2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
354101 2001 YF_1									
6 10	8 42.60	− 0 29.1	1.090	0.990	58.2	21.5	56 E	11*	49*
6 20	9 21.05	− 3 20.5	1.047	0.982	60.0	21.4	57 E	8*	51*
6 30	10 2.50	− 6 15.6	1.007	0.985	61.4	21.4	58 E	6*	52*
7 10	10 47.08	− 9 5.8	0.974	0.998	62.1	21.3	60 E	6*	54*
7 20	11 34.56	−11 40.4	0.954	1.020	61.9	21.3	62 E	7*	56*
7 30	12 24.15	−13 48.8	0.951	1.050	60.7	21.4	64 E	8*	58*
8 9	13 14.51	−15 22.3	0.965	1.087	58.8	21.4	67 E	11*	61*
228502 2001 TE_2									
6 10	9 34.95	+23 55.6	0.594	0.877	85.0	21.5	59 E	37*	36*
6 15	9 58.59	+23 15.8	0.569	0.883	85.9	21.4	60 E	37*	37*
6 20	10 22.56	+22 23.5	0.546	0.891	86.5	21.4	61 E	37*	38*
6 25	10 46.88	+21 17.9	0.524	0.900	86.9	21.3	62 E	37*	40*
6 30	11 11.51	+19 58.2	0.504	0.910	86.9	21.3	63 E	37*	41*
7 5	11 36.43	+18 24.0	0.485	0.922	86.6	21.2	65 E	37*	43*
7 10	12 1.59	+16 34.9	0.469	0.935	86.0	21.1	67 E	37*	45*
7 15	12 26.97	+14 30.9	0.455	0.949	85.0	21.1	68 E	37*	47*
7 20	12 52.53	+12 12.7	0.444	0.964	83.7	21.0	71 E	37*	50*
7 25	13 18.22	+ 9 41.8	0.435	0.979	82.1	20.9	73 E	37*	52*
7 30	13 43.96	+ 7 0.5	0.429	0.995	80.3	20.9	75 E	37*	55*
8 4	14 9.64	+ 4 12.1	0.427	1.012	78.2	20.8	77 E	37*	58*
8 9	14 35.16	+ 1 20.3	0.428	1.028	76.0	20.8	80 E	36*	61*
8 14	15 0.46	− 1 31.1	0.432	1.045	73.8	20.8	82 E	35*	64*
8 19	15 25.46	− 4 18.1	0.440	1.061	71.6	20.8	84 E	34*	67*
8 24	15 50.07	− 6 56.8	0.451	1.078	69.4	20.8	86 E	33*	70*
8 29	16 14.23	− 9 24.4	0.465	1.094	67.3	20.8	88 E	32*	72*
9 3	16 37.84	−11 38.3	0.482	1.110	65.3	20.9	89 E	31*	75*
9 8	17 0.87	−13 37.2	0.502	1.125	63.5	20.9	90 E	30*	77*
9 13	17 23.28	−15 20.5	0.525	1.140	61.9	21.0	91 E	29*	78*
9 18	17 45.07	−16 48.1	0.550	1.155	60.4	21.1	91 E	28*	80*
9 23	18 6.22	−18 0.2	0.577	1.169	59.1	21.2	91 E	27*	81*
9 28	18 26.75	−18 57.6	0.606	1.183	57.9	21.3	91 E	26*	81*
10 3	18 46.62	−19 41.0	0.637	1.195	56.8	21.4	91 E	25*	82*
10 8	19 5.88	−20 11.6	0.669	1.208	55.8	21.5	91 E	25	81*
38071 1999 GU_3									
6 10	10 11.46	+17 24.0	0.775	1.038	66.3	21.5	69 E	39*	45*
6 15	10 35.78	+16 55.5	0.767	1.047	66.0	21.5	70 E	39*	46*
6 20	11 0.51	+16 14.7	0.763	1.059	65.5	21.5	71 E	39*	47*
6 25	11 25.47	+15 21.3	0.762	1.073	64.7	21.5	73 E	39*	48*
6 30	11 50.46	+14 16.1	0.764	1.091	63.6	21.5	74 E	40*	49*
7 5	12 15.27	+13 0.0	0.771	1.111	62.3	21.5	75 E	40*	51*
523816 2009 ST_{103}									
6 10	18 5.93	− 9 40.4	3.435	4.410	4.1	24.4	162 W	35	74
6 20	17 57.47	− 9 28.6	3.438	4.431	3.2	24.3	166 W	36	73
6 30	17 49.08	− 9 22.8	3.473	4.451	4.0	24.4	162 E	36	73
7 10	17 41.28	− 9 23.2	3.537	4.470	5.8	24.6	154 E	36	73
7 20	17 34.50	− 9 29.3	3.629	4.488	7.7	24.7	144 E	36	73
410248 2007 TY_{72}									
6 10	18 13.40	−17 14.0	2.353	3.343	4.6	22.8	165 W	28	81
6 20	18 3.49	−17 1.6	2.335	3.346	2.0	22.6	173 W	28	81
6 30	17 53.47	−16 51.9	2.347	3.349	3.6	22.7	168 E	28	81
7 10	17 44.19	−16 45.3	2.389	3.350	6.7	22.9	157 E	28	81
7 20	17 36.31	−16 42.3	2.457	3.350	9.7	23.1	146 E	28	81
523649 2010 XZ_{78}									
6 10	18 14.37	− 6 10.1	8.624	9.571	2.3	23.0	158 W	39	70
6 20	18 10.91	− 5 56.9	8.606	9.578	1.9	23.0	162 W	39	70
6 30	18 7.40	− 5 47.0	8.617	9.586	2.0	23.0	161 E	39	70
7 10	18 4.01	− 5 40.5	8.657	9.593	2.5	23.1	156 E	39	70
7 20	18 0.87	− 5 37.2	8.725	9.600	3.2	23.1	148 E	39	70
506601 2006 AD_{104}									
6 10	18 16.84	−30 20.9	2.342	3.330	4.8	22.9	164 W	15	86
6 15	18 11.74	−30 23.5	2.315	3.318	3.3	22.8	169 W	15	86
6 20	18 6.40	−30 24.1	2.296	3.306	2.3	22.7	173 W	15	86
6 25	18 0.95	−30 22.6	2.284	3.294	2.4	22.6	172 E	15	86
6 30	17 55.52	−30 18.9	2.279	3.281	3.6	22.7	168 E	15	86
7 5	17 50.23	−30 13.3	2.281	3.268	5.1	22.8	163 E	15	86
7 10	17 45.19	−30 5.8	2.291	3.255	6.8	22.9	158 E	15	86
381960 2010 EV_{87}									
6 10	18 17.81	+13 11.3	2.829	3.670	10.1	22.5	141 W	58	51
6 20	18 9.70	+13 27.4	2.811	3.673	9.6	22.5	143 W	58	51
6 30	18 1.42	+13 21.9	2.817	3.675	9.7	22.5	142 E	58	51
7 10	17 53.58	+12 55.6	2.846	3.677	10.4	22.6	139 E	58	51
7 20	17 46.75	+12 10.6	2.899	3.677	11.5	22.6	134 E	57	52

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
159677 2002 HQ_{11}									
6 10	18 19.39	−14 24.7	1.560	2.546	7.0	22.9	162 W	31	78
6 15	18 12.15	−14 28.8	1.566	2.567	4.9	22.8	167 W	31	78
6 20	18 4.84	−14 34.4	1.579	2.587	3.6	22.8	171 W	30	79
6 25	17 57.64	−14 41.3	1.599	2.607	3.8	22.9	170 E	30	79
6 30	17 50.72	−14 49.3	1.627	2.626	5.2	23.0	166 E	30	79
7 5	17 44.23	−14 58.4	1.662	2.645	7.2	23.1	161 E	30	79
7 10	17 38.29	−15 8.5	1.704	2.663	9.1	23.3	155 E	30	79
496869 2000 QU_7									
6 10	18 22.88	−52 48.6	2.453	3.354	9.4	23.3	147 W	—	63
6 15	18 14.73	−53 0.4	2.422	3.336	8.9	23.2	149 W	—	63
6 20	18 6.15	−53 5.4	2.397	3.318	8.7	23.2	150 W	—	63
6 25	17 57.35	−53 3.1	2.379	3.300	8.8	23.2	150 E	—	63
6 30	17 48.58	−52 53.4	2.368	3.281	9.2	23.2	149 E	—	63
7 5	17 40.05	−52 36.3	2.364	3.262	9.8	23.2	147 E	—	63
7 10	17 31.99	−52 12.6	2.366	3.243	10.7	23.2	144 E	—	64
251816 1999 TO_{81}									
6 10	18 24.74	−26 38.2	1.962	2.950	5.6	22.5	163 W	18	89
6 15	18 19.62	−26 41.8	1.938	2.942	3.7	22.3	169 W	18	89
6 20	18 14.20	−26 44.2	1.921	2.934	1.9	22.2	175 W	18	89
6 25	18 8.64	−26 45.1	1.911	2.926	1.3	22.1	176 E	18	89
6 30	18 3.07	−26 44.5	1.908	2.918	2.9	22.2	172 E	18	89
7 5	17 57.63	−26 42.4	1.913	2.909	4.9	22.3	166 E	18	89
7 10	17 52.46	−26 38.9	1.924	2.900	6.8	22.4	160 E	18	89
483416 1999 YD_6									
6 10	18 25.74	−42 9.2	3.168	4.114	5.8	22.8	156 W	3	74
6 15	18 20.94	−42 16.0	3.137	4.100	5.2	22.8	159 W	3	74
6 20	18 15.90	−42 19.7	3.114	4.086	4.7	22.7	161 W	3	74
6 25	18 10.74	−42 20.0	3.097	4.072	4.7	22.7	161 E	3	74
6 30	18 5.55	−42 16.9	3.088	4.058	5.0	22.7	160 E	3	74
7 5	18 0.45	−42 10.5	3.086	4.043	5.6	22.7	157 E	3	74
7 10	17 55.53	−42 0.8	3.091	4.028	6.4	22.8	154 E	3	74
376720 1997 CO_5									
6 10	18 26.06	−42 11.8	2.910	3.857	6.2	22.7	156 W	3	74
6 15	18 20.56	−42 13.1	2.889	3.853	5.5	22.7	159 W	3	74
6 20	18 14.86	−42 10.7	2.875	3.849	5.0	22.6	161 W	3	74
6 25	18 9.06	−42 4.5	2.868	3.845	4.9	22.6	161 E	3	74
6 30	18 3.31	−41 54.5	2.869	3.840	5.2	22.6	160 E	3	74
7 5	17 57.70	−41 40.9	2.877	3.835	5.9	22.7	157 E	3	74
7 10	17 52.37	−41 23.9	2.892	3.830	6.7	22.7	154 E	4	75
503881 2001 BZ_2									
6 10	18 27.04	+ 3 57.2	2.931	3.827	8.2	22.6	148 W	49	60
6 20	18 18.63	+ 3 38.4	2.885	3.815	7.1	22.5	152 W	49	60
6 30	18 9.83	+ 3 3.4	2.868	3.801	7.0	22.5	153 E	48	61
7 10	18 1.26	+ 2 13.4	2.878	3.787	7.9	22.5	149 E	47	62
7 20	17 53.51	+ 1 10.4	2.915	3.772	9.4	22.6	142 E	46	63
152664 1998 FW_4									
6 10	18 30.81	−27 42.7	3.081	4.058	4.5	25.6	162 W	17	88
6 20	18 20.89	−27 51.5	3.022	4.032	1.8	25.4	173 W	17	88
6 30	18 10.42	−27 55.4	2.994	4.004	1.9	25.3	172 E	17	88
7 10	18 0.12	−27 53.8	2.998	3.976	4.6	25.5	162 E	17	88
7 20	17 50.70	−27 47.2	3.031	3.946	7.4	25.6	150 E	17	88
138727 2000 SU_{180}									
6 10	18 30.91	−37 36.8	2.276	3.239	6.8	23.8	158 W	7	78
6 15	18 24.22	−37 41.3	2.268	3.250	5.5	23.8	162 W	7	78
6 20	18 17.32	−37 41.9	2.268	3.260	4.6	23.7	165 W	7	78
6 25	18 10.36	−37 38.3	2.275	3.269	4.4	23.7	166 E	7	78
6 30	18 3.51	−37 30.8	2.289	3.279	4.9	23.8	164 E	7	78
7 5	17 56.92	−37 19.4	2.312	3.288	5.9	23.9	161 E	8	79
7 10	17 50.71	−37 4.7	2.341	3.296	7.2	24.0	156 E	8	79
441952 2010 LR_{68}									
6 10	18 31.63	−21 20.9	2.558	3.537	5.1	23.5	162 W	24	85
6 20	18 22.58	−21 32.4	2.476	3.488	1.9	23.2	173 W	23	86
6 30	18 12.70	−21 43.7	2.424	3.438	1.7	23.1	174 E	23	86
7 10	18 2.77	−21 54.3	2.402	3.386	5.1	23.3	163 E	23	86
7 20	17 53.59	−22 3.8	2.408	3.334	8.5	23.4	151 E	23	86
405044 2001 SB_{127}									
6 10	18 33.00	−31 21.0	1.831	2.809	6.9	22.4	160 W	14	85
6 15	18 27.36	−31 28.7	1.803	2.799	5.2	22.2	166 W	14	85
6 20	18 21.32	−31 34.0	1.782	2.789	3.6	22.1	170 W	13	84
6 25	18 15.05	−31 36.4	1.768	2.778	3.0	22.1	172 E	13	84
6 30	18 8.71	−31 35.7	1.761	2.767	3.8	22.1	170 E	13	84
7 5	18 2.48	−31 32.1	1.762	2.756	5.5	22.2	165 E	13	84

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
405044 2001 SB_{127} *(continuation)*									
	h m	° ′			°	m	°	°	°
7 10	17 56.50	−31 25.5	1.769	2.745	7.4	22.3	160 E	14	85
7 15	17 50.93	−31 16.3	1.782	2.733	9.3	22.4	154 E	14	85
7 20	17 45.91	−31 5.0	1.802	2.721	11.2	22.4	149 E	14	85
498125 2007 TG_{15}									
6 10	18 33.37	−24 31.8	1.935	2.916	6.3	23.7	162 W	20	89
6 15	18 27.96	−24 31.2	1.899	2.899	4.3	23.6	168 W	20	89
6 20	18 22.15	−24 29.7	1.870	2.882	2.2	23.4	174 W	21	88
6 25	18 16.09	−24 27.0	1.848	2.865	0.4	23.2	179 W	21	88
6 30	18 9.92	−24 23.1	1.834	2.847	2.2	23.3	174 E	21	88
7 5	18 3.79	−24 17.9	1.827	2.829	4.4	23.5	168 E	21	88
7 10	17 57.85	−24 11.7	1.828	2.810	6.6	23.6	162 E	21	88
7 15	17 52.23	−24 4.5	1.835	2.792	8.7	23.6	156 E	21	88
505831 2015 CA									
6 10	18 39.04	+12 46.9	2.034	2.875	13.5	22.4	139 W	58	51
6 15	18 34.71	+13 10.0	2.005	2.863	13.0	22.4	141 W	58	51
6 20	18 30.06	+13 26.5	1.981	2.852	12.6	22.3	142 W	58	51
6 25	18 25.19	+13 35.9	1.962	2.840	12.5	22.3	143 W	59	50
6 30	18 20.20	+13 37.7	1.949	2.828	12.5	22.3	143 E	59	50
7 5	18 15.22	+13 32.0	1.942	2.816	12.8	22.2	142 E	59	50
7 10	18 10.37	+13 18.8	1.941	2.803	13.2	22.2	141 E	58	51
7 15	18 5.75	+12 58.5	1.945	2.791	13.9	22.3	139 E	58	51
7 20	18 1.47	+12 31.4	1.954	2.778	14.7	22.3	136 E	58	51
7 25	17 57.63	+11 58.1	1.968	2.764	15.5	22.3	133 E	57	52
474370 2002 RT_{157}									
6 10	18 45.17	−31 51.5	2.695	3.656	6.0	23.0	158 W	13	84
6 15	18 40.77	−31 59.0	2.660	3.643	4.7	22.9	163 W	13	84
6 20	18 36.05	−32 5.0	2.631	3.630	3.5	22.8	167 W	13	84
6 25	18 31.11	−32 9.0	2.610	3.617	2.6	22.8	171 W	13	84
6 30	18 26.07	−32 11.0	2.596	3.604	2.6	22.7	171 E	13	84
7 5	18 21.01	−32 10.7	2.590	3.590	3.5	22.8	168 E	13	84
7 10	18 16.05	−32 8.3	2.591	3.576	4.7	22.8	163 E	13	84
7 15	18 11.30	−32 3.7	2.599	3.562	6.1	22.9	158 E	13	84
504090 2006 DW									
6 10	18 47.02	−57 13.1	2.849	3.700	9.8	23.7	142 W	—	59
6 15	18 39.99	−57 30.7	2.827	3.695	9.3	23.6	144 W	—	58
6 20	18 32.48	−57 42.4	2.810	3.690	9.1	23.6	145 W	—	58
6 25	18 24.68	−57 47.8	2.801	3.684	9.0	23.6	146 W	—	58
6 30	18 16.80	−57 46.4	2.797	3.678	9.1	23.6	145 E	—	58
7 5	18 9.03	−57 38.4	2.800	3.672	9.3	23.6	144 E	—	58
7 10	18 1.58	−57 24.0	2.809	3.666	9.8	23.6	142 E	—	59
7 15	17 54.62	−57 3.6	2.824	3.659	10.3	23.6	140 E	—	59
422988 2003 SE_{41}									
6 10	18 47.46	−30 56.7	2.145	3.108	7.1	22.5	158 W	14	85
6 15	18 42.41	−31 3.1	2.117	3.103	5.5	22.4	163 W	14	85
6 20	18 36.99	−31 7.5	2.096	3.097	3.9	22.3	168 W	14	85
6 25	18 31.33	−31 9.7	2.082	3.091	2.8	22.2	171 W	14	85
6 30	18 25.55	−31 9.3	2.075	3.085	2.7	22.2	172 E	14	85
7 5	18 19.80	−31 6.5	2.076	3.078	3.9	22.3	168 E	14	85
7 10	18 14.22	−31 1.1	2.083	3.071	5.4	22.4	163 E	14	85
7 15	18 8.93	−30 53.5	2.098	3.064	7.1	22.5	158 E	14	85
464984 2006 AA_{97}									
6 10	18 51.06	−16 11.8	1.837	2.795	8.5	22.6	156 W	29	80
6 20	18 41.27	−16 23.7	1.795	2.795	4.7	22.4	167 W	29	80
6 30	18 30.47	−16 40.7	1.782	2.794	2.4	22.3	173 E	28	81
7 10	18 19.74	−17 1.6	1.796	2.792	5.3	22.4	165 E	28	81
7 20	18 10.11	−17 24.9	1.838	2.788	9.1	22.7	154 E	28	81
337075 1998 QC_{1}									
6 10	18 51.84	−31 44.3	1.716	2.678	8.7	23.6	157 W	13	84
6 15	18 45.27	−31 50.8	1.671	2.656	6.7	23.4	162 W	13	84
6 20	18 38.05	−31 54.5	1.633	2.634	4.9	23.3	167 W	13	84
6 25	18 30.31	−31 54.6	1.603	2.611	3.5	23.1	171 W	13	84
6 30	18 22.25	−31 50.7	1.579	2.588	3.6	23.1	171 E	13	84
7 5	18 14.08	−31 42.5	1.563	2.564	5.1	23.1	167 E	13	84
7 10	18 6.01	−31 30.1	1.555	2.540	7.3	23.2	162 E	13	84
7 15	17 58.24	−31 13.8	1.553	2.514	9.6	23.3	156 E	14	85
410195 2007 RT_{147}									
6 10	18 53.11	−22 31.3	2.352	3.311	6.9	23.4	157 W	22	87
6 20	18 43.44	−22 49.0	2.296	3.299	3.4	23.1	169 W	22	87
6 30	18 32.79	−23 5.7	2.269	3.285	0.3	22.8	179 E	22	87
7 10	18 22.03	−23 19.9	2.272	3.271	4.0	23.1	167 E	22	87
7 20	18 12.07	−23 31.0	2.304	3.255	7.5	23.3	155 E	21	88
234225 2000 SQ_{168}									
	h m	° ′			°	m	°	°	°
6 10	18 55.26	−21 17.3	2.396	3.351	7.0	21.9	156 W	24	85
6 20	18 46.62	−21 13.7	2.332	3.332	3.7	21.7	168 W	24	85
6 30	18 37.01	−21 10.0	2.296	3.312	0.6	21.4	178 W	24	85
7 10	18 27.23	−21 5.6	2.290	3.292	3.6	21.6	168 E	24	85
7 20	18 18.11	−21 0.4	2.312	3.270	7.1	21.8	157 E	24	85
7 30	18 10.43	−20 54.9	2.361	3.248	10.2	22.0	145 E	24	85
499998 2011 PT									
6 10	18 57.14	−25 1.0	0.334	1.327	17.9	23.1	156 W	20	89
6 15	18 54.00	−25 45.1	0.307	1.311	14.1	22.7	162 W	19	90
6 20	18 49.14	−26 35.5	0.284	1.295	9.9	22.4	167 W	18	89
6 25	18 42.58	−27 31.2	0.264	1.278	5.8	22.0	173 W	17	88
6 30	18 34.51	−28 30.5	0.246	1.262	4.3	21.7	175 E	16	87
7 5	18 25.21	−29 31.2	0.231	1.245	8.0	21.8	170 E	15	86
7 10	18 15.06	−30 30.8	0.219	1.229	13.4	21.8	164 E	14	85
7 15	18 4.60	−31 26.9	0.210	1.212	19.2	21.9	157 E	14	85
7 20	17 54.46	−32 17.7	0.203	1.196	25.0	22.0	150 E	13	84
7 25	17 45.34	−33 2.6	0.197	1.180	30.8	22.1	144 E	12	83
288914 2004 SX									
6 10	18 57.34	+ 2 53.8	1.397	2.295	15.2	22.4	144 W	48	61
6 15	18 52.20	+ 3 13.3	1.367	2.289	13.8	22.3	147 W	48	61
6 20	18 46.49	+ 3 26.1	1.342	2.282	12.7	22.2	150 W	48	61
6 25	18 40.36	+ 3 31.5	1.324	2.274	11.9	22.1	152 W	49	60
6 30	18 33.98	+ 3 29.1	1.311	2.266	11.6	22.1	153 E	48	61
7 5	18 27.53	+ 3 18.8	1.304	2.258	11.8	22.1	153 E	48	61
7 10	18 21.17	+ 3 0.8	1.304	2.249	12.6	22.1	151 E	48	61
7 15	18 15.10	+ 2 35.5	1.309	2.239	13.7	22.1	148 E	48	61
7 20	18 9.47	+ 2 3.5	1.320	2.230	15.2	22.2	145 E	47	62
7 25	18 4.43	+ 1 25.7	1.336	2.220	16.7	22.3	141 E	46	63
396568 2000 AZ_{101}									
6 10	18 58.43	−21 11.2	2.711	3.660	6.6	22.3	156 W	24	85
6 20	18 50.41	−21 26.2	2.648	3.645	3.6	22.1	167 W	24	85
6 30	18 41.48	−21 41.8	2.614	3.630	0.5	21.8	178 W	23	86
7 10	18 32.35	−21 56.7	2.609	3.614	2.9	22.0	169 E	23	86
7 20	18 23.73	−22 10.2	2.635	3.597	6.1	22.2	158 E	23	86
7 30	18 16.30	−22 21.9	2.687	3.579	9.0	22.3	147 E	23	86
360491 2002 VB_{92}									
6 10	18 58.79	+21 45.5	2.059	2.805	16.5	21.6	128 W	67	42
6 15	18 53.89	+22 35.3	2.047	2.812	16.0	21.6	130 W	68	41
6 20	18 48.63	+23 16.9	2.041	2.819	15.7	21.6	132 W	68	41
6 25	18 43.11	+23 49.7	2.039	2.826	15.4	21.6	132 W	69	40
6 30	18 37.48	+24 13.3	2.043	2.832	15.3	21.6	133 W	69	40
7 5	18 31.85	+24 27.6	2.052	2.838	15.4	21.6	132 E	69	40
7 10	18 26.35	+24 32.6	2.065	2.844	15.5	21.6	132 E	70	39
7 15	18 21.10	+24 28.9	2.084	2.849	15.8	21.6	130 E	69	40
7 20	18 16.21	+24 16.7	2.107	2.854	16.1	21.7	129 E	69	40
7 25	18 11.78	+23 56.9	2.134	2.859	16.6	21.7	127 E	69	40
7 30	18 7.89	+23 30.4	2.166	2.863	17.0	21.8	124 E	69	40
428694 Saule									
6 10	19 2.48	− 0 4.1	1.194	2.108	16.1	22.3	145 W	45	64
6 15	18 55.73	+ 0 1.7	1.138	2.078	14.4	22.1	149 W	45	64
6 20	18 47.89	+ 0 0.2	1.088	2.047	12.9	21.9	153 W	45	64
6 25	18 39.05	− 0 9.7	1.044	2.016	11.8	21.7	156 W	45	64
6 30	18 29.37	− 0 28.9	1.006	1.983	11.4	21.6	157 E	45	64
7 5	18 19.05	− 0 57.7	0.975	1.950	12.1	21.5	156 E	44	65
7 10	18 8.35	− 1 36.3	0.951	1.915	13.8	21.5	153 E	43	66
7 15	17 57.58	− 2 24.3	0.934	1.879	16.2	21.5	149 E	43	66
7 20	17 47.04	− 3 20.9	0.923	1.843	19.1	21.5	144 E	42	67
7 25	17 37.05	− 4 25.0	0.917	1.805	22.1	21.6	138 E	41	68
434344 2004 RV_{10}									
6 10	19 4.69	+42 9.7	1.120	1.750	33.1	22.6	110 W	87	22
6 15	18 57.97	+42 45.3	1.098	1.744	32.9	22.6	111 W	88	21
6 20	18 50.31	+43 4.7	1.076	1.738	32.8	22.5	112 W	88	21
6 25	18 41.92	+43 5.7	1.056	1.731	32.7	22.5	113 W	88	21
6 30	18 33.10	+42 47.0	1.038	1.723	32.6	22.4	114 E	88	21
7 5	18 24.15	+42 7.6	1.021	1.715	32.6	22.4	115 E	87	22
7 10	18 15.38	+41 7.1	1.006	1.706	32.7	22.3	115 E	86	23
7 15	18 7.10	+39 45.5	0.993	1.697	32.8	22.3	115 E	85	24
7 20	17 59.58	+38 3.6	0.983	1.686	33.1	22.3	115 E	83	26
7 25	17 53.05	+36 2.7	0.975	1.675	33.5	22.3	115 E	81	28
356285 2010 DE									
6 10	19 7.22	+11 11.0	2.133	2.948	13.9	22.1	136 W	56	53
6 20	18 58.40	+11 38.1	2.079	2.944	12.4	22.0	142 W	57	52
6 30	18 48.40	+11 38.9	2.047	2.939	11.4	21.9	145 W	57	52
7 10	18 38.09	+11 12.1	2.039	2.932	11.4	21.9	145 E	56	53

