 E	11	82
9 23	22 55.61	−34 49.3	1.118	2.006	17.9	19.4	142 E	10	81
9 28	22 51.64	−35 48.5	1.133	1.987	20.1	19.5	137 E	9	80
10 3	22 48.29	−36 34.6	1.151	1.969	22.1	19.5	132 E	8	79
10 8	22 45.71	−37 7.9	1.173	1.950	24.0	19.6	128 E	8	79
10 13	22 44.01	−37 29.0	1.198	1.931	25.7	19.7	123 E	8	79
10 18	22 43.28	−37 38.6	1.225	1.913	27.2	19.8	118 E	7	78
10 23	22 43.57	−37 37.5	1.254	1.894	28.6	19.8	114 E	7	78
10 28	22 44.87	−37 26.8	1.284	1.876	29.8	19.9	110 E	8	79
11 2	22 47.16	−37 7.3	1.315	1.858	30.8	20.0	106 E	8	79
11 7	22 50.39	−36 39.8	1.347	1.840	31.7	20.0	103 E	8	79
11 12	22 54.51	−36 5.1	1.378	1.823	32.4	20.1	99 E	9	80
11 17	22 59.47	−35 23.6	1.410	1.805	33.0	20.1	96 E	10	81
11 22	23 5.20	−34 35.8	1.441	1.789	33.5	20.2	93 E	10	81
11 27	23 11.63	−33 42.3	1.472	1.772	33.8	20.2	90 E	11	82*
12 2	23 18.69	−32 43.4	1.502	1.756	34.1	20.2	87 E	12	81*
12 7	23 26.32	−31 39.4	1.531	1.740	34.3	20.2	85 E	13	79*
12 12	23 34.47	−30 30.5	1.559	1.725	34.4	20.3	82 E	14	76*
12 17	23 43.09	−29 17.1	1.587	1.710	34.5	20.3	80 E	16	73*
12 22	23 52.13	−27 59.2	1.613	1.695	34.5	20.3	77 E	17	70*
12 27	0 1.56	−26 37.3	1.639	1.681	34.4	20.3	75 E	18	67*
1 1	0 11.33	−25 11.6	1.663	1.668	34.3	20.3	73 E	20	65*
1 6	0 21.40	−23 42.2	1.688	1.656	34.2	20.4	71 E	21	62*
1 11	0 31.77	−22 9.5	1.711	1.644	34.0	20.4	69 E	23*	60*
1 16	0 42.40	−20 33.6	1.734	1.632	33.8	20.4	67 E	24*	57*

339072 2004 QK_{13}

5 31	23 10.64	−15 9.1	2.825	2.951	20.1	21.4	87 W	18*	78*
6 10	23 16.68	−14 11.3	2.652	2.918	20.3	21.3	95 W	22*	78
6 20	23 21.11	−13 19.5	2.481	2.883	20.1	21.1	103 W	26*	77
6 30	23 23.63	−12 34.5	2.314	2.848	19.4	20.9	111 W	30*	77
7 10	23 23.94	−11 56.5	2.154	2.812	18.1	20.7	121 W	33*	76
7 20	23 21.71	−11 25.6	2.006	2.775	16.2	20.4	130 W	34	75
7 30	23 16.68	−11 1.4	1.873	2.737	13.5	20.1	141 W	34	75
8 9	23 8.79	−10 42.3	1.760	2.698	10.1	19.8	152 W	34	75
8 19	22 58.23	−10 26.1	1.671	2.659	6.0	19.5	164 W	35	74
8 29	22 45.65	−10 9.6	1.610	2.619	1.5	19.1	176 W	35	74
9 8	22 32.10	− 9 49.3	1.579	2.578	3.7	19.2	170 E	35	74
9 18	22 18.90	− 9 22.4	1.577	2.537	8.6	19.4	158 E	36	73
9 28	22 7.35	− 8 47.3	1.603	2.495	13.1	19.6	146 E	36	73
10 8	21 58.46	− 8 3.4	1.652	2.452	17.1	19.7	134 E	37	72
10 18	21 52.75	− 7 10.9	1.718	2.409	20.3	19.9	123 E	38	71
10 28	21 50.39	− 6 9.9	1.797	2.366	22.8	20.0	113 E	39	70
11 7	21 51.22	− 5 0.7	1.883	2.322	24.5	20.1	103 E	40	69
11 17	21 54.96	− 3 43.0	1.973	2.278	25.6	20.2	95 E	41	66*
11 27	22 1.27	− 2 16.6	2.061	2.234	26.2	20.3	87 E	43	59*
12 7	22 9.80	− 0 41.3	2.147	2.189	26.2	20.4	79 E	44	51*
12 17	22 20.27	+ 1 3.4	2.227	2.145	25.9	20.4	72 E	46*	43*
12 27	22 32.45	+ 2 57.5	2.299	2.101	25.3	20.4	66 E	47*	36*
1 6	22 46.12	+ 5 1.1	2.364	2.057	24.5	20.4	60 E	46*	29*
1 16	23 1.16	+ 7 14.0	2.419	2.014	23.4	20.3	55 E	44*	22*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°

436771 2012 JG_{11}

5 31	23 11.79	+18 30.9	1.028	1.234	52.3	21.4	74 W	45*	45*
6 5	23 28.30	+19 47.7	0.981	1.211	53.9	21.3	75 W	46*	44*
6 10	23 46.07	+21 2.4	0.934	1.186	55.7	21.2	75 W	47*	43*
6 15	0 5.33	+22 13.8	0.888	1.159	57.7	21.1	75 W	48*	42*
6 20	0 26.38	+23 20.0	0.844	1.130	59.9	21.0	74 W	48*	41*
6 25	0 49.51	+24 18.6	0.801	1.100	62.3	20.9	73 W	48*	40*
6 30	1 15.03	+25 6.1	0.762	1.068	65.0	20.9	72 W	48*	39*
7 5	1 43.22	+25 38.0	0.726	1.034	68.0	20.8	71 W	48*	38*
7 10	2 14.21	+25 49.3	0.695	0.998	71.3	20.7	68 W	47*	37*
7 15	2 47.92	+25 34.2	0.670	0.961	74.7	20.7	66 W	45*	37*
7 20	3 23.95	+24 47.7	0.653	0.922	78.3	20.6	63 W	42*	36*
7 25	4 1.56	+23 27.3	0.646	0.882	81.8	20.6	59 W	40*	36*
7 30	4 39.79	+21 34.7	0.648	0.841	84.9	20.7	56 W	36*	35*
8 4	5 17.64	+19 16.3	0.662	0.799	87.4	20.7	52 W	33*	34*
8 9	5 54.30	+16 42.3	0.688	0.757	88.9	20.7	48 W	29*	33*
8 14	6 29.27	+14 4.1	0.726	0.716	89.3	20.7	45 W	26*	32*
8 19	7 2.42	+11 31.5	0.775	0.676	88.2	20.7	42 W	23*	30*
8 24	7 33.90	+ 9 11.5	0.835	0.638	85.6	20.6	39 W	20*	29*
8 29	8 4.03	+ 7 7.9	0.903	0.604	81.5	20.5	36 W	18*	27*
9 3	8 33.19	+ 5 21.9	0.978	0.577	76.1	20.4	34 W	16*	25*
9 8	9 1.72	+ 3 52.3	1.058	0.557	69.4	20.3	31 W	15*	22*
9 13	9 29.81	+ 2 36.5	1.139	0.547	62.0	20.2	29 W	13*	20*
9 18	9 57.50	+ 1 31.5	1.221	0.548	54.3	20.1	26 W	12*	18*
9 23	10 24.72	+ 0 34.1	1.299	0.558	46.9	20.1	24 W	11*	15*
9 28	10 51.30	− 0 18.2	1.372	0.579	40.1	20.1	22 W	11*	13*
10 3	11 17.09	− 1 7.3	1.440	0.607	34.4	20.1	20 W	10*	11*
10 8	11 41.98	− 1 54.2	1.503	0.641	29.8	20.2	19 W	10*	9*
10 18	12 28.98	− 3 23.3	1.613	0.719	23.6	20.4	17 W	9*	5*
10 28	13 12.39	− 4 45.3	1.705	0.803	20.5	20.7	16 W	10*	3*
11 7	13 52.71	− 5 58.2	1.782	0.886	19.4	21.0	17 W	11*	2*
11 17	14 30.47	− 6 59.8	1.846	0.964	19.2	21.2	19 W	13*	1*
11 27	15 6.11	− 7 48.2	1.899	1.037	19.7	21.5	21 W	14*	2*

286080 2001 TX_1

5 31	23 21.19	+ 5 49.9	0.288	0.987	87.0	21.4	77 W	34*	57*
6 5	23 7.38	+ 4 36.2	0.286	1.029	79.0	21.2	85 W	37*	59
6 10	22 53.15	+ 3 18.6	0.283	1.070	71.3	21.0	93 W	40*	61
6 15	22 37.85	+ 1 53.5	0.279	1.109	63.6	20.8	102 W	43*	62
6 20	22 20.95	+ 0 17.4	0.276	1.146	55.7	20.6	111 W	44*	64
6 25	22 2.18	− 1 31.6	0.274	1.181	47.5	20.4	121 W	43*	66
6 30	21 41.63	− 3 33.0	0.275	1.215	39.0	20.3	131 W	41	68
7 5	21 19.73	− 5 43.3	0.279	1.247	30.4	20.1	142 W	39	70
7 10	20 57.24	− 7 56.8	0.287	1.278	21.8	20.0	152 W	37	72
7 15	20 35.13	−10 6.4	0.301	1.306	13.8	19.9	162 W	35	74
7 20	20 14.41	−12 6.0	0.321	1.334	7.2	19.8	171 W	33	76
7 25	19 55.92	−13 51.4	0.346	1.359	5.9	19.9	172 E	31	78
7 30	19 40.19	−15 21.1	0.376	1.383	10.3	20.3	166 E	30	79
8 4	19 27.40	−16 35.6	0.411	1.405	15.3	20.8	159 E	28	81
8 9	19 17.45	−17 36.9	0.450	1.425	19.8	21.1	152 E	27	82
8 14	19 10.13	−18 27.0	0.492	1.444	23.7	21.5	145 E	27	82
8 19	19 5.16	−19 7.8	0.538	1.462	27.0	21.8	139 E	26	83

489885 2008 HY_{37}

6 10	1 24.70	−40 12.8	1.194	1.465	43.4	21.4	83 W	—	63*
6 15	1 40.77	−38 49.8	1.158	1.440	44.4	21.3	83 W	—	64*
6 20	1 56.27	−37 21.9	1.122	1.415	45.4	21.2	83 W	—	66*
6 25	2 11.19	−35 49.4	1.087	1.391	46.5	21.2	83 W	—	67*
6 30	2 25.56	−34 12.1	1.052	1.367	47.5	21.1	83 W	—	69*
7 5	2 39.40	−32 29.7	1.017	1.343	48.7	21.0	83 W	—	71*
7 10	2 52.76	−30 42.0	0.982	1.320	49.8	20.9	83 W	—	72*
7 15	3 5.67	−28 48.4	0.946	1.298	51.0	20.8	83 W	1*	74*
7 20	3 18.17	−26 48.2	0.911	1.276	52.2	20.7	83 W	4*	75*
7 25	3 30.32	−24 40.4	0.874	1.255	53.4	20.7	83 W	7*	76*
7 30	3 42.16	−22 23.8	0.838	1.235	54.7	20.6	83 W	11*	77*
8 4	3 53.77	−19 56.5	0.801	1.216	56.0	20.5	83 W	15*	77*
8 9	4 5.24	−17 16.8	0.764	1.198	57.2	20.4	83 W	19*	76*
8 14	4 16.65	−14 22.6	0.726	1.181	58.5	20.3	84 W	23*	75*
8 19	4 28.10	−11 11.2	0.689	1.166	59.7	20.2	84 W	27*	73*
8 24	4 39.69	− 7 39.7	0.653	1.153	60.9	20.1	85 W	32*	70*
8 29	4 51.54	− 3 45.0	0.617	1.141	61.9	19.9	85 W	37*	67*
9 3	5 3.84	+ 0 36.3	0.583	1.131	62.9	19.8	86 W	42*	63*
9 8	5 16.77	+ 5 26.6	0.552	1.123	63.6	19.7	87 W	48*	58*
9 13	5 30.53	+10 47.7	0.524	1.117	64.2	19.6	88 W	54*	53*
9 18	5 45.39	+16 39.0	0.500	1.113	64.5	19.5	89 W	60*	47*
9 23	6 1.65	+22 57.1	0.481	1.111	64.6	19.4	90 W	67*	41*
9 28	6 19.71	+29 34.5	0.467	1.111	64.4	19.4	91 W	74*	34*
9 30	6 27.55	+32 16.3	0.464	1.112	64.2	19.3	91 W	76*	31*
10 2	6 35.79	+34 58.4	0.461	1.113	64.1	19.3	91 W	79*	28*
10 4	6 44.46	+37 39.9	0.460	1.114	63.8	19.3	92 W	82*	26*
10 6	6 53.61	+40 19.6	0.459	1.116	63.6	19.3	92 W	84*	23*
10 8	7 3.28	+42 56.6	0.460	1.118	63.3	19.3	92 W	86*	20*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	489885 2008 HY_{37}				*(continuation)*				
	h m	° ′			°	m	°	°	°
10 10	7 13.51	+45 29.9	0.462	1.120	62.9	19.3	93 W	87*	18*
10 12	7 24.33	+47 58.4	0.464	1.123	62.6	19.3	93 W	86*	15*
10 14	7 35.79	+50 21.3	0.468	1.126	62.2	19.3	93 W	84*	12*
10 16	7 47.92	+52 37.7	0.473	1.129	61.8	19.3	93 W	82*	10*
10 18	8 0.76	+54 46.9	0.478	1.133	61.4	19.4	94 W	79*	8*
10 20	8 14.33	+56 48.3	0.484	1.137	60.9	19.4	94 W	77*	5*
10 22	8 28.63	+58 41.2	0.491	1.141	60.5	19.4	94 W	75*	3*
10 24	8 43.67	+60 25.4	0.499	1.145	60.0	19.4	94 W	74*	1*
10 26	8 59.43	+62 0.5	0.507	1.150	59.5	19.5	94 W	72*	—
10 28	9 15.86	+63 26.5	0.516	1.155	59.0	19.5	95 W	70*	—
10 30	9 32.88	+64 43.2	0.525	1.160	58.5	19.5	95 W	69*	—
11 1	9 50.40	+65 51.0	0.535	1.166	58.0	19.6	95 W	68*	—
11 3	10 8.29	+66 49.9	0.545	1.172	57.5	19.6	95 W	66*	—
11 5	10 26.41	+67 40.5	0.555	1.178	57.0	19.6	95 W	65*	—
11 7	10 44.59	+68 23.3	0.565	1.184	56.5	19.7	95 W	64*	—
11 8	10 53.66	+68 41.9	0.571	1.187	56.2	19.7	95 W	64*	—
11 9	11 2.68	+68 58.9	0.576	1.191	55.9	19.7	95 W	63*	—
11 10	11 11.63	+69 14.1	0.582	1.194	55.7	19.7	95 W	63*	—
11 11	11 20.50	+69 27.9	0.587	1.197	55.4	19.7	95 W	63*	—
11 12	11 29.27	+69 40.2	0.592	1.201	55.1	19.8	95 W	62*	—
11 13	11 37.92	+69 51.1	0.598	1.204	54.9	19.8	96 W	62*	—
11 14	11 46.43	+70 0.8	0.604	1.208	54.6	19.8	96 W	62*	—
11 15	11 54.80	+70 9.4	0.609	1.212	54.3	19.8	96 W	61*	—
11 16	12 3.01	+70 16.9	0.615	1.215	54.1	19.8	96 W	61*	—
11 17	12 11.05	+70 23.4	0.620	1.219	53.8	19.9	96 W	61*	—
11 19	12 26.59	+70 33.9	0.631	1.227	53.3	19.9	96 W	60*	—
11 21	12 41.38	+70 41.6	0.642	1.234	52.7	19.9	96 W	60*	—
11 23	12 55.39	+70 47.1	0.653	1.242	52.2	20.0	96 W	60*	—
11 25	13 8.63	+70 51.0	0.664	1.250	51.7	20.0	96 W	59*	—
11 27	13 21.09	+70 53.8	0.675	1.258	51.1	20.0	97 W	59*	—
11 29	13 32.80	+70 56.0	0.686	1.267	50.6	20.1	97 W	59*	—
12 1	13 43.80	+70 58.0	0.696	1.275	50.1	20.1	97 W	59*	—
12 3	13 54.11	+71 0.1	0.707	1.284	49.6	20.1	97 W	59*	—
12 5	14 3.78	+71 2.7	0.717	1.293	49.1	20.2	98 W	59*	—
12 7	14 12.83	+71 6.1	0.727	1.302	48.6	20.2	98 W	59*	—
12 9	14 21.29	+71 10.3	0.737	1.311	48.1	20.2	98 W	59*	—
12 11	14 29.21	+71 15.7	0.746	1.320	47.6	20.3	98 W	59*	—
12 13	14 36.60	+71 22.4	0.756	1.329	47.1	20.3	99 W	59*	—
12 15	14 43.48	+71 30.6	0.765	1.338	46.6	20.3	99 W	59*	—
12 17	14 49.88	+71 40.2	0.774	1.347	46.1	20.3	99 W	59*	—
12 22	15 3.83	+72 11.2	0.796	1.371	44.9	20.4	100 W	59*	—
12 27	15 14.99	+72 52.7	0.817	1.395	43.7	20.5	101 W	59*	—
1 1	15 23.32	+73 44.9	0.837	1.420	42.6	20.5	102 W	59*	—
1 6	15 28.57	+74 47.5	0.856	1.444	41.5	20.6	103 W	59*	—
1 11	15 30.14	+76 0.0	0.874	1.469	40.4	20.6	104 W	58*	—
1 16	15 26.88	+77 20.7	0.892	1.494	39.4	20.7	105 W	57*	—
	136818 Selqet								
6 10	1 24.94	+19 51.0	1.277	1.049	50.6	21.4	53 W	29*	37*
6 15	1 46.41	+21 56.0	1.254	1.022	51.8	21.4	52 W	30*	35*
6 20	2 9.27	+23 54.1	1.234	0.994	53.0	21.3	51 W	30*	33*
6 25	2 33.60	+25 42.3	1.217	0.965	54.1	21.2	50 W	31*	31*
6 30	2 59.45	+27 17.3	1.204	0.935	55.1	21.2	49 W	31*	29*
7 5	3 26.82	+28 35.7	1.194	0.903	55.9	21.1	47 W	31*	27*
7 10	3 55.63	+29 33.8	1.190	0.871	56.6	21.0	46 W	31*	25*
7 15	4 25.68	+30 8.3	1.189	0.838	57.1	21.0	44 W	31*	23*
7 20	4 56.69	+30 16.2	1.194	0.806	57.2	20.9	42 W	30*	21*
7 25	5 28.31	+29 55.8	1.204	0.773	56.9	20.8	40 W	28*	20*
7 30	6 0.14	+29 6.1	1.220	0.742	56.2	20.7	37 W	27*	18*
8 4	6 31.84	+27 47.8	1.240	0.711	54.9	20.6	35 W	25*	17*
8 9	7 3.10	+26 2.4	1.266	0.684	53.0	20.5	33 W	23*	15*
8 14	7 33.70	+23 52.9	1.296	0.659	50.5	20.4	30 W	21*	14*
8 19	8 3.53	+21 22.5	1.329	0.639	47.3	20.3	28 W	19*	13*
8 24	8 32.50	+18 35.5	1.366	0.624	43.6	20.2	25 W	16*	12*
8 29	9 0.63	+15 36.1	1.406	0.615	39.5	20.2	23 W	14*	11*
9 3	9 27.93	+12 28.8	1.446	0.613	35.1	20.1	20 W	11*	9*
9 8	9 54.44	+ 9 18.0	1.487	0.617	30.7	20.0	18 W	9*	8*
9 13	10 20.22	+ 6 7.4	1.528	0.628	26.5	20.0	16 W	7*	7*
9 18	10 45.29	+ 3 0.5	1.569	0.645	22.7	20.0	14 W	5*	6*
9 23	11 9.69	+ 0 0.0	1.608	0.667	19.3	20.0	13 W	3*	5*
9 28	11 33.46	− 2 51.9	1.647	0.693	16.4	20.1	11 W	1*	4*
10 3	11 56.66	− 5 33.8	1.685	0.722	14.0	20.1	10 W	—	4*
10 8	12 19.33	− 8 4.7	1.722	0.752	12.1	20.2	9 W	—	3*
10 18	13 3.28	−12 32.0	1.794	0.817	9.3	20.3	8 W	—	2*
10 28	13 45.61	−16 12.5	1.862	0.882	7.5	20.5	7 W	—	1*
11 7	14 26.56	−19 7.5	1.925	0.945	6.4	20.7	6 W	—	—
11 17	15 6.29	−21 19.7	1.982	1.004	5.9	20.9	6 W	—	—
11 27	15 44.86	−22 51.9	2.032	1.057	6.1	21.0	6 W	—	—
12 7	16 22.31	−23 47.2	2.074	1.105	6.8	21.2	8 W	—	1*
12 17	16 58.64	−24 8.5	2.107	1.147	8.0	21.4	9 W	—	2*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	66063 1998 RO_1								
	h m	° ′			°	m	°	°	°
6 10	1 42.09	+10 0.7	1.685	1.329	37.0	21.3	52 W	19*	42*
6 20	2 10.90	+13 58.5	1.537	1.241	41.2	21.1	54 W	24*	41*
6 30	2 45.42	+18 21.2	1.392	1.142	46.0	20.9	54 W	28*	38*
7 10	3 28.66	+23 4.6	1.259	1.030	51.5	20.6	52 W	32*	34*
7 20	4 24.91	+27 44.0	1.149	0.902	57.9	20.3	49 W	34*	27*
7 22	4 38.13	+28 34.4	1.132	0.875	59.2	20.2	48 W	34*	26*
7 24	4 52.09	+29 21.2	1.116	0.847	60.5	20.1	47 W	33*	25*
7 26	5 6.78	+30 3.5	1.101	0.818	61.8	20.1	45 W	33*	23*
7 28	5 22.21	+30 40.2	1.089	0.788	63.1	20.0	44 W	32*	21*
7 30	5 38.36	+31 10.3	1.079	0.758	64.3	19.9	42 W	32*	20*
8 1	5 55.20	+31 32.5	1.072	0.727	65.5	19.9	41 W	31*	18*
8 3	6 12.66	+31 45.6	1.067	0.695	66.5	19.8	39 W	30*	16*
8 5	6 30.67	+31 48.5	1.065	0.662	67.3	19.7	37 W	29*	15*
8 7	6 49.13	+31 40.3	1.066	0.629	68.0	19.6	35 W	27*	13*
8 9	7 7.92	+31 19.9	1.069	0.595	68.3	19.5	33 W	26*	11*
8 11	7 26.93	+30 46.6	1.076	0.560	68.3	19.4	31 W	24*	9*
8 13	7 46.03	+29 59.7	1.087	0.524	67.9	19.3	29 W	22*	8*
8 15	8 5.11	+28 58.9	1.100	0.489	66.8	19.1	26 W	20*	6*
8 17	8 24.10	+27 43.6	1.117	0.453	65.0	18.9	24 W	18*	4*
8 19	8 42.91	+26 13.5	1.137	0.417	62.2	18.7	21 W	15*	3*
8 24	9 29.05	+21 20.5	1.197	0.335	49.2	18.0	15 W	9*	—
8 29	10 13.83	+14 47.3	1.259	0.283	24.9	17.0	7 W	1*	—
9 3	10 56.18	+ 7 3.4	1.296	0.290	6.8	16.5	2 E	—	—
9 8	11 34.48	− 0 36.7	1.305	0.351	27.9	17.6	9 E	—	3*
9 10	11 48.75	− 3 28.4	1.305	0.384	33.4	18.0	12 E	—	6*
9 12	12 2.56	− 6 11.7	1.306	0.418	37.5	18.3	15 E	—	8*
9 14	12 16.02	− 8 46.3	1.307	0.454	40.5	18.6	17 E	—	10*
9 16	12 29.19	−11 12.4	1.310	0.490	42.6	18.8	19 E	—	12*
9 18	12 42.14	−13 30.2	1.314	0.526	44.1	19.0	21 E	—	14*
9 23	13 13.76	−18 39.1	1.332	0.613	45.6	19.4	26 E	—	18*
9 28	13 44.57	−22 59.1	1.361	0.696	45.3	19.7	30 E	—	22*
10 3	14 14.64	−26 33.4	1.399	0.774	44.1	20.0	33 E	—	25*
10 8	14 43.90	−29 25.6	1.446	0.848	42.4	20.2	35 E	—	27*
10 13	15 12.22	−31 40.1	1.499	0.917	40.4	20.4	37 E	—	29*
10 18	15 39.45	−33 21.6	1.557	0.982	38.4	20.6	38 E	—	30*
10 23	16 5.48	−34 34.9	1.619	1.042	36.4	20.7	38 E	—	31*
10 28	16 30.23	−35 24.3	1.684	1.100	34.4	20.9	39 E	—	32*
11 2	16 53.67	−35 53.7	1.750	1.153	32.4	21.0	39 E	—	32*
11 7	17 15.82	−36 6.7	1.817	1.204	30.5	21.1	38 E	—	32*
11 12	17 36.74	−36 6.3	1.884	1.251	28.7	21.2	37 E	—	31*
11 17	17 56.48	−35 54.8	1.951	1.296	26.9	21.3	36 E	—	30*
11 22	18 15.13	−35 34.3	2.017	1.337	25.2	21.4	35 E	1*	29*
11 27	18 32.78	−35 6.4	2.081	1.376	23.5	21.5	34 E	1*	28*
	497135 2004 QD_{20}								
6 10	1 48.86	+44 20.1	0.367	0.809	114.0	19.9	47 W	39*	13*
6 12	1 35.52	+44 44.2	0.378	0.828	108.9	19.7	50 W	42*	15*
6 14	1 23.37	+45 1.1	0.388	0.848	104.2	19.5	54 W	46*	16*
6 16	1 12.32	+45 12.7	0.399	0.869	99.8	19.4	57 W	49*	17*
6 18	1 2.26	+45 20.3	0.410	0.889	95.8	19.3	61 W	52*	18*
6 20	0 53.06	+45 24.8	0.421	0.911	92.0	19.3	64 W	55*	18*
6 22	0 44.60	+45 27.1	0.431	0.932	88.4	19.2	67 W	58*	18*
6 24	0 36.75	+45 27.5	0.442	0.954	85.0	19.2	69 W	60*	19*
6 26	0 29.42	+45 26.4	0.452	0.977	81.9	19.2	72 W	63*	19
6 28	0 22.51	+45 24.0	0.462	0.999	78.9	19.2	75 W	66*	19
6 30	0 15.93	+45 20.3	0.471	1.021	76.1	19.2	77 W	68*	19
7 2	0 9.61	+45 15.3	0.480	1.044	73.4	19.2	80 W	71*	19
7 4	0 3.50	+45 9.1	0.489	1.067	70.8	19.2	82 W	74*	19
7 6	23 57.54	+45 1.4	0.498	1.089	68.3	19.2	85 W	76*	19
7 8	23 51.68	+44 52.3	0.506	1.112	65.9	19.2	87 W	79*	19
7 10	23 45.90	+44 41.5	0.514	1.135	63.6	19.2	89 W	82*	19
7 15	23 31.59	+44 6.1	0.533	1.191	58.1	19.2	95 W	88*	20
7 20	23 17.30	+43 16.5	0.550	1.248	53.0	19.2	101 W	88	21
7 25	23 3.03	+42 10.0	0.568	1.304	48.0	19.3	107 W	87	22
7 30	22 48.96	+40 45.0	0.586	1.359	43.3	19.3	113 W	86	23
8 4	22 35.36	+39 1.5	0.606	1.413	38.8	19.3	119 W	84	25
8 9	22 22.52	+37 0.5	0.629	1.467	34.5	19.4	125 W	82	27
8 14	22 10.70	+34 44.3	0.655	1.520	30.6	19.4	130 W	80	29
8 19	22 0.14	+32 16.4	0.685	1.572	27.1	19.5	135 W	77	32
8 24	21 50.99	+29 40.9	0.719	1.623	24.2	19.6	139 E	75	34
8 29	21 43.34	+27 2.7	0.759	1.674	21.9	19.7	142 E	72	37
9 3	21 37.18	+24 25.9	0.804	1.723	20.3	19.8	144 E	69	40
9 8	21 32.43	+21 54.1	0.855	1.772	19.5	20.0	144 E	67	42
9 13	21 29.00	+19 30.0	0.911	1.819	19.3	20.2	143 E	65	44
9 18	21 26.79	+17 15.5	0.972	1.866	19.6	20.4	141 E	62	47
9 23	21 25.69	+15 11.9	1.039	1.912	20.2	20.6	139 E	60	49
9 28	21 25.59	+13 19.7	1.110	1.957	20.9	20.8	136 E	58	51
10 3	21 26.37	+11 39.0	1.186	2.002	21.7	21.0	132 E	57	52
10 8	21 27.90	+10 9.5	1.266	2.045	22.4	21.2	129 E	55	54
10 13	21 30.12	+ 8 50.7	1.351	2.088	23.1	21.4	125 E	54	55