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		356285 2010 *DE*				*(continuation)*			
	h m	° ′			°	m	°	°	°
7 20	18 28.35	+10 19.1	2.055	2.924	12.4	21.9	142 E	55	54
7 30	18 20.02	+ 9 4.0	2.095	2.914	13.9	22.0	136 E	54	55
		26379 1999 HZ_1							
6 10	19 7.74	−16 54.0	1.581	2.526	10.7	21.7	153 W	28	81
6 20	18 54.05	−16 41.1	1.525	2.519	6.2	21.4	165 W	28	81
6 30	18 38.60	−16 31.3	1.497	2.510	2.7	21.2	173 W	28	81
7 10	18 22.90	−16 24.0	1.499	2.497	5.7	21.3	166 E	29	80
7 20	18 8.45	−16 19.4	1.530	2.482	10.5	21.6	154 E	29	80
7 30	17 56.55	−16 18.2	1.587	2.465	14.8	21.8	142 E	29	80
		496873 2000 SJ_9							
6 10	19 8.33	−58 27.5	2.849	3.677	10.4	22.2	139 W	—	58
6 15	19 1.55	−58 48.8	2.827	3.674	10.0	22.1	141 W	—	57
6 20	18 54.17	−59 4.4	2.811	3.672	9.6	22.1	143 W	—	57
6 25	18 46.36	−59 13.7	2.800	3.670	9.4	22.1	144 W	—	57
6 30	18 38.34	−59 16.2	2.796	3.667	9.4	22.1	144 W	—	57
7 5	18 30.32	−59 11.8	2.798	3.664	9.6	22.1	143 E	—	57
7 10	18 22.50	−59 0.6	2.806	3.661	9.9	22.1	142 E	—	57
7 15	18 15.09	−58 42.9	2.820	3.657	10.3	22.1	140 E	—	57
7 20	18 8.26	−58 19.2	2.840	3.654	10.8	22.2	137 E	—	58
7 25	18 2.17	−57 50.3	2.865	3.650	11.5	22.2	134 E	—	58
7 30	17 56.90	−57 17.0	2.896	3.646	12.1	22.2	131 E	—	59
		206910 2004 NL_8							
6 10	19 9.51	−16 55.4	2.405	3.337	8.2	22.2	152 W	28	81
6 20	19 0.04	−17 5.0	2.295	3.282	5.0	21.9	163 W	28	81
6 30	18 48.93	−17 18.6	2.213	3.225	2.1	21.6	173 W	28	81
7 10	18 36.98	−17 35.1	2.162	3.167	3.4	21.6	169 E	27	82
7 20	18 25.08	−17 53.2	2.142	3.107	7.1	21.7	158 E	27	82
7 30	18 14.22	−18 12.0	2.150	3.045	10.7	21.9	146 E	27	82
		259871 2004 DP_1							
6 10	19 10.00	−23 27.6	2.023	2.965	8.9	22.0	153 W	22	87
6 20	19 0.95	−23 43.8	1.948	2.941	5.2	21.7	165 W	21	88
6 30	18 50.33	−23 59.3	1.900	2.916	1.1	21.4	177 W	21	88
7 10	18 39.10	−24 11.6	1.881	2.890	3.2	21.5	171 E	21	88
7 20	18 28.34	−24 19.6	1.891	2.863	7.3	21.7	159 E	21	88
7 30	18 19.10	−24 23.3	1.926	2.834	11.2	21.9	147 E	21	88
		446935 2002 XZ_{38}							
6 10	19 12.52	−13 47.5	1.728	2.659	10.9	22.1	150 W	31	78
6 20	19 0.51	−12 55.3	1.718	2.700	6.9	21.9	161 W	32	77
6 30	18 47.69	−12 11.4	1.736	2.740	4.2	21.9	169 W	33	76
7 10	18 35.25	−11 36.9	1.783	2.779	5.3	22.0	165 E	33	76
7 20	18 24.24	−11 12.4	1.859	2.816	8.6	22.3	156 E	34	75
		461377 2001 FR_{127}							
6 10	19 16.30	+33 38.9	0.964	1.681	32.8	21.4	116 W	79	30
6 15	19 11.77	+34 51.2	0.953	1.682	32.4	21.4	117 W	80	29
6 20	19 6.38	+35 48.0	0.943	1.684	32.1	21.4	118 W	81	28
6 25	19 0.30	+36 27.5	0.936	1.685	31.8	21.3	119 W	81	28
6 30	18 53.76	+36 48.6	0.931	1.686	31.5	21.3	120 W	82	27
7 5	18 47.01	+36 50.6	0.927	1.687	31.4	21.3	120 E	82	27
7 10	18 40.32	+36 33.4	0.925	1.687	31.3	21.3	121 E	82	27
7 15	18 33.94	+35 57.4	0.925	1.687	31.3	21.3	121 E	81	28
7 20	18 28.12	+35 3.1	0.928	1.687	31.3	21.3	120 E	80	29
7 25	18 23.08	+33 52.0	0.932	1.686	31.5	21.3	120 E	79	30
7 30	18 18.99	+32 25.9	0.938	1.685	31.7	21.3	119 E	77	32
8 4	18 15.96	+30 46.9	0.947	1.684	32.0	21.4	118 E	76	33
8 9	18 14.04	+28 57.1	0.957	1.683	32.4	21.4	117 E	74	35
8 14	18 13.24	+26 58.7	0.970	1.681	32.8	21.4	116 E	72	37
8 19	18 13.57	+24 53.6	0.985	1.679	33.3	21.5	114 E	70	39
		370181 2002 CX_{46}							
6 10	19 24.96	−55 54.6	2.782	3.612	10.6	22.4	139 W	—	60
6 15	19 18.63	−56 14.0	2.755	3.609	10.0	22.3	142 W	—	60
6 20	19 11.66	−56 28.2	2.734	3.607	9.5	22.3	144 W	—	60
6 25	19 4.20	−56 36.6	2.719	3.604	9.2	22.3	146 W	—	59
6 30	18 56.44	−56 38.6	2.710	3.601	9.0	22.3	146 W	—	59
7 5	18 48.58	−56 33.9	2.708	3.598	9.0	22.3	146 E	—	59
7 10	18 40.81	−56 22.4	2.712	3.594	9.3	22.3	145 E	—	60
7 15	18 33.34	−56 4.4	2.722	3.590	9.7	22.3	143 E	—	60
7 20	18 26.34	−55 40.3	2.739	3.586	10.3	22.3	141 E	—	60
7 25	18 19.96	−55 10.6	2.761	3.582	10.9	22.4	138 E	—	61
7 30	18 14.34	−54 36.3	2.789	3.578	11.6	22.4	135 E	—	61
		470367 2007 TQ_{68}							
6 10	19 28.08	+ 5 50.8	2.142	2.960	13.7	21.9	136 W	51	58
6 20	19 20.48	+ 6 46.5	2.076	2.954	11.9	21.8	143 W	52	57
6 30	19 11.40	+ 7 21.6	2.032	2.946	10.4	21.7	148 W	52	57
7 10	19 1.59	+ 7 33.4	2.013	2.938	10.0	21.6	150 E	53	56

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		470367 2007 TQ_{68}				*(continuation)*			
	h m	° ′			°	m	°	°	°
7 20	18 51.91	+ 7 21.3	2.019	2.928	10.7	21.6	148 E	52	57
7 30	18 43.24	+ 6 47.3	2.049	2.917	12.3	21.7	142 E	52	57
		390927 2005 *FO*							
6 10	19 29.16	−34 3.9	2.959	3.860	7.9	22.3	148 W	11	82
6 20	19 21.01	−34 34.8	2.884	3.846	5.6	22.2	158 W	10	81
6 30	19 11.49	−34 59.2	2.836	3.830	3.7	22.0	166 W	10	81
7 10	19 1.28	−35 14.3	2.818	3.814	3.6	22.0	167 E	10	81
7 20	18 51.19	−35 18.7	2.830	3.797	5.4	22.1	159 E	10	81
7 30	18 42.02	−35 12.5	2.869	3.779	7.8	22.2	149 E	10	81
		368150 1992 *DC*							
6 10	19 30.86	−36 40.2	1.936	2.845	11.1	21.5	147 W	8	79
6 15	19 25.49	−36 57.4	1.926	2.865	9.4	21.4	152 W	8	79
6 20	19 19.60	−37 11.7	1.922	2.886	7.8	21.4	157 W	8	79
6 25	19 13.33	−37 22.3	1.924	2.906	6.4	21.3	161 W	8	79
6 30	19 6.84	−37 28.9	1.934	2.925	5.4	21.3	164 W	8	79
7 5	19 0.31	−37 31.1	1.950	2.945	5.0	21.3	165 W	7	78
7 10	18 53.90	−37 28.9	1.973	2.964	5.5	21.4	164 E	8	79
7 15	18 47.76	−37 22.5	2.004	2.982	6.4	21.5	161 E	8	79
7 20	18 42.05	−37 12.2	2.041	3.001	7.7	21.6	157 E	8	79
7 25	18 36.87	−36 58.6	2.085	3.019	9.1	21.7	152 E	8	79
7 30	18 32.33	−36 42.0	2.135	3.037	10.5	21.8	147 E	8	79
8 4	18 28.48	−36 23.3	2.190	3.055	11.8	21.9	142 E	9	80
		280042 2002 *AB*							
6 10	19 31.60	−46 42.0	2.516	3.387	10.3	21.5	144 W	—	69
6 15	19 26.56	−47 29.5	2.498	3.396	9.4	21.5	147 W	—	69
6 20	19 20.90	−48 13.4	2.487	3.404	8.6	21.4	150 W	—	68
6 25	19 14.71	−48 52.9	2.482	3.413	8.0	21.4	152 W	—	67
6 30	19 8.13	−49 27.1	2.484	3.421	7.8	21.4	153 W	—	67
7 5	19 1.32	−49 55.5	2.493	3.429	7.8	21.4	153 W	—	66
7 10	18 54.44	−50 17.8	2.508	3.437	8.1	21.4	152 E	—	66
7 15	18 47.66	−50 33.9	2.531	3.444	8.7	21.5	149 E	—	65
7 20	18 41.15	−50 43.9	2.559	3.452	9.4	21.6	146 E	—	65
7 25	18 35.07	−50 48.0	2.594	3.459	10.2	21.6	143 E	—	65
7 30	18 29.56	−50 47.0	2.635	3.466	11.1	21.7	139 E	—	65
8 4	18 24.71	−50 41.3	2.681	3.472	11.9	21.8	135 E	—	65
		413303 2003 UC_{223}							
6 10	19 32.91	− 0 16.6	2.412	3.249	11.8	21.7	139 W	45	64
6 20	19 25.09	+ 0 28.8	2.358	3.262	9.6	21.6	148 W	45	64
6 30	19 16.02	+ 0 59.1	2.329	3.273	7.8	21.5	154 W	46	63
7 10	19 6.41	+ 1 13.0	2.327	3.283	7.1	21.4	156 E	46	63
7 20	18 57.01	+ 1 10.5	2.352	3.293	7.9	21.5	154 E	46	63
7 30	18 48.56	+ 0 53.2	2.403	3.301	9.7	21.6	147 E	46	63
		190491 2000 FJ_{10}							
6 10	19 39.30	− 8 13.6	0.631	1.562	23.6	22.0	142 W	37	72
6 15	19 35.25	− 7 41.3	0.598	1.552	20.9	21.8	147 W	37	72
6 20	19 29.80	− 7 14.2	0.569	1.542	18.0	21.6	152 W	38	71
6 25	19 22.99	− 6 53.5	0.544	1.532	15.1	21.3	157 W	38	71
6 30	19 15.00	− 6 40.1	0.522	1.520	12.5	21.1	161 W	38	71
7 5	19 6.07	− 6 34.9	0.505	1.508	10.9	21.0	164 W	38	71
7 10	18 56.54	− 6 38.3	0.493	1.496	11.1	20.9	164 E	38	71
7 15	18 46.77	− 6 50.4	0.485	1.483	13.0	20.9	161 E	38	71
7 20	18 37.23	− 7 11.0	0.481	1.470	16.2	21.0	156 E	38	71
7 25	18 28.35	− 7 39.4	0.482	1.455	19.9	21.1	151 E	37	72
7 30	18 20.52	− 8 14.4	0.486	1.441	23.7	21.2	145 E	37	72
8 4	18 14.04	− 8 54.5	0.493	1.426	27.5	21.4	140 E	36	73
8 9	18 9.06	− 9 38.7	0.503	1.410	31.1	21.5	134 E	35	74
		100004 1983 *VA*							
6 10	19 41.31	−31 2.3	3.207	4.090	7.9	22.4	146 W	14	85
6 20	19 33.22	−31 47.1	3.108	4.062	5.7	22.3	157 W	13	84
6 30	19 23.59	−32 28.9	3.039	4.033	3.5	22.1	166 W	13	84
7 10	19 13.00	−33 4.1	3.000	4.003	2.7	22.0	169 E	12	83
7 20	19 2.15	−33 30.4	2.991	3.971	4.5	22.1	162 E	11	82
7 30	18 51.84	−33 46.5	3.013	3.938	7.0	22.2	152 E	11	82
		497586 2006 HS_{61}							
6 10	19 48.63	−58 29.6	2.819	3.610	11.5	22.4	135 W	—	58
6 15	19 43.16	−59 10.3	2.789	3.605	11.0	22.4	138 W	—	57
6 20	19 36.79	−59 46.7	2.766	3.600	10.6	22.4	140 W	—	56
6 25	19 29.64	−60 17.8	2.748	3.594	10.3	22.3	141 W	—	56
6 30	19 21.85	−60 42.7	2.736	3.589	10.1	22.3	142 W	—	55
7 5	19 13.63	−61 0.7	2.729	3.583	10.1	22.3	142 W	—	55
7 10	19 5.18	−61 11.4	2.729	3.577	10.3	22.3	141 E	—	55
7 15	18 56.74	−61 14.7	2.735	3.571	10.6	22.3	140 E	—	55
7 20	18 48.56	−61 10.5	2.746	3.564	11.1	22.3	138 E	—	55
7 25	18 40.86	−60 59.3	2.763	3.557	11.6	22.4	135 E	—	55

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
497586 2006 HS_{61} *(continuation)*									
	h m	° ′			°	m	°	°	°
7 30	18 33.85	−60 41.7	2.785	3.551	12.2	22.4	132 E	—	55
8 4	18 27.66	−60 18.4	2.813	3.543	12.8	22.4	129 E	—	56
377145 2003 QM_{99}									
6 10	19 52.74	+ 3 18.2	1.806	2.608	16.5	21.5	133 W	48	61
6 20	19 47.18	+ 3 28.7	1.703	2.578	14.2	21.2	142 W	48	61
6 30	19 39.32	+ 3 14.8	1.619	2.547	11.7	21.0	149 W	48	61
7 10	19 29.78	+ 2 33.2	1.557	2.516	9.8	20.8	155 W	48	61
7 20	19 19.41	+ 1 23.3	1.520	2.483	9.6	20.7	156 E	46	63
7 30	19 9.37	− 0 11.8	1.509	2.450	11.4	20.7	152 E	45	64
8 9	19 0.77	− 2 5.7	1.522	2.416	14.3	20.8	144 E	43	66
8 19	18 54.51	− 4 10.2	1.557	2.382	17.5	21.0	135 E	41	68
8 29	18 51.18	− 6 17.7	1.610	2.346	20.5	21.1	126 E	39	70
9 8	18 51.04	− 8 21.3	1.677	2.310	23.0	21.2	117 E	37	72
9 18	18 54.06	−10 16.6	1.754	2.274	24.9	21.4	108 E	35	74
9 28	19 0.10	−12 0.4	1.837	2.237	26.2	21.5	100 E	33	76
18514 1996 TE_{11}									
6 10	20 8.34	+ 9 27.1	2.632	3.335	14.2	21.4	126 W	54	55
6 20	20 3.17	+ 9 59.5	2.514	3.304	12.7	21.2	134 W	55	54
6 30	19 56.21	+10 13.6	2.416	3.272	11.2	21.1	141 W	55	54
7 10	19 47.88	+10 5.9	2.340	3.239	9.9	20.9	147 W	55	54
7 20	19 38.75	+ 9 34.8	2.288	3.205	9.3	20.8	149 E	55	54
7 30	19 29.57	+ 8 40.5	2.263	3.170	9.8	20.8	148 E	54	55
8 9	19 21.13	+ 7 25.9	2.262	3.133	11.2	20.8	143 E	52	57
8 19	19 14.11	+ 5 55.7	2.286	3.096	13.1	20.9	136 E	51	58
8 29	19 9.07	+ 4 15.6	2.331	3.058	15.1	21.0	128 E	49	60
9 8	19 6.30	+ 2 31.6	2.393	3.018	16.9	21.1	119 E	48	61
9 18	19 5.93	+ 0 48.6	2.469	2.977	18.4	21.2	111 E	46	63
9 28	19 7.95	− 0 49.3	2.554	2.936	19.5	21.3	102 E	44	65
10 8	19 12.22	− 2 19.2	2.645	2.893	20.2	21.3	94 E	43	66*
10 18	19 18.57	− 3 39.4	2.737	2.849	20.4	21.4	86 E	41*	63*
10 28	19 26.81	− 4 48.4	2.829	2.804	20.3	21.4	78 E	40*	59*
11 7	19 36.72	− 5 45.7	2.916	2.758	19.9	21.4	71 E	38*	52*
11 17	19 48.12	− 6 30.9	2.997	2.711	19.1	21.4	64 E	37*	45*
11 27	20 0.83	− 7 3.8	3.069	2.662	18.1	21.4	57 E	35*	38*
12 7	20 14.68	− 7 24.7	3.131	2.613	16.9	21.4	50 E	33*	31*
12 17	20 29.54	− 7 33.6	3.182	2.563	15.4	21.3	44 E	30*	24*
12 27	20 45.28	− 7 31.0	3.220	2.512	13.8	21.2	37 E	27*	17*
1 6	21 1.78	− 7 17.3	3.245	2.459	12.0	21.1	31 E	23*	12*
1 16	21 18.97	− 6 53.1	3.257	2.406	10.1	21.0	26 E	19*	6*
433997 2000 SH_{52}									
6 10	20 17.08	−22 39.0	1.107	1.981	20.1	21.2	138 W	22	87
6 20	20 15.96	−22 39.4	1.014	1.950	16.2	20.9	148 W	22	87
6 30	20 11.18	−22 46.6	0.938	1.920	11.3	20.5	158 W	22	87
7 10	20 3.17	−22 57.4	0.882	1.890	5.6	20.1	169 W	22	87
7 15	19 58.24	−23 2.5	0.861	1.876	2.7	19.8	175 W	22	87
7 20	19 52.95	−23 6.7	0.846	1.862	1.5	19.7	177 E	22	87
7 25	19 47.53	−23 9.3	0.836	1.848	4.3	19.8	172 E	22	87
7 30	19 42.25	−23 9.7	0.832	1.834	7.6	20.0	166 E	22	87
8 4	19 37.36	−23 7.8	0.833	1.821	10.8	20.1	160 E	22	87
8 9	19 33.08	−23 3.5	0.839	1.808	13.9	20.2	155 E	22	87
8 14	19 29.61	−22 56.9	0.849	1.795	16.8	20.3	149 E	22	87
8 19	19 27.09	−22 48.0	0.863	1.783	19.6	20.4	144 E	22	87
8 29	19 25.34	−22 24.2	0.903	1.760	24.5	20.6	134 E	23	86
9 8	19 28.10	−21 53.2	0.953	1.738	28.4	20.9	125 E	23	86
9 18	19 35.13	−21 15.3	1.013	1.719	31.5	21.0	117 E	24	85
9 28	19 45.99	−20 29.6	1.078	1.701	33.7	21.2	110 E	25	84
10 8	20 0.06	−19 34.5	1.148	1.686	35.2	21.4	103 E	25	84
506442 2001 AW_{19}									
6 10	20 29.72	−21 50.8	1.569	2.396	17.5	21.4	135 W	23	86
6 20	20 23.85	−20 46.4	1.453	2.362	14.1	21.1	146 W	24	85
6 30	20 14.52	−19 38.2	1.357	2.326	9.9	20.7	157 W	25	84
7 10	20 2.27	−18 24.6	1.285	2.291	4.9	20.4	169 W	27	82
7 15	19 55.35	−17 45.7	1.259	2.272	2.5	20.2	174 W	27	82
7 20	19 48.13	−17 5.7	1.240	2.254	1.9	20.1	176 E	28	81
7 25	19 40.84	−16 24.9	1.227	2.236	4.3	20.2	171 E	29	80
7 30	19 33.70	−15 43.6	1.222	2.217	7.0	20.3	164 E	29	80
8 4	19 26.91	−15 2.4	1.224	2.199	9.8	20.4	158 E	30	79
8 9	19 20.67	−14 21.9	1.232	2.180	12.6	20.5	152 E	31	78
8 19	19 10.44	−13 4.7	1.264	2.142	17.6	20.7	140 E	32	77
8 29	19 3.90	−11 54.7	1.314	2.104	21.8	20.9	129 E	33	76
9 8	19 1.32	−10 52.2	1.378	2.066	25.2	21.0	119 E	34	75
9 18	19 2.58	− 9 56.0	1.450	2.027	27.8	21.2	110 E	35	74
9 28	19 7.40	− 9 3.6	1.526	1.989	29.6	21.3	102 E	36	73
10 8	19 15.35	− 8 12.1	1.604	1.951	30.7	21.4	94 E	37	72*
10 18	19 26.01	− 7 18.6	1.680	1.913	31.4	21.5	87 E	38*	68*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
405212 2003 QC_{10}									
	h m	° ′			°	m	°	°	°
6 10	20 48.95	−25 38.3	1.412	2.217	20.2	21.5	131 W	19	90
6 20	20 35.69	−26 51.3	1.350	2.251	15.5	21.3	144 W	18	89
6 30	20 18.03	−28 6.0	1.311	2.281	10.2	21.0	157 W	17	88
7 10	19 57.24	−29 10.1	1.301	2.306	4.9	20.8	169 W	16	87
7 20	19 35.41	−29 53.4	1.322	2.328	4.6	20.8	169 E	15	86
7 30	19 15.00	−30 11.7	1.374	2.346	9.4	21.2	158 E	15	86
8 9	18 58.04	−30 8.2	1.454	2.360	14.1	21.5	145 E	15	86
162149 1998 YQ_{11}									
6 10	20 49.08	− 7 6.7	1.680	2.420	19.9	21.3	126 W	38	71
6 20	20 42.96	− 6 22.9	1.608	2.445	16.7	21.2	136 W	39	70
6 30	20 33.93	− 5 54.0	1.554	2.469	13.0	21.0	147 W	39	70
7 10	20 22.60	− 5 41.2	1.522	2.491	9.1	20.8	157 W	39	70
7 20	20 9.94	− 5 44.5	1.516	2.511	6.1	20.7	165 W	39	70
7 30	19 57.19	− 6 2.2	1.537	2.529	6.3	20.7	164 E	39	70
8 9	19 45.65	− 6 30.7	1.586	2.545	9.3	21.0	156 E	38	71
8 19	19 36.32	− 7 5.8	1.660	2.560	12.9	21.2	146 E	38	71
8 29	19 29.84	− 7 43.5	1.755	2.573	16.0	21.4	135 E	37	72
257536 1998 EU_3									
6 10	20 51.62	−24 10.1	1.407	2.204	20.6	21.4	130 W	21*	88
6 20	20 47.30	−25 0.5	1.342	2.225	16.8	21.2	141 W	20	89
6 30	20 39.33	−25 59.5	1.295	2.244	12.3	21.0	152 W	19	90
7 10	20 28.33	−26 59.9	1.270	2.263	7.4	20.7	163 W	18	89
7 20	20 15.40	−27 53.2	1.269	2.280	3.7	20.6	172 W	17	88
7 30	20 2.18	−28 32.3	1.295	2.296	5.7	20.7	167 E	16	87
8 9	19 50.35	−28 53.7	1.346	2.311	10.1	21.0	156 E	16	87
8 19	19 41.21	−28 58.0	1.420	2.325	14.4	21.3	145 E	16	87
253444 2003 RA_6									
6 10	20 54.14	−12 23.2	1.625	2.376	20.0	21.3	127 W	33*	76
6 20	20 53.32	−11 52.8	1.499	2.340	17.5	21.0	136 W	33	76
6 30	20 49.50	−11 33.7	1.388	2.304	14.2	20.7	146 W	33	76
7 10	20 42.74	−11 27.1	1.296	2.267	10.1	20.4	157 W	34	75
7 20	20 33.40	−11 33.4	1.226	2.229	5.6	20.0	168 W	33	76
7 30	20 22.40	−11 51.0	1.181	2.191	3.5	19.8	172 E	33	76
8 4	20 16.69	−12 3.1	1.167	2.172	5.1	19.8	169 E	33	76
8 9	20 11.09	−12 16.8	1.160	2.152	7.5	19.9	164 E	33	76
8 14	20 5.79	−12 31.5	1.159	2.133	10.1	20.0	158 E	32	77
8 19	20 0.96	−12 46.7	1.164	2.114	12.8	20.1	153 E	32	77
8 24	19 56.78	−13 2.0	1.173	2.094	15.3	20.2	147 E	32	77
8 29	19 53.38	−13 16.8	1.188	2.075	17.7	20.3	141 E	32	77
9 8	19 49.25	−13 43.5	1.229	2.036	22.0	20.5	131 E	31	78
9 18	19 48.95	−14 4.3	1.283	1.996	25.5	20.6	121 E	31	78
9 28	19 52.51	−14 16.9	1.345	1.958	28.3	20.8	112 E	31	78
10 8	19 59.64	−14 19.6	1.413	1.919	30.3	20.9	104 E	31	78
10 18	20 9.97	−14 11.1	1.483	1.881	31.7	21.0	97 E	31	78*
10 28	20 23.11	−13 49.9	1.553	1.844	32.6	21.1	90 E	31	75*
11 7	20 38.63	−13 15.0	1.621	1.807	33.0	21.1	84 E	32	69*
11 17	20 56.18	−12 25.7	1.687	1.772	33.1	21.2	78 E	33	63*
11 27	21 15.46	−11 21.3	1.750	1.739	32.9	21.2	73 E	34*	56*
12 7	21 36.16	−10 1.9	1.810	1.707	32.4	21.2	68 E	35*	50*
12 17	21 58.06	− 8 27.8	1.866	1.677	31.7	21.2	64 E	36*	44*
12 27	22 21.00	− 6 39.8	1.918	1.649	30.8	21.2	59 E	37*	38*
1 6	22 44.80	− 4 39.1	1.967	1.624	29.9	21.2	55 E	37*	33*
1 16	23 9.37	− 2 27.5	2.014	1.602	28.8	21.2	52 E	37*	29*
485717 2012 BH_1									
6 10	20 55.16	+ 2 37.9	1.339	2.048	25.4	21.5	120 W	48*	61
6 15	20 54.78	+ 2 3.0	1.284	2.044	24.0	21.3	125 W	47	62
6 20	20 53.54	+ 1 17.7	1.232	2.040	22.4	21.2	130 W	46	63
6 25	20 51.40	+ 0 20.9	1.183	2.036	20.5	21.0	135 W	45	64
6 30	20 48.36	− 0 48.1	1.138	2.032	18.4	20.9	141 W	44	65
7 5	20 44.44	− 2 9.9	1.098	2.027	15.9	20.7	147 W	43	66
7 10	20 39.67	− 3 44.6	1.063	2.022	13.3	20.5	153 W	41	68
7 15	20 34.14	− 5 31.6	1.035	2.017	10.4	20.4	159 W	39	70
7 20	20 27.96	− 7 29.7	1.013	2.012	7.5	20.2	165 W	38	71
7 25	20 21.32	− 9 36.8	0.998	2.006	5.1	20.0	170 W	35	74
7 30	20 14.43	−11 49.9	0.991	2.000	4.4	20.0	171 E	33	76
8 4	20 7.52	−14 5.9	0.991	1.994	6.2	20.1	168 E	31	78
8 9	20 0.84	−16 21.3	0.999	1.988	9.1	20.2	162 E	29	80
8 14	19 54.61	−18 33.1	1.014	1.981	12.2	20.3	156 E	26	83
8 19	19 49.06	−20 38.6	1.036	1.974	15.2	20.5	149 E	24	85
8 24	19 44.36	−22 36.0	1.064	1.967	18.0	20.6	143 E	22	87
8 29	19 40.65	−24 23.9	1.097	1.960	20.6	20.8	137 E	21	88
9 3	19 38.03	−26 1.9	1.135	1.952	22.9	20.9	131 E	19	90
9 8	19 36.51	−27 29.9	1.177	1.945	24.9	21.0	126 E	17	88
9 13	19 36.13	−28 48.3	1.222	1.937	26.6	21.2	120 E	16	87
9 18	19 36.85	−29 57.4	1.270	1.929	28.0	21.3	115 E	15	86
9 23	19 38.67	−30 58.0	1.319	1.921	29.2	21.4	111 E	14	85
9 28	19 41.52	−31 50.6	1.370	1.912	30.2	21.5	106 E	13	84