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
455174 1999 TD_{207}									
6 10	1 49.92	+19 21.8	2.328	1.802	24.5	21.5	47 W	24*	34*
6 20	2 14.46	+22 41.9	2.234	1.770	26.3	21.4	50 W	29*	33*
6 30	2 40.33	+25 57.6	2.144	1.740	27.9	21.3	53 W	34*	32*
7 10	3 7.67	+29 5.5	2.059	1.714	29.5	21.2	56 W	39*	31*
7 20	3 36.58	+32 1.4	1.978	1.693	30.9	21.2	59 W	45*	29*
7 30	4 7.03	+34 41.2	1.902	1.675	32.2	21.1	62 W	50*	26*
8 9	4 38.90	+37 0.6	1.831	1.662	33.3	21.0	64 W	54*	24*
8 19	5 11.89	+38 55.8	1.764	1.654	34.3	20.9	67 W	59*	22*
8 29	5 45.48	+40 24.5	1.702	1.650	35.0	20.9	70 W	63*	21*
9 8	6 19.04	+41 25.7	1.642	1.652	35.6	20.8	73 W	66*	20*
9 18	6 51.82	+42 0.6	1.585	1.658	36.0	20.8	76 W	70*	19*
9 28	7 23.02	+42 12.2	1.529	1.669	36.2	20.7	80 W	73*	18*
10 8	7 51.97	+42 5.4	1.474	1.684	36.1	20.6	83 W	77*	18*
10 18	8 18.05	+41 46.0	1.419	1.704	35.8	20.6	88 W	82*	19*
10 28	8 40.73	+41 20.0	1.363	1.728	35.0	20.5	93 W	86*	20*
11 7	8 59.59	+40 53.2	1.308	1.756	33.9	20.4	99 W	86	21*
11 12	9 7.45	+40 41.2	1.280	1.771	33.2	20.4	102 W	86	22*
11 17	9 14.17	+40 30.7	1.253	1.787	32.3	20.3	105 W	86	22*
11 22	9 19.69	+40 22.1	1.226	1.804	31.3	20.3	109 W	85	23*
11 27	9 23.95	+40 15.6	1.200	1.821	30.1	20.2	112 W	85	23*
12 2	9 26.91	+40 11.1	1.176	1.839	28.7	20.1	116 W	85	24*
12 7	9 28.51	+40 8.5	1.153	1.858	27.2	20.1	121 W	85	24
12 12	9 28.69	+40 7.2	1.131	1.878	25.5	20.0	125 W	85	24
12 17	9 27.42	+40 6.4	1.113	1.898	23.6	19.9	130 W	85	24
12 22	9 24.73	+40 5.1	1.097	1.918	21.5	19.9	134 W	85	24
12 27	9 20.69	+40 1.9	1.085	1.939	19.3	19.8	139 W	85	24
1 1	9 15.40	+39 55.4	1.077	1.961	17.0	19.7	144 W	85	24
1 6	9 9.05	+39 44.1	1.074	1.983	14.8	19.7	149 W	85	24
1 11	9 1.87	+39 26.7	1.076	2.005	12.6	19.6	154 W	84	25
1 16	8 54.14	+39 2.3	1.084	2.028	10.7	19.6	157 W	84	25
152564 1992 HF									
6 10	2 22.47	+24 54.5	0.825	0.639	86.8	21.5	39 W	22*	25*
6 12	2 34.01	+25 5.5	0.856	0.630	84.7	21.4	38 W	21*	24*
6 14	2 45.42	+25 13.5	0.888	0.623	82.5	21.4	37 W	21*	23*
6 16	2 56.69	+25 18.7	0.919	0.617	80.1	21.4	37 W	20*	23*
6 18	3 7.85	+25 21.4	0.952	0.613	77.7	21.3	36 W	20*	22*
6 20	3 18.89	+25 21.7	0.984	0.610	75.1	21.3	35 W	19*	22*
6 25	3 46.00	+25 13.0	1.065	0.612	68.6	21.3	34 W	18*	21*
6 30	4 12.33	+24 52.5	1.146	0.624	62.1	21.3	33 W	17*	20*
7 5	4 37.73	+24 21.9	1.223	0.647	56.2	21.3	32 W	17*	20*
7 10	5 2.08	+23 42.7	1.297	0.678	51.0	21.4	31 W	16*	19*
488278 2016 TN_{55}									
6 10	2 34.52	− 3 37.8	2.222	1.701	25.9	21.5	47 W	—	41*
6 20	2 59.08	− 1 14.8	2.161	1.686	27.2	21.4	49 W	4*	43*
6 30	3 23.44	+ 1 2.2	2.101	1.674	28.5	21.4	52 W	9*	45*
7 10	3 47.57	+ 3 12.4	2.040	1.666	29.7	21.3	54 W	15*	47*
7 20	4 11.41	+ 5 15.3	1.978	1.661	30.9	21.3	57 W	21*	47*
7 30	4 34.87	+ 7 10.6	1.915	1.660	32.0	21.3	60 W	27*	48*
8 9	4 57.87	+ 8 58.8	1.850	1.662	33.0	21.2	63 W	33*	48*
8 19	5 20.31	+10 40.9	1.782	1.667	33.9	21.2	67 W	39*	47*
8 29	5 42.02	+12 18.4	1.712	1.676	34.7	21.1	71 W	45*	47*
9 8	6 2.87	+13 53.5	1.639	1.688	35.2	21.1	75 W	51*	46*
9 18	6 22.65	+15 29.2	1.563	1.703	35.5	21.0	80 W	56*	46*
9 28	6 41.11	+17 8.9	1.486	1.721	35.5	20.9	85 W	60*	45*
10 8	6 57.98	+18 57.4	1.407	1.742	35.0	20.8	91 W	64*	44*
10 18	7 12.88	+20 59.4	1.328	1.765	34.0	20.7	98 W	66	43*
10 28	7 25.33	+23 20.7	1.252	1.791	32.4	20.5	105 W	68	41*
11 7	7 34.78	+26 6.0	1.181	1.819	30.0	20.4	113 W	71	38
11 12	7 38.17	+27 38.8	1.148	1.833	28.5	20.3	118 W	73	36
11 17	7 40.54	+29 18.5	1.118	1.848	26.8	20.2	123 W	74	35
11 22	7 41.78	+31 4.7	1.091	1.864	24.9	20.1	127 W	76	33
11 27	7 41.84	+32 56.5	1.069	1.880	22.9	20.0	132 W	78	31
12 2	7 40.62	+34 52.6	1.050	1.896	20.7	19.9	137 W	80	29
12 7	7 38.09	+36 51.0	1.036	1.912	18.4	19.8	142 W	82	27
12 12	7 34.23	+38 49.2	1.028	1.929	16.2	19.8	147 W	84	25
12 17	7 29.09	+40 44.1	1.026	1.946	14.1	19.7	151 W	86	23
12 22	7 22.81	+42 32.6	1.030	1.964	12.5	19.7	155 W	88	21
12 27	7 15.62	+44 11.7	1.040	1.981	11.4	19.7	157 W	89	20
1 1	7 7.81	+45 39.0	1.057	1.999	11.1	19.7	157 W	89	18
1 6	6 59.74	+46 53.0	1.080	2.017	11.6	19.8	156 E	88	17
1 11	6 51.78	+47 52.7	1.110	2.035	12.7	19.9	153 E	87	16
1 16	6 44.32	+48 38.3	1.145	2.053	14.2	20.1	149 E	86	15
250697 2005 QY_{151}									
6 10	2 38.06	+15 51.7	2.126	1.453	25.0	21.4	37 W	13*	28*
6 20	3 7.40	+18 47.5	2.021	1.391	27.5	21.3	39 W	17*	29*
6 30	3 39.69	+21 37.6	1.918	1.326	30.0	21.1	41 W	21*	28*
7 10	4 15.55	+24 15.5	1.819	1.258	32.5	21.0	42 W	24*	26*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
250697 2005 QY_{151} *(continuation)*									
7 20	4 55.62	+26 31.4	1.729	1.188	34.9	20.8	42 W	27*	24*
7 30	5 40.27	+28 11.8	1.649	1.116	37.2	20.6	42 W	30*	22*
8 9	6 29.41	+28 59.3	1.583	1.045	39.0	20.4	40 W	31*	19*
8 14	6 55.44	+28 57.6	1.556	1.010	39.8	20.4	40 W	31*	17*
8 19	7 22.20	+28 36.2	1.535	0.975	40.3	20.3	39 W	30*	16*
8 24	7 49.45	+27 53.6	1.518	0.942	40.7	20.2	37 W	30*	14*
8 29	8 16.92	+26 48.9	1.506	0.910	40.7	20.1	36 W	29*	13*
9 3	8 44.35	+25 22.2	1.500	0.881	40.5	20.0	35 W	28*	11*
9 8	9 11.49	+23 34.1	1.499	0.853	40.0	19.9	33 W	26*	10*
9 13	9 38.14	+21 26.1	1.504	0.829	39.1	19.8	31 W	25*	9*
9 18	10 4.15	+19 0.6	1.513	0.809	37.8	19.8	30 W	23*	8*
9 23	10 29.42	+16 20.2	1.527	0.793	36.2	19.7	28 W	22*	7*
9 28	10 53.90	+13 28.0	1.546	0.781	34.3	19.6	26 W	20*	6*
10 3	11 17.61	+10 27.3	1.567	0.775	32.2	19.6	24 W	18*	5*
10 8	11 40.59	+ 7 21.3	1.592	0.774	29.9	19.6	23 W	16*	5*
10 13	12 2.90	+ 4 13.1	1.620	0.779	27.6	19.5	21 W	15*	4*
10 18	12 24.61	+ 1 5.6	1.649	0.789	25.4	19.5	20 W	13*	4*
10 23	12 45.79	− 1 58.6	1.680	0.803	23.3	19.6	19 W	12*	4*
10 28	13 6.50	− 4 57.2	1.712	0.822	21.5	19.6	18 W	11*	4*
11 2	13 26.82	− 7 48.5	1.745	0.845	19.8	19.6	17 W	10*	5*
11 7	13 46.81	−10 31.1	1.778	0.872	18.5	19.7	16 W	9*	5*
11 12	14 6.52	−13 3.9	1.812	0.901	17.4	19.8	16 W	8*	5*
11 17	14 25.97	−15 26.3	1.845	0.932	16.6	19.9	16 W	7*	6*
11 27	15 4.24	−19 37.7	1.910	0.999	15.7	20.1	16 W	6*	7*
12 7	15 41.70	−23 4.1	1.972	1.069	15.5	20.3	17 W	5*	9*
12 17	16 18.36	−25 46.9	2.030	1.140	15.9	20.5	19 W	4*	11*
12 27	16 54.06	−27 48.9	2.081	1.212	16.6	20.7	21 W	3*	14*
1 6	17 28.64	−29 13.9	2.125	1.281	17.6	20.9	23 W	3*	17*
1 16	18 1.94	−30 6.3	2.159	1.348	18.8	21.1	26 W	2*	20*
4450 Pan									
6 10	3 30.17	+14 30.3	0.458	0.635	135.8	20.8	26 W	3*	19*
6 15	3 13.08	+14 52.2	0.494	0.668	121.1	19.6	34 W	10*	27*
6 20	3 2.64	+15 29.9	0.535	0.708	108.8	19.1	41 W	16*	32*
6 25	2 57.23	+16 18.2	0.576	0.753	98.9	18.9	47 W	21*	35*
6 30	2 55.32	+17 12.5	0.615	0.801	90.8	18.8	52 W	26*	38*
7 5	2 55.71	+18 9.4	0.650	0.851	84.1	18.8	56 W	30*	40*
7 10	2 57.52	+19 6.7	0.680	0.902	78.6	18.8	60 W	35*	41*
7 15	3 0.12	+20 3.0	0.704	0.954	73.9	18.8	64 W	39*	41*
7 20	3 3.04	+20 57.4	0.724	1.006	69.8	18.9	68 W	44*	41*
7 25	3 5.91	+21 49.2	0.739	1.057	66.1	18.9	72 W	48*	41*
7 30	3 8.47	+22 38.3	0.749	1.108	62.8	18.9	76 W	52*	41*
8 4	3 10.49	+23 24.3	0.755	1.158	59.7	18.9	80 W	57*	41*
8 9	3 11.79	+24 7.2	0.757	1.207	56.8	19.0	85 W	61*	40
8 14	3 12.17	+24 46.6	0.756	1.254	53.9	19.0	89 W	65*	39
8 19	3 11.44	+25 22.1	0.752	1.301	50.9	18.9	94 W	68*	39
8 24	3 9.44	+25 53.2	0.746	1.346	47.9	18.9	99 W	71*	38
8 29	3 6.02	+26 19.0	0.738	1.390	44.8	18.9	104 W	71	38
9 3	3 1.06	+26 38.5	0.730	1.433	41.4	18.8	110 W	72	37
9 8	2 54.49	+26 50.4	0.722	1.475	37.9	18.8	116 W	72	37
9 13	2 46.28	+26 53.2	0.715	1.515	34.1	18.7	122 W	72	37
9 18	2 36.49	+26 45.2	0.710	1.554	30.0	18.6	129 W	72	37
9 23	2 25.31	+26 24.9	0.708	1.592	25.8	18.5	136 W	71	38
9 28	2 13.08	+25 51.4	0.711	1.629	21.4	18.5	144 W	71	38
10 3	2 0.20	+25 5.0	0.718	1.665	17.0	18.4	151 W	70	39
10 8	1 47.18	+24 6.8	0.732	1.699	12.8	18.3	158 W	69	40
10 13	1 34.49	+22 59.1	0.752	1.733	9.2	18.3	164 W	68	41
10 18	1 22.59	+21 45.1	0.779	1.765	6.9	18.3	168 E	67	42
10 23	1 11.85	+20 28.3	0.813	1.796	7.2	18.4	167 E	65	44
10 28	1 2.52	+19 12.5	0.854	1.826	9.3	18.7	163 E	64	45
11 2	0 54.70	+18 0.5	0.901	1.855	12.0	18.9	157 E	63	46
11 7	0 48.41	+16 54.4	0.954	1.883	14.7	19.2	151 E	62	47
11 12	0 43.60	+15 55.6	1.012	1.910	17.2	19.4	145 E	61	48
11 17	0 40.18	+15 4.9	1.076	1.936	19.4	19.7	139 E	60	49
11 27	0 37.08	+13 48.2	1.215	1.985	22.9	20.1	128 E	59	50
12 7	0 38.09	+13 2.3	1.366	2.030	25.2	20.5	119 E	58	51
12 17	0 42.33	+12 42.8	1.525	2.071	26.6	20.8	109 E	58	51*
12 27	0 49.12	+12 45.0	1.690	2.108	27.3	21.1	101 E	58	49*
1 6	0 57.86	+13 4.5	1.856	2.142	27.3	21.3	93 E	58	46*
424965 2009 AM_{15}									
6 10	3 33.38	+29 8.9	0.816	0.417	106.2	20.4	23 W	13*	10*
6 12	3 36.61	+27 15.4	0.853	0.421	100.1	20.2	24 W	13*	12*
6 14	3 41.20	+25 29.5	0.891	0.428	94.0	20.1	25 W	12*	14*
6 16	3 46.89	+23 51.9	0.930	0.438	88.2	20.0	26 W	11*	15*
6 18	3 53.45	+22 22.9	0.969	0.450	82.8	19.9	26 W	10*	17*
6 20	4 0.66	+21 2.0	1.007	0.464	77.8	19.9	27 W	9*	18*
6 22	4 8.35	+19 48.8	1.045	0.481	73.2	19.9	27 W	9*	19*
6 24	4 16.35	+18 42.5	1.082	0.499	69.0	19.9	27 W	8*	19*
6 26	4 24.56	+17 42.3	1.117	0.518	65.3	19.9	28 W	7*	20*

424965 2009 AM_{15} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
6 28	4 32.89	+16 47.4	1.152	0.537	62.0	20.0	28 W	7*	20*
6 30	4 41.25	+15 57.3	1.185	0.558	59.0	20.0	28 W	6*	21*
7 5	5 2.05	+14 8.4	1.262	0.611	52.8	20.2	29 W	5*	22*
7 10	5 22.33	+12 37.3	1.331	0.664	48.1	20.3	29 W	5*	23*
7 15	5 41.90	+11 18.3	1.394	0.716	44.5	20.5	30 W	5*	23*
7 20	6 0.70	+10 7.6	1.450	0.766	41.8	20.7	30 W	5*	24*
7 25	6 18.73	+ 9 2.7	1.500	0.813	39.6	20.8	31 W	6*	24*
7 30	6 36.04	+ 8 1.8	1.544	0.859	37.9	20.9	31 W	6*	25*
8 4	6 52.68	+ 7 3.7	1.583	0.901	36.6	21.1	32 W	7*	25*
8 9	7 8.73	+ 6 7.3	1.617	0.940	35.6	21.2	33 W	8*	26*
8 14	7 24.24	+ 5 12.2	1.646	0.977	34.9	21.3	33 W	10*	27*
8 19	7 39.28	+ 4 17.7	1.671	1.011	34.3	21.4	34 W	11*	27*
8 24	7 53.88	+ 3 23.6	1.691	1.042	34.0	21.4	35 W	12*	28*

496327 2013 MY_6

6 10	3 45.90	−14 53.8	1.954	1.404	29.9	21.4	44 W	—	30*
6 20	4 21.39	−12 47.2	1.879	1.328	31.4	21.2	43 W	—	31*
6 30	4 58.19	−10 29.0	1.816	1.249	32.5	21.1	41 W	—	31*
7 10	5 36.10	− 7 58.9	1.765	1.169	33.3	20.9	39 W	—	30*
7 20	6 14.98	− 5 17.0	1.726	1.088	33.5	20.7	36 W	—	28*
7 30	6 54.74	− 2 24.0	1.698	1.008	33.1	20.5	33 W	—	26*
8 9	7 35.50	+ 0 38.8	1.678	0.933	31.9	20.2	29 W	—	23*
8 19	8 17.64	+ 3 48.2	1.663	0.865	30.1	20.0	25 W	4*	19*
8 24	8 39.39	+ 5 23.6	1.657	0.836	29.0	19.9	24 W	6*	17*
8 29	9 1.70	+ 6 57.8	1.652	0.811	28.0	19.8	22 W	8*	15*
9 3	9 24.66	+ 8 29.4	1.647	0.790	27.0	19.7	21 W	9*	12*
9 8	9 48.32	+ 9 56.1	1.642	0.774	26.2	19.6	20 W	11*	9*
9 13	10 12.73	+11 15.6	1.638	0.765	25.8	19.6	19 W	12*	7*
9 18	10 37.87	+12 25.4	1.635	0.761	25.7	19.5	19 W	13*	4*
9 23	11 3.67	+13 23.0	1.633	0.764	26.0	19.6	19 W	13*	1*
9 28	11 30.00	+14 6.3	1.634	0.774	26.4	19.6	20 W	14*	—
10 3	11 56.67	+14 33.8	1.637	0.789	27.0	19.7	21 W	14*	—
10 8	12 23.45	+14 44.7	1.644	0.809	27.6	19.7	22 W	14*	—
10 13	12 50.09	+14 39.3	1.654	0.835	28.0	19.8	23 W	14*	—
10 18	13 16.34	+14 18.8	1.670	0.864	28.2	19.9	24 W	14*	—
10 23	13 41.98	+13 45.1	1.690	0.896	28.2	20.1	25 W	13*	—
10 28	14 6.82	+13 0.4	1.714	0.931	28.0	20.2	26 W	13*	—
11 2	14 30.74	+12 7.3	1.743	0.968	27.6	20.3	27 E	13*	—
11 7	14 53.66	+11 8.3	1.777	1.006	27.0	20.4	27 E	14*	—
11 12	15 15.54	+10 5.8	1.814	1.046	26.2	20.5	28 E	15*	—
11 17	15 36.38	+ 9 1.8	1.854	1.086	25.3	20.6	28 E	15*	—
11 22	15 56.19	+ 7 58.1	1.897	1.126	24.4	20.7	28 E	15*	—
11 27	16 15.01	+ 6 56.1	1.941	1.167	23.4	20.8	28 E	15*	—
12 2	16 32.90	+ 5 56.7	1.987	1.207	22.5	20.9	28 W	14*	—
12 7	16 49.93	+ 5 0.7	2.033	1.247	21.5	21.0	28 W	15*	—
12 12	17 6.15	+ 4 8.6	2.079	1.287	20.6	21.1	27 W	16*	—
12 17	17 21.61	+ 3 20.7	2.125	1.326	19.7	21.1	27 W	16*	—
12 22	17 36.37	+ 2 37.2	2.169	1.365	18.9	21.2	27 W	17*	—
12 27	17 50.49	+ 1 58.0	2.212	1.403	18.3	21.3	27 W	18*	—
1 1	18 4.00	+ 1 23.1	2.252	1.440	17.7	21.4	26 W	19*	—
1 6	18 16.96	+ 0 52.4	2.290	1.476	17.3	21.5	26 W	20*	—

228368 2000 WK_{10}

6 10	3 48.07	+12 9.7	0.743	0.441	115.7	20.5	23 W	—	17*
6 12	3 49.44	+12 11.5	0.792	0.442	107.3	20.1	25 W	—	18*
6 14	3 51.93	+12 23.7	0.842	0.447	99.4	19.9	26 W	1*	20*
6 16	3 55.38	+12 44.2	0.893	0.456	91.9	19.7	27 W	2*	20*
6 18	3 59.63	+13 10.9	0.942	0.468	85.1	19.6	27 W	3*	21*
6 20	4 4.51	+13 42.0	0.991	0.484	78.9	19.6	28 W	4*	21*
6 22	4 9.87	+14 15.9	1.038	0.503	73.4	19.6	28 W	4*	22*
6 24	4 15.59	+14 51.4	1.084	0.524	68.5	19.6	29 W	5*	22*
6 26	4 21.56	+15 27.4	1.128	0.547	64.2	19.6	29 W	6*	22*
6 28	4 27.71	+16 3.3	1.169	0.571	60.4	19.7	29 W	7*	22*
6 30	4 33.95	+16 38.5	1.209	0.597	57.0	19.8	29 W	8*	22*
7 5	4 49.71	+18 1.7	1.302	0.663	50.4	20.0	30 W	10*	22*
7 10	5 5.30	+19 16.0	1.383	0.733	45.7	20.2	31 W	12*	22*
7 15	5 20.49	+20 20.8	1.455	0.802	42.3	20.4	32 W	15*	22*
7 20	5 35.14	+21 16.7	1.518	0.871	39.8	20.6	33 W	17*	22*
7 25	5 49.22	+22 4.5	1.573	0.939	38.1	20.8	35 W	20*	22*
7 30	6 2.71	+22 45.2	1.621	1.005	36.8	21.0	36 W	22*	22*
8 4	6 15.61	+23 19.8	1.662	1.069	36.0	21.1	38 W	25*	22*
8 9	6 27.95	+23 49.2	1.697	1.131	35.3	21.3	40 W	28*	23*
8 14	6 39.74	+24 14.2	1.725	1.191	34.9	21.4	42 W	31*	23*