377172 2003 US_5

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 10	21 14.30	−20 32.3	1.536	2.270	21.7	21.4	124 W	24*	85
6 20	21 15.67	−20 25.5	1.412	2.237	19.2	21.1	134 W	25	84
6 30	21 13.84	−20 28.9	1.303	2.205	15.9	20.8	144 W	25	84
7 10	21 8.69	−20 41.2	1.211	2.172	11.8	20.4	154 W	24	85
7 20	21 0.39	−20 59.3	1.140	2.138	6.9	20.0	165 W	24	85
7 25	20 55.26	−21 8.9	1.112	2.122	4.2	19.8	171 W	24	85
7 30	20 49.68	−21 17.8	1.091	2.105	1.9	19.6	176 W	24	85
8 4	20 43.84	−21 25.3	1.076	2.089	2.5	19.6	175 E	24	85
8 9	20 37.94	−21 30.7	1.067	2.072	5.2	19.8	169 E	23	86
8 14	20 32.20	−21 33.5	1.064	2.055	8.1	19.9	163 E	23	86
8 19	20 26.82	−21 33.3	1.067	2.039	11.0	20.0	157 E	23	86
8 24	20 22.04	−21 30.0	1.075	2.022	13.7	20.1	152 E	24	85
8 29	20 18.00	−21 23.5	1.088	2.006	16.4	20.2	146 E	24	85
9 8	20 12.66	−21 1.5	1.127	1.974	21.1	20.4	135 E	24	85
9 18	20 11.32	−20 28.8	1.180	1.942	25.0	20.6	125 E	25	84
9 28	20 14.07	−19 46.4	1.242	1.910	28.1	20.7	116 E	25	84
10 8	20 20.57	−18 54.8	1.312	1.880	30.3	20.9	108 E	26	83
10 18	20 30.37	−17 53.9	1.385	1.851	31.9	21.0	101 E	27	82
10 28	20 43.01	−16 42.9	1.461	1.822	32.9	21.1	94 E	28	80*
11 7	20 57.99	−15 21.1	1.536	1.796	33.5	21.2	88 E	30	74*
11 17	21 14.90	−13 47.9	1.611	1.770	33.6	21.3	82 E	31	67*
11 27	21 33.40	−12 3.0	1.684	1.747	33.4	21.3	77 E	33	60*
12 7	21 53.18	−10 6.5	1.755	1.726	32.9	21.4	72 E	35*	54*
12 17	22 14.01	− 7 58.8	1.824	1.707	32.2	21.4	67 E	37*	47*
12 27	22 35.71	− 5 40.8	1.891	1.690	31.2	21.5	63 E	38*	41*
1 6	22 58.14	− 3 13.8	1.955	1.676	30.2	21.5	59 E	39*	36*

307493 2002 XP_{90}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 10	21 15.70	−35 39.0	1.050	1.845	26.2	21.1	127 W	9*	80
6 15	21 21.63	−37 31.2	0.979	1.806	25.6	20.9	130 W	7*	78
6 20	21 27.36	−39 39.4	0.912	1.766	25.0	20.7	133 W	5	76
6 25	21 32.87	−42 5.2	0.849	1.726	24.5	20.5	135 W	3	74
6 30	21 38.13	−44 49.4	0.791	1.686	24.1	20.3	137 W	—	71
7 10	21 47.92	−51 14.9	0.691	1.603	24.6	19.9	139 W	—	65
7 20	21 56.53	−58 50.3	0.612	1.519	27.5	19.6	136 W	—	57
7 30	22 3.88	−67 10.6	0.556	1.434	33.2	19.4	129 W	—	49
8 4	22 7.25	−71 25.6	0.534	1.391	36.8	19.3	125 W	—	45
8 9	22 10.67	−75 37.2	0.517	1.348	40.8	19.3	120 W	—	40
8 14	22 14.67	−79 40.8	0.503	1.305	44.9	19.3	115 W	—	36
8 19	22 21.18	−83 33.0	0.491	1.262	49.3	19.3	109 W	—	32
8 20	22 23.31	−84 17.9	0.489	1.253	50.1	19.3	108 W	—	32
8 21	22 26.02	−85 2.2	0.487	1.245	51.0	19.3	107 W	—	31
8 22	22 29.60	−85 45.8	0.485	1.236	51.9	19.3	106 W	—	30
8 23	22 34.60	−86 28.9	0.483	1.228	52.7	19.3	105 W	—	30
8 24	22 42.06	−87 11.3	0.481	1.219	53.6	19.3	104 W	—	29
8 25	22 54.37	−87 52.9	0.479	1.211	54.5	19.3	103 W	—	28
8 26	23 18.18	−88 33.3	0.477	1.202	55.3	19.3	102 W	—	27
8 27	0 19.73	−89 10.7	0.475	1.194	56.2	19.3	101 W	—	27
8 28	4 3.40	−89 32.5	0.473	1.186	57.1	19.3	100 W	—	26
8 29	7 46.25	−89 11.1	0.471	1.177	58.0	19.3	99 W	—	27*
8 30	8 47.50	−88 35.0	0.469	1.169	58.8	19.3	98 W	—	27*
8 31	9 11.14	−87 56.9	0.467	1.161	59.7	19.3	97 W	—	27*
9 1	9 23.29	−87 18.4	0.465	1.153	60.6	19.3	96 W	—	27*
9 2	9 30.57	−86 40.0	0.463	1.145	61.5	19.3	95 W	—	27*
9 3	9 35.34	−86 1.8	0.461	1.136	62.3	19.3	94 W	—	27*
9 4	9 38.66	−85 23.7	0.459	1.128	63.2	19.3	93 W	—	27*
9 5	9 41.07	−84 45.9	0.457	1.120	64.1	19.3	92 W	—	27*
9 6	9 42.86	−84 8.2	0.455	1.112	65.0	19.3	91 W	—	27*
9 7	9 44.22	−83 30.7	0.453	1.105	65.8	19.3	90 W	—	28*
9 8	9 45.25	−82 53.3	0.450	1.097	66.7	19.3	89 W	—	28*
9 9	9 46.05	−82 16.1	0.448	1.089	67.6	19.3	88 W	—	28*
9 10	9 46.67	−81 38.8	0.446	1.081	68.5	19.3	87 W	—	28*
9 11	9 47.14	−81 1.6	0.444	1.073	69.4	19.3	86 W	—	28*
9 12	9 47.51	−80 24.4	0.441	1.066	70.3	19.3	85 W	—	29*
9 13	9 47.78	−79 47.1	0.439	1.058	71.1	19.3	84 W	—	29*
9 14	9 47.97	−79 9.6	0.436	1.051	72.0	19.3	84 W	—	29*
9 15	9 48.11	−78 32.0	0.434	1.044	72.9	19.3	83 W	—	30*
9 16	9 48.20	−77 54.2	0.431	1.036	73.8	19.3	82 W	—	30*
9 17	9 48.26	−77 16.1	0.428	1.029	74.7	19.3	81 W	—	30*
9 18	9 48.29	−76 37.6	0.425	1.022	75.6	19.3	80 W	—	30*
9 20	9 48.29	−75 19.4	0.420	1.008	77.5	19.3	78 W	—	31*
9 22	9 48.27	−73 59.1	0.414	0.995	79.3	19.3	77 W	—	32*
9 24	9 48.27	−72 36.2	0.407	0.982	81.1	19.3	75 W	—	33*
9 26	9 48.34	−71 10.0	0.401	0.969	83.0	19.4	74 W	—	34*
9 28	9 48.52	−69 40.0	0.394	0.957	84.9	19.4	72 W	—	35*
9 30	9 48.85	−68 5.6	0.387	0.946	86.8	19.4	71 W	—	35*
10 2	9 49.36	−66 26.3	0.380	0.935	88.7	19.4	69 W	—	36*
10 4	9 50.09	−64 41.4	0.373	0.924	90.6	19.4	68 W	—	38*

307493 2002 XP_{90} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 6	9 51.05	−62 50.5	0.365	0.915	92.5	19.4	66 W	—	39*
10 8	9 52.26	−60 52.9	0.358	0.906	94.4	19.4	65 W	—	40*
10 13	9 56.51	−55 26.8	0.340	0.887	98.9	19.5	61 W	—	43*
10 18	10 2.55	−49 10.3	0.324	0.873	102.9	19.5	59 W	—	46*
10 23	10 10.38	−42 1.7	0.310	0.864	105.8	19.6	57 W	—	48*
10 28	10 19.90	−34 7.0	0.301	0.862	107.3	19.6	56 W	7*	50*
10 30	10 24.14	−30 47.6	0.299	0.862	107.3	19.6	56 W	11*	50*
11 1	10 28.60	−27 24.7	0.297	0.864	107.1	19.5	56 W	14*	50*
11 3	10 33.25	−23 59.9	0.297	0.866	106.5	19.5	57 W	18*	50*
11 5	10 38.09	−20 34.9	0.297	0.870	105.6	19.5	58 W	21*	49*
11 7	10 43.08	−17 11.4	0.299	0.874	104.4	19.4	59 W	25*	49*
11 9	10 48.20	−13 50.9	0.301	0.879	102.9	19.4	60 W	29*	48*
11 11	10 53.43	−10 34.8	0.304	0.885	101.2	19.3	61 W	32*	47*
11 13	10 58.73	− 7 24.2	0.308	0.891	99.4	19.3	63 W	36*	45*
11 15	11 4.08	− 4 20.1	0.313	0.899	97.3	19.2	64 W	39*	44*
11 17	11 9.45	− 1 23.0	0.319	0.907	95.2	19.2	66 W	42*	43*
11 22	11 22.87	+ 5 26.4	0.335	0.931	89.6	19.1	71 W	49*	40*
11 27	11 35.99	+11 28.3	0.354	0.959	83.9	19.1	75 W	56*	36*
12 2	11 48.57	+16 46.6	0.375	0.990	78.4	19.1	80 W	62*	34*
12 7	12 0.34	+21 28.1	0.397	1.025	73.1	19.1	84 W	66*	31*
12 12	12 11.08	+25 40.4	0.420	1.061	68.1	19.1	89 W	71	29*
12 17	12 20.58	+29 30.1	0.442	1.099	63.4	19.2	93 W	75	27*
12 22	12 28.64	+33 2.4	0.465	1.139	58.9	19.2	97 W	78	26*
12 27	12 35.10	+36 21.1	0.487	1.180	54.8	19.3	101 W	81	24*
1 1	12 39.79	+39 28.6	0.510	1.222	50.8	19.4	105 W	84	22*
1 6	12 42.52	+42 26.3	0.533	1.265	47.1	19.4	109 W	87	21*
1 11	12 43.09	+45 14.5	0.556	1.308	43.7	19.5	113 W	90	18*

351016 2003 QM_{78}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 10	21 19.85	−53 50.3	2.150	2.856	16.9	21.4	125 W	—	62
6 15	21 18.68	−54 32.3	2.094	2.838	16.3	21.3	128 W	—	61
6 20	21 16.37	−55 14.2	2.043	2.819	15.7	21.3	131 W	—	61
6 25	21 12.86	−55 55.0	1.995	2.801	15.1	21.2	134 W	—	60
6 30	21 8.14	−56 33.2	1.953	2.782	14.5	21.1	137 W	—	59
7 5	21 2.22	−57 7.3	1.915	2.763	14.0	21.0	139 W	—	59
7 10	20 55.17	−57 35.9	1.882	2.743	13.6	20.9	140 W	—	58
7 15	20 47.11	−57 57.3	1.854	2.724	13.4	20.9	141 W	—	58
7 20	20 38.25	−58 10.0	1.832	2.704	13.4	20.9	142 W	—	58
7 25	20 28.86	−58 12.9	1.815	2.685	13.7	20.8	141 W	—	58
7 30	20 19.28	−58 5.1	1.804	2.665	14.1	20.8	140 E	—	58
8 4	20 9.86	−57 46.3	1.798	2.645	14.7	20.8	139 E	—	58
8 9	20 0.92	−57 16.8	1.797	2.625	15.5	20.8	136 E	—	59
8 14	19 52.76	−56 37.1	1.802	2.604	16.4	20.8	133 E	—	59
8 19	19 45.60	−55 48.4	1.811	2.584	17.4	20.9	130 E	—	60
8 24	19 39.61	−54 51.8	1.825	2.564	18.4	20.9	127 E	—	61
8 29	19 34.88	−53 48.6	1.843	2.543	19.4	20.9	123 E	—	62
9 3	19 31.44	−52 40.4	1.864	2.522	20.3	21.0	120 E	—	63
9 8	19 29.24	−51 28.2	1.890	2.501	21.2	21.0	116 E	—	65
9 13	19 28.24	−50 13.2	1.918	2.480	22.1	21.1	112 E	—	66
9 18	19 28.37	−48 56.1	1.948	2.459	22.8	21.1	108 E	—	67
9 23	19 29.54	−47 37.8	1.981	2.438	23.5	21.1	105 E	—	68
9 28	19 31.66	−46 18.8	2.016	2.417	24.0	21.2	101 E	—	70
10 3	19 34.63	−44 59.4	2.052	2.396	24.5	21.2	97 E	—	71
10 8	19 38.36	−43 39.9	2.090	2.374	24.8	21.2	94 E	1	72
10 13	19 42.78	−42 20.5	2.128	2.353	25.1	21.3	90 E	3	73*
10 18	19 47.82	−41 1.0	2.166	2.332	25.3	21.3	87 E	4	74*
10 23	19 53.41	−39 41.7	2.205	2.310	25.3	21.3	83 E	5	73*
10 28	19 59.48	−38 22.3	2.244	2.289	25.3	21.3	80 E	7	72*
11 2	20 5.97	−37 2.8	2.282	2.268	25.2	21.3	77 E	8	70*
11 7	20 12.83	−35 43.0	2.319	2.246	25.0	21.3	73 E	9*	67*
11 12	20 20.03	−34 22.9	2.356	2.225	24.7	21.3	70 E	11*	64*
11 17	20 27.53	−33 2.2	2.392	2.203	24.4	21.3	67 E	12*	61*
11 22	20 35.29	−31 40.9	2.427	2.182	24.0	21.3	64 E	13*	58*
11 27	20 43.27	−30 18.7	2.460	2.161	23.5	21.3	61 E	14*	54*
12 2	20 51.45	−28 55.6	2.492	2.140	23.0	21.3	58 E	15*	51*
12 7	20 59.80	−27 31.4	2.523	2.119	22.4	21.3	55 E	16*	47*
12 12	21 8.30	−26 6.1	2.552	2.098	21.8	21.3	52 E	17*	44*
12 17	21 16.95	−24 39.4	2.579	2.078	21.1	21.3	49 E	18*	40*
12 22	21 25.71	−23 11.4	2.604	2.057	20.4	21.3	47 E	19*	37*
12 27	21 34.58	−21 42.0	2.627	2.037	19.6	21.2	44 E	19*	34*
1 1	21 43.54	−20 11.1	2.649	2.017	18.8	21.2	41 E	19*	31*
1 6	21 52.59	−18 38.6	2.668	1.997	17.9	21.2	39 E	19*	27*
1 11	22 1.72	−17 4.6	2.685	1.978	17.0	21.1	36 E	19*	24*
1 16	22 10.93	−15 29.0	2.701	1.958	16.1	21.1	34 E	19*	22*

506515 2004 RG_{174}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 10	21 25.83	− 7 55.0	1.014	1.738	31.1	21.5	118 W	36*	72
6 20	21 35.47	− 6 31.1	0.924	1.717	29.2	21.2	125 W	38*	71
6 30	21 42.33	− 5 20.7	0.842	1.699	26.5	20.9	132 W	40	69
7 10	21 46.08	− 4 29.4	0.772	1.682	22.9	20.6	140 W	41	68

506515 2004 RG_{174} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 20	21 46.49	− 4 3.0	0.713	1.668	18.4	20.2	149 W	41	68
7 30	21 43.72	− 4 6.1	0.670	1.656	13.1	19.9	158 W	41	68
8 9	21 38.54	− 4 38.9	0.642	1.647	7.6	19.6	168 W	40	69
8 14	21 35.43	− 5 5.2	0.635	1.643	5.7	19.4	171 W	40	69
8 19	21 32.26	− 5 36.8	0.633	1.640	5.5	19.4	171 E	39	70
8 24	21 29.26	− 6 12.1	0.635	1.638	7.2	19.5	168 E	39	70
8 29	21 26.68	− 6 49.5	0.641	1.636	9.8	19.6	164 E	38	71
9 3	21 24.70	− 7 27.1	0.652	1.635	12.7	19.8	159 E	38	71
9 8	21 23.47	− 8 3.6	0.667	1.635	15.5	19.9	154 E	37	72
9 13	21 23.10	− 8 37.6	0.686	1.635	18.2	20.1	149 E	36	73
9 18	21 23.67	− 9 7.8	0.709	1.636	20.8	20.2	145 E	36	73
9 23	21 25.23	− 9 33.4	0.736	1.638	23.1	20.4	140 E	35	74
9 28	21 27.76	− 9 53.8	0.765	1.640	25.2	20.6	136 E	35	74
10 3	21 31.23	−10 8.5	0.797	1.643	27.0	20.7	132 E	35	74
10 8	21 35.57	−10 17.4	0.833	1.647	28.6	20.8	128 E	35	74
10 13	21 40.70	−10 20.5	0.870	1.651	30.0	21.0	124 E	35	74
10 18	21 46.58	−10 17.7	0.910	1.656	31.2	21.1	121 E	35	74
10 23	21 53.12	−10 9.3	0.952	1.662	32.2	21.3	117 E	35	74
10 28	22 0.25	− 9 55.2	0.996	1.668	33.0	21.4	114 E	35	74

344065 1995 UB_4

6 10	21 40.84	−26 50.7	1.920	2.582	19.9	21.5	120 W	17*	89
6 20	21 43.52	−27 29.6	1.775	2.538	18.2	21.2	129 W	17*	89
6 30	21 43.41	−28 21.7	1.644	2.493	15.9	20.9	138 W	17	88
7 10	21 40.23	−29 24.9	1.530	2.447	13.0	20.6	147 W	16	87
7 20	21 33.85	−30 34.0	1.436	2.401	9.8	20.3	156 W	14	85
7 25	21 29.52	−31 8.3	1.397	2.378	8.3	20.2	160 W	14	85
7 30	21 24.54	−31 40.8	1.365	2.355	7.2	20.1	163 W	13	84
8 4	21 19.04	−32 10.2	1.339	2.332	6.8	20.0	164 W	13	84
8 9	21 13.16	−32 35.3	1.319	2.308	7.3	19.9	163 E	12	83
8 14	21 7.09	−32 55.0	1.305	2.285	8.6	20.0	160 E	12	83
8 19	21 1.04	−33 8.5	1.297	2.261	10.3	20.0	156 E	12	83
8 24	20 55.23	−33 15.1	1.295	2.237	12.4	20.0	152 E	12	83
8 29	20 49.88	−33 14.8	1.299	2.214	14.5	20.1	147 E	12	83
9 3	20 45.16	−33 7.6	1.308	2.190	16.6	20.2	142 E	12	83
9 8	20 41.23	−32 53.9	1.321	2.166	18.6	20.2	137 E	12	83
9 13	20 38.19	−32 34.3	1.338	2.143	20.5	20.3	132 E	12	83
9 18	20 36.12	−32 9.3	1.359	2.119	22.3	20.4	127 E	13	84
9 28	20 35.04	−31 5.5	1.409	2.072	25.4	20.5	118 E	14	85
10 8	20 37.94	−29 46.8	1.467	2.025	27.8	20.6	109 E	15	86
10 18	20 44.50	−28 15.8	1.529	1.979	29.6	20.7	101 E	17	88
10 28	20 54.27	−26 33.9	1.594	1.933	30.8	20.8	94 E	18	88*
11 7	21 6.76	−24 41.4	1.658	1.889	31.6	20.8	87 E	20	80*
11 17	21 21.51	−22 38.0	1.721	1.846	31.9	20.9	81 E	22	72*
11 27	21 38.15	−20 23.4	1.781	1.804	31.9	20.9	75 E	25	65*
12 7	21 56.34	−17 57.4	1.838	1.765	31.7	20.9	70 E	27	58*
12 17	22 15.80	−15 19.8	1.891	1.727	31.1	20.9	65 E	29*	51*
12 27	22 36.36	−12 30.9	1.941	1.692	30.4	20.9	61 E	32*	44*
1 6	22 57.84	− 9 31.7	1.987	1.660	29.6	20.9	56 E	33*	39*
1 16	23 20.15	− 6 23.2	2.030	1.632	28.6	20.9	53 E	34*	33*

484462 2008 CM_{20}

6 10	21 51.44	−70 5.2	0.383	1.245	45.8	21.6	119 W	—	46
6 12	21 37.67	−69 51.4	0.379	1.251	44.3	21.6	121 W	—	46
6 14	21 23.21	−69 31.8	0.375	1.258	42.8	21.5	123 W	—	46
6 16	21 8.24	−69 5.7	0.372	1.265	41.3	21.5	125 W	—	47
6 18	20 52.97	−68 32.0	0.369	1.272	39.7	21.4	127 W	—	47
6 20	20 37.66	−67 50.2	0.366	1.279	38.1	21.4	129 W	—	48
6 21	20 30.06	−67 26.1	0.365	1.282	37.2	21.4	130 W	—	49
6 22	20 22.55	−66 59.8	0.363	1.286	36.4	21.3	131 W	—	49
6 23	20 15.16	−66 31.2	0.362	1.289	35.6	21.3	132 W	—	49
6 24	20 7.90	−66 0.5	0.362	1.292	34.7	21.3	134 W	—	50
6 25	20 0.81	−65 27.5	0.361	1.296	33.9	21.3	135 W	—	51
6 26	19 53.91	−64 52.4	0.360	1.299	33.1	21.2	136 W	—	51
6 27	19 47.21	−64 15.2	0.360	1.303	32.3	21.2	137 W	—	52
6 28	19 40.74	−63 35.9	0.360	1.306	31.4	21.2	138 W	—	52
6 29	19 34.50	−62 54.7	0.360	1.309	30.6	21.2	139 W	—	53
6 30	19 28.50	−62 11.5	0.360	1.313	29.9	21.2	140 W	—	54
7 2	19 17.26	−60 40.1	0.360	1.319	28.4	21.1	142 W	—	55
7 4	19 7.04	−59 2.4	0.362	1.326	27.0	21.1	144 W	—	57
7 6	18 57.83	−57 19.6	0.364	1.332	25.7	21.1	145 E	—	59
7 8	18 49.58	−55 32.8	0.367	1.339	24.6	21.1	147 E	—	60
7 10	18 42.25	−53 42.9	0.371	1.345	23.7	21.1	148 E	—	62
7 12	18 35.78	−51 51.1	0.376	1.352	23.1	21.1	149 E	—	64
7 14	18 30.12	−49 58.4	0.382	1.358	22.6	21.2	149 E	—	66
7 16	18 25.19	−48 5.8	0.389	1.365	22.5	21.2	149 E	—	68
7 18	18 20.93	−46 14.0	0.396	1.371	22.5	21.3	149 E	—	70
7 20	18 17.31	−44 24.0	0.404	1.377	22.7	21.3	148 E	1	72

484462 2008 CM_{20} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 22	18 14.25	−42 36.4	0.414	1.383	23.2	21.4	148 E	2	73
7 24	18 11.71	−40 51.7	0.424	1.389	23.7	21.5	147 E	4	75
7 26	18 9.65	−39 10.4	0.435	1.395	24.4	21.6	145 E	6	77
7 28	18 8.03	−37 32.7	0.446	1.401	25.2	21.6	144 E	7	78
7 30	18 6.80	−35 59.0	0.459	1.407	26.0	21.7	143 E	9	80
8 4	18 5.21	−32 22.8	0.493	1.421	28.2	22.0	139 E	13	84
8 9	18 5.40	−29 12.1	0.530	1.435	30.4	22.2	134 E	16	87
8 14	18 7.02	−26 25.5	0.572	1.449	32.3	22.5	130 E	19	90
8 19	18 9.83	−24 0.8	0.616	1.462	34.0	22.7	126 E	21	88

380282 2002 AO_{148}

6 10	21 51.49	−17 58.6	6.114	6.612	8.0	21.5	115 W	25*	82
6 20	21 50.25	−18 0.2	5.988	6.625	7.2	21.4	125 W	27*	82
6 30	21 48.04	−18 5.6	5.879	6.638	6.2	21.3	135 W	27	82
7 10	21 44.94	−18 14.1	5.790	6.651	5.0	21.2	145 W	27	82
7 20	21 41.09	−18 24.8	5.725	6.664	3.6	21.2	156 W	27	82
7 30	21 36.66	−18 36.5	5.687	6.676	2.1	21.0	166 W	26	83
8 9	21 31.90	−18 48.1	5.678	6.689	0.7	20.9	175 W	26	83
8 19	21 27.06	−18 58.3	5.700	6.701	1.3	21.0	171 E	26	83
8 29	21 22.40	−19 6.0	5.751	6.714	2.8	21.1	161 E	26	83
9 8	21 18.20	−19 10.6	5.832	6.726	4.2	21.2	150 E	26	83
9 18	21 14.66	−19 11.5	5.938	6.738	5.5	21.4	140 E	26	83
9 28	21 11.96	−19 8.3	6.067	6.749	6.6	21.5	130 E	26	83

37479 1130 *T–1*

6 10	21 59.06	− 2 44.8	2.042	2.549	22.2	21.4	108 W	40*	67
6 20	22 0.81	− 2 7.6	1.917	2.544	20.9	21.2	117 W	42*	66
6 30	22 0.03	− 1 45.0	1.801	2.539	18.8	21.0	126 W	43	66
7 10	21 56.59	− 1 39.7	1.698	2.532	16.1	20.7	136 W	43	66
7 20	21 50.50	− 1 54.1	1.611	2.524	12.7	20.5	147 W	43	66
7 30	21 42.04	− 2 29.2	1.546	2.514	8.9	20.2	158 W	43	66
8 9	21 31.93	− 3 23.4	1.506	2.504	5.2	20.0	167 W	42	67
8 14	21 26.54	− 3 56.5	1.495	2.498	4.3	19.9	169 E	41	68
8 19	21 21.13	− 4 32.5	1.492	2.492	4.7	20.0	168 E	40	69
8 24	21 15.86	− 5 10.7	1.496	2.486	6.1	20.0	165 E	40	69
8 29	21 10.88	− 5 50.0	1.506	2.479	8.0	20.1	160 E	39	70
9 3	21 6.32	− 6 29.4	1.523	2.472	10.1	20.2	155 E	39	70
9 8	21 2.29	− 7 8.1	1.545	2.465	12.1	20.3	149 E	38	71
9 13	20 58.90	− 7 45.4	1.574	2.457	14.1	20.4	144 E	37	72
9 18	20 56.20	− 8 20.6	1.607	2.449	15.9	20.5	138 E	37	72
9 23	20 54.26	− 8 53.1	1.645	2.441	17.6	20.6	133 E	36	73
9 28	20 53.09	− 9 22.5	1.688	2.432	19.1	20.7	128 E	36	73
10 3	20 52.69	− 9 48.5	1.733	2.423	20.4	20.8	123 E	35	74
10 8	20 53.06	−10 11.0	1.782	2.414	21.5	20.9	118 E	35	74
10 13	20 54.15	−10 29.9	1.833	2.405	22.5	21.0	113 E	35	74
10 18	20 55.96	−10 45.1	1.885	2.395	23.2	21.1	108 E	34	75
10 23	20 58.44	−10 56.6	1.939	2.385	23.9	21.1	104 E	34	75
10 28	21 1.54	−11 4.4	1.994	2.375	24.4	21.2	100 E	34	75*
11 2	21 5.23	−11 8.5	2.050	2.364	24.7	21.3	96 E	34	74*
11 7	21 9.46	−11 9.1	2.105	2.353	24.9	21.3	92 E	34	72*
11 12	21 14.20	−11 6.2	2.161	2.342	25.0	21.4	88 E	34	70*
11 17	21 19.39	−10 59.9	2.216	2.330	25.0	21.4	84 E	34	66*
11 22	21 25.02	−10 50.2	2.270	2.319	24.8	21.5	80 E	34	63*
11 27	21 31.03	−10 37.3	2.323	2.306	24.6	21.5	77 E	34	59*