297300 1998 SC_{15}

6 10	3 57.02	+17 12.9	1.853	0.950	20.2	21.4	19 W	1*	12*
6 15	4 20.49	+17 35.9	1.826	0.917	20.2	21.3	18 W	—	12*
6 20	4 44.81	+17 49.1	1.802	0.885	20.0	21.2	17 W	—	11*
6 25	5 9.90	+17 51.8	1.781	0.856	19.6	21.1	16 W	—	10*
6 30	5 35.68	+17 42.9	1.764	0.828	18.8	21.0	15 W	—	9*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 5	6 2.04	+17 22.2	1.751	0.803	17.9	20.9	14 W	—	8*
7 10	6 28.83	+16 49.5	1.741	0.782	16.6	20.8	13 W	—	7*
7 15	6 55.91	+16 5.0	1.736	0.766	15.1	20.7	11 W	—	5*
7 20	7 23.12	+15 9.2	1.734	0.754	13.5	20.6	10 W	—	4*
7 25	7 50.28	+14 3.3	1.735	0.747	11.8	20.5	9 W	—	2*
7 30	8 17.23	+12 48.5	1.740	0.745	10.3	20.4	8 W	—	1*
8 4	8 43.82	+11 26.4	1.748	0.749	9.0	20.4	7 W	—	—
8 9	9 9.93	+ 9 58.4	1.759	0.759	8.1	20.4	6 W	—	—
8 14	9 35.46	+ 8 26.3	1.774	0.773	7.8	20.4	6 E	—	—
8 19	10 0.35	+ 6 51.7	1.791	0.792	7.9	20.5	6 E	—	—
8 24	10 24.53	+ 5 15.8	1.811	0.815	8.2	20.6	7 E	—	—
8 29	10 47.99	+ 3 40.2	1.833	0.841	8.6	20.7	7 E	—	—
9 3	11 10.71	+ 2 5.7	1.858	0.870	9.0	20.8	8 E	—	1*
9 8	11 32.71	+ 0 33.4	1.886	0.900	9.3	21.0	8 E	—	2*
9 13	11 54.01	− 0 56.0	1.915	0.933	9.4	21.1	9 E	—	3*
9 18	12 14.66	− 2 22.0	1.945	0.966	9.4	21.2	9 E	—	3*
9 23	12 34.67	− 3 44.0	1.978	1.000	9.3	21.3	9 E	—	3*
9 28	12 54.08	− 5 1.7	2.011	1.035	9.1	21.4	9 E	—	3*
10 3	13 12.94	− 6 14.9	2.045	1.070	8.7	21.5	9 E	—	3*

467351 2003 KO_2

6 10	4 1.22	+23 19.5	1.242	0.396	47.1	20.7	17 W	5*	8*
6 12	4 18.70	+22 48.0	1.265	0.380	42.0	20.5	15 W	3*	7*
6 14	4 36.41	+22 11.6	1.288	0.368	36.4	20.4	12 W	1*	5*
6 16	4 54.28	+21 31.0	1.310	0.360	30.5	20.2	10 W	—	4*
6 18	5 12.24	+20 47.1	1.329	0.356	24.6	20.0	8 W	—	2*
6 20	5 30.16	+20 0.6	1.346	0.357	19.4	19.9	7 W	—	1*
6 22	5 47.92	+19 12.5	1.361	0.363	15.7	19.8	6 W	—	—
6 24	6 5.43	+18 23.5	1.374	0.373	14.4	19.9	5 W	—	—
6 26	6 22.58	+17 34.3	1.384	0.387	15.5	20.0	6 E	—	—
6 28	6 39.30	+16 45.2	1.393	0.404	17.9	20.2	7 E	—	—
6 30	6 55.55	+15 56.7	1.401	0.423	20.8	20.4	9 E	—	1*
7 5	7 34.05	+13 58.3	1.418	0.478	27.2	20.9	12 E	—	6*
7 10	8 9.54	+12 5.0	1.436	0.537	31.4	21.3	16 E	—	10*
7 15	8 42.28	+10 16.9	1.457	0.597	33.8	21.6	19 E	—	13*
7 20	9 12.55	+ 8 34.1	1.481	0.654	34.9	21.9	22 E	—	16*

87684 2000 SY_2

6 10	4 21.83	+31 57.7	0.674	0.401	140.5	20.2	15 W	8*	—
6 11	4 15.29	+31 43.5	0.673	0.415	136.7	19.8	16 W	9*	2*
6 12	4 9.17	+31 25.4	0.673	0.430	132.8	19.4	18 W	11*	4*
6 13	4 3.51	+31 4.2	0.675	0.445	129.0	19.1	20 W	12*	6*
6 14	3 58.32	+30 40.6	0.678	0.460	125.3	18.8	22 W	13*	8*
6 15	3 53.62	+30 15.2	0.681	0.476	121.8	18.6	23 W	14*	10*
6 16	3 49.38	+29 48.6	0.685	0.491	118.5	18.5	25 W	15*	11*
6 17	3 45.60	+29 21.1	0.690	0.507	115.4	18.3	27 W	16*	13*
6 18	3 42.24	+28 53.3	0.695	0.522	112.4	18.2	28 W	17*	15*
6 19	3 39.29	+28 25.2	0.700	0.538	109.6	18.1	30 W	17*	16*
6 20	3 36.71	+27 57.3	0.706	0.553	107.0	18.1	31 W	18*	17*
6 22	3 32.55	+27 2.3	0.717	0.584	102.2	17.9	34 W	20*	20*
6 24	3 29.54	+26 9.3	0.729	0.614	98.0	17.9	37 W	21*	22*
6 26	3 27.50	+25 18.7	0.740	0.644	94.3	17.9	39 W	22*	25*
6 28	3 26.25	+24 30.6	0.751	0.673	90.9	17.8	41 W	23*	27*
6 30	3 25.66	+23 45.0	0.761	0.701	88.0	17.8	44 W	25*	28*
7 2	3 25.60	+23 1.6	0.771	0.729	85.3	17.8	46 W	26*	30*
7 4	3 25.99	+22 20.4	0.779	0.756	82.9	17.9	48 W	27*	32*
7 6	3 26.73	+21 41.1	0.787	0.782	80.8	17.9	49 W	28*	33*
7 8	3 27.78	+21 3.4	0.794	0.808	78.8	17.9	51 W	29*	35*
7 10	3 29.06	+20 27.0	0.800	0.833	77.0	17.9	53 W	30*	36*
7 15	3 33.05	+19 0.9	0.810	0.892	73.2	18.0	57 W	33*	39*
7 20	3 37.74	+17 38.8	0.814	0.947	70.0	18.0	61 W	35*	42*
7 25	3 42.76	+16 18.2	0.813	0.999	67.3	18.0	65 W	38*	44*
7 30	3 47.85	+14 56.6	0.807	1.047	64.9	18.0	69 W	40*	46*
8 4	3 52.81	+13 32.4	0.796	1.091	62.8	18.0	73 W	43*	49*
8 9	3 57.50	+12 3.6	0.782	1.132	60.8	18.0	77 W	45*	51*
8 14	4 1.76	+10 28.7	0.763	1.170	58.8	18.0	81 W	47*	53*
8 19	4 5.44	+ 8 45.8	0.742	1.204	56.9	17.9	85 W	48*	55*
8 24	4 8.40	+ 6 53.2	0.718	1.236	54.9	17.8	90 W	48*	57*
8 29	4 10.46	+ 4 49.3	0.692	1.265	52.8	17.8	94 W	48*	59
9 3	4 11.48	+ 2 32.5	0.665	1.291	50.5	17.6	99 W	47*	61
9 8	4 11.26	+ 0 1.2	0.637	1.314	48.1	17.5	104 W	45*	64
9 13	4 9.58	− 2 46.1	0.610	1.335	45.5	17.4	109 W	42	67
9 18	4 6.16	− 5 50.2	0.583	1.353	42.7	17.2	114 W	39	70
9 23	4 0.73	− 9 10.5	0.559	1.369	39.6	17.1	120 W	36	73
9 28	3 53.06	−12 44.8	0.538	1.382	36.6	16.9	125 W	32	77
10 3	3 42.91	−16 28.7	0.521	1.392	33.6	16.8	130 W	29	80
10 8	3 30.15	−20 14.8	0.509	1.400	31.0	16.7	134 W	25	84
10 13	3 14.80	−23 53.4	0.503	1.406	29.2	16.6	137 W	21	88
10 18	2 57.14	−27 12.9	0.502	1.409	28.4	16.6	138 W	18	89

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		87684 2000 SY_2 *(continuation)*							
	h m	° ′			°	m	°	°	°
10 20	2 49.56	−28 24.8	0.504	1.410	28.4	16.6	138 W	17	88
10 22	2 41.76	−29 31.3	0.507	1.410	28.6	16.6	137 W	15	86
10 24	2 33.81	−30 31.8	0.511	1.410	28.9	16.7	137 W	14	85
10 26	2 25.77	−31 26.1	0.515	1.410	29.5	16.7	136 W	14	85
10 28	2 17.70	−32 13.9	0.521	1.409	30.1	16.7	135 W	13	84
11 2	1 57.86	−33 44.7	0.538	1.405	32.2	16.9	131 E	11	82
11 7	1 39.23	−34 36.2	0.561	1.399	34.7	17.0	126 E	10	81
11 12	1 22.55	−34 53.1	0.587	1.390	37.3	17.2	122 E	10	81
11 17	1 8.28	−34 41.5	0.615	1.379	39.8	17.3	117 E	10	81
11 22	0 56.56	−34 7.9	0.646	1.366	42.2	17.5	112 E	11	82
11 27	0 47.34	−33 18.3	0.677	1.350	44.4	17.6	107 E	12	83
12 2	0 40.39	−32 17.3	0.709	1.331	46.4	17.7	102 E	13	84
12 7	0 35.45	−31 8.4	0.739	1.310	48.2	17.8	98 E	14	85
12 12	0 32.26	−29 54.1	0.769	1.286	49.8	17.9	94 E	15	86*
12 17	0 30.58	−28 35.9	0.796	1.259	51.4	18.0	89 E	16	83*
12 22	0 30.18	−27 15.2	0.821	1.230	52.9	18.1	85 E	18	79*
12 27	0 30.83	−25 52.8	0.843	1.198	54.3	18.1	82 E	19	74*
1 1	0 32.35	−24 29.3	0.861	1.163	55.8	18.1	78 E	21	69*
1 6	0 34.56	−23 4.8	0.875	1.124	57.3	18.1	74 E	22	65*
1 11	0 37.30	−21 39.5	0.885	1.083	59.0	18.1	71 E	23	61*
1 16	0 40.44	−20 13.2	0.889	1.038	60.8	18.1	67 E	25*	57*
		357439 2004 BL_{86}							
6 10	4 31.26	+10 37.1	1.856	0.923	17.6	21.5	16 W	—	9*
6 15	4 54.13	+11 57.5	1.856	0.912	16.5	21.4	15 W	—	8*
6 20	5 17.24	+13 11.8	1.859	0.903	15.3	21.4	14 W	—	7*
6 25	5 40.51	+14 18.9	1.865	0.899	14.0	21.3	12 W	—	6*
6 30	6 3.87	+15 17.9	1.874	0.898	12.5	21.3	11 W	—	4*
7 5	6 27.22	+16 8.1	1.886	0.900	11.0	21.2	10 W	—	3*
7 10	6 50.48	+16 48.8	1.900	0.906	9.4	21.2	8 W	—	2*
7 15	7 13.56	+17 19.8	1.916	0.916	7.9	21.2	7 W	—	1*
7 20	7 36.38	+17 40.9	1.934	0.929	6.5	21.2	6 W	—	—
7 25	7 58.85	+17 52.1	1.953	0.945	5.2	21.2	5 W	—	—
7 30	8 20.91	+17 53.9	1.974	0.964	4.2	21.2	4 W	—	—
8 4	8 42.49	+17 46.6	1.996	0.985	3.6	21.2	4 W	—	—
8 9	9 3.56	+17 30.9	2.019	1.008	3.5	21.3	3 W	—	—
8 14	9 24.07	+17 7.6	2.042	1.034	3.7	21.4	4 W	—	—
8 19	9 44.02	+16 37.3	2.066	1.060	4.3	21.5	5 W	—	—
		513572 2010 VX_{39}							
6 10	4 36.08	+20 27.7	2.072	1.082	8.5	21.4	9 W	—	3*
6 15	4 57.03	+21 36.5	2.060	1.067	8.3	21.4	9 W	—	2*
6 20	5 18.51	+22 35.8	2.050	1.056	8.1	21.3	8 W	—	2*
6 25	5 40.44	+23 24.7	2.043	1.047	7.9	21.3	8 W	—	1*
6 30	6 2.73	+24 2.1	2.038	1.040	7.6	21.3	8 W	—	—
7 5	6 25.25	+24 27.4	2.036	1.037	7.4	21.3	7 W	—	—
7 10	6 47.91	+24 40.2	2.037	1.036	7.1	21.2	7 W	—	—
7 15	7 10.55	+24 40.2	2.040	1.039	6.9	21.2	7 W	—	—
7 20	7 33.06	+24 27.6	2.046	1.044	6.7	21.3	7 W	1*	—
7 25	7 55.31	+24 2.9	2.053	1.052	6.6	21.3	7 W	1*	—
7 30	8 17.18	+23 26.7	2.064	1.063	6.6	21.3	7 W	1*	—
8 4	8 38.57	+22 39.9	2.076	1.076	6.5	21.3	7 W	1*	—
8 9	8 59.41	+21 43.6	2.090	1.092	6.6	21.4	7 W	1*	—
8 14	9 19.66	+20 38.9	2.107	1.109	6.6	21.4	7 W	1*	—
		162120 1998 SH_{36}							
6 10	4 42.27	+21 54.6	1.639	0.645	11.5	21.3	7 W	—	1*
6 15	5 14.44	+22 35.2	1.598	0.591	7.9	20.9	5 W	—	—
6 20	5 48.90	+22 52.3	1.557	0.542	2.8	20.4	2 W	—	—
6 25	6 25.38	+22 41.0	1.516	0.502	4.7	20.3	2 E	—	—
6 30	7 3.32	+21 57.5	1.473	0.476	13.6	20.5	6 E	—	—
7 5	7 41.89	+20 40.6	1.427	0.467	23.6	20.7	11 E	—	4*
7 10	8 20.19	+18 52.5	1.380	0.477	33.5	21.0	15 E	1*	8*
7 15	8 57.46	+16 38.2	1.334	0.504	42.0	21.3	19 E	2*	13*
		483508 2003 CR_1							
6 10	4 51.20	+27 29.4	1.788	0.789	8.7	21.4	7 W	1*	—
6 15	5 19.68	+27 41.2	1.807	0.802	6.9	21.4	5 W	—	—
6 20	5 47.61	+27 30.4	1.828	0.819	5.5	21.4	4 W	—	—
6 25	6 14.71	+26 59.1	1.852	0.840	4.4	21.4	4 W	—	—
6 30	6 40.76	+26 9.5	1.879	0.866	3.7	21.5	3 E	—	—
		168315 1982 RA_1							
6 10	5 16.91	+19 39.1	3.620	2.607	1.3	21.5	3 E	—	—
6 20	5 34.26	+19 49.1	3.638	2.629	2.3	21.6	6 W	—	—
6 30	5 51.39	+19 51.1	3.641	2.651	4.2	21.7	11 W	—	5*
7 10	6 8.22	+19 45.5	3.630	2.670	6.2	21.8	16 W	2*	9*
7 20	6 24.68	+19 32.6	3.605	2.689	8.1	21.9	22 W	8*	14*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		283889 2004 BL_{89}							
	h m	° ′			°	m	°	°	°
6 10	5 22.61	+24 55.8	3.514	2.501	1.2	21.5	3 E	—	—
6 20	5 42.01	+24 56.6	3.489	2.476	1.4	21.5	3 W	—	—
6 30	6 1.65	+24 48.4	3.452	2.450	3.4	21.6	8 W	—	—
7 10	6 21.45	+24 30.9	3.402	2.423	5.5	21.6	13 W	4*	4*
7 20	6 41.34	+24 3.6	3.341	2.396	7.6	21.7	18 W	8*	8*
		511600 2015 AZ_{245}							
6 10	5 36.34	+ 1 44.7	3.001	2.094	10.5	21.5	22 E	—	9*
6 20	5 52.01	+ 0 51.5	2.911	2.011	11.2	21.3	23 W	—	5*
6 30	6 8.75	− 0 17.4	2.804	1.924	12.6	21.2	24 W	—	11*
7 10	6 26.71	− 1 44.6	2.679	1.833	14.6	21.1	27 W	—	16*
7 20	6 46.13	− 3 33.1	2.541	1.737	17.0	20.9	30 W	—	21*
7 30	7 7.36	− 5 46.2	2.392	1.636	19.7	20.8	33 W	—	25*
8 9	7 30.89	− 8 27.6	2.234	1.529	22.7	20.6	36 W	—	28*
8 19	7 57.51	−11 40.7	2.074	1.418	26.0	20.3	38 W	—	31*
8 29	8 28.30	−15 27.3	1.916	1.300	29.4	20.1	39 W	—	32*
9 3	8 45.73	−17 32.3	1.840	1.239	31.1	19.9	39 W	—	32*
9 8	9 4.85	−19 43.8	1.768	1.176	32.9	19.8	39 W	—	32*
9 13	9 25.94	−21 59.5	1.700	1.113	34.6	19.6	39 W	—	31*
9 18	9 49.31	−24 15.9	1.638	1.047	36.2	19.4	38 W	—	30*
9 23	10 15.25	−26 27.8	1.583	0.981	37.6	19.3	37 W	—	28*
9 28	10 43.98	−28 27.7	1.536	0.913	38.7	19.1	35 W	—	25*
10 3	11 15.58	−30 6.5	1.498	0.845	39.4	18.9	32 W	—	22*
10 8	11 49.83	−31 13.5	1.470	0.778	39.4	18.7	30 W	—	18*
10 10	12 4.16	−31 28.9	1.462	0.751	39.1	18.6	28 W	—	17*
10 12	12 18.77	−31 36.8	1.455	0.724	38.7	18.5	27 W	—	15*
10 14	12 33.61	−31 36.6	1.450	0.698	38.0	18.4	26 W	—	13*
10 16	12 48.59	−31 27.8	1.446	0.673	37.2	18.2	24 W	—	11*
10 18	13 3.64	−31 10.0	1.444	0.648	36.1	18.1	23 W	—	10*
10 20	13 18.67	−30 42.8	1.443	0.624	34.8	18.0	21 W	—	8*
10 22	13 33.61	−30 6.2	1.443	0.602	33.2	17.9	19 W	—	6*
10 24	13 48.38	−29 20.0	1.444	0.580	31.3	17.8	18 W	—	4*
10 26	14 2.90	−28 24.5	1.445	0.561	29.2	17.6	16 E	—	2*
10 28	14 17.12	−27 19.8	1.447	0.543	26.9	17.5	14 E	—	2*
11 2	14 50.97	−24 1.8	1.452	0.510	21.0	17.2	11 E	—	3*
11 7	15 22.08	−20 1.4	1.453	0.496	17.5	17.0	9 E	—	3*
11 12	15 50.47	−15 34.3	1.448	0.504	20.1	17.1	10 E	2*	2*
11 17	16 16.60	−10 55.9	1.437	0.532	26.4	17.4	14 E	8*	—
11 22	16 41.15	− 6 18.0	1.421	0.577	32.9	17.7	18 E	12*	—
11 27	17 4.82	− 1 46.8	1.404	0.632	38.1	18.1	23 E	17*	—
12 2	17 28.17	+ 2 34.5	1.388	0.694	41.8	18.3	28 E	21*	—
12 7	17 51.62	+ 6 44.8	1.377	0.759	44.1	18.6	32 E	25*	—
12 12	18 15.43	+10 43.1	1.371	0.827	45.4	18.8	37 E	29*	—
12 17	18 39.74	+14 28.2	1.372	0.895	45.7	19.0	41 E	32*	—
12 22	19 4.57	+17 58.3	1.381	0.962	45.4	19.2	44 E	35*	—
12 27	19 29.84	+21 11.7	1.398	1.029	44.7	19.3	47 E	37*	—
1 1	19 55.41	+24 6.7	1.425	1.095	43.5	19.4	50 E	40*	—
1 6	20 21.07	+26 42.1	1.460	1.159	42.2	19.6	52 E	42*	—
1 11	20 46.59	+28 57.6	1.503	1.222	40.7	19.7	54 E	43*	—
1 16	21 11.73	+30 53.7	1.555	1.283	39.1	19.9	55 E	44*	—
		133577 2003 UB_{50}							
6 10	6 2.71	+22 0.7	3.520	2.533	4.5	21.4	11 E	—	5*
6 20	6 21.20	+22 5.3	3.558	2.550	2.5	21.4	6 E	—	—
6 30	6 39.57	+22 1.5	3.583	2.566	0.5	21.2	1 E	—	—
7 10	6 57.73	+21 49.7	3.593	2.581	1.8	21.4	5 W	—	—
7 20	7 15.65	+21 30.4	3.591	2.596	3.9	21.5	10 W	1*	2*
		120708 1997 MA_2							
6 10	6 17.32	+21 53.8	3.346	2.378	6.3	21.5	15 E	2*	7*
6 20	6 37.24	+21 46.6	3.407	2.412	4.1	21.4	10 E	—	3*
6 30	6 56.79	+21 30.0	3.456	2.445	2.1	21.4	5 E	—	—
7 10	7 15.91	+21 4.7	3.493	2.477	0.5	21.3	1 W	—	—
7 20	7 34.56	+20 31.7	3.518	2.508	2.2	21.5	6 W	—	—
		184266 2004 VW_{14}							
6 10	6 17.79	+23 41.4	1.843	0.899	16.7	21.4	15 E	4*	7*
6 15	6 42.79	+23 37.1	1.811	0.878	18.3	21.4	16 E	4*	8*
6 20	7 8.41	+23 17.1	1.782	0.861	20.0	21.3	17 E	4*	9*
6 25	7 34.47	+22 40.5	1.756	0.851	21.8	21.3	18 E	5*	10*
6 30	8 0.74	+21 47.0	1.734	0.846	23.6	21.3	19 E	5*	12*
7 5	8 27.01	+20 37.1	1.715	0.848	25.4	21.4	21 E	6*	13*
7 10	8 53.06	+19 11.5	1.701	0.855	27.0	21.4	22 E	6*	15*
7 15	9 18.73	+17 32.0	1.692	0.869	28.5	21.5	24 E	7*	17*
		307064 2002 AR_5							
6 10	6 21.19	+18 47.2	2.796	1.844	8.9	21.5	16 E	1*	10*
6 20	6 44.90	+19 24.7	2.828	1.847	6.7	21.4	12 E	—	6*
6 30	7 8.71	+19 47.9	2.850	1.850	4.5	21.3	8 E	—	2*
7 10	7 32.57	+19 57.2	2.863	1.850	2.3	21.2	4 E	—	—

307064 2002 AR_5 *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 20	7 56.44	+19 53.5	2.866	1.850	0.5	21.0	1 W	—	—
7 30	8 20.28	+19 37.3	2.859	1.848	2.3	21.2	4 W	—	—
8 9	8 44.05	+19 9.9	2.842	1.845	4.6	21.3	8 W	2*	—
8 19	9 7.75	+18 32.1	2.816	1.841	6.8	21.4	12 W	6*	1*
8 29	9 31.38	+17 45.0	2.780	1.836	9.1	21.4	17 W	10*	3*
9 8	9 54.93	+16 50.0	2.735	1.829	11.3	21.5	21 W	14*	5*

357022 1999 YG_3

6 10	6 28.67	+23 8.4	1.952	1.028	17.1	21.4	17 E	5*	9*
6 20	7 4.58	+19 25.8	1.910	0.980	17.3	21.3	17 E	1*	10*
6 30	7 40.33	+15 5.8	1.861	0.938	18.6	21.2	17 E	—	11*
7 10	8 16.25	+10 11.9	1.807	0.903	20.9	21.1	18 E	—	12*
7 20	8 52.86	+ 4 49.3	1.751	0.877	24.2	21.1	21 E	—	13*
7 30	9 30.82	− 0 53.6	1.695	0.864	27.8	21.1	23 E	—	14*
8 9	10 10.83	− 6 44.8	1.645	0.863	31.4	21.1	26 E	—	16*
8 19	10 53.60	−12 28.3	1.604	0.875	34.5	21.2	29 E	—	18*
8 29	11 39.53	−17 44.5	1.578	0.899	36.6	21.2	32 E	—	21*
9 8	12 28.46	−22 12.6	1.571	0.933	37.6	21.3	34 E	—	24*
9 18	13 19.54	−25 35.2	1.585	0.974	37.4	21.5	36 E	—	27*

177651 2004 XM_{14}

6 10	6 44.45	+35 34.2	2.535	1.653	14.1	21.4	23 E	16*	5*
6 20	7 8.01	+35 50.2	2.504	1.588	12.7	21.2	20 E	14*	2*
6 30	7 33.16	+35 53.4	2.453	1.516	11.7	21.1	18 E	12*	—
7 10	8 0.07	+35 41.1	2.383	1.436	11.5	20.9	16 E	10*	—
7 20	8 28.97	+35 9.1	2.295	1.347	12.0	20.7	16 E	10*	—
7 30	9 0.13	+34 11.5	2.190	1.250	13.3	20.5	16 E	9*	—
8 4	9 16.64	+33 30.5	2.131	1.197	14.2	20.3	17 E	9*	—
8 9	9 33.84	+32 39.7	2.070	1.142	15.3	20.2	17 E	9*	—
8 14	9 51.77	+31 37.2	2.005	1.084	16.5	20.1	18 E	10*	—
8 19	10 10.48	+30 21.0	1.937	1.023	17.8	19.9	18 E	10*	—
8 24	10 30.01	+28 48.5	1.866	0.959	19.2	19.7	18 E	10*	—
8 29	10 50.39	+26 56.4	1.794	0.892	20.7	19.5	18 E	10*	—
9 3	11 11.67	+24 41.0	1.720	0.822	22.3	19.3	18 E	10*	—
9 8	11 33.88	+21 57.2	1.646	0.749	23.9	19.1	18 E	10*	—
9 13	11 57.01	+18 39.1	1.570	0.673	25.6	18.8	17 E	10*	—
9 18	12 21.04	+14 39.5	1.494	0.596	27.6	18.5	16 E	10*	—
9 23	12 45.83	+ 9 49.3	1.417	0.518	30.1	18.1	15 E	9*	—
9 28	13 11.05	+ 3 58.4	1.338	0.444	34.2	17.8	14 E	8*	3*
10 3	13 35.84	− 3 1.6	1.253	0.384	41.8	17.5	15 E	5*	7*
10 8	13 58.54	−11 7.7	1.160	0.350	54.7	17.5	17 E	1*	10*
10 10	14 6.54	−14 35.1	1.121	0.348	60.9	17.6	18 E	—	12*
10 12	14 13.76	−18 5.8	1.081	0.352	67.2	17.8	19 E	—	13*
10 14	14 20.17	−21 37.0	1.041	0.363	73.1	17.9	20 E	—	14*
10 16	14 25.84	−25 6.4	1.002	0.379	78.4	18.1	22 E	—	14*
10 18	14 30.86	−28 32.5	0.964	0.400	82.8	18.3	23 E	—	15*
10 20	14 35.39	−31 54.7	0.928	0.424	86.4	18.5	25 E	—	15*
10 22	14 39.56	−35 13.0	0.894	0.451	89.2	18.7	27 E	—	15*
10 24	14 43.56	−38 27.7	0.861	0.480	91.2	18.8	29 E	—	15*
10 26	14 47.52	−41 39.7	0.831	0.510	92.5	18.9	31 E	—	16*
10 28	14 51.62	−44 49.5	0.803	0.541	93.3	19.0	33 E	—	16*
10 30	14 56.03	−47 58.0	0.776	0.572	93.6	19.1	35 E	—	16*
11 1	15 0.95	−51 5.9	0.751	0.604	93.6	19.1	37 E	—	17*
11 3	15 6.63	−54 13.9	0.728	0.635	93.2	19.1	40 E	—	17*
11 5	15 13.38	−57 22.2	0.706	0.666	92.5	19.1	42 E	—	18*
11 7	15 21.63	−60 31.3	0.686	0.697	91.6	19.1	45 E	—	19*
11 8	15 26.50	−62 6.0	0.676	0.712	91.0	19.1	46 E	—	20*
11 9	15 32.01	−63 40.7	0.667	0.727	90.4	19.1	47 E	—	20*
11 10	15 38.28	−65 15.4	0.658	0.742	89.8	19.1	49 E	—	21*
11 11	15 45.47	−66 49.8	0.650	0.757	89.1	19.1	50 E	—	22*
11 12	15 53.79	−68 23.7	0.642	0.772	88.4	19.1	51 E	—	22*
11 13	16 3.51	−69 56.6	0.635	0.786	87.6	19.1	53 E	—	23*
11 14	16 14.96	−71 28.1	0.628	0.801	86.8	19.1	54 E	—	24*
11 15	16 28.59	−72 57.3	0.621	0.815	85.9	19.0	55 E	—	25*
11 16	16 44.92	−74 23.3	0.615	0.830	85.0	19.0	57 E	—	26*
11 17	17 4.66	−75 44.5	0.609	0.844	84.1	19.0	58 E	—	27*
11 18	17 28.57	−76 59.0	0.604	0.858	83.2	19.0	60 E	—	28*
11 19	17 57.44	−78 4.0	0.599	0.872	82.2	19.0	61 E	—	29*
11 20	18 31.74	−78 56.2	0.594	0.886	81.2	18.9	62 E	—	30*
11 21	19 11.21	−79 31.8	0.590	0.899	80.2	18.9	64 E	—	31*
11 22	19 54.35	−79 47.2	0.587	0.913	79.1	18.9	65 E	—	33*
11 23	20 38.43	−79 40.4	0.584	0.926	78.1	18.9	67 E	—	34*
11 24	21 20.39	−79 11.7	0.581	0.940	77.0	18.9	68 E	—	35*
11 25	21 57.92	−78 23.5	0.579	0.953	75.9	18.9	69 E	—	37*
11 26	22 30.08	−77 19.3	0.578	0.966	74.8	18.8	71 E	—	38*
11 27	22 56.96	−76 2.6	0.577	0.979	73.7	18.8	72 E	—	40*
11 28	23 19.22	−74 36.5	0.576	0.992	72.6	18.8	74 E	—	41*
11 29	23 37.64	−73 3.4	0.576	1.004	71.5	18.8	75 E	—	43
11 30	23 52.98	−71 25.3	0.577	1.017	70.3	18.8	76 E	—	45
12 1	0 5.87	−69 43.5	0.578	1.030	69.2	18.8	78 E	—	46