422341 2014 SW_{222}

6 10	22 14.51	− 8 20.4	1.086	1.687	35.2	21.5	107 W	33*	72
6 20	22 28.70	− 7 0.5	1.001	1.678	34.0	21.2	113 W	36*	71
6 30	22 40.56	− 5 54.4	0.923	1.671	32.2	21.0	119 W	39*	70
7 10	22 49.66	− 5 6.6	0.851	1.667	29.5	20.7	126 W	40	69
7 20	22 55.53	− 4 41.7	0.788	1.664	26.0	20.5	134 W	40	69
7 30	22 57.79	− 4 43.6	0.736	1.664	21.5	20.2	143 W	40	69
8 9	22 56.39	− 5 13.1	0.697	1.666	15.9	19.9	153 W	40	69
8 14	22 54.43	− 5 37.5	0.683	1.668	12.8	19.7	159 W	39	70
8 19	22 51.75	− 6 7.2	0.674	1.670	9.5	19.6	164 W	39	70
8 24	22 48.53	− 6 41.1	0.668	1.673	6.0	19.4	170 W	38	71
8 29	22 44.98	− 7 17.3	0.668	1.677	2.5	19.2	176 W	38	71
9 3	22 41.34	− 7 54.3	0.672	1.681	1.1	19.1	178 E	37	72
9 8	22 37.82	− 8 30.1	0.682	1.686	4.6	19.4	172 E	36	73
9 13	22 34.63	− 9 3.4	0.696	1.691	8.0	19.6	167 E	36	73
9 18	22 31.98	− 9 32.7	0.715	1.696	11.2	19.8	161 E	35	74
9 23	22 30.03	− 9 56.9	0.738	1.702	14.2	20.0	155 E	35	74
9 28	22 28.91	−10 15.1	0.766	1.709	17.0	20.2	150 E	35	74
10 8	22 29.30	−10 32.7	0.833	1.723	21.8	20.5	140 E	34	75
10 18	22 33.18	−10 25.4	0.913	1.740	25.5	20.9	131 E	35	74
10 28	22 40.29	− 9 54.9	1.005	1.757	28.3	21.2	123 E	35	74
11 7	22 50.10	− 9 4.1	1.106	1.777	30.2	21.5	116 E	36	73

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
317207 2002 CH_{10}									
	h m	° ′			°	m	°	°	°
6 10	22 17.80	−21 28.0	1.836	2.388	23.5	21.4	110 W	21*	85
6 20	22 23.45	−21 39.6	1.698	2.360	22.2	21.2	119 W	22*	86
6 30	22 26.58	−22 6.5	1.571	2.331	20.3	20.9	127 W	23*	86
7 10	22 26.80	−22 48.6	1.455	2.302	17.7	20.7	137 W	22	87
7 20	22 23.78	−23 44.3	1.356	2.272	14.4	20.4	146 W	21	88
7 25	22 21.00	−24 15.9	1.313	2.257	12.5	20.2	151 W	21	88
7 30	22 17.40	−24 48.7	1.275	2.241	10.6	20.1	156 W	20	89
8 4	22 13.04	−25 21.6	1.243	2.226	8.7	19.9	161 W	20	89
8 9	22 8.02	−25 53.4	1.217	2.210	7.1	19.8	164 W	19	90
8 14	22 2.45	−26 22.6	1.197	2.195	6.2	19.7	166 W	19	90
8 19	21 56.50	−26 47.9	1.183	2.179	6.5	19.6	166 W	18	89
8 24	21 50.38	−27 8.2	1.175	2.163	7.8	19.7	163 E	18	89
8 29	21 44.33	−27 22.3	1.173	2.147	9.7	19.7	159 E	18	89
9 3	21 38.55	−27 29.8	1.177	2.131	11.9	19.8	154 E	18	89
9 8	21 33.25	−27 30.4	1.187	2.115	14.3	19.9	149 E	17	88
9 13	21 28.61	−27 24.2	1.202	2.098	16.5	20.0	144 E	18	89
9 18	21 24.76	−27 11.4	1.221	2.082	18.7	20.1	138 E	18	89
9 23	21 21.83	−26 52.4	1.244	2.066	20.7	20.2	133 E	18	89
9 28	21 19.88	−26 27.9	1.271	2.049	22.5	20.3	128 E	19	90
10 8	21 18.95	−25 24.6	1.333	2.017	25.7	20.4	119 E	20	89
10 18	21 21.84	−24 5.3	1.404	1.984	28.1	20.6	110 E	21	88
10 28	21 28.21	−22 32.9	1.480	1.952	29.8	20.7	102 E	22	87
11 7	21 37.56	−20 49.1	1.559	1.920	30.9	20.8	95 E	24	84*
11 17	21 49.40	−18 54.8	1.638	1.888	31.6	20.9	88 E	26	77*
11 27	22 3.32	−16 50.4	1.716	1.858	31.7	21.0	82 E	28	69*
12 7	22 18.94	−14 36.3	1.791	1.828	31.6	21.0	76 E	30	61*
12 17	22 35.97	−12 12.7	1.863	1.799	31.1	21.1	71 E	33*	54*
12 27	22 54.20	− 9 40.3	1.931	1.771	30.4	21.1	66 E	35*	47*
1 6	23 13.44	− 6 59.9	1.995	1.745	29.5	21.1	61 E	37*	41*
1 16	23 33.60	− 4 12.5	2.055	1.720	28.5	21.1	57 E	37*	35*
5738 Billpickering									
6 10	22 44.82	+16 37.2	3.551	3.692	16.0	21.5	90 W	53*	47
6 20	22 47.02	+17 53.3	3.390	3.666	15.9	21.3	98 W	58*	46
6 30	22 47.61	+19 3.3	3.232	3.639	15.6	21.2	106 W	63*	45
7 10	22 46.48	+20 4.3	3.080	3.612	14.9	21.1	114 W	65	44
7 20	22 43.50	+20 53.4	2.939	3.583	13.9	20.9	122 W	66	43
7 30	22 38.70	+21 26.9	2.812	3.554	12.6	20.7	130 W	66	43
8 9	22 32.24	+21 41.4	2.703	3.523	11.1	20.6	138 W	67	42
8 19	22 24.45	+21 34.1	2.615	3.492	9.6	20.4	145 W	67	42
8 29	22 15.88	+21 3.6	2.552	3.459	8.6	20.3	149 E	66	43
9 8	22 7.23	+20 10.7	2.514	3.426	8.4	20.3	150 E	65	44
9 13	22 3.11	+19 36.8	2.506	3.409	8.7	20.3	149 E	65	44
9 18	21 59.23	+18 58.7	2.503	3.392	9.3	20.3	147 E	64	45
9 23	21 55.68	+18 17.2	2.508	3.374	10.0	20.3	144 E	63	46
9 28	21 52.54	+17 33.1	2.518	3.356	10.8	20.3	141 E	63	46
10 3	21 49.87	+16 47.3	2.534	3.338	11.8	20.4	137 E	62	47
10 8	21 47.70	+16 0.7	2.556	3.320	12.7	20.4	133 E	61	48
10 13	21 46.06	+15 14.0	2.583	3.301	13.6	20.4	129 E	60	49
10 18	21 44.98	+14 28.0	2.615	3.283	14.5	20.5	124 E	59	50
10 28	21 44.52	+13 0.8	2.689	3.244	16.0	20.6	116 E	58	51
11 7	21 46.28	+11 43.4	2.775	3.205	17.2	20.7	107 E	57	52*
11 17	21 50.11	+10 38.6	2.869	3.165	18.0	20.7	98 E	56	52*
11 27	21 55.85	+ 9 48.1	2.966	3.123	18.4	20.8	90 E	55	48*
12 7	22 3.26	+ 9 12.4	3.064	3.081	18.4	20.8	82 E	54	43*
12 17	22 12.14	+ 8 51.3	3.158	3.038	18.1	20.8	74 E	53*	37*
12 27	22 22.32	+ 8 44.5	3.246	2.994	17.5	20.9	67 E	52*	30*
1 6	22 33.61	+ 8 50.8	3.325	2.948	16.7	20.8	59 E	48*	24*
1 16	22 45.87	+ 9 9.5	3.395	2.902	15.6	20.8	52 E	44*	18*
269631 2011 AG_{29}									
6 10	22 51.21	−10 25.7	1.571	2.001	30.1	21.4	99 W	28*	74
6 20	23 0.66	−10 30.8	1.481	2.021	28.8	21.2	107 W	31*	75
6 30	23 7.59	−10 57.5	1.394	2.039	27.0	21.1	115 W	33*	75
7 10	23 11.65	−11 47.9	1.315	2.058	24.3	20.9	123 W	33*	76
7 20	23 12.48	−13 3.2	1.245	2.076	21.0	20.7	133 W	32	77
7 30	23 9.88	−14 41.3	1.189	2.093	16.8	20.5	143 W	30	79
8 4	23 7.31	−15 37.1	1.168	2.102	14.5	20.4	149 W	29	80
8 9	23 3.95	−16 35.9	1.151	2.110	12.1	20.3	154 W	28	81
8 14	22 59.89	−17 36.2	1.140	2.119	9.7	20.1	159 W	27	82
8 19	22 55.23	−18 36.3	1.135	2.127	7.5	20.1	164 W	26	83
8 24	22 50.15	−19 34.3	1.136	2.135	5.9	20.0	168 W	25	84
8 29	22 44.83	−20 28.6	1.144	2.142	5.5	20.0	168 W	25	84
9 3	22 39.47	−21 17.6	1.157	2.150	6.5	20.1	166 E	24	85
9 8	22 34.26	−22 0.0	1.177	2.158	8.3	20.2	162 E	23	86
9 13	22 29.38	−22 35.2	1.203	2.165	10.5	20.3	157 E	22	87
9 18	22 25.01	−23 2.5	1.234	2.172	12.7	20.5	152 E	22	87
9 23	22 21.28	−23 21.9	1.271	2.179	14.8	20.6	146 E	22	87

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
269631 2011 AG_{29} *(continuation)*									
	h m	° ′			°	m	°	°	°
9 28	22 18.30	−23 33.7	1.313	2.186	16.7	20.8	141 E	21	88
10 3	22 16.12	−23 38.1	1.359	2.192	18.5	20.9	136 E	21	88
10 8	22 14.77	−23 35.8	1.409	2.199	20.0	21.1	131 E	21	88
10 13	22 14.24	−23 27.4	1.463	2.205	21.4	21.2	126 E	22	87
10 18	22 14.52	−23 13.5	1.519	2.211	22.6	21.3	122 E	22	87
10 23	22 15.58	−22 54.5	1.578	2.217	23.5	21.4	117 E	22	87
506448 2001 SN_{355}									
6 10	22 57.69	− 5 59.2	1.218	1.664	37.4	21.4	96 W	32*	70
6 20	23 16.70	− 4 38.7	1.131	1.654	37.1	21.3	101 W	35*	69
6 30	23 34.33	− 3 31.1	1.049	1.646	36.5	21.1	106 W	38*	68
7 10	23 50.24	− 2 40.3	0.971	1.641	35.3	20.9	111 W	41*	67
7 20	0 3.99	− 2 10.3	0.900	1.638	33.4	20.6	117 W	43*	66
7 30	0 15.05	− 2 5.3	0.835	1.638	30.8	20.4	124 W	43	66
8 9	0 22.91	− 2 27.7	0.778	1.641	27.3	20.2	132 W	43	66
8 19	0 27.05	− 3 18.5	0.732	1.646	22.8	19.9	141 W	42	67
8 24	0 27.64	− 3 53.7	0.713	1.650	20.2	19.8	146 W	41	68
8 29	0 27.26	− 4 34.4	0.698	1.654	17.4	19.6	151 W	40	69
9 3	0 25.98	− 5 19.2	0.687	1.659	14.5	19.5	156 W	40	69
9 8	0 23.88	− 6 6.5	0.679	1.664	11.5	19.4	161 W	39	70
9 13	0 21.10	− 6 54.4	0.677	1.670	8.6	19.3	166 W	38	71
9 18	0 17.82	− 7 41.0	0.679	1.677	6.3	19.2	169 W	37	72
9 23	0 14.28	− 8 23.9	0.686	1.684	5.4	19.2	171 W	37	72
9 28	0 10.72	− 9 1.3	0.698	1.692	6.6	19.3	169 E	36	73
10 3	0 7.36	− 9 31.7	0.714	1.700	8.9	19.4	165 E	35	74
10 8	0 4.41	− 9 54.1	0.736	1.709	11.6	19.6	160 E	35	74
10 18	0 0.31	−10 13.0	0.792	1.728	16.9	20.0	150 E	35	74
10 28	23 59.32	− 9 57.8	0.865	1.749	21.3	20.3	140 E	35	74
11 7	0 1.63	− 9 12.9	0.952	1.771	24.8	20.7	131 E	36	73
11 17	0 7.00	− 8 4.2	1.051	1.794	27.5	21.0	123 E	37	72
11 27	0 15.07	− 6 37.1	1.160	1.819	29.3	21.3	116 E	38	71
307068 2002 AX_{14}									
6 10	23 4.99	+17 47.4	1.399	1.656	37.7	21.4	85 W	51*	46
6 20	23 18.44	+21 57.5	1.324	1.659	37.8	21.3	89 W	58*	42
6 30	23 30.30	+26 7.4	1.251	1.661	37.7	21.2	94 W	65*	38
7 10	23 40.23	+30 14.3	1.181	1.662	37.3	21.1	98 W	73*	34
7 20	23 47.74	+34 14.4	1.113	1.663	36.6	20.9	103 W	79	30
7 30	23 52.17	+38 1.7	1.048	1.662	35.7	20.8	107 W	83	26
8 9	23 52.83	+41 28.4	0.988	1.661	34.4	20.6	112 W	86	23
8 19	23 49.01	+44 23.6	0.932	1.660	32.9	20.4	117 W	89	20
8 24	23 45.28	+45 34.6	0.907	1.658	32.0	20.3	120 W	89	18
8 29	23 40.38	+46 32.0	0.884	1.657	31.1	20.3	122 W	88	17
9 3	23 34.44	+47 13.7	0.862	1.655	30.2	20.2	124 W	88	17
9 8	23 27.63	+47 37.7	0.843	1.654	29.3	20.1	126 W	87	16
9 13	23 20.23	+47 42.4	0.826	1.652	28.5	20.0	128 E	87	16
9 18	23 12.60	+47 26.5	0.811	1.649	27.7	20.0	130 E	88	17
9 23	23 5.17	+46 49.8	0.799	1.647	27.1	19.9	132 E	88	17
9 28	22 58.34	+45 53.0	0.791	1.644	26.6	19.9	133 E	89	18
10 3	22 52.47	+44 37.7	0.785	1.642	26.3	19.8	133 E	90	19
10 8	22 47.80	+43 6.3	0.783	1.639	26.3	19.8	133 E	88	21
10 13	22 44.53	+41 21.5	0.784	1.636	26.5	19.8	133 E	86	23
10 18	22 42.75	+39 26.5	0.788	1.633	27.0	19.9	132 E	84	25
10 23	22 42.49	+37 25.0	0.796	1.629	27.6	19.9	131 E	82	27
10 28	22 43.69	+35 20.3	0.808	1.626	28.5	19.9	129 E	80	29
11 2	22 46.27	+33 15.6	0.822	1.622	29.5	20.0	126 E	78	31
11 7	22 50.10	+31 13.4	0.840	1.618	30.5	20.1	124 E	76	33
11 12	22 55.06	+29 15.8	0.861	1.614	31.6	20.2	121 E	74	35
11 17	23 1.05	+27 24.5	0.885	1.610	32.7	20.2	118 E	72	37
11 22	23 7.95	+25 40.9	0.912	1.606	33.7	20.3	115 E	71	38
11 27	23 15.65	+24 5.9	0.940	1.602	34.7	20.4	112 E	69	40*
12 2	23 24.03	+22 39.9	0.971	1.597	35.6	20.5	109 E	68	41*
12 7	23 33.01	+21 22.9	1.004	1.593	36.4	20.6	106 E	66	42*
12 12	23 42.51	+20 14.8	1.039	1.588	37.1	20.7	103 E	65	42*
12 17	23 52.48	+19 15.3	1.075	1.583	37.7	20.8	100 E	64	42*
12 22	0 2.84	+18 24.2	1.112	1.578	38.2	20.9	98 E	63	42*
12 27	0 13.55	+17 40.9	1.150	1.573	38.5	20.9	95 E	63	41*
1 1	0 24.56	+17 4.7	1.189	1.568	38.8	21.0	92 E	62	41*
1 6	0 35.82	+16 35.0	1.228	1.563	39.0	21.1	89 E	62	40*
1 11	0 47.32	+16 11.2	1.268	1.558	39.1	21.1	87 E	61	39*
1 16	0 59.03	+15 52.6	1.309	1.553	39.0	21.2	84 E	61	38*
163014 2001 UA_5									
6 10	23 8.17	−18 24.1	1.678	2.083	28.8	21.5	98 W	19*	82
6 20	23 20.58	−18 19.2	1.523	2.036	28.9	21.2	105 W	22*	82
6 30	23 31.74	−18 31.2	1.373	1.987	28.4	20.9	112 W	24*	83
7 10	23 41.33	−19 3.6	1.230	1.936	27.4	20.6	119 W	25*	83
7 20	23 48.87	−20 0.6	1.095	1.883	25.8	20.2	126 W	25*	84
7 30	23 53.72	−21 25.5	0.970	1.828	23.5	19.9	134 W	24	85
8 9	23 55.14	−23 19.8	0.859	1.771	20.7	19.4	142 W	22	87

163014 2001 UA_5 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 14	23 54.27	−24 27.5	0.809	1.742	19.1	19.2	146 W	21	88
8 19	23 52.20	−25 41.0	0.762	1.712	17.6	19.0	149 W	19	90
8 24	23 48.83	−26 58.7	0.720	1.682	16.2	18.8	152 W	18	89
8 29	23 44.12	−28 18.2	0.683	1.652	15.3	18.6	154 W	17	88
9 3	23 38.08	−29 36.6	0.650	1.621	15.2	18.5	155 W	15	86
9 8	23 30.77	−30 50.4	0.622	1.590	16.0	18.3	154 W	14	85
9 13	23 22.36	−31 55.6	0.598	1.559	17.7	18.3	152 E	13	84
9 18	23 13.14	−32 48.5	0.578	1.527	20.2	18.2	148 E	12	83
9 23	23 3.51	−33 25.5	0.563	1.496	23.3	18.2	144 E	12	83
9 28	22 53.95	−33 44.3	0.551	1.464	26.6	18.2	139 E	11	82
10 3	22 44.91	−33 43.8	0.542	1.432	30.2	18.3	134 E	11	82
10 8	22 36.81	−33 24.2	0.536	1.400	33.7	18.3	129 E	12	83
10 13	22 29.99	−32 46.2	0.532	1.368	37.3	18.3	124 E	12	83
10 18	22 24.70	−31 51.2	0.529	1.336	40.7	18.3	119 E	13	84
10 23	22 21.07	−30 40.8	0.527	1.305	44.0	18.4	114 E	14	85
10 28	22 19.14	−29 16.8	0.526	1.274	47.1	18.4	110 E	16	87
11 2	22 18.85	−27 40.6	0.524	1.243	50.1	18.4	106 E	17	88
11 7	22 20.09	−25 53.2	0.521	1.214	53.0	18.5	102 E	19	90
11 12	22 22.76	−23 55.1	0.518	1.185	55.7	18.5	99 E	21	88
11 17	22 26.77	−21 46.5	0.514	1.157	58.3	18.5	95 E	23	85*
11 22	22 31.98	−19 27.4	0.509	1.131	60.8	18.5	93 E	26	81*
11 27	22 38.29	−16 57.7	0.502	1.106	63.2	18.5	90 E	28	76*
12 7	22 53.75	−11 24.4	0.484	1.062	67.6	18.4	85 E	34	66*
12 17	23 12.68	− 5 1.6	0.462	1.027	71.6	18.4	82 E	40	57*
12 27	23 35.06	+ 2 16.4	0.437	1.003	74.8	18.3	80 E	47	48*
1 6	0 1.36	+10 31.9	0.412	0.992	76.8	18.2	79 E	55*	40*
1 16	0 33.13	+19 39.6	0.391	0.994	77.2	18.1	80 E	64*	32*

307419 2002 TN_{237}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 10	23 25.37	+24 13.3	3.790	3.718	15.5	21.5	78 W	52*	40
6 20	23 29.80	+25 35.0	3.641	3.700	15.9	21.4	85 W	59*	38
6 30	23 32.83	+26 52.2	3.490	3.681	16.0	21.3	93 W	66*	37
7 10	23 34.30	+28 2.7	3.341	3.662	15.9	21.2	100 W	72*	36
7 20	23 34.02	+29 4.1	3.196	3.641	15.4	21.1	108 W	74	35
7 30	23 31.87	+29 52.9	3.058	3.620	14.6	20.9	116 W	75	34
8 9	23 27.85	+30 25.5	2.932	3.597	13.5	20.8	124 W	75	34
8 19	23 22.07	+30 38.1	2.821	3.574	12.2	20.7	132 W	76	33
8 29	23 14.84	+30 27.2	2.728	3.551	10.8	20.5	139 W	75	34
9 8	23 6.71	+29 50.8	2.657	3.526	9.6	20.4	144 W	75	34
9 13	23 2.51	+29 23.1	2.631	3.513	9.1	20.3	146 E	74	35
9 18	22 58.34	+28 49.2	2.611	3.501	8.9	20.3	148 E	74	35
9 23	22 54.31	+28 9.6	2.598	3.488	8.8	20.3	148 E	73	36
9 28	22 50.50	+27 25.0	2.591	3.474	9.0	20.3	147 E	72	37
10 3	22 47.01	+26 36.2	2.591	3.461	9.5	20.3	145 E	72	37
10 8	22 43.89	+25 44.0	2.597	3.447	10.1	20.3	143 E	71	38
10 13	22 41.22	+24 49.4	2.609	3.433	10.8	20.3	140 E	70	39
10 18	22 39.04	+23 53.3	2.628	3.419	11.6	20.4	136 E	69	40
10 23	22 37.39	+22 56.7	2.652	3.405	12.4	20.4	133 E	68	41
10 28	22 36.28	+22 0.6	2.681	3.391	13.2	20.5	129 E	67	42
11 2	22 35.74	+21 5.6	2.715	3.376	14.0	20.5	124 E	66	43
11 7	22 35.74	+20 12.7	2.754	3.361	14.8	20.6	120 E	65	44
11 12	22 36.29	+19 22.2	2.796	3.346	15.5	20.6	116 E	64	45
11 17	22 37.38	+18 34.8	2.841	3.331	16.0	20.7	111 E	64	45*
11 22	22 38.97	+17 50.8	2.889	3.315	16.6	20.7	107 E	63	46*
11 27	22 41.06	+17 10.6	2.940	3.300	17.0	20.7	103 E	62	46*
12 2	22 43.60	+16 34.3	2.992	3.284	17.3	20.8	98 E	62	45*
12 7	22 46.58	+16 2.0	3.045	3.268	17.5	20.8	94 E	61	43*
12 12	22 49.96	+15 33.7	3.098	3.252	17.6	20.8	90 E	61	41*
12 17	22 53.73	+15 9.4	3.152	3.235	17.7	20.9	86 E	60	39*
12 22	22 57.85	+14 49.2	3.206	3.218	17.6	20.9	82 E	60*	36*
12 27	23 2.31	+14 32.8	3.259	3.202	17.5	20.9	78 E	59*	34*
1 1	23 7.06	+14 20.2	3.311	3.185	17.3	20.9	74 E	58*	31*
1 6	23 12.10	+14 11.2	3.362	3.167	17.0	20.9	70 E	57*	28*
1 11	23 17.40	+14 5.6	3.411	3.150	16.6	20.9	66 E	55*	26*
1 16	23 22.95	+14 3.3	3.459	3.132	16.2	20.9	63 E	53*	23*

415872 2001 SN_{282}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 10	23 30.12	− 7 29.2	1.386	1.705	36.5	21.4	89 W	26*	71
6 20	23 49.67	− 5 39.6	1.293	1.692	36.8	21.2	93 W	30*	70
6 30	0 8.10	− 3 56.2	1.203	1.681	36.8	21.0	98 W	35*	68
7 10	0 25.18	− 2 21.2	1.117	1.672	36.3	20.8	103 W	39*	66
7 20	0 40.57	− 0 57.3	1.036	1.665	35.4	20.6	108 W	43*	65
7 30	0 53.78	+ 0 13.1	0.959	1.660	33.8	20.4	114 W	45*	64
8 9	1 4.34	+ 1 8.0	0.889	1.659	31.5	20.2	121 W	46	63
8 19	1 11.65	+ 1 45.4	0.825	1.659	28.4	19.9	129 W	47	62
8 29	1 15.14	+ 2 4.4	0.771	1.662	24.3	19.7	137 W	47	62
9 8	1 14.54	+ 2 6.1	0.729	1.668	19.1	19.4	147 W	47	62
9 18	1 9.96	+ 1 53.3	0.701	1.675	13.1	19.1	158 W	47	62
9 23	1 6.42	+ 1 43.4	0.694	1.680	9.8	19.0	163 W	47	62
9 28	1 2.30	+ 1 32.5	0.691	1.686	6.5	18.8	169 W	47	62

415872 2001 SN_{282} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 3	0 57.81	+ 1 21.9	0.693	1.691	3.5	18.7	174 W	46	63
10 8	0 53.21	+ 1 12.7	0.700	1.698	2.7	18.7	175 E	46	63
10 13	0 48.73	+ 1 6.0	0.712	1.705	5.3	18.9	171 E	46	63
10 18	0 44.63	+ 1 2.6	0.729	1.712	8.4	19.1	165 E	46	63
10 28	0 38.34	+ 1 9.4	0.778	1.729	14.4	19.5	154 E	46	63
11 7	0 35.42	+ 1 35.8	0.845	1.747	19.5	19.8	144 E	47	62
11 17	0 36.15	+ 2 21.2	0.927	1.766	23.6	20.2	134 E	47	62
11 27	0 40.42	+ 3 23.7	1.022	1.788	26.6	20.5	126 E	48	61
12 7	0 47.75	+ 4 40.1	1.128	1.810	28.8	20.8	118 E	50	59
12 17	0 57.66	+ 6 7.0	1.242	1.834	30.2	21.1	110 E	51	58*
12 27	1 9.70	+ 7 41.7	1.362	1.858	31.0	21.3	104 E	53	55*

357510 2004 RD_{10}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 10	23 51.46	+ 1 0.5	1.666	1.808	33.7	21.5	81 W	31*	63*
6 20	0 6.60	+ 2 41.9	1.594	1.834	33.6	21.4	86 W	35*	61
6 30	0 19.92	+ 4 11.2	1.520	1.861	33.1	21.3	92 W	41*	60
7 10	0 31.18	+ 5 26.2	1.446	1.888	32.2	21.2	99 W	46*	59
7 20	0 40.03	+ 6 24.9	1.372	1.916	30.7	21.1	106 W	50*	58
7 30	0 46.07	+ 7 4.9	1.301	1.945	28.6	21.0	114 W	52*	57
8 9	0 48.97	+ 7 23.8	1.235	1.974	25.7	20.8	122 W	52	57
8 19	0 48.41	+ 7 19.7	1.178	2.003	22.0	20.6	132 W	52	57
8 29	0 44.35	+ 6 51.5	1.133	2.033	17.4	20.4	143 W	52	57
9 8	0 37.18	+ 6 0.9	1.106	2.062	12.1	20.2	155 W	51	58
9 13	0 32.68	+ 5 28.5	1.100	2.077	9.2	20.1	161 W	50	59
9 18	0 27.76	+ 4 52.5	1.100	2.091	6.3	20.0	167 W	50	59
9 23	0 22.60	+ 4 14.2	1.106	2.106	3.3	19.9	173 W	49	60
9 28	0 17.42	+ 3 35.0	1.118	2.120	0.8	19.7	178 E	49	60
10 3	0 12.40	+ 2 56.3	1.137	2.135	2.9	19.9	174 E	48	61
10 8	0 7.70	+ 2 19.3	1.162	2.149	5.7	20.1	168 E	47	62
10 13	0 3.49	+ 1 45.1	1.193	2.163	8.4	20.3	162 E	47	62
10 18	23 59.88	+ 1 14.8	1.231	2.178	10.9	20.5	156 E	46	63
10 23	23 56.97	+ 0 49.0	1.274	2.192	13.2	20.7	150 E	46	63
10 28	23 54.82	+ 0 28.3	1.322	2.206	15.3	20.9	144 E	45	64
11 2	23 53.43	+ 0 12.9	1.374	2.219	17.1	21.0	139 E	45	64
11 7	23 52.82	+ 0 2.8	1.431	2.233	18.7	21.2	134 E	45	64
11 12	23 52.95	− 0 2.2	1.492	2.247	20.1	21.3	129 E	45	64
11 17	23 53.81	− 0 2.1	1.556	2.260	21.3	21.5	124 E	45	64

276331 2002 TL_{255}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	0 9.43	+18 3.0	2.319	2.361	25.1	21.4	80 W	47*	46
6 30	0 21.82	+19 32.2	2.161	2.317	25.9	21.3	86 W	53*	44
7 10	0 33.48	+20 54.6	2.002	2.273	26.6	21.1	92 W	59*	43
7 20	0 44.23	+22 8.2	1.844	2.228	26.8	20.9	98 W	64*	42
7 30	0 53.76	+23 9.5	1.689	2.183	26.7	20.6	105 W	68*	41
8 9	1 1.77	+23 54.8	1.538	2.137	26.1	20.4	112 W	69	40
8 14	1 5.09	+24 10.0	1.465	2.114	25.5	20.2	116 W	69	40
8 19	1 7.86	+24 19.0	1.394	2.090	24.8	20.1	120 W	69	40
8 24	1 10.04	+24 21.0	1.324	2.067	23.9	19.9	124 W	69	40
8 29	1 11.58	+24 15.0	1.258	2.044	22.8	19.7	128 W	69	40
9 3	1 12.43	+23 59.9	1.194	2.020	21.5	19.6	133 W	69	40
9 8	1 12.56	+23 34.6	1.134	1.997	19.9	19.4	138 W	69	40
9 13	1 11.94	+22 57.9	1.077	1.973	18.1	19.2	143 W	68	41
9 18	1 10.56	+22 8.5	1.025	1.950	15.9	19.0	148 W	67	42
9 23	1 8.47	+21 5.5	0.977	1.927	13.6	18.8	153 W	66	43
9 28	1 5.73	+19 48.2	0.935	1.904	11.0	18.5	159 W	65	44
10 3	1 2.47	+18 16.8	0.897	1.880	8.3	18.3	164 W	63	46
10 8	0 58.82	+16 31.9	0.866	1.857	5.7	18.1	169 W	62	47
10 13	0 54.95	+14 35.0	0.841	1.835	4.4	17.9	172 E	60	49
10 18	0 51.10	+12 28.5	0.823	1.812	5.7	17.9	170 E	57	52
10 23	0 47.48	+10 15.8	0.811	1.790	8.6	18.0	164 E	55	54
10 28	0 44.31	+ 8 0.9	0.805	1.767	12.0	18.1	158 E	53	56
11 2	0 41.79	+ 5 47.7	0.806	1.746	15.4	18.2	152 E	51	58
11 7	0 40.06	+ 3 39.7	0.812	1.724	18.8	18.3	146 E	49	60
11 12	0 39.24	+ 1 40.0	0.823	1.703	22.0	18.4	140 E	47	62
11 17	0 39.40	− 0 8.9	0.838	1.683	25.0	18.5	134 E	45	64
11 22	0 40.60	− 1 45.6	0.857	1.662	27.7	18.6	129 E	43	66
11 27	0 42.84	− 3 9.2	0.878	1.643	30.1	18.7	123 E	42	67
12 7	0 50.28	− 5 17.3	0.929	1.606	34.1	18.9	114 E	40	69
12 17	1 1.38	− 6 36.5	0.984	1.571	37.0	19.0	106 E	38	71
12 27	1 15.71	− 7 13.2	1.042	1.540	39.1	19.2	99 E	38	70*
1 1	1 23.93	− 7 17.9	1.071	1.526	39.9	19.2	96 E	38	69*
1 6	1 32.78	− 7 14.7	1.100	1.513	40.5	19.3	93 E	38	68*
1 11	1 42.22	− 7 4.3	1.128	1.501	40.9	19.4	90 E	38	66*
1 16	1 52.21	− 6 47.5	1.156	1.490	41.3	19.4	88 E	38	64*

220219 2002 *VM*$_{99}$

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 20	0 15.74	−12 37.0	2.781	2.967	20.0	21.5	90 W	21*	77*
6 30	0 21.32	−12 7.5	2.623	2.945	20.0	21.3	98 W	26*	76
7 10	0 25.21	−11 48.1	2.468	2.923	19.5	21.2	106 W	30*	76
7 20	0 27.12	−11 39.3	2.317	2.899	18.5	21.0	115 W	33*	76
7 30	0 26.74	−11 41.1	2.176	2.875	16.9	20.8	125 W	33	76
8 9	0 23.81	−11 52.5	2.047	2.850	14.7	20.6	134 W	33	76
8 19	0 18.18	−12 11.6	1.936	2.824	11.9	20.3	145 W	33	76
8 29	0 9.91	−12 34.6	1.847	2.797	8.6	20.1	155 W	32	77
9 3	0 4.89	−12 46.0	1.811	2.783	6.9	19.9	161 W	32	77
9 8	23 59.40	−12 56.3	1.783	2.769	5.4	19.8	165 W	32	77
9 13	23 53.52	−13 4.9	1.761	2.754	4.2	19.7	168 W	32	77
9 18	23 47.41	−13 10.9	1.747	2.740	4.1	19.7	169 W	32	77
9 23	23 41.19	−13 13.8	1.741	2.725	5.2	19.7	166 E	32	77
9 28	23 35.04	−13 12.9	1.741	2.710	6.8	19.8	161 E	32	77
10 8	23 23.51	−12 58.8	1.764	2.679	10.6	19.9	151 E	32	77
10 18	23 13.86	−12 27.4	1.812	2.648	14.2	20.1	139 E	33	76
10 28	23 6.81	−11 39.5	1.881	2.615	17.3	20.3	128 E	33	76
11 7	23 2.70	−10 37.3	1.966	2.582	19.8	20.4	118 E	34	75
11 17	23 1.53	− 9 22.8	2.062	2.548	21.6	20.6	108 E	36	73
11 27	23 3.14	− 7 57.9	2.164	2.513	22.8	20.7	99 E	37	71*
12 7	23 7.21	− 6 24.0	2.268	2.478	23.4	20.8	90 E	39	65*
12 17	23 13.45	− 4 42.2	2.372	2.442	23.5	20.8	82 E	40	57*
12 27	23 21.57	− 2 53.1	2.471	2.405	23.2	20.9	75 E	42	49*
1 6	23 31.30	− 0 57.4	2.564	2.368	22.6	20.9	67 E	43*	41*
1 16	23 42.45	+ 1 4.6	2.648	2.330	21.6	20.9	61 E	43*	34*

483406 1999 *RK*$_{30}$

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	0 20.55	+ 0 59.8	1.864	2.024	29.9	21.4	84 W	32*	63*
6 30	0 33.07	+ 4 21.7	1.713	1.978	30.9	21.2	89 W	39*	60
7 10	0 44.76	+ 8 0.0	1.567	1.934	31.6	21.0	95 W	47*	56
7 20	0 55.41	+11 57.9	1.426	1.890	32.0	20.7	100 W	54*	52
7 30	1 4.68	+16 18.9	1.293	1.847	31.9	20.4	106 W	61*	48
8 9	1 12.17	+21 6.6	1.171	1.807	31.5	20.2	111 W	66	43
8 19	1 17.24	+26 23.2	1.061	1.768	30.7	19.9	117 W	71	38
8 24	1 18.61	+29 11.9	1.012	1.749	30.2	19.7	120 W	74	35
8 29	1 19.03	+32 6.7	0.967	1.731	29.6	19.6	122 W	77	32
9 3	1 18.38	+35 6.6	0.926	1.713	29.0	19.5	125 W	80	29
9 8	1 16.47	+38 9.6	0.889	1.697	28.4	19.3	127 W	83	26
9 13	1 13.14	+41 13.3	0.857	1.681	27.9	19.2	129 W	86	23
9 18	1 8.20	+44 14.2	0.830	1.665	27.5	19.1	130 W	89	20
9 23	1 1.53	+47 8.6	0.808	1.651	27.3	19.0	131 W	88	17
9 28	0 53.09	+49 52.2	0.791	1.637	27.2	19.0	132 W	85	14
10 3	0 42.92	+52 21.0	0.778	1.625	27.4	18.9	132 W	83	12
10 8	0 31.24	+54 31.3	0.770	1.613	27.8	18.9	131 E	80	9
10 10	0 26.23	+55 17.5	0.767	1.609	28.0	18.9	131 E	80	9
10 12	0 21.07	+56 0.1	0.766	1.604	28.3	18.9	130 E	79	8
10 14	0 15.81	+56 39.1	0.765	1.600	28.5	18.9	130 E	78	7
10 16	0 10.49	+57 14.4	0.764	1.596	28.8	18.9	130 E	78	7
10 18	0 5.16	+57 45.9	0.764	1.593	29.1	18.9	129 E	77	6
10 20	23 59.89	+58 13.8	0.765	1.589	29.4	18.9	128 E	77	6
10 22	23 54.71	+58 38.1	0.766	1.586	29.7	18.9	128 E	76	5
10 24	23 49.68	+58 59.1	0.768	1.582	30.0	18.9	127 E	76	5
10 26	23 44.85	+59 16.8	0.770	1.579	30.3	18.9	127 E	76	5
10 28	23 40.27	+59 31.4	0.772	1.577	30.7	18.9	126 E	75	4
10 30	23 35.96	+59 43.2	0.775	1.574	31.0	19.0	125 E	75	4
11 1	23 31.98	+59 52.4	0.778	1.571	31.3	19.0	125 E	75	4
11 3	23 28.34	+59 59.2	0.782	1.569	31.6	19.0	124 E	75	4
11 5	23 25.09	+60 3.8	0.786	1.567	31.9	19.0	123 E	75	4
11 7	23 22.23	+60 6.5	0.790	1.565	32.2	19.0	123 E	75	4
11 12	23 16.92	+60 6.2	0.801	1.561	32.9	19.1	121 E	75	4
11 17	23 14.36	+59 58.5	0.814	1.558	33.6	19.1	119 E	75	4
11 22	23 14.55	+59 46.4	0.828	1.557	34.1	19.2	118 E	75	4
11 27	23 17.40	+59 32.0	0.843	1.556	34.6	19.2	116 E	75	4*
12 2	23 22.74	+59 16.8	0.859	1.557	35.0	19.3	115 E	76	5*
12 7	23 30.40	+59 1.2	0.876	1.559	35.3	19.3	114 E	76	5*
12 12	23 40.21	+58 45.6	0.894	1.563	35.6	19.4	113 E	76	4*
12 17	23 52.03	+58 29.9	0.913	1.567	35.8	19.4	111 E	76	4*
12 22	0 5.66	+58 13.7	0.933	1.573	35.9	19.5	110 E	77	4*
12 27	0 20.89	+57 56.3	0.954	1.580	36.0	19.6	109 E	77	4*
1 1	0 37.51	+57 36.9	0.977	1.588	36.0	19.6	108 E	77	4*
1 6	0 55.32	+57 14.5	1.001	1.597	36.0	19.7	107 E	78	5*
1 11	1 14.08	+56 48.2	1.027	1.607	36.0	19.8	106 E	78	5*
1 16	1 33.59	+56 17.5	1.055	1.618	36.0	19.8	105 E	79	6*

523585 1998 *MW*$_5$

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	0 28.50	− 4 40.2	0.939	1.312	50.4	21.3	84 W	26*	68*
6 30	0 58.17	− 2 39.4	0.849	1.279	52.5	21.1	86 W	30*	67*
7 10	1 30.69	− 0 32.7	0.763	1.241	54.9	20.9	87 W	33*	65
7 20	2 7.20	+ 1 41.3	0.682	1.197	58.0	20.6	87 W	37*	62
7 30	2 49.06	+ 4 3.4	0.610	1.148	62.0	20.4	86 W	40*	60*

523585 1998 *MW*$_5$ *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 4	3 12.51	+ 5 17.2	0.578	1.121	64.3	20.3	85 W	42*	59*
8 9	3 37.89	+ 6 32.1	0.550	1.093	67.0	20.3	83 W	43*	57*
8 14	4 5.33	+ 7 46.4	0.526	1.064	70.0	20.2	81 W	44*	55*
8 19	4 34.86	+ 8 58.1	0.507	1.034	73.2	20.2	78 W	44*	53*
8 24	5 6.35	+10 4.2	0.493	1.003	76.7	20.2	75 W	45*	51*
8 29	5 39.50	+11 1.4	0.486	0.971	80.3	20.2	71 W	44*	48*
9 3	6 13.85	+11 46.3	0.485	0.939	83.8	20.2	68 W	44*	45*
9 8	6 48.76	+12 15.7	0.491	0.906	87.0	20.3	64 W	43*	42*
9 13	7 23.57	+12 27.9	0.504	0.873	89.7	20.4	60 W	42*	39*
9 18	7 57.64	+12 22.3	0.525	0.840	91.9	20.5	57 W	40*	36*
9 23	8 30.50	+11 59.8	0.553	0.808	93.2	20.6	53 W	39*	33*
9 28	9 1.89	+11 21.7	0.587	0.777	93.6	20.6	51 W	38*	30*
10 3	9 31.77	+10 29.4	0.628	0.747	93.0	20.7	48 W	36*	27*
10 8	10 0.20	+ 9 24.4	0.674	0.720	91.5	20.7	46 W	35*	25*
10 13	10 27.33	+ 8 7.7	0.726	0.697	89.1	20.7	44 W	34*	23*
10 18	10 53.36	+ 6 40.5	0.781	0.677	85.8	20.6	43 W	33*	22*
10 23	11 18.47	+ 5 3.9	0.841	0.663	81.9	20.6	41 W	32*	20*
10 28	11 42.80	+ 3 19.2	0.902	0.655	77.5	20.6	40 W	31*	19*
11 2	12 6.49	+ 1 28.0	0.966	0.652	72.8	20.5	39 W	29*	18*
11 7	12 29.61	− 0 27.7	1.029	0.656	68.0	20.5	38 W	28*	18*
11 12	12 52.22	− 2 25.7	1.091	0.666	63.2	20.6	37 W	27*	17*
11 17	13 14.32	− 4 23.8	1.151	0.681	58.8	20.6	36 W	26*	17*
11 22	13 35.92	− 6 19.6	1.209	0.702	54.8	20.6	35 W	25*	17*
11 27	13 57.04	− 8 11.4	1.264	0.726	51.2	20.7	35 W	24*	17*
12 2	14 17.69	− 9 57.8	1.315	0.753	48.0	20.8	35 W	23*	18*
12 7	14 37.90	−11 37.6	1.362	0.783	45.4	20.9	34 W	22*	19*
12 12	14 57.67	−13 10.1	1.406	0.815	43.1	21.0	34 W	22*	19*
12 17	15 17.03	−14 34.7	1.446	0.847	41.3	21.1	35 W	21*	20*
12 22	15 35.99	−15 51.3	1.482	0.880	39.8	21.2	35 W	20*	21*
12 27	15 54.56	−16 59.8	1.515	0.913	38.6	21.2	35 W	19*	23*
1 1	16 12.77	−18 0.1	1.543	0.946	37.7	21.3	36 W	19*	24*
1 6	16 30.63	−18 52.6	1.568	0.978	37.0	21.4	37 W	18*	26*

221980 1996 *EO*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	0 40.05	−23 8.0	0.909	1.357	48.5	21.3	90 W	9*	84*
6 25	0 54.99	−21 19.5	0.855	1.328	50.0	21.1	90 W	11*	83*
6 30	1 10.36	−19 18.6	0.803	1.297	51.6	21.0	90 W	14*	82*
7 5	1 26.30	−17 2.9	0.753	1.266	53.4	20.9	90 W	17*	81*
7 10	1 42.96	−14 29.8	0.705	1.235	55.4	20.7	90 W	20*	78*
7 15	2 0.50	−11 36.5	0.659	1.203	57.6	20.6	89 W	23*	76*
7 20	2 19.13	− 8 20.0	0.617	1.171	60.2	20.4	88 W	27*	72*
7 25	2 39.10	− 4 37.3	0.578	1.139	63.0	20.3	87 W	31*	68*
7 30	3 0.71	− 0 26.5	0.543	1.106	66.0	20.2	85 W	35*	64*
8 4	3 24.32	+ 4 12.4	0.514	1.074	69.4	20.1	82 W	39*	59*
8 9	3 50.29	+ 9 15.5	0.491	1.042	73.0	20.1	79 W	44*	54*
8 11	4 1.42	+11 21.7	0.484	1.029	74.5	20.1	78 W	45*	52*
8 13	4 12.99	+13 29.6	0.478	1.016	76.0	20.1	77 W	47*	49*
8 15	4 25.02	+15 38.1	0.474	1.004	77.4	20.1	75 W	48*	47*
8 17	4 37.52	+17 46.2	0.471	0.992	78.9	20.1	74 W	50*	44*
8 19	4 50.48	+19 52.5	0.469	0.980	80.3	20.1	73 W	51*	42*
8 21	5 3.90	+21 55.8	0.469	0.968	81.6	20.1	71 W	52*	39*
8 23	5 17.76	+23 54.8	0.470	0.956	82.8	20.2	70 W	53*	37*
8 25	5 32.03	+25 48.2	0.473	0.944	84.0	20.2	68 W	53*	35*
8 27	5 46.67	+27 34.6	0.477	0.933	85.0	20.2	67 W	54*	32*
8 29	6 1.62	+29 13.1	0.482	0.922	85.9	20.3	66 W	54*	30*
8 31	6 16.83	+30 42.7	0.489	0.911	86.7	20.3	64 W	54*	28*
9 2	6 32.22	+32 2.8	0.497	0.901	87.3	20.3	63 W	54*	25*
9 4	6 47.71	+33 12.7	0.507	0.891	87.8	20.4	62 W	54*	23*
9 6	7 3.21	+34 12.3	0.518	0.882	88.2	20.4	61 W	53*	21*
9 8	7 18.64	+35 1.5	0.529	0.872	88.4	20.4	60 W	53*	20*
9 10	7 33.90	+35 40.5	0.542	0.864	88.4	20.5	59 W	52*	18*
9 12	7 48.93	+36 9.5	0.556	0.856	88.3	20.5	58 W	52*	16*
9 14	8 3.64	+36 29.1	0.571	0.848	88.1	20.5	57 W	51*	15*
9 16	8 17.98	+36 39.8	0.586	0.841	87.7	20.5	57 W	51*	14*
9 18	8 31.90	+36 42.1	0.603	0.834	87.2	20.6	56 W	50*	13*
9 20	8 45.36	+36 36.8	0.620	0.828	86.6	20.6	55 W	49*	12*
9 22	8 58.34	+36 24.5	0.637	0.823	85.9	20.6	55 W	49*	11*
9 24	9 10.82	+36 5.8	0.655	0.818	85.1	20.6	54 W	48*	10*
9 26	9 22.81	+35 41.4	0.673	0.814	84.2	20.6	54 W	48*	9*
9 28	9 34.30	+35 11.9	0.692	0.810	83.2	20.7	53 W	47*	9*
9 30	9 45.31	+34 37.7	0.711	0.808	82.2	20.7	53 W	47*	8*
10 2	9 55.86	+33 59.5	0.730	0.806	81.2	20.7	53 W	47*	8*
10 4	10 5.96	+33 17.7	0.749	0.805	80.0	20.7	52 W	46*	8*
10 6	10 15.64	+32 32.7	0.769	0.804	78.9	20.7	52 W	46*	7*
10 8	10 24.92	+31 45.0	0.788	0.804	77.7	20.7	52 W	46*	7*
10 13	10 46.51	+29 35.8	0.836	0.808	74.7	20.8	51 W	45*	7*
10 18	11 6.07	+27 16.3	0.883	0.816	71.7	20.8	51 W	45*	8*
10 23	11 23.93	+24 50.3	0.927	0.829	68.8	20.8	51 W	45*	9*
10 28	11 40.37	+22 20.4	0.969	0.845	66.0	20.9	51 W	45*	10*
11 2	11 55.62	+19 49.0	1.008	0.865	63.4	21.0	51 W	45*	11*
11 7	12 9.87	+17 17.7	1.044	0.887	61.1	21.0	52 W	45*	13*

221980 1996 *EO* *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 12	12 23.28	+14 47.7	1.075	0.913	59.0	21.1	52 W	45*	15*
11 17	12 35.96	+12 20.1	1.103	0.940	57.2	21.1	53 W	45*	17*
11 22	12 48.00	+ 9 55.5	1.127	0.969	55.6	21.2	54 W	45*	20*
11 27	12 59.47	+ 7 34.2	1.146	0.999	54.2	21.3	55 W	45*	23*
12 2	13 10.44	+ 5 16.4	1.162	1.030	53.0	21.3	57 W	45*	26*
12 7	13 20.94	+ 3 2.3	1.174	1.062	52.0	21.4	58 W	44*	29*
12 12	13 31.02	+ 0 51.8	1.181	1.094	51.1	21.4	60 W	43*	32*
12 17	13 40.68	− 1 15.2	1.185	1.127	50.3	21.5	62 W	42*	36*

216595 2002 PB_8

6 20	0 40.87	+ 5 50.5	1.709	1.784	33.7	21.4	77 W	33*	58*
6 30	1 1.86	+ 8 11.8	1.599	1.755	34.9	21.3	81 W	38*	56*
7 10	1 22.89	+10 29.4	1.493	1.729	35.8	21.1	85 W	44*	54
7 20	1 43.87	+12 41.4	1.390	1.705	36.6	21.0	89 W	49*	51
7 30	2 4.64	+14 45.8	1.292	1.683	37.0	20.8	93 W	55*	49
8 9	2 25.01	+16 40.9	1.198	1.664	37.2	20.6	97 W	60*	47
8 19	2 44.65	+18 25.0	1.109	1.647	37.0	20.4	102 W	63*	46
8 29	3 3.11	+19 56.4	1.025	1.634	36.3	20.2	107 W	65	44
9 3	3 11.74	+20 37.0	0.985	1.628	35.7	20.1	110 W	66	43
9 8	3 19.87	+21 14.1	0.946	1.624	35.0	20.0	112 W	66	43
9 13	3 27.42	+21 47.5	0.909	1.620	34.1	19.9	115 W	67	42
9 18	3 34.27	+22 17.1	0.874	1.617	33.1	19.7	119 W	67	42
9 23	3 40.33	+22 42.8	0.840	1.615	31.8	19.6	122 W	68	41
9 28	3 45.51	+23 4.6	0.809	1.613	30.3	19.5	126 W	68	41
10 3	3 49.72	+23 22.3	0.779	1.613	28.6	19.4	130 W	68	41
10 8	3 52.89	+23 36.0	0.752	1.613	26.6	19.2	134 W	69	40
10 18	3 55.80	+23 50.2	0.706	1.617	21.8	18.9	143 W	69	40
10 28	3 54.14	+23 46.0	0.674	1.624	16.1	18.7	153 W	69	40
11 7	3 48.65	+23 23.9	0.658	1.634	9.4	18.4	164 W	68	41
11 12	3 44.93	+23 6.8	0.656	1.640	6.0	18.2	170 W	68	41
11 17	3 40.89	+22 46.5	0.660	1.647	2.8	18.1	175 W	68	41
11 22	3 36.86	+22 24.3	0.668	1.655	2.4	18.1	176 E	67	42
11 27	3 33.11	+22 1.3	0.682	1.664	5.4	18.3	171 E	67	42
12 2	3 29.89	+21 38.8	0.701	1.673	8.6	18.5	165 E	67	42
12 7	3 27.39	+21 17.9	0.724	1.683	11.7	18.7	160 E	66	43
12 12	3 25.74	+20 59.6	0.752	1.694	14.7	18.9	154 E	66	43
12 17	3 25.05	+20 44.7	0.785	1.705	17.4	19.1	149 E	66	43
12 22	3 25.36	+20 33.6	0.821	1.717	19.8	19.3	144 E	66	43
12 27	3 26.66	+20 26.6	0.862	1.729	21.9	19.5	139 E	65	44
1 1	3 28.92	+20 23.5	0.906	1.742	23.8	19.7	134 E	65	44
1 6	3 32.07	+20 24.0	0.953	1.756	25.4	19.9	130 E	65	44
1 11	3 36.06	+20 27.9	1.003	1.770	26.8	20.1	126 E	65	44
1 16	3 40.83	+20 34.6	1.056	1.784	27.9	20.2	122 E	66	43

506810 2007 RH_{32}

6 20	0 46.63	− 1 5.1	1.529	1.661	36.9	21.4	79 W	27*	64*
6 30	1 7.76	+ 0 44.7	1.454	1.663	37.3	21.3	83 W	31*	63*
7 10	1 27.83	+ 2 24.5	1.380	1.667	37.5	21.2	87 W	36*	62
7 20	1 46.62	+ 3 52.6	1.307	1.674	37.4	21.1	91 W	41*	60
7 30	2 3.80	+ 5 7.5	1.236	1.684	36.8	21.0	96 W	46*	59
8 9	2 18.99	+ 6 8.3	1.165	1.696	35.8	20.8	102 W	50*	58
8 19	2 31.73	+ 6 54.2	1.097	1.710	34.2	20.7	108 W	52*	57
8 29	2 41.45	+ 7 25.1	1.033	1.726	31.9	20.5	115 W	52	57
9 8	2 47.62	+ 7 41.5	0.973	1.743	28.9	20.3	123 W	53	56
9 18	2 49.73	+ 7 44.3	0.922	1.763	24.9	20.1	132 W	53	56
9 28	2 47.49	+ 7 35.7	0.882	1.784	20.0	19.9	142 W	53	56
10 8	2 41.17	+ 7 19.6	0.857	1.807	14.3	19.7	154 W	52	57
10 13	2 36.71	+ 7 10.3	0.851	1.819	11.2	19.5	159 W	52	57
10 18	2 31.63	+ 7 1.1	0.850	1.831	8.1	19.4	165 W	52	57
10 23	2 26.14	+ 6 52.9	0.855	1.843	5.3	19.3	170 W	52	57
10 28	2 20.51	+ 6 46.8	0.865	1.856	3.7	19.3	173 W	52	57
11 2	2 14.98	+ 6 43.3	0.882	1.868	4.6	19.4	171 E	52	57
11 7	2 9.78	+ 6 43.1	0.904	1.881	7.1	19.6	166 E	52	57
11 17	2 1.14	+ 6 54.4	0.965	1.908	12.5	20.0	155 E	52	57
11 27	1 55.74	+ 7 22.4	1.046	1.935	17.3	20.3	144 E	52	57
12 7	1 53.95	+ 8 6.3	1.145	1.963	21.1	20.7	134 E	53	56
12 17	1 55.65	+ 9 3.6	1.258	1.991	23.9	21.0	125 E	54	55
12 27	2 0.52	+10 11.7	1.383	2.019	25.9	21.3	116 E	55	54

523792 2015 MR_{101}

6 20	0 46.92	+35 43.9	1.404	1.365	43.0	21.5	66 W	52*	28*
6 25	1 5.50	+38 30.7	1.353	1.327	44.6	21.4	66 W	54*	25*
6 30	1 26.24	+41 15.3	1.306	1.287	46.2	21.3	66 W	55*	22*
7 5	1 49.56	+43 53.7	1.263	1.246	47.8	21.2	65 W	56*	20*
7 10	2 15.90	+46 20.9	1.224	1.204	49.5	21.1	64 W	56*	17*
7 15	2 45.62	+48 30.1	1.189	1.161	51.2	21.0	63 W	56*	15*
7 20	3 18.88	+50 13.4	1.158	1.118	53.0	20.9	61 W	55*	12*
7 25	3 55.43	+51 21.6	1.132	1.073	54.8	20.8	60 W	53*	10*