177651 2004 XM_{14} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 2	0 16.79	−67 59.1	0.580	1.042	68.1	18.8	79 E	—	48
12 3	0 26.16	−66 13.0	0.582	1.054	67.1	18.8	80 E	—	50
12 4	0 34.25	−64 25.8	0.585	1.066	66.0	18.8	81 E	—	52
12 5	0 41.33	−62 38.0	0.588	1.078	64.9	18.8	82 E	—	53
12 6	0 47.56	−60 50.2	0.592	1.090	63.9	18.8	83 E	—	55
12 7	0 53.10	−59 2.6	0.596	1.102	62.9	18.8	85 E	—	57
12 8	0 58.07	−57 15.6	0.601	1.113	61.9	18.8	86 E	—	59
12 9	1 2.55	−55 29.4	0.607	1.125	60.9	18.8	87 E	—	61
12 10	1 6.62	−53 44.4	0.613	1.136	60.0	18.9	87 E	—	62
12 11	1 10.34	−52 0.6	0.619	1.148	59.0	18.9	88 E	—	64
12 12	1 13.76	−50 18.2	0.626	1.159	58.2	18.9	89 E	—	66
12 13	1 16.93	−48 37.5	0.634	1.170	57.3	18.9	90 E	—	67
12 14	1 19.88	−46 58.4	0.641	1.181	56.5	18.9	91 E	—	69
12 15	1 22.64	−45 21.2	0.650	1.192	55.6	19.0	91 E	—	71
12 16	1 25.23	−43 45.8	0.659	1.203	54.9	19.0	92 E	1	72
12 17	1 27.67	−42 12.4	0.668	1.213	54.1	19.0	93 E	3	74
12 19	1 32.19	−39 11.6	0.688	1.234	52.7	19.1	94 E	6	77
12 21	1 36.30	−36 19.0	0.709	1.255	51.4	19.1	94 E	9	80
12 23	1 40.10	−33 34.7	0.731	1.275	50.2	19.2	95 E	11	82
12 25	1 43.64	−30 58.6	0.755	1.295	49.1	19.3	95 E	14	85
12 27	1 46.99	−28 30.5	0.781	1.314	48.1	19.4	96 E	16	87
12 29	1 50.17	−26 10.1	0.807	1.334	47.2	19.4	96 E	19	90*
12 31	1 53.22	−23 57.0	0.835	1.352	46.3	19.5	96 E	21	88*
1 2	1 56.16	−21 51.0	0.863	1.371	45.6	19.6	96 E	23	85*
1 4	1 59.02	−19 51.6	0.893	1.389	44.8	19.7	95 E	25	83*
1 6	2 1.82	−17 58.4	0.923	1.406	44.2	19.8	95 E	27	80*
1 8	2 4.56	−16 11.2	0.954	1.423	43.5	19.8	95 E	29	78*
1 10	2 7.26	−14 29.3	0.985	1.440	42.9	19.9	94 E	31	76*
1 12	2 9.93	−12 52.7	1.018	1.457	42.4	20.0	93 E	32	74*
1 14	2 12.58	−11 20.8	1.051	1.473	41.8	20.1	93 E	34	72*

192642 1999 RD_{32}

6 10	7 1.33	+24 3.8	3.298	2.413	10.1	21.5	25 E	11*	15*
6 20	7 17.65	+23 25.8	3.261	2.323	8.2	21.3	19 E	6*	10*
6 30	7 34.91	+22 39.3	3.206	2.230	6.1	21.0	13 E	2*	6*
7 10	7 53.12	+21 42.8	3.135	2.134	3.9	20.8	8 E	—	2*
7 20	8 12.29	+20 35.0	3.048	2.034	1.7	20.5	3 E	—	—
7 30	8 32.49	+19 14.2	2.946	1.932	0.7	20.2	1 W	—	—
8 9	8 53.79	+17 38.5	2.832	1.826	3.1	20.2	6 W	—	—
8 19	9 16.37	+15 45.7	2.706	1.716	5.6	20.1	10 W	2*	1*
8 29	9 40.42	+13 33.1	2.570	1.602	8.1	19.9	13 W	6*	3*
9 8	10 6.24	+10 57.8	2.428	1.485	10.7	19.8	16 W	8*	5*
9 18	10 34.26	+ 7 56.1	2.283	1.364	13.2	19.5	18 W	10*	7*
9 28	11 5.04	+ 4 24.3	2.139	1.240	15.6	19.3	19 W	12*	8*
10 8	11 39.35	+ 0 19.6	2.000	1.113	17.7	19.0	20 W	12*	8*
10 18	12 18.24	− 4 18.8	1.873	0.986	19.2	18.6	19 W	10*	8*
10 23	12 39.81	− 6 49.3	1.815	0.923	19.6	18.4	18 W	9*	8*
10 28	13 3.03	− 9 25.4	1.763	0.861	19.5	18.2	17 W	8*	7*
11 2	13 28.11	−12 4.6	1.718	0.803	18.8	18.0	15 W	6*	6*
11 7	13 55.22	−14 43.2	1.679	0.748	17.4	17.7	13 W	4*	5*
11 12	14 24.51	−17 16.3	1.647	0.699	15.2	17.4	11 W	2*	3*
11 17	14 56.02	−19 37.5	1.623	0.658	12.1	17.2	8 W	—	1*
11 22	15 29.60	−21 39.8	1.606	0.628	8.1	16.9	5 W	—	—
11 27	16 4.91	−23 16.1	1.596	0.612	4.3	16.6	3 W	—	—
12 2	16 41.33	−24 20.5	1.592	0.610	4.9	16.7	3 E	—	—
12 7	17 18.07	−24 49.9	1.596	0.624	9.1	16.9	6 E	—	—
12 12	17 54.27	−24 44.2	1.607	0.651	13.2	17.2	9 E	—	2*
12 17	18 29.19	−24 6.5	1.626	0.690	16.5	17.4	11 E	1*	4*
12 22	19 2.28	−23 1.8	1.652	0.737	18.8	17.7	14 E	3*	6*
12 27	19 33.21	−21 36.2	1.686	0.791	20.3	17.9	16 E	6*	7*
1 1	20 1.88	−19 55.5	1.728	0.849	21.0	18.2	18 E	8*	8*
1 6	20 28.31	−18 5.0	1.777	0.910	21.0	18.4	19 E	10*	9*
1 11	20 52.64	−16 9.0	1.831	0.973	20.7	18.6	20 E	11*	9*
1 16	21 15.04	−14 10.8	1.891	1.036	20.0	18.8	21 E	12*	9*

458062 2009 YO

6 10	7 39.90	+ 0 33.4	1.414	0.948	45.8	21.3	42 E	1*	36*
6 15	7 53.81	+ 0 7.4	1.364	0.896	48.1	21.1	41 E	—	35*
6 20	8 8.56	− 0 17.2	1.308	0.844	51.0	21.0	40 E	—	34*
6 25	8 24.22	− 0 38.2	1.245	0.791	54.6	20.9	39 E	—	33*
6 30	8 40.87	− 0 51.9	1.176	0.740	59.0	20.7	39 E	—	32*
7 5	8 58.55	− 0 52.5	1.101	0.691	64.5	20.6	38 E	—	31*
7 10	9 17.28	− 0 31.8	1.021	0.646	71.2	20.5	37 E	—	31*
7 12	9 25.04	− 0 15.0	0.988	0.629	74.2	20.5	37 E	—	30*
7 14	9 32.95	+ 0 8.0	0.954	0.614	77.5	20.4	36 E	—	30*
7 16	9 40.97	+ 0 38.3	0.920	0.600	81.0	20.4	36 E	—	29*
7 18	9 49.09	+ 1 16.9	0.885	0.587	84.8	20.4	35 E	—	29*
7 20	9 57.28	+ 2 5.2	0.851	0.575	88.7	20.5	34 E	—	28*
7 22	10 5.48	+ 3 4.4	0.817	0.566	92.8	20.5	34 E	1*	28*
7 24	10 13.67	+ 4 15.7	0.783	0.558	97.1	20.6	33 E	2*	27*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
458062 2009 *YO* *(continuation)*									
7 26	10 21.78	+ 5 40.4	0.750	0.552	101.4	20.7	32 E	4*	26*
7 28	10 29.75	+ 7 19.3	0.719	0.549	105.7	20.8	31 E	5*	25*
7 30	10 37.53	+ 9 13.2	0.689	0.548	109.9	20.9	30 E	7*	24*
8 4	10 55.73	+15 3.2	0.624	0.554	118.9	21.4	29 E	12*	20*
8 9	11 11.52	+22 13.8	0.575	0.573	124.0	21.7	28 E	17*	14*
8 14	11 24.39	+30 9.1	0.544	0.604	123.8	21.6	30 E	23*	8*
8 19	11 34.24	+38 3.1	0.530	0.642	119.0	21.3	34 E	28*	1*
8 24	11 41.33	+45 18.5	0.529	0.687	111.8	21.0	39 E	31*	—
8 29	11 46.12	+51 37.0	0.535	0.736	104.1	20.7	45 E	34*	—
9 3	11 49.22	+56 57.8	0.545	0.787	96.7	20.5	51 E	36*	—
9 8	11 51.26	+61 29.6	0.557	0.839	90.1	20.4	56 E	37*	—
9 10	11 51.91	+63 7.2	0.561	0.860	87.6	20.4	59 E	37*	—
9 12	11 52.53	+64 39.9	0.565	0.881	85.2	20.4	61 E	38*	—
9 14	11 53.13	+66 8.2	0.569	0.902	83.0	20.4	63 E	38*	—
9 16	11 53.74	+67 33.1	0.572	0.923	80.8	20.3	65 E	38*	—
9 18	11 54.40	+68 55.2	0.575	0.943	78.8	20.3	67 E	39*	—
9 20	11 55.12	+70 15.2	0.578	0.964	76.8	20.3	69 E	39*	—
9 22	11 55.93	+71 33.6	0.580	0.984	74.9	20.3	71 W	40*	—
9 24	11 56.83	+72 51.2	0.582	1.005	73.0	20.3	73 W	41*	—
9 26	11 57.87	+74 8.4	0.583	1.025	71.2	20.3	75 W	42*	—
9 28	11 59.06	+75 25.6	0.584	1.045	69.4	20.3	77 W	43*	—
9 30	12 0.45	+76 43.3	0.585	1.065	67.7	20.3	80 W	44*	—
10 2	12 2.08	+78 2.0	0.585	1.084	66.0	20.2	82 W	44*	—
10 4	12 4.04	+79 22.0	0.585	1.103	64.3	20.2	84 W	45*	—
10 6	12 6.46	+80 43.5	0.585	1.122	62.7	20.2	86 W	45*	—
10 8	12 9.55	+82 7.1	0.585	1.141	61.0	20.2	88 W	46*	—
10 9	12 11.47	+82 49.7	0.585	1.151	60.2	20.2	89 W	46*	—
10 10	12 13.75	+83 32.9	0.585	1.160	59.4	20.2	90 W	46*	—
10 11	12 16.51	+84 16.6	0.584	1.169	58.6	20.2	91 W	46*	—
10 12	12 19.99	+85 1.0	0.584	1.178	57.8	20.2	93 W	46*	—
10 13	12 24.58	+85 46.0	0.584	1.187	57.0	20.2	94 W	46*	—
10 14	12 30.99	+86 31.7	0.584	1.197	56.2	20.2	95 W	46*	—
10 15	12 40.85	+87 17.8	0.584	1.206	55.4	20.2	96 W	45*	—
10 16	12 58.33	+88 4.2	0.583	1.214	54.6	20.1	97 W	45*	—
10 17	13 38.63	+88 49.8	0.583	1.223	53.8	20.1	98 E	45*	—
10 18	16 12.69	+89 27.4	0.583	1.232	53.0	20.1	99 E	45*	—
10 19	21 23.53	+89 14.7	0.583	1.241	52.2	20.1	100 E	46	—
10 20	22 48.40	+88 29.9	0.583	1.250	51.4	20.1	101 E	47	—
10 21	23 16.33	+87 40.3	0.583	1.258	50.6	20.1	103 E	47	—
10 22	23 30.13	+86 49.1	0.583	1.267	49.8	20.1	104 E	48	—
10 23	23 38.53	+85 56.7	0.584	1.275	49.0	20.1	105 E	49	—
10 24	23 44.32	+85 3.5	0.584	1.284	48.2	20.1	106 E	50	—
10 25	23 48.67	+84 9.4	0.584	1.292	47.4	20.1	107 E	51	—
10 26	23 52.14	+83 14.5	0.585	1.301	46.6	20.1	108 E	52	—
10 27	23 55.03	+82 19.0	0.586	1.309	45.8	20.1	109 E	53	—
10 28	23 57.52	+81 22.7	0.586	1.317	45.0	20.1	110 E	54	—
10 29	23 59.73	+80 25.8	0.587	1.325	44.3	20.1	111 E	55	—
10 30	0 1.74	+79 28.3	0.589	1.333	43.5	20.1	112 E	56	—
10 31	0 3.59	+78 30.3	0.590	1.341	42.8	20.0	113 E	56	—
11 1	0 5.33	+77 31.7	0.591	1.349	42.0	20.0	114 E	57	—
11 2	0 6.97	+76 32.6	0.593	1.357	41.3	20.0	115 E	58	—
11 3	0 8.55	+75 33.1	0.595	1.365	40.6	20.0	116 E	59	—
11 4	0 10.06	+74 33.2	0.597	1.373	39.9	20.0	117 E	60	—
11 5	0 11.53	+73 32.9	0.599	1.381	39.2	20.0	118 E	61	—
11 6	0 12.97	+72 32.4	0.601	1.388	38.5	20.0	119 E	62	—
11 7	0 14.37	+71 31.6	0.604	1.396	37.8	20.1	120 E	63	—
11 9	0 17.12	+69 29.6	0.610	1.411	36.6	20.1	122 E	66	—
11 11	0 19.81	+67 27.4	0.617	1.426	35.4	20.1	123 E	68	—
11 13	0 22.47	+65 25.4	0.625	1.441	34.3	20.1	125 E	70	—
11 15	0 25.11	+63 24.2	0.634	1.455	33.4	20.1	126 E	72	1
11 17	0 27.75	+61 24.3	0.644	1.469	32.5	20.1	127 E	74	3
11 22	0 34.38	+56 33.2	0.673	1.504	30.8	20.2	129 E	78	7
11 27	0 41.09	+51 59.4	0.709	1.537	29.8	20.4	129 E	83	12
12 2	0 47.90	+47 47.4	0.752	1.568	29.5	20.5	128 E	87	16
12 7	0 54.80	+43 59.5	0.800	1.598	29.6	20.7	127 E	89	20
12 12	1 1.82	+40 36.4	0.855	1.627	30.0	20.9	124 E	86	23
12 17	1 8.96	+37 37.7	0.914	1.655	30.5	21.1	121 E	83	26
12 22	1 16.22	+35 2.2	0.977	1.681	31.1	21.3	118 E	80	29*
355770 2008 RE_{80}									
6 10	7 48.62	+14 26.9	1.894	1.253	29.6	21.5	38 E	12*	29*
6 20	8 21.84	+14 6.0	1.891	1.222	29.2	21.4	36 E	10*	28*
6 30	8 55.90	+13 22.8	1.886	1.194	28.7	21.3	34 E	9*	27*
7 10	9 30.61	+12 17.8	1.880	1.170	28.4	21.3	33 E	8*	26*
7 20	10 5.84	+10 51.9	1.874	1.149	28.1	21.2	32 E	7*	25*
7 30	10 41.48	+ 9 7.1	1.868	1.133	27.9	21.2	31 E	8*	25*
8 9	11 17.41	+ 7 5.9	1.864	1.123	27.7	21.1	31 E	8*	24*
8 19	11 53.58	+ 4 51.5	1.863	1.118	27.5	21.1	31 E	9*	24*
8 29	12 29.95	+ 2 27.9	1.865	1.119	27.2	21.1	30 E	10*	24*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
355770 2008 RE_{80} *(continuation)*									
9 8	13 6.47	− 0 0.5	1.871	1.125	27.0	21.1	30 E	11*	23*
9 18	13 43.14	− 2 28.9	1.883	1.137	26.6	21.2	30 E	12*	23*
9 28	14 19.93	− 4 52.5	1.901	1.155	26.1	21.2	30 E	13*	22*
10 8	14 56.78	− 7 6.1	1.925	1.176	25.4	21.2	30 E	14*	22*
10 18	15 33.60	− 9 5.4	1.956	1.202	24.5	21.3	30 E	15*	21*
10 28	16 10.27	−10 46.3	1.994	1.231	23.4	21.4	30 E	15*	20*
11 7	16 46.61	−12 6.0	2.038	1.263	22.2	21.4	29 E	16*	18*
11 17	17 22.44	−13 2.5	2.088	1.296	20.8	21.5	28 E	16*	16*
343158 2009 HC_{82}									
6 10	8 16.75	+27 33.0	3.083	2.417	16.1	21.4	41 E	26*	24*
6 20	8 20.13	+26 29.6	3.111	2.324	13.7	21.3	33 E	18*	19*
6 30	8 24.58	+25 25.6	3.111	2.228	11.0	21.1	25 E	12*	14*
7 10	8 29.87	+24 20.4	3.082	2.128	7.9	20.8	17 E	6*	7*
7 20	8 35.83	+23 12.9	3.022	2.025	4.6	20.5	9 E	1*	1*
7 30	8 42.31	+22 2.1	2.929	1.917	1.9	20.2	4 E	—	—
8 9	8 49.22	+20 46.6	2.803	1.805	4.5	20.1	8 W	2*	—
8 19	8 56.51	+19 24.3	2.644	1.688	9.1	20.1	15 W	8*	3*
8 29	9 4.16	+17 52.3	2.450	1.567	14.4	19.9	23 W	15*	9*
9 3	9 8.14	+17 1.2	2.341	1.504	17.3	19.8	26 W	18*	11*
9 8	9 12.27	+16 5.7	2.223	1.440	20.4	19.7	30 W	21*	14*
9 13	9 16.57	+15 4.5	2.097	1.374	23.8	19.6	33 W	24*	16*
9 18	9 21.12	+13 56.1	1.962	1.307	27.5	19.5	37 W	27*	19*
9 23	9 26.00	+12 38.1	1.820	1.239	31.6	19.3	40 W	30*	22*
9 28	9 31.37	+11 7.3	1.669	1.169	36.2	19.1	44 W	33*	24*
10 3	9 37.49	+ 9 18.7	1.512	1.098	41.4	18.9	47 W	34*	27*
10 8	9 44.77	+ 7 4.5	1.348	1.026	47.4	18.7	49 W	36*	30*
10 10	9 48.16	+ 6 1.0	1.281	0.997	50.1	18.6	50 W	36*	31*
10 12	9 51.91	+ 4 50.4	1.213	0.968	53.1	18.5	51 W	36*	32*
10 14	9 56.11	+ 3 31.1	1.144	0.938	56.2	18.4	51 W	36*	33*
10 16	10 0.88	+ 2 1.5	1.075	0.909	59.6	18.3	52 W	35*	34*
10 18	10 6.35	+ 0 19.3	1.006	0.879	63.4	18.2	52 W	34*	35*
10 20	10 12.73	− 1 38.2	0.938	0.850	67.5	18.1	52 W	33*	36*
10 22	10 20.27	− 3 54.6	0.870	0.820	72.1	18.0	52 W	32*	37*
10 24	10 29.34	− 6 34.1	0.803	0.791	77.2	17.9	51 W	29*	37*
10 26	10 40.42	− 9 41.7	0.739	0.762	83.0	17.9	50 W	27*	38*
10 28	10 54.21	−13 22.7	0.678	0.733	89.4	17.8	48 W	23*	37*
10 30	11 11.63	−17 41.6	0.623	0.705	96.6	17.9	45 W	18*	37*
11 1	11 33.92	−22 38.8	0.576	0.677	104.5	18.0	41 W	13*	35*
11 3	12 2.60	−28 5.6	0.539	0.650	112.7	18.3	37 W	6*	31*
11 5	12 39.12	−33 37.6	0.516	0.624	120.5	18.6	33 W	—	26*
11 7	13 23.85	−38 32.4	0.509	0.599	126.5	19.0	29 W	—	20*
11 8	13 48.75	−40 30.6	0.512	0.588	128.4	19.1	28 W	—	17*
11 9	14 14.63	−42 2.9	0.520	0.576	129.2	19.2	27 W	—	14*
11 10	14 40.73	−43 6.8	0.532	0.565	129.0	19.2	26 W	—	10*
11 11	15 6.26	−43 42.7	0.548	0.555	127.8	19.1	26 E	—	7*
11 12	15 30.49	−43 52.9	0.567	0.545	125.7	19.0	27 E	—	11*
11 13	15 52.89	−43 41.5	0.590	0.536	122.9	18.8	27 E	—	13*
11 14	16 13.15	−43 12.8	0.616	0.528	119.6	18.6	28 E	—	16*
11 15	16 31.15	−42 31.5	0.645	0.520	115.9	18.4	28 E	—	18*
11 16	16 46.94	−41 41.6	0.675	0.513	111.9	18.2	29 E	—	19*
11 17	17 0.67	−40 46.2	0.708	0.507	107.8	18.0	29 E	—	21*
11 18	17 12.53	−39 47.8	0.742	0.501	103.6	17.9	30 E	—	22*
11 19	17 22.71	−38 48.3	0.778	0.497	99.3	17.7	30 E	—	23*
11 20	17 31.44	−37 48.9	0.814	0.493	95.0	17.6	30 E	—	23*
11 21	17 38.89	−36 50.6	0.851	0.491	90.7	17.5	30 E	—	23*
11 22	17 45.24	−35 53.8	0.889	0.489	86.5	17.4	30 E	—	23*
11 23	17 50.63	−34 59.0	0.926	0.489	82.2	17.4	29 E	—	23*
11 24	17 55.21	−34 6.3	0.964	0.489	78.1	17.3	29 E	—	23*
11 25	17 59.09	−33 15.8	1.002	0.490	74.0	17.2	29 E	—	23*
11 26	18 2.36	−32 27.5	1.040	0.493	70.0	17.2	28 E	1*	22*
11 27	18 5.11	−31 41.3	1.077	0.496	66.1	17.2	27 E	2*	21*
11 29	18 9.33	−30 15.2	1.150	0.506	58.6	17.1	26 E	2*	20*
12 1	18 12.25	−28 56.6	1.221	0.518	51.6	17.1	24 E	3*	18*
12 3	18 14.20	−27 44.8	1.288	0.534	45.0	17.1	23 E	3*	16*
12 5	18 15.47	−26 38.8	1.352	0.553	39.0	17.1	21 E	4*	14*
12 7	18 16.25	−25 38.0	1.412	0.574	33.4	17.1	19 E	3*	12*
12 9	18 16.69	−24 41.7	1.468	0.597	28.4	17.2	17 E	3*	10*
12 11	18 16.88	−23 49.2	1.521	0.622	23.8	17.2	15 E	3*	7*
12 13	18 16.92	−23 0.2	1.570	0.647	19.6	17.2	13 E	2*	5*
12 15	18 16.85	−22 14.1	1.616	0.674	15.8	17.2	11 E	2*	3*
12 17	18 16.71	−21 30.6	1.658	0.702	12.5	17.3	9 E	1*	1*
12 22	18 16.23	−19 51.0	1.749	0.773	6.3	17.3	5 E	—	—
12 27	18 15.72	−18 21.1	1.821	0.847	6.2	17.6	5 W	—	—
1 1	18 15.27	−16 58.1	1.877	0.921	10.0	18.0	9 W	3*	—
1 6	18 14.87	−15 39.6	1.917	0.994	14.1	18.4	14 W	7*	2*
1 11	18 14.48	−14 23.7	1.944	1.067	17.7	18.7	19 W	11*	6*
1 16	18 14.05	−13 9.0	1.959	1.138	21.0	19.0	24 W	15*	11*