523792 2015 MR_{101} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 30	4 34.50	+51 46.2	1.112	1.028	56.5	20.7	58 W	52*	9*
8 4	5 14.79	+51 20.4	1.096	0.983	58.1	20.7	55 W	49*	7*
8 9	5 54.70	+50 1.2	1.086	0.937	59.6	20.6	53 W	47*	7*
8 14	6 32.78	+47 49.6	1.081	0.892	60.9	20.5	50 W	44*	6*
8 19	7 8.06	+44 50.0	1.082	0.847	61.9	20.4	48 W	42*	6*
8 24	7 40.19	+41 8.9	1.089	0.804	62.4	20.3	45 W	39*	7*
8 29	8 9.27	+36 53.7	1.102	0.764	62.5	20.2	42 W	36*	7*
8 31	8 20.13	+35 3.7	1.109	0.749	62.3	20.2	41 W	35*	8*
9 2	8 30.61	+33 9.8	1.116	0.734	62.1	20.2	40 W	34*	8*
9 4	8 40.74	+31 12.4	1.125	0.720	61.7	20.1	39 W	33*	9*
9 6	8 50.55	+29 12.1	1.134	0.707	61.3	20.1	38 W	32*	9*
9 8	9 0.08	+27 9.2	1.145	0.695	60.7	20.1	37 W	31*	10*
9 13	9 22.92	+21 53.5	1.175	0.668	58.8	20.0	35 W	28*	11*
9 18	9 44.74	+16 30.9	1.209	0.650	56.2	19.9	32 W	25*	13*
9 23	10 5.94	+11 7.9	1.249	0.639	53.0	19.9	31 W	22*	14*
9 28	10 26.86	+ 5 50.8	1.292	0.639	49.4	19.8	29 W	19*	15*
10 3	10 47.69	+ 0 45.4	1.338	0.647	45.8	19.8	28 W	16*	16*
10 8	11 8.55	− 4 3.6	1.386	0.665	42.2	19.9	27 W	14*	17*
10 13	11 29.47	− 8 32.4	1.436	0.690	38.8	19.9	26 W	11*	17*
10 18	11 50.45	−12 39.1	1.487	0.721	35.8	20.0	25 W	9*	18*
10 28	12 32.36	−19 42.7	1.591	0.798	30.8	20.2	24 W	5*	18*
11 7	13 13.85	−25 16.3	1.693	0.884	27.1	20.5	24 W	2*	18*
11 17	13 54.49	−29 29.8	1.790	0.975	24.4	20.7	24 W	—	18*
11 27	14 33.84	−32 35.1	1.881	1.066	22.7	21.0	25 W	—	19*
12 7	15 11.55	−34 43.5	1.961	1.154	21.7	21.2	26 W	—	20*
12 17	15 47.36	−36 5.7	2.029	1.239	21.3	21.4	27 W	—	21*

302100 2001 FA_{97}

6 20	0 50.57	− 3 0.8	2.653	2.645	22.1	21.5	79 W	24*	65*
6 30	0 58.47	− 2 17.2	2.564	2.689	22.2	21.5	86 W	30*	66*
7 10	1 4.64	− 1 45.2	2.472	2.733	21.8	21.4	94 W	36*	66
7 20	1 8.89	− 1 25.3	2.380	2.775	21.0	21.3	102 W	40*	65
7 30	1 10.97	− 1 18.1	2.290	2.818	19.7	21.2	111 W	43*	65
8 9	1 10.72	− 1 23.5	2.208	2.859	17.8	21.1	120 W	44	65
8 19	1 8.04	− 1 40.8	2.137	2.900	15.4	21.0	131 W	43	66
8 29	1 2.96	− 2 8.3	2.082	2.940	12.4	20.9	141 W	43	66
9 8	0 55.78	− 2 43.1	2.048	2.979	8.9	20.7	153 W	42	67
9 18	0 46.99	− 3 21.2	2.039	3.017	5.3	20.6	164 W	42	67
9 28	0 37.37	− 3 57.7	2.059	3.055	2.5	20.5	172 W	41	68
10 8	0 27.81	− 4 27.7	2.108	3.091	4.0	20.6	168 E	41	68
10 18	0 19.13	− 4 47.5	2.187	3.127	7.2	20.9	157 E	40	69
10 28	0 12.05	− 4 54.9	2.292	3.163	10.2	21.2	146 E	40	69
11 7	0 6.97	− 4 49.1	2.421	3.197	12.7	21.4	135 E	40	69

468540 2006 MD_{12}

6 20	1 12.83	+24 45.6	0.916	1.022	63.0	21.5	64 W	41*	37*
6 25	1 39.10	+28 49.1	0.881	0.977	66.1	21.4	61 W	43*	33*
6 30	2 9.80	+32 47.7	0.854	0.928	69.4	21.3	59 W	43*	29*
7 5	2 45.67	+36 26.3	0.837	0.876	72.8	21.3	55 W	43*	24*
7 10	3 27.03	+39 24.6	0.831	0.820	76.0	21.2	51 W	41*	20*
7 15	4 13.21	+41 20.4	0.838	0.760	78.8	21.2	47 W	39*	15*
7 20	5 2.28	+41 55.2	0.859	0.696	80.9	21.1	43 W	35*	11*
7 25	5 51.40	+41 0.3	0.894	0.628	81.6	21.0	38 W	31*	8*
7 30	6 38.01	+38 38.8	0.945	0.558	80.5	20.8	33 W	27*	6*
8 4	7 20.77	+35 0.6	1.010	0.487	76.6	20.5	28 W	22*	4*
8 9	7 59.86	+30 16.2	1.088	0.419	68.7	20.1	23 W	16*	3*
8 11	8 14.72	+28 5.6	1.122	0.394	64.1	19.9	20 W	14*	2*
8 13	8 29.28	+25 46.2	1.157	0.372	58.5	19.7	18 W	12*	2*
8 15	8 43.63	+23 18.6	1.192	0.354	52.0	19.4	16 W	10*	1*
8 17	8 57.85	+20 43.9	1.226	0.341	44.6	19.2	14 W	7*	1*
8 19	9 11.99	+18 3.8	1.259	0.333	36.8	19.0	11 W	5*	1*
8 21	9 26.05	+15 20.6	1.289	0.331	28.9	18.8	9 W	2*	—
8 23	9 39.99	+12 36.8	1.316	0.336	21.7	18.7	7 W	—	—
8 25	9 53.76	+ 9 55.2	1.339	0.347	16.2	18.6	6 W	—	—
8 27	10 7.30	+ 7 17.8	1.360	0.363	13.5	18.7	5 W	—	—
8 29	10 20.60	+ 4 46.2	1.378	0.384	13.9	18.8	5 W	—	—
9 3	10 52.60	− 1 2.6	1.417	0.446	19.9	19.4	9 E	—	—
9 8	11 22.96	− 6 6.5	1.452	0.516	25.0	19.9	12 E	—	3*
9 13	11 51.88	−10 28.1	1.488	0.587	27.8	20.3	16 E	—	6*
9 18	12 19.56	−14 11.5	1.527	0.657	29.1	20.7	19 E	—	9*
9 23	12 46.14	−17 20.8	1.570	0.723	29.3	21.0	21 E	—	12*
9 28	13 11.68	−19 59.6	1.616	0.785	28.8	21.2	22 E	—	13*
10 3	13 36.24	−22 11.7	1.664	0.843	28.0	21.4	23 E	—	15*

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6 20	1 13.88	+14 41.7	1.065	1.140	54.8	21.3	66 W	34*	47*
6 25	1 40.22	+16 38.9	1.019	1.086	57.6	21.2	65 W	35*	45*
6 30	2 9.11	+18 30.6	0.981	1.031	60.6	21.1	62 W	35*	42*
7 5	2 40.59	+20 11.1	0.953	0.976	63.6	21.0	59 W	34*	39*

141527 2002 FG_7 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 10	3 14.48	+21 34.2	0.936	0.920	66.5	20.9	56 W	33*	37*
7 15	3 50.35	+22 33.7	0.930	0.863	68.9	20.8	52 W	32*	34*
7 20	4 27.52	+23 4.6	0.937	0.808	70.8	20.8	49 W	30*	31*
7 25	5 5.18	+23 4.6	0.956	0.754	71.8	20.7	45 W	28*	28*
7 30	5 42.56	+22 34.6	0.988	0.703	71.5	20.6	41 W	26*	25*
8 4	6 19.07	+21 37.9	1.033	0.657	69.8	20.5	37 W	23*	23*
8 9	6 54.37	+20 19.1	1.087	0.617	66.5	20.4	34 W	21*	20*
8 14	7 28.32	+18 43.1	1.151	0.587	61.6	20.2	31 W	18*	18*
8 19	8 0.91	+16 54.5	1.221	0.569	55.3	20.1	28 W	16*	16*
8 24	8 32.08	+14 57.2	1.295	0.565	48.3	20.0	25 W	14*	14*
8 29	9 1.78	+12 54.6	1.369	0.576	41.2	20.0	22 W	12*	12*
9 3	9 29.89	+10 50.0	1.443	0.599	34.6	20.0	20 W	10*	10*
9 8	9 56.37	+ 8 45.8	1.514	0.634	28.9	20.1	18 W	8*	8*
9 13	10 21.20	+ 6 44.2	1.583	0.677	24.3	20.2	16 W	7*	7*
9 18	10 44.45	+ 4 46.7	1.650	0.725	20.7	20.3	15 W	6*	6*
9 23	11 6.23	+ 2 54.3	1.713	0.778	18.0	20.5	14 W	6*	5*
9 28	11 26.67	+ 1 7.6	1.775	0.832	16.1	20.6	13 W	5*	4*
10 3	11 45.90	− 0 33.3	1.833	0.888	14.8	20.8	13 W	5*	4*
10 8	12 4.06	− 2 8.1	1.889	0.944	14.0	21.0	13 W	6*	4*
10 13	12 21.27	− 3 37.1	1.943	1.000	13.5	21.1	14 W	6*	4*
10 18	12 37.64	− 5 0.3	1.993	1.056	13.4	21.3	14 W	7*	4*
10 23	12 53.26	− 6 18.0	2.040	1.110	13.5	21.5	15 W	8*	4*

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20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	1 29.31	+ 8 27.2	1.879	1.719	32.4	21.4	65 W	27*	51*
6 30	1 54.19	+10 33.6	1.785	1.694	33.9	21.3	68 W	32*	51*
7 10	2 19.46	+12 30.7	1.695	1.672	35.1	21.2	71 W	37*	50*
7 20	2 45.00	+14 16.5	1.608	1.653	36.3	21.1	74 W	42*	49*
7 30	3 10.64	+15 48.5	1.526	1.639	37.2	21.0	77 W	47*	48*
8 9	3 36.14	+17 5.1	1.446	1.628	37.9	20.9	81 W	52*	47*
8 19	4 1.20	+18 5.0	1.370	1.621	38.4	20.8	84 W	56*	46*
8 29	4 25.42	+18 47.7	1.298	1.619	38.6	20.7	88 W	60*	45*
9 8	4 48.36	+19 13.8	1.227	1.621	38.4	20.5	92 W	63*	45
9 18	5 9.52	+19 24.5	1.160	1.627	37.8	20.4	97 W	64*	45
9 28	5 28.33	+19 22.2	1.095	1.637	36.7	20.3	102 W	64	45
10 8	5 44.22	+19 10.0	1.034	1.651	35.0	20.1	109 W	64	45
10 18	5 56.57	+18 51.8	0.977	1.669	32.6	19.9	116 W	64	45
10 28	6 4.79	+18 31.5	0.925	1.690	29.4	19.8	123 W	64	45
11 7	6 8.46	+18 13.3	0.882	1.715	25.2	19.6	133 W	63	46
11 17	6 7.39	+18 0.4	0.850	1.743	20.1	19.4	143 W	63	46
11 27	6 1.97	+17 54.9	0.833	1.773	14.2	19.2	154 W	63	46
12 2	5 57.97	+17 55.1	0.832	1.789	11.0	19.0	160 W	63	46
12 7	5 53.36	+17 57.4	0.835	1.806	7.8	18.9	166 W	63	46
12 12	5 48.39	+18 1.5	0.844	1.823	4.8	18.8	171 W	63	46
12 17	5 43.32	+18 7.3	0.859	1.841	2.8	18.8	175 W	63	46
12 22	5 38.42	+18 14.8	0.879	1.859	3.9	18.9	173 E	63	46
12 27	5 33.93	+18 23.7	0.906	1.878	6.6	19.2	167 E	63	46
1 1	5 30.05	+18 34.0	0.938	1.897	9.3	19.4	162 E	64	45
1 6	5 26.93	+18 45.4	0.975	1.916	12.0	19.6	156 E	64	45
1 11	5 24.65	+18 57.9	1.017	1.936	14.4	19.8	151 E	64	45
1 16	5 23.28	+19 11.3	1.065	1.956	16.6	20.0	145 E	64	45

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20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	1 43.11	+28 51.7	2.596	2.199	22.6	21.5	56 W	38*	31*
6 30	2 2.29	+30 37.6	2.478	2.170	24.1	21.4	61 W	43*	31*
7 10	2 21.65	+32 16.8	2.356	2.141	25.6	21.3	65 W	49*	31*
7 20	2 41.15	+33 48.2	2.229	2.111	26.9	21.2	70 W	55*	30*
7 30	3 0.63	+35 10.3	2.100	2.081	28.1	21.0	75 W	62*	29*
8 9	3 19.95	+36 21.8	1.968	2.050	29.1	20.9	80 W	68*	28
8 19	3 38.88	+37 21.4	1.835	2.020	30.0	20.7	85 W	74*	27
8 29	3 57.08	+38 7.6	1.701	1.989	30.5	20.6	91 W	80*	26
9 8	4 14.17	+38 38.9	1.568	1.958	30.7	20.4	97 W	84*	25
9 13	4 22.15	+38 48.4	1.501	1.943	30.7	20.2	100 W	84	25
9 18	4 29.64	+38 53.6	1.436	1.927	30.6	20.1	103 W	84	25
9 23	4 36.57	+38 53.9	1.371	1.912	30.3	20.0	106 W	84	25
9 28	4 42.85	+38 49.0	1.307	1.897	29.8	19.9	110 W	84	25
10 3	4 48.40	+38 38.5	1.244	1.881	29.2	19.7	113 W	84	25
10 8	4 53.13	+38 21.9	1.183	1.866	28.4	19.6	117 W	83	26
10 13	4 56.91	+37 58.4	1.124	1.851	27.4	19.4	121 W	83	26
10 18	4 59.66	+37 27.3	1.067	1.837	26.1	19.2	126 W	82	27
10 23	5 1.29	+36 47.5	1.013	1.822	24.6	19.1	130 W	82	27
10 28	5 1.73	+35 57.9	0.961	1.807	22.8	18.9	135 W	81	28
11 2	5 0.94	+34 57.4	0.913	1.793	20.6	18.7	140 W	80	29
11 7	4 58.93	+33 44.8	0.869	1.779	18.1	18.5	146 W	79	30
11 12	4 55.72	+32 19.0	0.830	1.765	15.3	18.3	152 W	77	32
11 17	4 51.44	+30 39.5	0.795	1.752	12.1	18.0	158 W	76	33
11 22	4 46.27	+28 46.3	0.767	1.739	8.6	17.8	165 W	74	35
11 27	4 40.48	+26 40.6	0.744	1.726	4.9	17.6	171 W	72	37
12 2	4 34.37	+24 24.6	0.728	1.714	1.4	17.3	178 W	69	40
12 7	4 28.27	+22 1.6	0.719	1.702	3.6	17.4	174 E	67	42
12 12	4 22.48	+19 35.7	0.716	1.690	7.6	17.6	167 E	65	44

365937 2012 AB_1 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 17	4 17.32	+17 11.6	0.720	1.679	11.6	17.7	160 E	62	47
12 22	4 13.02	+14 53.3	0.730	1.668	15.5	17.9	153 E	60	49
12 27	4 9.77	+12 44.6	0.746	1.658	19.1	18.0	147 E	58	51
1 1	4 7.65	+10 47.7	0.767	1.648	22.3	18.2	140 E	56	53
1 6	4 6.70	+ 9 4.0	0.791	1.639	25.3	18.3	135 E	54	55
1 11	4 6.92	+ 7 33.8	0.819	1.630	27.9	18.5	129 E	53	56
1 16	4 8.29	+ 6 17.1	0.851	1.622	30.1	18.6	124 E	51	58

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20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	2 18.99	+17 13.6	1.810	1.407	34.0	21.4	51 W	24*	37*
6 25	2 34.06	+18 46.8	1.776	1.395	34.8	21.4	52 W	26*	37*
6 30	2 49.52	+20 17.0	1.743	1.383	35.7	21.4	52 W	29*	36*
7 5	3 5.40	+21 43.7	1.711	1.372	36.5	21.3	53 W	31*	35*
7 10	3 21.71	+23 6.1	1.680	1.360	37.2	21.3	54 W	33*	34*
7 15	3 38.48	+24 23.6	1.649	1.349	38.0	21.3	55 W	35*	34*
7 20	3 55.69	+25 35.5	1.620	1.339	38.7	21.2	55 W	37*	33*
7 25	4 13.34	+26 41.2	1.592	1.329	39.4	21.2	56 W	39*	32*
7 30	4 31.40	+27 39.7	1.564	1.319	40.1	21.2	57 W	41*	31*
8 4	4 49.86	+28 30.6	1.538	1.310	40.8	21.1	57 W	43*	30*
8 9	5 8.68	+29 13.1	1.513	1.301	41.4	21.1	58 W	45*	29*
8 14	5 27.80	+29 46.7	1.488	1.293	42.0	21.1	59 W	47*	28*
8 19	5 47.15	+30 10.9	1.465	1.286	42.6	21.0	59 W	48*	27*
8 24	6 6.66	+30 25.3	1.442	1.279	43.1	21.0	60 W	49*	27*
8 29	6 26.25	+30 29.7	1.421	1.273	43.6	21.0	60 W	51*	26*
9 3	6 45.82	+30 23.9	1.400	1.268	44.1	20.9	61 W	52*	26*
9 8	7 5.31	+30 8.2	1.380	1.264	44.5	20.9	62 W	53*	25*
9 13	7 24.62	+29 42.6	1.361	1.260	44.9	20.9	62 W	54*	25*
9 18	7 43.67	+29 7.5	1.342	1.257	45.3	20.9	63 W	54*	25*
9 23	8 2.38	+28 23.4	1.324	1.255	45.7	20.8	64 W	55*	25*
9 28	8 20.70	+27 30.8	1.306	1.254	46.0	20.8	64 W	56*	25*
10 3	8 38.59	+26 30.5	1.289	1.254	46.3	20.8	65 W	56*	25*
10 8	8 56.01	+25 23.0	1.271	1.255	46.6	20.8	66 W	57*	26*
10 13	9 12.94	+24 9.2	1.254	1.256	46.8	20.8	67 W	58*	26*
10 18	9 29.35	+22 49.8	1.237	1.258	47.1	20.7	68 W	58*	27*
10 23	9 45.23	+21 25.6	1.220	1.262	47.2	20.7	69 W	58*	28*
10 28	10 0.58	+19 57.4	1.202	1.266	47.4	20.7	70 W	59*	29*
11 2	10 15.42	+18 25.8	1.185	1.270	47.5	20.7	71 W	59*	30*
11 7	10 29.74	+16 51.4	1.166	1.276	47.6	20.7	72 W	58*	32*
11 12	10 43.57	+15 15.0	1.148	1.282	47.7	20.6	73 W	58*	34*
11 17	10 56.88	+13 37.2	1.129	1.289	47.7	20.6	75 W	57*	35*
11 22	11 9.70	+11 58.5	1.109	1.297	47.7	20.6	76 W	56*	37*
11 27	11 22.03	+10 19.3	1.088	1.305	47.6	20.6	78 W	55*	40*
12 2	11 33.88	+ 8 40.2	1.067	1.314	47.5	20.5	79 W	54*	42*
12 7	11 45.24	+ 7 1.5	1.045	1.323	47.4	20.5	81 W	52	45*
12 17	12 6.46	+ 3 46.9	0.999	1.343	46.9	20.4	85 W	49	51*
12 27	12 25.54	+ 0 38.0	0.951	1.365	46.1	20.3	90 W	46	57*
1 6	12 42.24	− 2 23.4	0.899	1.389	44.9	20.2	95 W	43	63*
1 16	12 56.17	− 5 15.6	0.846	1.413	43.1	20.1	101 W	40	69*

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20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	2 32.83	+17 14.8	1.920	1.444	31.3	21.5	48 W	22*	35*
6 25	2 48.65	+18 39.4	1.889	1.431	32.0	21.4	48 W	24*	35*
6 30	3 4.82	+19 59.9	1.859	1.419	32.8	21.4	49 W	26*	34*
7 5	3 21.34	+21 15.8	1.831	1.407	33.5	21.4	50 W	28*	34*
7 10	3 38.19	+22 26.3	1.804	1.397	34.1	21.3	50 W	30*	33*
7 15	3 55.35	+23 30.9	1.779	1.389	34.7	21.3	51 W	32*	32*
7 20	4 12.79	+24 29.0	1.755	1.381	35.3	21.3	52 W	34*	32*
7 25	4 30.45	+25 20.0	1.732	1.375	35.9	21.3	52 W	36*	31*
7 30	4 48.30	+26 3.5	1.711	1.370	36.4	21.2	53 W	37*	30*
8 4	5 6.27	+26 39.1	1.691	1.367	36.9	21.2	54 W	39*	30*
8 9	5 24.30	+27 6.6	1.673	1.365	37.3	21.2	55 W	41*	29*
8 14	5 42.33	+27 25.9	1.655	1.364	37.7	21.2	55 W	43*	29*
8 19	6 0.26	+27 37.1	1.638	1.365	38.0	21.2	56 W	44*	28*
8 24	6 18.04	+27 40.1	1.621	1.368	38.4	21.2	57 W	46*	28*
8 29	6 35.58	+27 35.4	1.605	1.372	38.7	21.2	58 W	47*	28*
9 3	6 52.83	+27 23.2	1.590	1.377	38.9	21.2	59 W	49*	27*
9 8	7 9.72	+27 4.1	1.575	1.383	39.2	21.1	60 W	50*	27*
9 13	7 26.20	+26 38.5	1.560	1.391	39.4	21.1	61 W	51*	27*
9 18	7 42.22	+26 7.1	1.544	1.400	39.5	21.1	62 W	53*	28*
9 23	7 57.73	+25 30.6	1.529	1.411	39.7	21.1	64 W	54*	28*
9 28	8 12.71	+24 49.6	1.513	1.422	39.8	21.1	65 W	55*	28*
10 3	8 27.13	+24 4.8	1.496	1.435	39.8	21.1	67 W	57*	29*
10 8	8 40.98	+23 17.0	1.479	1.449	39.9	21.1	68 W	58*	30*
10 13	8 54.23	+22 26.7	1.461	1.464	39.9	21.1	70 W	59*	30*
10 18	9 6.88	+21 34.6	1.443	1.479	39.8	21.1	72 W	60*	31*
10 23	9 18.90	+20 41.5	1.423	1.496	39.8	21.1	74 W	61*	33*
10 28	9 30.29	+19 47.9	1.402	1.513	39.6	21.1	76 W	62*	34*
11 2	9 41.04	+18 54.5	1.381	1.531	39.4	21.1	79 W	62*	35*
11 7	9 51.13	+18 1.7	1.358	1.550	39.1	21.1	81 W	62*	37*
11 12	10 0.55	+17 10.1	1.334	1.570	38.8	21.1	84 W	62*	38*
11 17	10 9.27	+16 20.3	1.309	1.590	38.4	21.0	86 W	61	40*

430478 2001 SQ_{115} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 22	10 17.26	+15 32.9	1.284	1.610	37.8	21.0	89 W	61	42*
11 27	10 24.49	+14 48.2	1.257	1.631	37.2	21.0	92 W	60	44*
12 2	10 30.93	+14 6.8	1.230	1.652	36.4	20.9	96 W	59	46*
12 7	10 36.55	+13 29.0	1.203	1.674	35.5	20.9	99 W	58	48*
12 12	10 41.28	+12 55.3	1.175	1.696	34.4	20.8	103 W	58	50*
12 17	10 45.07	+12 26.3	1.147	1.718	33.2	20.8	107 W	57	51*
12 22	10 47.87	+12 2.1	1.120	1.740	31.7	20.7	111 W	57	52*
12 27	10 49.64	+11 43.2	1.094	1.763	30.1	20.6	116 W	57	52
1 1	10 50.33	+11 29.6	1.069	1.785	28.2	20.6	121 W	56	53
1 6	10 49.91	+11 21.6	1.046	1.808	26.1	20.5	126 W	56	53
1 11	10 48.35	+11 19.0	1.025	1.831	23.8	20.4	131 W	56	53
1 16	10 45.66	+11 21.9	1.008	1.854	21.2	20.3	137 W	56	53

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6 20	2 35.15	+ 6 12.3	1.271	1.011	51.4	21.3	51 W	14*	43*
6 25	3 2.47	+ 7 16.8	1.259	0.970	52.3	21.3	49 W	14*	41*
6 30	3 30.35	+ 8 16.7	1.257	0.932	52.9	21.2	47 W	13*	39*
7 5	3 58.55	+ 9 10.8	1.263	0.899	52.9	21.1	45 W	13*	37*
7 10	4 26.81	+ 9 58.3	1.277	0.869	52.4	21.1	43 W	13*	35*
7 15	4 54.88	+10 38.6	1.299	0.845	51.4	21.0	41 W	13*	33*
7 20	5 22.55	+11 11.5	1.328	0.827	49.9	21.0	38 W	12*	31*
7 25	5 49.61	+11 36.9	1.363	0.816	47.9	20.9	37 W	13*	29*
7 30	6 15.93	+11 54.8	1.402	0.811	45.5	20.9	35 W	13*	27*
8 4	6 41.41	+12 5.7	1.445	0.814	43.0	20.9	33 W	13*	25*
8 9	7 5.96	+12 9.7	1.490	0.825	40.3	20.9	32 W	13*	23*
8 14	7 29.54	+12 7.2	1.537	0.842	37.8	21.0	31 W	14*	22*
8 19	7 52.12	+11 58.7	1.584	0.865	35.4	21.0	30 W	14*	20*
8 24	8 13.68	+11 44.8	1.630	0.893	33.3	21.1	29 W	15*	19*
8 29	8 34.22	+11 26.1	1.676	0.927	31.5	21.2	29 W	16*	18*
9 3	8 53.77	+11 3.5	1.721	0.964	30.0	21.3	29 W	16*	17*
9 8	9 12.38	+10 37.5	1.763	1.004	28.8	21.4	29 W	18*	17*

347634 2001 SW_{269}

6 20	3 10.67	+45 25.3	0.607	0.673	105.0	21.4	40 W	33*	8*
6 22	3 4.93	+44 59.5	0.617	0.694	101.5	21.4	42 W	35*	10*
6 24	3 0.27	+44 31.2	0.627	0.715	98.2	21.3	44 W	37*	12*
6 26	2 56.56	+44 1.5	0.637	0.737	95.2	21.3	46 W	38*	13*
6 28	2 53.66	+43 31.2	0.646	0.758	92.4	21.2	48 W	40*	15*
6 30	2 51.46	+43 0.7	0.655	0.780	89.8	21.2	50 W	41*	16*
7 2	2 49.85	+42 30.3	0.663	0.801	87.4	21.2	52 W	43*	17*
7 4	2 48.74	+42 0.4	0.670	0.823	85.2	21.2	54 W	44*	18*
7 6	2 48.03	+41 31.1	0.677	0.844	83.1	21.2	56 W	46*	19*
7 8	2 47.67	+41 2.3	0.683	0.866	81.1	21.2	57 W	47*	20*
7 10	2 47.58	+40 34.1	0.688	0.887	79.3	21.2	59 W	49*	21*
7 15	2 48.21	+39 25.8	0.697	0.939	75.2	21.2	63 W	52*	23*
7 20	2 49.53	+38 19.7	0.700	0.990	71.6	21.2	68 W	56*	25*
7 25	2 51.02	+37 14.2	0.699	1.039	68.3	21.2	72 W	60*	27*
7 30	2 52.30	+36 7.5	0.693	1.086	65.3	21.2	76 W	64*	28*
8 4	2 53.07	+34 57.7	0.684	1.131	62.3	21.2	81 W	67*	29
8 9	2 53.08	+33 43.0	0.671	1.175	59.4	21.1	86 W	71*	30
8 14	2 52.08	+32 21.2	0.655	1.217	56.3	21.0	91 W	74*	32
8 19	2 49.83	+30 50.0	0.637	1.257	53.1	21.0	97 W	75*	33
8 24	2 46.14	+29 6.4	0.617	1.295	49.6	20.9	103 W	74	35
8 29	2 40.85	+27 7.8	0.597	1.332	45.7	20.7	109 W	72	37
9 3	2 33.85	+24 51.6	0.578	1.367	41.4	20.6	116 W	70	39
9 8	2 25.11	+22 15.5	0.560	1.400	36.6	20.5	124 W	67	42
9 13	2 14.68	+19 18.5	0.546	1.431	31.4	20.3	132 W	64	45
9 18	2 2.74	+16 1.5	0.536	1.461	25.6	20.1	141 W	61	48
9 23	1 49.65	+12 28.5	0.533	1.489	19.5	20.0	150 W	57	52
9 28	1 35.91	+ 8 46.7	0.536	1.516	13.3	19.8	160 W	54	55
10 3	1 22.09	+ 5 5.5	0.547	1.541	7.4	19.7	169 W	50	59
10 8	1 8.75	+ 1 34.8	0.567	1.564	3.5	19.6	174 W	47	62
10 13	0 56.38	− 1 37.1	0.595	1.586	6.4	19.9	170 E	43	66
10 18	0 45.35	− 4 24.7	0.630	1.607	11.2	20.2	162 E	41	68
10 23	0 35.92	− 6 45.5	0.672	1.626	15.6	20.5	154 E	38	71
10 28	0 28.19	− 8 39.6	0.720	1.643	19.4	20.8	147 E	36	73
11 2	0 22.15	−10 9.2	0.773	1.659	22.7	21.1	140 E	35	74
11 7	0 17.71	−11 17.1	0.829	1.674	25.4	21.4	134 E	34	75

500922 2013 PE_{26}

6 20	3 32.74	+49 4.8	2.069	1.412	26.2	21.3	38 W	32*	3*
6 25	3 57.60	+49 58.1	2.019	1.366	27.1	21.2	38 W	32*	2*
6 30	4 24.13	+50 34.6	1.970	1.318	28.0	21.1	38 W	32*	1*
7 5	4 52.14	+50 50.8	1.923	1.269	28.9	21.0	37 W	31*	—
7 10	5 21.29	+50 43.2	1.878	1.220	29.6	20.9	36 W	30*	—
7 15	5 51.11	+50 8.8	1.836	1.169	30.3	20.8	35 W	29*	—
7 20	6 21.05	+49 5.2	1.797	1.117	30.9	20.6	34 W	28*	—
7 25	6 50.54	+47 31.1	1.761	1.064	31.3	20.5	33 W	26*	—
7 30	7 19.10	+45 25.9	1.727	1.011	31.6	20.4	31 W	25*	—
8 4	7 46.37	+42 49.9	1.697	0.958	31.6	20.2	30 W	23*	—
8 9	8 12.16	+39 44.2	1.671	0.905	31.3	20.0	28 W	21*	—

500922 2013 PE_{26} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 14	8 36.43	+36 10.0	1.648	0.852	30.7	19.9	25 W	19*	—
8 19	8 59.25	+32 9.0	1.628	0.801	29.6	19.7	23 W	17*	—
8 24	9 20.80	+27 43.0	1.611	0.753	28.1	19.5	21 W	14*	—
8 29	9 41.33	+22 53.8	1.597	0.708	26.1	19.3	18 W	12*	—
9 3	10 1.16	+17 43.6	1.585	0.669	23.6	19.0	15 W	9*	—
9 8	10 20.63	+12 15.5	1.576	0.637	21.0	18.8	13 W	7*	1*
9 13	10 40.13	+ 6 33.6	1.568	0.615	18.9	18.7	11 W	4*	3*
9 18	11 0.05	+ 0 43.3	1.562	0.604	18.0	18.6	11 W	1*	4*
9 23	11 20.76	− 5 8.4	1.558	0.605	18.7	18.6	11 W	—	5*
9 28	11 42.59	−10 53.6	1.557	0.619	20.7	18.7	13 W	—	6*
10 3	12 5.79	−16 24.1	1.560	0.643	23.0	18.9	15 W	—	6*
10 8	12 30.53	−21 32.4	1.569	0.677	25.2	19.1	17 W	—	6*
10 13	12 56.86	−26 12.1	1.585	0.718	26.7	19.3	19 W	—	6*
10 18	13 24.71	−30 17.8	1.608	0.763	27.6	19.5	21 W	—	5*
10 23	13 53.85	−33 46.0	1.639	0.813	27.8	19.7	22 E	—	5*
10 28	14 23.91	−36 34.9	1.676	0.864	27.5	19.8	24 E	—	8*
11 2	14 54.39	−38 44.7	1.720	0.917	26.8	20.0	25 E	—	10*
11 7	15 24.75	−40 17.1	1.770	0.970	25.8	20.2	25 E	—	12*
11 12	15 54.45	−41 15.5	1.824	1.023	24.6	20.3	25 E	—	13*
11 17	16 23.02	−41 44.2	1.882	1.076	23.2	20.4	25 E	—	14*
11 22	16 50.11	−41 47.8	1.943	1.129	21.8	20.6	25 E	—	15*
11 27	17 15.53	−41 31.0	2.006	1.180	20.2	20.7	24 E	—	15*
12 2	17 39.20	−40 57.9	2.070	1.231	18.7	20.8	24 E	—	15*
12 7	18 1.13	−40 12.2	2.134	1.280	17.1	20.9	22 E	—	15*
12 12	18 21.43	−39 17.1	2.198	1.329	15.5	21.0	21 E	—	14*
12 17	18 40.21	−38 14.9	2.261	1.376	14.0	21.1	20 E	—	13*
12 22	18 57.61	−37 7.6	2.323	1.423	12.5	21.1	18 E	—	11*
12 27	19 13.76	−35 56.8	2.382	1.468	11.1	21.2	17 E	—	10*
1 1	19 28.79	−34 43.5	2.440	1.511	9.7	21.3	15 E	—	8*
1 6	19 42.83	−33 28.6	2.494	1.554	8.4	21.3	13 E	—	6*
1 11	19 56.00	−32 12.9	2.545	1.596	7.3	21.4	12 E	—	4*
1 16	20 8.38	−30 56.6	2.593	1.636	6.4	21.4	11 E	—	2*

253106 2002 UR_3

6 20	3 35.42	+ 6 16.0	2.869	2.156	16.7	21.5	38 W	3*	32*
6 30	3 49.61	+ 7 38.8	2.729	2.102	19.2	21.4	43 W	9*	36*
7 10	4 4.12	+ 8 59.2	2.573	2.042	21.8	21.3	48 W	16*	40*
7 20	4 19.04	+10 18.2	2.404	1.977	24.4	21.1	54 W	23*	42*
7 30	4 34.48	+11 37.1	2.222	1.906	27.1	21.0	59 W	30*	44*
8 9	4 50.61	+12 58.3	2.029	1.830	29.9	20.7	64 W	37*	45*
8 19	5 7.74	+14 24.5	1.827	1.747	32.8	20.5	69 W	44*	46*
8 29	5 26.33	+16 0.2	1.618	1.657	35.9	20.2	74 W	50*	45*
9 3	5 36.43	+16 53.5	1.512	1.609	37.5	20.0	76 W	53*	45*
9 8	5 47.27	+17 51.9	1.406	1.559	39.3	19.9	79 W	56*	44*
9 13	5 59.07	+18 56.6	1.298	1.508	41.2	19.7	81 W	59*	43*
9 18	6 12.14	+20 9.5	1.192	1.454	43.2	19.5	82 W	61*	42*
9 23	6 26.93	+21 32.3	1.086	1.398	45.5	19.2	84 W	63*	41*
9 28	6 44.09	+23 7.2	0.982	1.339	48.2	19.0	85 W	66*	39*
10 3	7 4.58	+24 56.3	0.881	1.278	51.3	18.8	85 W	68*	37*
10 8	7 29.83	+27 0.3	0.784	1.214	55.0	18.5	85 W	70*	34*
10 10	7 41.71	+27 53.5	0.748	1.188	56.8	18.4	84 W	70*	33*
10 12	7 54.83	+28 48.1	0.712	1.161	58.7	18.3	84 W	71*	31*
10 14	8 9.39	+29 43.2	0.679	1.134	60.8	18.2	83 W	71*	30*
10 16	8 25.56	+30 37.4	0.647	1.106	63.1	18.1	82 W	71*	28*
10 18	8 43.55	+31 28.8	0.617	1.078	65.6	18.0	80 W	71*	26*
10 20	9 3.51	+32 14.5	0.590	1.049	68.3	18.0	78 W	70*	24*
10 22	9 25.54	+32 51.2	0.566	1.020	71.3	17.9	76 W	69*	21*
10 24	9 49.62	+33 14.7	0.545	0.990	74.6	17.9	74 W	67*	19*
10 26	10 15.58	+33 20.3	0.528	0.959	78.0	17.8	71 W	65*	16*
10 28	10 43.01	+33 3.8	0.516	0.928	81.6	17.9	68 W	62*	13*
10 29	10 57.11	+32 46.1	0.511	0.912	83.4	17.9	66 W	60*	12*
10 30	11 11.34	+32 21.9	0.508	0.896	85.2	17.9	64 W	58*	10*
10 31	11 25.61	+31 50.9	0.506	0.880	87.1	17.9	62 W	56*	9*
11 1	11 39.83	+31 13.3	0.505	0.864	88.9	17.9	61 W	54*	7*
11 2	11 53.89	+30 29.3	0.506	0.848	90.7	18.0	59 W	52*	6*
11 3	12 7.71	+29 39.2	0.508	0.831	92.4	18.0	57 W	50*	4*
11 4	12 21.22	+28 43.5	0.511	0.814	94.1	18.0	55 W	48*	3*
11 5	12 34.33	+27 42.9	0.516	0.797	95.6	18.1	53 W	46*	1*
11 6	12 47.00	+26 38.0	0.522	0.780	97.1	18.1	51 W	44*	—
11 7	12 59.18	+25 29.4	0.529	0.763	98.5	18.2	50 W	42*	—
11 8	13 10.85	+24 17.8	0.538	0.746	99.8	18.2	48 W	40*	—
11 9	13 22.00	+23 4.0	0.548	0.728	100.9	18.3	46 W	39*	—
11 10	13 32.61	+21 48.4	0.559	0.710	101.9	18.3	45 W	37*	—
11 11	13 42.69	+20 31.7	0.571	0.692	102.8	18.4	43 W	35*	—
11 12	13 52.25	+19 14.2	0.584	0.674	103.5	18.4	41 W	34*	—
11 13	14 1.30	+17 56.5	0.599	0.656	104.0	18.4	40 W	32*	—
11 14	14 9.88	+16 38.7	0.614	0.638	104.4	18.4	39 W	31*	—
11 15	14 18.00	+15 21.1	0.630	0.619	104.7	18.4	37 W	29*	—
11 16	14 25.69	+14 3.8	0.648	0.600	104.7	18.4	36 W	28*	—
11 17	14 32.98	+12 47.0	0.666	0.582	104.6	18.4	35 W	27*	—

253106 2002 UR_3 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 19	14 46.46	+10 14.6	0.706	0.544	103.8	18.3	32 W	24*	—
11 21	14 58.66	+ 7 43.4	0.748	0.506	102.2	18.2	30 W	22*	—
11 23	15 9.81	+ 5 12.4	0.794	0.468	99.7	18.1	28 W	20*	—
11 25	15 20.12	+ 2 39.9	0.844	0.430	96.1	17.8	26 W	18*	—
11 27	15 29.85	+ 0 3.9	0.896	0.394	91.3	17.6	24 W	17*	—
11 29	15 39.21	− 2 38.1	0.950	0.360	85.0	17.3	21 W	15*	—
12 1	15 48.49	− 5 28.1	1.006	0.330	76.9	16.9	19 W	13*	—
12 3	15 57.98	− 8 27.9	1.063	0.306	67.1	16.5	17 W	11*	—
12 5	16 7.95	−11 37.0	1.119	0.291	55.7	16.2	14 W	8*	—
12 7	16 18.64	−14 52.6	1.172	0.286	43.7	15.9	12 W	5*	—
12 8	16 24.29	−16 31.1	1.196	0.288	37.9	15.8	10 W	4*	—
12 9	16 30.15	−18 8.9	1.219	0.292	32.4	15.7	9 W	3*	—
12 10	16 36.20	−19 45.3	1.240	0.299	27.6	15.7	8 W	1*	—
12 11	16 42.44	−21 19.3	1.260	0.309	23.5	15.7	7 W	—	—
12 12	16 48.85	−22 50.5	1.279	0.320	20.3	15.7	6 W	—	—
12 13	16 55.41	−24 18.4	1.296	0.334	18.2	15.7	6 W	—	—
12 14	17 2.09	−25 42.6	1.312	0.348	17.1	15.8	6 W	—	—
12 15	17 8.90	−27 3.0	1.327	0.364	16.8	15.9	6 W	—	—
12 16	17 15.80	−28 19.5	1.342	0.381	17.2	16.1	7 W	—	—
12 17	17 22.80	−29 32.0	1.355	0.399	18.0	16.2	7 W	—	—
12 19	17 37.02	−31 45.2	1.381	0.435	20.0	16.5	9 W	—	—
12 21	17 51.47	−33 43.2	1.406	0.473	22.0	16.8	10 W	—	—
12 23	18 6.09	−35 26.7	1.430	0.511	23.6	17.0	12 E	—	—
12 25	18 20.81	−36 56.6	1.453	0.549	25.0	17.3	14 E	—	2*
12 27	18 35.57	−38 13.7	1.477	0.586	25.9	17.5	15 E	—	4*
12 29	18 50.29	−39 19.0	1.500	0.624	26.6	17.7	17 E	—	6*
12 31	19 4.91	−40 13.2	1.524	0.661	27.1	17.8	18 E	—	7*
1 2	19 19.38	−40 57.1	1.548	0.697	27.4	18.0	19 E	—	8*
1 4	19 33.62	−41 31.7	1.573	0.733	27.5	18.1	20 E	—	10*
1 6	19 47.60	−41 57.6	1.598	0.767	27.5	18.3	21 E	—	11*
1 8	20 1.27	−42 15.7	1.623	0.802	27.4	18.4	22 E	—	12*
1 10	20 14.58	−42 26.7	1.648	0.835	27.3	18.5	23 E	—	13*
1 12	20 27.51	−42 31.2	1.674	0.868	27.0	18.6	24 E	—	14*
1 14	20 40.03	−42 30.1	1.700	0.901	26.8	18.7	24 E	—	14*
1 16	20 52.13	−42 23.9	1.727	0.932	26.4	18.8	25 E	—	15*

377204 2003 WM_{141}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	3 39.97	+ 8 35.2	3.071	2.320	14.8	21.5	36 W	4*	29*
6 30	3 57.74	+ 9 57.6	2.959	2.278	16.7	21.4	40 W	10*	33*
7 10	4 15.84	+11 14.5	2.840	2.235	18.7	21.4	45 W	16*	36*
7 20	4 34.29	+12 26.1	2.713	2.192	20.6	21.3	49 W	22*	38*
7 30	4 53.06	+13 32.3	2.580	2.147	22.5	21.2	54 W	28*	40*
8 9	5 12.14	+14 33.6	2.442	2.102	24.3	21.1	59 W	35*	41*
8 19	5 31.52	+15 30.6	2.300	2.056	26.1	21.0	63 W	41*	42*
8 29	5 51.18	+16 24.0	2.154	2.010	27.8	20.8	68 W	47*	42*
9 8	6 11.12	+17 15.2	2.007	1.964	29.4	20.7	73 W	52*	43*
9 18	6 31.33	+18 5.9	1.858	1.917	30.8	20.5	78 W	57*	43*
9 28	6 51.79	+18 58.4	1.711	1.871	32.1	20.3	83 W	61*	42*
10 8	7 12.53	+19 55.8	1.565	1.825	33.2	20.1	88 W	64*	42*
10 18	7 33.57	+21 2.1	1.423	1.779	34.0	19.8	93 W	66	42*
10 28	7 54.93	+22 22.2	1.285	1.735	34.5	19.6	98 W	67	41*
11 7	8 16.70	+24 2.4	1.155	1.691	34.7	19.3	104 W	69	39*
11 17	8 38.96	+26 9.9	1.033	1.649	34.5	19.0	109 W	71	38*
11 27	9 1.81	+28 52.5	0.922	1.609	33.8	18.7	115 W	74	35*
12 7	9 25.39	+32 16.8	0.825	1.571	32.8	18.3	120 W	77	32
12 12	9 37.48	+34 16.0	0.781	1.553	32.2	18.2	123 W	79	30
12 17	9 49.76	+36 26.5	0.742	1.536	31.6	18.0	125 W	81	28
12 22	10 2.23	+38 47.5	0.707	1.520	31.0	17.9	127 W	84	25
12 27	10 14.88	+41 17.5	0.677	1.504	30.6	17.8	129 W	86	23
1 1	10 27.67	+43 54.1	0.651	1.490	30.2	17.6	130 W	89	20
1 6	10 40.52	+46 34.7	0.630	1.476	30.1	17.5	131 W	88	17
1 11	10 53.31	+49 15.8	0.613	1.464	30.2	17.5	132 W	86	15
1 16	11 5.86	+51 53.5	0.600	1.452	30.5	17.4	131 W	83	12

301965 2000 EN_{172}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	3 49.83	+15 13.5	3.221	2.402	12.4	21.5	31 W	7*	23*
6 30	4 7.19	+16 56.0	3.112	2.360	14.5	21.4	36 W	13*	27*
7 10	4 25.00	+18 35.5	2.994	2.317	16.6	21.4	40 W	19*	29*
7 20	4 43.30	+20 12.2	2.869	2.275	18.6	21.3	45 W	26*	31*
7 30	5 2.08	+21 46.5	2.736	2.232	20.5	21.2	50 W	32*	32*
8 9	5 21.36	+23 19.1	2.599	2.189	22.4	21.2	55 W	39*	33*
8 19	5 41.16	+24 50.7	2.456	2.147	24.2	21.0	60 W	46*	33*
8 29	6 1.47	+26 22.4	2.311	2.105	25.9	20.9	66 W	52*	32*
9 8	6 22.34	+27 55.7	2.165	2.063	27.4	20.8	71 W	59*	32*
9 18	6 43.80	+29 32.2	2.019	2.022	28.8	20.6	76 W	65*	31*
9 28	7 5.85	+31 14.3	1.874	1.982	30.0	20.4	81 W	70*	30*
10 8	7 28.56	+33 4.3	1.734	1.943	30.9	20.3	86 W	75*	28*
10 18	7 51.98	+35 5.1	1.599	1.905	31.5	20.1	91 W	80*	27*
10 28	8 16.14	+37 19.7	1.471	1.869	31.9	19.8	97 W	82	25*
11 7	8 41.12	+39 50.6	1.353	1.834	31.9	19.6	102 W	85	23*

301965 2000 EN_{172} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 12	8 53.92	+41 12.8	1.298	1.818	31.8	19.5	104 W	86	22*
11 17	9 6.92	+42 39.7	1.247	1.802	31.7	19.4	107 W	88	21*
11 22	9 20.10	+44 11.3	1.198	1.786	31.5	19.3	109 W	89	19*
11 27	9 33.46	+45 47.2	1.153	1.771	31.2	19.2	112 W	89	18*
12 2	9 46.97	+47 27.1	1.112	1.757	30.9	19.1	114 W	88	16*
12 7	10 0.60	+49 10.5	1.074	1.744	30.6	19.0	116 W	86	15*
12 12	10 14.26	+50 56.6	1.040	1.731	30.3	18.9	117 W	84	13*
12 17	10 27.87	+52 44.4	1.011	1.719	30.0	18.8	119 W	82	11*
12 22	10 41.30	+54 32.7	0.984	1.708	29.8	18.7	120 W	80	9
12 27	10 54.42	+56 20.2	0.962	1.698	29.6	18.7	121 W	79	8
1 1	11 7.06	+58 5.7	0.943	1.688	29.5	18.6	122 W	77	6
1 6	11 18.99	+59 47.8	0.928	1.679	29.4	18.5	123 W	75	4
1 11	11 29.92	+61 25.3	0.916	1.672	29.5	18.5	123 W	74	3
1 16	11 39.54	+62 56.9	0.907	1.665	29.6	18.5	123 W	72	1

141498 2002 EZ_{16}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	4 10.53	+34 14.5	0.879	0.435	95.4	19.7	25 W	17*	8*
6 22	4 14.03	+34 54.9	0.927	0.452	87.9	19.6	26 W	18*	8*
6 24	4 18.68	+35 24.9	0.974	0.471	81.3	19.6	27 W	19*	8*
6 26	4 24.19	+35 46.4	1.020	0.492	75.6	19.5	28 W	20*	9*
6 28	4 30.33	+36 0.7	1.065	0.514	70.6	19.6	28 W	20*	9*
6 30	4 36.91	+36 9.1	1.107	0.537	66.2	19.6	29 W	21*	9*
7 2	4 43.79	+36 12.4	1.147	0.561	62.3	19.7	29 W	21*	9*
7 4	4 50.85	+36 11.5	1.186	0.585	59.0	19.7	30 W	22*	9*
7 6	4 58.00	+36 7.0	1.222	0.610	56.1	19.8	30 W	22*	9*
7 8	5 5.17	+35 59.5	1.256	0.634	53.6	19.9	30 W	22*	9*
7 10	5 12.33	+35 49.2	1.288	0.659	51.3	19.9	30 W	22*	10*
7 15	5 29.92	+35 14.3	1.361	0.720	46.9	20.1	31 W	23*	10*
7 20	5 46.85	+34 28.9	1.424	0.778	43.8	20.3	32 W	24*	11*
7 25	6 2.99	+33 35.8	1.476	0.835	41.5	20.5	33 W	25*	12*
7 30	6 18.31	+32 36.9	1.520	0.889	40.0	20.6	34 W	26*	13*
8 4	6 32.86	+31 33.3	1.556	0.940	38.9	20.8	36 W	27*	14*
8 9	6 46.66	+30 25.9	1.585	0.988	38.2	20.9	37 W	29*	15*
8 14	6 59.79	+29 15.3	1.606	1.034	37.8	21.0	39 W	30*	16*
8 19	7 12.29	+28 1.9	1.621	1.077	37.7	21.1	41 W	32*	18*
8 24	7 24.20	+26 46.0	1.630	1.117	37.7	21.2	42 W	33*	19*
8 29	7 35.56	+25 27.6	1.633	1.154	37.8	21.3	44 W	35*	21*
9 3	7 46.42	+24 6.9	1.630	1.189	38.0	21.4	47 W	37*	22*
9 8	7 56.83	+22 43.9	1.622	1.222	38.3	21.4	49 W	39*	24*
9 13	8 6.79	+21 18.5	1.609	1.252	38.7	21.5	51 W	41*	25*

418265 2008 EA_{32}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	4 26.26	+13 14.0	0.752	0.442	114.1	18.4	23 W	—	17*
6 22	4 29.70	+11 57.8	0.790	0.449	106.9	18.1	25 W	—	19*
6 24	4 34.03	+10 59.2	0.830	0.458	100.1	17.9	26 W	—	20*
6 26	4 39.09	+10 16.1	0.870	0.469	94.0	17.8	27 W	—	21*
6 28	4 44.74	+ 9 46.1	0.910	0.480	88.4	17.7	28 W	—	22*
6 30	4 50.86	+ 9 26.9	0.949	0.492	83.3	17.7	29 W	—	23*
7 2	4 57.34	+ 9 16.7	0.987	0.505	78.6	17.6	29 W	—	23*
7 4	5 4.11	+ 9 13.8	1.025	0.519	74.4	17.6	29 W	1*	23*
7 6	5 11.11	+ 9 16.7	1.061	0.532	70.6	17.6	30 W	1*	24*
7 8	5 18.27	+ 9 24.3	1.096	0.546	67.1	17.7	30 W	2*	24*
7 10	5 25.56	+ 9 35.5	1.129	0.560	64.0	17.7	30 W	2*	24*
7 15	5 44.16	+10 14.3	1.205	0.595	57.3	17.8	30 W	4*	23*
7 20	6 3.07	+11 1.6	1.273	0.629	52.1	17.8	29 W	5*	23*
7 25	6 22.13	+11 51.6	1.331	0.660	48.0	17.9	29 W	7*	22*
7 30	6 41.27	+12 40.6	1.380	0.689	44.8	18.0	29 W	9*	21*
8 4	7 0.51	+13 26.5	1.422	0.715	42.3	18.1	28 W	10*	20*
8 9	7 19.86	+14 7.5	1.457	0.738	40.3	18.1	28 W	12*	19*
8 19	7 59.07	+15 11.4	1.506	0.774	37.7	18.3	28 W	15*	17*
8 29	8 39.24	+15 45.9	1.533	0.796	36.4	18.3	28 W	18*	15*
9 8	9 20.77	+15 46.1	1.542	0.804	35.8	18.3	28 W	20*	12*
9 18	10 4.05	+15 6.2	1.537	0.798	35.8	18.3	28 W	21*	10*
9 28	10 49.39	+13 39.7	1.522	0.778	35.9	18.2	27 W	21*	7*
10 3	11 12.91	+12 36.7	1.513	0.763	35.9	18.2	27 W	20*	5*
10 8	11 37.06	+11 19.1	1.502	0.744	35.9	18.1	26 W	20*	4*
10 13	12 1.85	+ 9 45.9	1.492	0.723	35.6	18.0	25 W	19*	2*
10 18	12 27.30	+ 7 56.2	1.482	0.697	35.2	17.9	24 W	18*	1*
10 28	13 20.35	+ 3 24.4	1.465	0.639	33.2	17.6	21 W	14*	—
11 7	14 16.63	− 2 19.3	1.453	0.571	28.7	17.3	16 W	10*	—
11 17	15 16.99	− 9 10.6	1.443	0.502	20.5	16.7	10 W	3*	—
11 22	15 49.11	−12 55.8	1.435	0.472	15.2	16.4	7 W	—	—
11 27	16 22.75	−16 47.2	1.422	0.447	11.2	16.1	5 E	—	—
12 2	16 58.05	−20 35.8	1.401	0.432	13.6	16.1	6 E	—	—
12 7	17 34.97	−24 9.5	1.370	0.428	21.8	16.3	9 E	—	3*
12 9	17 50.16	−25 27.7	1.355	0.430	25.6	16.4	11 E	—	5*
12 11	18 5.56	−26 40.4	1.339	0.434	29.6	16.5	13 E	—	6*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
418265 2008 EA_{32} *(continuation)*									
	h m	° ′			°	m	°	°	°
12 13	18 21.14	−27 46.8	1.321	0.440	33.4	16.6	14 E	—	8*
12 15	18 36.87	−28 46.2	1.303	0.447	37.2	16.7	16 E	—	10*
12 17	18 52.71	−29 37.8	1.283	0.456	40.7	16.8	18 E	—	11*
12 19	19 8.64	−30 21.3	1.263	0.466	44.1	16.9	19 E	—	13*
12 21	19 24.60	−30 56.2	1.243	0.477	47.2	17.0	21 E	—	15*
12 23	19 40.55	−31 22.2	1.223	0.489	50.1	17.1	22 E	1*	16*
12 25	19 56.45	−31 39.1	1.202	0.502	52.8	17.2	24 E	1*	18*
12 27	20 12.25	−31 46.9	1.182	0.515	55.2	17.3	25 E	2*	19*
12 29	20 27.89	−31 45.6	1.162	0.529	57.3	17.4	27 E	3*	21*
12 31	20 43.35	−31 35.2	1.143	0.542	59.3	17.5	28 E	4*	22*
1 2	20 58.56	−31 16.1	1.124	0.557	61.0	17.6	30 E	4*	23*
1 4	21 13.50	−30 48.3	1.106	0.571	62.5	17.6	31 E	5*	25*
1 6	21 28.12	−30 12.3	1.089	0.584	63.9	17.7	32 E	6*	26*
1 8	21 42.40	−29 28.3	1.073	0.598	65.0	17.7	33 E	7*	27*
1 10	21 56.31	−28 36.9	1.057	0.612	66.1	17.8	35 E	9*	28*
1 12	22 9.84	−27 38.5	1.043	0.625	66.9	17.8	36 E	10*	29*
1 14	22 22.96	−26 33.5	1.029	0.638	67.7	17.9	37 E	11*	30*
1 16	22 35.68	−25 22.4	1.016	0.651	68.3	17.9	38 E	12*	30*
189173 2002 XY_4									
6 20	5 51.74	+24 10.4	2.335	1.319	0.8	21.5	1 W	—	—
6 30	6 22.21	+21 31.8	2.244	1.231	3.1	21.4	4 W	—	—
7 10	6 53.95	+18 16.3	2.147	1.144	6.1	21.3	7 W	—	1*
7 20	7 27.30	+14 19.4	2.046	1.059	9.3	21.2	10 W	—	3*
7 30	8 2.69	+ 9 38.1	1.946	0.978	12.8	21.0	12 W	—	6*
8 9	8 40.76	+ 4 13.0	1.851	0.906	16.3	20.9	15 W	—	7*
8 19	9 22.35	− 1 48.0	1.767	0.847	19.9	20.8	17 W	—	7*
8 29	10 8.30	− 8 6.1	1.702	0.808	23.1	20.7	18 W	—	7*
9 8	10 59.08	−14 9.1	1.662	0.793	25.7	20.7	20 W	—	4*
9 18	11 54.17	−19 17.8	1.652	0.805	27.1	20.7	21 E	—	6*
9 28	12 51.63	−22 59.7	1.674	0.841	27.1	20.9	22 E	—	10*
10 8	13 48.52	−25 2.6	1.726	0.897	25.9	21.0	23 E	—	14*
10 18	14 42.11	−25 36.1	1.802	0.968	23.8	21.2	23 E	—	16*
10 28	15 30.79	−25 1.6	1.894	1.047	21.3	21.4	22 E	—	16*
382395 1990 SM									
6 20	6 9.63	+17 42.0	3.643	2.636	2.6	21.4	7 E	—	—
6 30	6 24.99	+17 47.0	3.575	2.566	2.4	21.3	6 W	—	—
7 10	6 40.93	+17 44.8	3.490	2.494	4.0	21.3	10 W	—	4*
7 20	6 57.47	+17 35.3	3.387	2.418	6.1	21.2	15 W	1*	8*
7 30	7 14.60	+17 17.7	3.269	2.339	8.5	21.2	20 W	6*	12*
8 9	7 32.36	+16 51.8	3.135	2.257	10.9	21.1	25 W	12*	15*
8 19	7 50.82	+16 16.8	2.988	2.171	13.5	21.0	30 W	17*	18*
8 29	8 10.05	+15 32.3	2.829	2.081	16.1	20.9	35 W	23*	21*
9 8	8 30.18	+14 37.2	2.659	1.987	18.8	20.8	39 W	28*	23*
9 18	8 51.44	+13 30.5	2.481	1.889	21.6	20.6	44 W	32*	25*
9 28	9 14.07	+12 10.8	2.296	1.787	24.6	20.4	48 W	36*	27*
10 8	9 38.50	+10 36.1	2.108	1.680	27.8	20.2	52 W	39*	29*
10 18	10 5.30	+ 8 43.4	1.919	1.568	31.2	19.9	55 W	42*	30*
10 23	10 19.82	+ 7 39.2	1.826	1.510	33.0	19.8	56 W	42*	31*
10 28	10 35.26	+ 6 29.1	1.734	1.451	35.0	19.6	57 W	43*	32*
11 2	10 51.76	+ 5 12.3	1.644	1.390	37.0	19.5	57 W	43*	32*
11 7	11 9.52	+ 3 48.1	1.557	1.328	39.2	19.3	58 W	42*	33*
11 12	11 28.73	+ 2 15.8	1.474	1.264	41.5	19.2	58 W	42*	33*
11 17	11 49.62	+ 0 34.9	1.395	1.199	44.0	19.0	57 W	41*	33*
11 27	12 37.39	− 3 13.5	1.259	1.065	49.4	18.7	55 W	38*	33*
12 7	13 34.61	− 7 31.4	1.160	0.927	55.0	18.4	50 W	33*	31*
12 17	14 41.88	−11 54.8	1.112	0.787	59.5	18.0	44 W	27*	27*
12 22	15 18.78	−13 55.3	1.112	0.719	60.6	17.9	40 W	24*	25*
12 27	15 57.26	−15 40.4	1.128	0.653	60.2	17.7	35 W	20*	22*
1 1	16 36.77	−17 5.7	1.161	0.594	57.8	17.5	31 W	17*	19*
1 6	17 16.77	−18 8.4	1.209	0.545	53.1	17.2	26 W	14*	15*
1 11	17 56.77	−18 47.1	1.268	0.511	45.9	17.0	22 W	10*	12*
1 16	18 36.21	−19 1.4	1.335	0.497	36.9	16.8	18 W	7*	9*
120352 Gordonwong									
6 20	6 11.17	+22 12.8	3.744	2.731	1.5	21.4	4 E	—	—
6 30	6 28.29	+22 13.2	3.766	2.750	0.8	21.4	2 W	—	—
7 10	6 45.21	+22 6.6	3.773	2.768	2.8	21.6	8 W	—	1*
7 20	7 1.87	+21 53.5	3.765	2.785	4.8	21.7	13 W	3*	5*
7 30	7 18.19	+21 34.3	3.742	2.801	6.7	21.8	19 W	9*	9*
441641 2008 WZ_{13}									
6 20	6 25.32	+26 48.5	2.298	1.298	6.0	21.4	8 E	1*	—
6 25	6 43.19	+26 41.7	2.259	1.257	5.7	21.3	7 E	—	—
6 30	7 1.65	+26 26.1	2.221	1.216	5.5	21.2	7 E	—	—
7 5	7 20.69	+26 0.9	2.182	1.176	5.4	21.1	6 E	—	—
7 10	7 40.28	+25 25.2	2.143	1.138	5.4	21.0	6 E	—	—
7 15	8 0.37	+24 38.2	2.106	1.100	5.6	20.9	6 E	—	—

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
441641 2008 WZ_{13} *(continuation)*									
	h m	° ′			°	m	°	°	°
7 20	8 20.92	+23 39.2	2.069	1.064	5.8	20.8	6 E	—	—
7 25	8 41.86	+22 27.7	2.033	1.029	6.1	20.7	6 E	—	—
7 30	9 3.13	+21 3.2	1.999	0.997	6.6	20.6	7 E	—	—
8 4	9 24.66	+19 25.7	1.967	0.968	7.2	20.5	7 E	—	—
8 9	9 46.38	+17 35.3	1.938	0.942	8.0	20.5	7 E	—	—
8 14	10 8.24	+15 32.5	1.912	0.920	8.9	20.4	8 E	—	1*
8 19	10 30.18	+13 18.2	1.888	0.902	10.0	20.4	9 E	—	2*
8 24	10 52.15	+10 53.6	1.868	0.889	11.2	20.4	10 E	1*	3*
8 29	11 14.10	+ 8 20.3	1.852	0.881	12.4	20.4	11 E	1*	4*
9 3	11 36.01	+ 5 40.2	1.840	0.878	13.7	20.4	12 E	1*	5*
9 8	11 57.86	+ 2 55.6	1.832	0.880	15.0	20.5	13 E	1*	7*
9 13	12 19.64	+ 0 8.6	1.828	0.888	16.2	20.5	14 E	1*	8*
9 18	12 41.34	− 2 38.3	1.830	0.901	17.2	20.6	15 E	1*	9*
9 23	13 2.97	− 5 22.7	1.836	0.919	18.0	20.7	16 E	1*	10*
9 28	13 24.51	− 8 2.4	1.847	0.940	18.7	20.8	18 E	1*	11*
10 3	13 45.95	−10 35.3	1.862	0.966	19.1	20.8	18 E	1*	12*
10 8	14 7.30	−12 59.8	1.883	0.995	19.3	20.9	19 E	1*	13*
10 13	14 28.53	−15 14.4	1.908	1.027	19.3	21.0	20 E	1*	14*
10 18	14 49.63	−17 18.2	1.937	1.061	19.1	21.1	20 E	2*	14*
10 23	15 10.54	−19 10.2	1.970	1.097	18.7	21.2	21 E	2*	15*
10 28	15 31.25	−20 50.1	2.006	1.135	18.2	21.3	21 E	2*	15*
11 2	15 51.69	−22 17.6	2.046	1.174	17.6	21.4	21 E	2*	15*
155785 2000 SS_{351}									
6 20	6 32.45	+22 47.6	3.658	2.658	3.3	21.5	9 E	—	2*
6 30	6 50.16	+22 47.8	3.706	2.691	1.2	21.4	3 E	—	—
7 10	7 7.57	+22 40.7	3.739	2.724	0.9	21.4	2 W	—	—
7 20	7 24.62	+22 27.1	3.758	2.755	2.9	21.6	8 W	—	—
7 30	7 41.25	+22 7.6	3.762	2.786	5.0	21.7	14 W	5*	4*
228283 2000 AO_{60}									
6 20	6 32.48	+24 7.9	2.975	1.976	4.4	21.4	9 E	—	1*
6 30	6 56.76	+23 29.2	2.943	1.932	2.4	21.2	5 E	—	—
7 10	7 21.50	+22 35.1	2.904	1.888	0.5	21.0	1 E	—	—
7 20	7 46.65	+21 24.9	2.858	1.844	1.5	21.0	3 W	—	—
7 30	8 12.11	+19 58.2	2.807	1.801	3.5	21.1	6 W	—	—
8 9	8 37.82	+18 14.7	2.751	1.759	5.4	21.1	9 W	2*	1*
8 19	9 3.74	+16 14.7	2.691	1.718	7.4	21.1	13 W	5*	3*
8 29	9 29.85	+13 58.6	2.629	1.678	9.3	21.0	16 W	8*	5*
9 8	9 56.13	+11 27.3	2.566	1.641	11.1	21.0	18 W	10*	7*
9 18	10 22.62	+ 8 42.0	2.502	1.605	13.0	21.0	21 W	13*	9*
9 28	10 49.36	+ 5 44.4	2.439	1.573	14.8	20.9	24 W	15*	10*
10 8	11 16.39	+ 2 36.8	2.378	1.543	16.5	20.9	26 W	17*	12*
10 18	11 43.82	− 0 38.4	2.319	1.517	18.2	20.9	28 W	19*	14*
10 28	12 11.71	− 3 57.8	2.262	1.495	19.8	20.8	31 W	20*	16*
11 7	12 40.15	− 7 17.9	2.210	1.477	21.3	20.8	33 W	21*	18*
11 17	13 9.23	−10 34.7	2.160	1.464	22.8	20.8	35 W	22*	21*
11 27	13 38.97	−13 43.8	2.115	1.455	24.1	20.8	37 W	22*	24*
12 7	14 9.40	−16 40.8	2.073	1.452	25.5	20.8	39 W	21*	27*
12 17	14 40.47	−19 21.7	2.033	1.453	26.7	20.8	42 W	20*	30*
12 27	15 12.02	−21 42.6	1.997	1.460	27.9	20.8	44 W	19*	34*
1 6	15 43.88	−23 40.3	1.962	1.471	29.1	20.8	47 W	18*	38*
1 16	16 15.76	−25 13.0	1.927	1.488	30.1	20.8	49 W	17*	41*
333480 2004 TC_{10}									
6 20	6 33.15	+29 9.4	1.697	0.720	14.6	21.5	10 E	4*	—
6 25	7 2.95	+28 24.9	1.662	0.698	17.2	21.4	12 E	4*	1*
6 30	7 32.99	+27 11.0	1.628	0.680	20.2	21.4	13 E	5*	3*
7 5	8 2.88	+25 27.6	1.595	0.669	23.5	21.4	15 E	5*	6*
7 10	8 32.26	+23 16.0	1.563	0.664	26.9	21.5	17 E	6*	9*
491734 2012 VS_{10}									
6 20	6 45.47	+11 32.1	2.586	1.640	10.4	21.5	17 E	—	10*
6 30	7 13.38	+10 14.8	2.595	1.639	9.6	21.5	16 E	—	8*
7 10	7 41.11	+ 8 42.8	2.605	1.642	9.0	21.5	15 E	—	5*
7 20	8 8.57	+ 6 57.3	2.616	1.648	8.5	21.5	14 E	—	2*
7 30	8 35.68	+ 5 0.1	2.627	1.657	8.2	21.5	14 W	—	—
8 9	9 2.35	+ 2 53.1	2.639	1.670	8.1	21.5	13 W	—	3*
452302 1995 YR_1									
6 20	6 50.61	+23 21.3	1.481	0.538	24.6	21.0	13 E	2*	5*
6 25	7 16.71	+22 55.8	1.354	0.442	33.8	20.7	14 E	2*	6*
6 30	7 44.28	+22 10.6	1.205	0.355	50.5	20.4	16 E	3*	8*
7 5	8 9.54	+21 10.2	1.029	0.300	79.3	20.6	17 E	3*	9*
7 10	8 23.96	+20 17.8	0.842	0.305	116.9	22.1	16 E	2*	8*
153349 2001 PJ_9									
6 20	6 54.55	+21 46.3	2.169	1.207	11.6	21.3	14 E	1*	7*
6 25	7 10.86	+21 1.7	2.122	1.154	11.4	21.1	13 E	—	6*
6 30	7 27.79	+20 8.7	2.073	1.101	11.3	21.0	12 E	—	6*
7 5	7 45.37	+19 6.4	2.022	1.048	11.5	20.8	12 E	—	6*

153349 2001 PJ_9 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 10	8 3.65	+17 54.2	1.969	0.995	11.9	20.7	12 E	—	6*
7 15	8 22.67	+16 31.1	1.915	0.942	12.6	20.5	12 E	—	6*
7 20	8 42.47	+14 56.5	1.859	0.890	13.7	20.4	12 E	—	6*
7 30	9 24.59	+11 11.0	1.745	0.794	17.4	20.1	13 E	—	7*
8 9	10 10.43	+ 6 37.3	1.629	0.714	23.3	19.9	16 E	—	10*
8 19	11 0.39	+ 1 24.0	1.515	0.662	31.6	19.9	20 E	—	14*
8 24	11 26.98	− 1 21.3	1.460	0.651	36.2	19.9	22 E	—	16*
8 29	11 54.64	− 4 7.6	1.408	0.651	40.8	19.9	25 E	—	19*
9 3	12 23.32	− 6 50.8	1.361	0.662	45.0	20.0	28 E	—	22*
9 8	12 52.98	− 9 26.6	1.321	0.683	48.5	20.1	31 E	2*	24*
9 13	13 23.49	−11 51.0	1.288	0.713	51.1	20.2	33 E	3*	27*
9 18	13 54.70	−14 0.5	1.264	0.750	52.6	20.3	36 E	5*	30*
9 23	14 26.33	−15 51.8	1.251	0.793	53.3	20.4	39 E	7*	33*
9 28	14 58.06	−17 22.6	1.248	0.839	53.1	20.5	42 E	9*	36*
10 3	15 29.49	−18 31.8	1.255	0.889	52.3	20.7	45 E	11*	39*
10 8	16 0.22	−19 19.3	1.273	0.940	51.0	20.8	47 E	13*	41*
10 13	16 29.91	−19 46.3	1.300	0.993	49.4	20.9	49 E	15*	43*
10 18	16 58.29	−19 54.9	1.336	1.046	47.5	21.0	51 E	17*	44*
10 23	17 25.15	−19 47.7	1.380	1.099	45.6	21.1	52 E	18*	45*
10 28	17 50.41	−19 27.3	1.431	1.152	43.6	21.3	53 E	20*	45*
11 2	18 14.05	−18 56.3	1.488	1.205	41.6	21.4	54 E	21*	45*

155340 2006 SK_{198}

6 20	7 22.28	+17 56.6	3.375	2.454	8.6	21.5	21 E	3*	14*
6 30	7 39.39	+17 11.2	3.371	2.409	6.6	21.3	16 E	—	10*
7 10	7 56.92	+16 16.8	3.352	2.362	4.7	21.2	11 E	—	5*
7 20	8 14.85	+15 13.0	3.320	2.314	3.0	21.0	7 E	—	—
7 30	8 33.13	+13 59.6	3.274	2.264	2.1	20.9	5 W	—	—
8 9	8 51.75	+12 36.4	3.216	2.212	3.1	20.9	7 W	—	1*
8 19	9 10.73	+11 3.0	3.146	2.159	5.0	20.9	11 W	—	4*
8 29	9 30.06	+ 9 19.5	3.064	2.105	7.1	20.9	15 W	4*	7*
9 8	9 49.79	+ 7 25.6	2.973	2.049	9.3	20.8	19 W	9*	10*
9 18	10 9.98	+ 5 21.4	2.873	1.991	11.5	20.8	23 W	13*	13*
9 28	10 30.69	+ 3 7.0	2.766	1.932	13.8	20.7	27 W	17*	16*
10 8	10 52.05	+ 0 42.5	2.652	1.872	16.1	20.7	31 W	20*	19*
10 18	11 14.19	− 1 51.9	2.534	1.812	18.4	20.6	35 W	23*	21*
10 28	11 37.27	− 4 35.4	2.413	1.750	20.7	20.5	39 W	25*	24*
11 7	12 1.54	− 7 27.2	2.291	1.688	23.1	20.3	42 W	26*	27*
11 17	12 27.25	−10 25.8	2.169	1.625	25.4	20.2	45 W	27*	30*
11 27	12 54.73	−13 28.7	2.050	1.563	27.7	20.1	47 W	26*	34*
12 2	13 9.24	−15 0.8	1.992	1.532	28.9	20.0	49 W	26*	35*
12 7	13 24.35	−16 32.6	1.935	1.501	30.1	19.9	50 W	25*	37*
12 12	13 40.09	−18 3.4	1.881	1.471	31.2	19.8	51 W	24*	39*
12 17	13 56.52	−19 32.4	1.827	1.441	32.4	19.8	52 W	23*	40*
12 22	14 13.67	−20 58.6	1.777	1.411	33.5	19.7	52 W	22*	42*
12 27	14 31.60	−22 20.8	1.728	1.382	34.7	19.6	53 W	21*	43*
1 1	14 50.34	−23 37.9	1.682	1.354	35.8	19.6	54 W	20*	44*
1 6	15 9.89	−24 48.5	1.639	1.327	36.9	19.5	54 W	19*	45*
1 11	15 30.27	−25 51.2	1.599	1.301	37.9	19.4	54 W	18*	46*
1 16	15 51.42	−26 44.3	1.562	1.276	38.9	19.4	55 W	17*	47*

148480 2001 FE_{155}

6 20	8 15.38	+19 45.7	2.695	1.921	16.6	21.5	33 E	13*	23*
6 30	8 38.24	+18 33.4	2.718	1.891	15.0	21.4	29 E	9*	21*
7 10	9 1.42	+17 8.1	2.734	1.862	13.3	21.3	25 E	6*	18*
7 20	9 24.85	+15 30.2	2.743	1.833	11.6	21.2	21 E	4*	14*
7 30	9 48.50	+13 40.2	2.747	1.806	9.8	21.1	18 E	2*	11*
8 9	10 12.32	+11 39.0	2.745	1.780	8.1	21.0	14 E	—	8*
8 19	10 36.33	+ 9 27.7	2.738	1.755	6.3	20.9	11 E	—	5*
8 29	11 0.54	+ 7 7.5	2.727	1.732	4.5	20.8	8 E	—	2*
9 8	11 24.97	+ 4 40.2	2.713	1.711	2.7	20.6	5 E	—	—
9 18	11 49.68	+ 2 7.3	2.696	1.692	1.1	20.5	2 E	—	—
9 28	12 14.71	− 0 29.2	2.676	1.675	1.1	20.4	2 W	—	—
10 8	12 40.11	− 3 6.8	2.654	1.660	2.8	20.5	5 W	—	—
10 18	13 5.97	− 5 43.5	2.630	1.648	4.5	20.6	7 W	1*	—
10 28	13 32.31	− 8 16.5	2.605	1.638	6.3	20.6	10 W	4*	—
11 7	13 59.17	−10 43.1	2.579	1.631	8.1	20.7	13 W	6*	2*
11 17	14 26.58	−13 0.8	2.552	1.627	9.8	20.7	16 W	9*	5*
11 27	14 54.52	−15 6.8	2.525	1.626	11.6	20.8	19 W	11*	8*
12 7	15 22.92	−16 58.6	2.496	1.628	13.3	20.8	22 W	12*	11*
12 17	15 51.71	−18 34.1	2.465	1.633	15.0	20.9	25 W	13*	14*
12 27	16 20.73	−19 51.4	2.434	1.641	16.7	20.9	29 W	14*	18*
1 6	16 49.81	−20 49.3	2.401	1.651	18.4	20.9	32 W	14*	22*
1 16	17 18.75	−21 27.3	2.365	1.664	20.0	21.0	35 W	15*	26*

380476 2003 YO_1

6 20	8 24.38	+27 27.0	1.429	0.814	44.1	21.4	34 E	20*	19*
6 25	8 46.24	+25 53.3	1.380	0.785	46.7	21.3	34 E	19*	21*
6 30	9 8.21	+24 0.5	1.328	0.758	49.7	21.3	35 E	18*	22*
7 5	9 30.16	+21 47.8	1.273	0.736	53.0	21.2	35 E	17*	24*

380476 2003 YO_1 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 10	9 52.00	+19 14.8	1.217	0.718	56.6	21.2	36 E	16*	26*
7 15	10 13.64	+16 21.3	1.159	0.705	60.4	21.1	37 E	15*	28*
7 20	10 35.03	+13 7.6	1.102	0.697	64.3	21.1	38 E	14*	30*
7 25	10 56.17	+ 9 34.5	1.045	0.696	68.1	21.1	39 E	13*	32*
7 30	11 17.12	+ 5 43.0	0.989	0.701	71.6	21.1	41 E	11*	34*
8 4	11 37.98	+ 1 34.9	0.936	0.711	74.6	21.1	43 E	10*	36*
8 9	11 58.98	− 2 47.9	0.887	0.727	77.1	21.1	44 E	8*	38*
8 14	12 20.37	− 7 22.8	0.843	0.748	78.9	21.2	46 E	7*	40*
8 19	12 42.49	−12 6.5	0.804	0.772	79.8	21.2	49 E	5*	43*
8 24	13 5.71	−16 54.7	0.772	0.800	80.0	21.1	51 E	3*	45*
8 29	13 30.44	−21 41.5	0.746	0.831	79.5	21.1	54 E	2*	47*
9 3	13 57.05	−26 19.7	0.727	0.863	78.3	21.1	57 E	1*	49*
9 8	14 25.90	−30 41.0	0.714	0.896	76.5	21.1	60 E	—	51*
9 13	14 57.17	−34 36.3	0.709	0.931	74.3	21.1	63 E	—	53*
9 18	15 30.83	−37 56.7	0.711	0.965	71.9	21.1	66 E	—	55*
9 23	16 6.48	−40 34.8	0.720	1.000	69.2	21.1	69 E	—	57*
9 28	16 43.34	−42 25.9	0.734	1.035	66.5	21.1	71 E	—	59*
10 3	17 20.38	−43 29.0	0.755	1.069	63.9	21.2	74 E	—	62*
10 8	17 56.47	−43 46.8	0.781	1.102	61.3	21.3	75 E	—	64*
10 13	18 30.70	−43 25.0	0.812	1.135	58.9	21.3	77 E	1*	65*
10 18	19 2.47	−42 30.9	0.847	1.167	56.6	21.4	78 E	2*	67*

216519 2001 FP_{24}

6 20	8 34.45	+12 42.9	2.659	1.979	19.0	21.5	39 E	11*	31*
6 30	8 55.77	+11 36.1	2.686	1.944	17.5	21.4	35 E	7*	28*
7 10	9 17.64	+10 17.3	2.707	1.910	16.0	21.3	31 E	4*	25*
7 20	9 40.00	+ 8 47.0	2.722	1.877	14.4	21.3	27 E	1*	21*
7 30	10 2.80	+ 7 5.6	2.730	1.846	12.7	21.2	24 E	—	18*
8 9	10 26.01	+ 5 14.4	2.734	1.816	11.1	21.1	20 E	—	14*
8 19	10 49.64	+ 3 14.4	2.733	1.789	9.4	21.0	17 E	—	11*
8 29	11 13.69	+ 1 7.1	2.729	1.763	7.7	20.9	14 E	—	7*
9 8	11 38.17	− 1 5.8	2.721	1.740	6.0	20.7	10 E	—	4*
9 18	12 3.12	− 3 22.3	2.711	1.719	4.3	20.6	7 E	—	1*
9 28	12 28.58	− 5 40.2	2.699	1.702	2.6	20.5	4 E	—	—
10 8	12 54.58	− 7 57.0	2.685	1.687	1.2	20.4	2 W	—	—
10 18	13 21.16	−10 10.3	2.670	1.675	1.6	20.4	3 W	—	—
10 28	13 48.31	−12 17.1	2.654	1.667	3.2	20.4	5 W	—	—
11 7	14 16.03	−14 14.7	2.637	1.663	4.9	20.5	8 W	1*	—
11 17	14 44.29	−16 0.4	2.620	1.661	6.7	20.6	11 W	4*	2*
11 27	15 12.99	−17 31.6	2.602	1.664	8.4	20.7	14 W	6*	5*
12 7	15 42.01	−18 46.1	2.583	1.669	10.2	20.7	17 W	8*	7*
12 17	16 11.21	−19 42.1	2.562	1.679	12.0	20.8	21 W	10*	10*
12 27	16 40.35	−20 18.3	2.540	1.691	13.7	20.9	24 W	11*	14*
1 6	17 9.24	−20 34.2	2.517	1.707	15.5	20.9	28 W	12*	18*
1 16	17 37.63	−20 30.1	2.491	1.725	17.1	21.0	31 W	13*	22*

380636 2004 XN_{14}

6 20	8 47.47	+24 34.9	1.135	0.731	61.6	21.5	39 E	22*	25*
6 25	9 9.45	+23 36.0	1.082	0.714	65.2	21.4	40 E	21*	26*
6 30	9 31.30	+22 23.1	1.026	0.701	69.2	21.4	40 E	21*	27*
7 5	9 52.89	+20 55.8	0.968	0.691	73.5	21.4	41 E	20*	28*
7 10	10 14.11	+19 14.0	0.908	0.685	77.9	21.4	41 E	20*	29*
7 15	10 34.86	+17 17.1	0.847	0.683	82.5	21.4	42 E	20*	31*
7 20	10 55.10	+15 4.5	0.787	0.685	87.0	21.4	42 E	19*	32*
7 25	11 14.80	+12 35.4	0.726	0.692	91.5	21.4	43 E	18*	33*
7 30	11 33.99	+ 9 48.5	0.668	0.702	95.6	21.5	44 E	17*	35*

237495 2000 QF_{56}

6 20	9 7.12	+17 53.9	2.642	2.054	20.5	21.5	45 E	21*	33*
6 30	9 27.15	+16 50.0	2.685	2.022	19.0	21.4	40 E	16*	30*
7 10	9 47.71	+15 35.0	2.721	1.990	17.5	21.4	36 E	13*	27*
7 20	10 8.74	+14 9.2	2.748	1.959	15.9	21.3	32 E	10*	24*
7 30	10 30.20	+12 33.4	2.768	1.928	14.2	21.2	28 E	8*	20*
8 9	10 52.05	+10 48.4	2.781	1.898	12.5	21.2	24 E	6*	17*
8 19	11 14.30	+ 8 55.1	2.787	1.869	10.7	21.1	20 E	5*	13*
8 29	11 36.94	+ 6 54.7	2.787	1.842	9.0	21.0	17 E	4*	10*
9 8	11 59.99	+ 4 48.6	2.781	1.815	7.3	20.8	13 E	3*	6*
9 18	12 23.50	+ 2 38.2	2.770	1.790	5.7	20.7	10 E	2*	3*
9 28	12 47.50	+ 0 25.3	2.755	1.767	4.3	20.6	8 E	1*	—
10 8	13 12.03	− 1 48.3	2.737	1.746	3.4	20.5	6 E	—	—
10 18	13 37.14	− 4 0.4	2.715	1.727	3.3	20.5	6 E	—	—
10 28	14 2.86	− 6 8.7	2.691	1.710	4.2	20.5	7 W	—	—
11 7	14 29.20	− 8 10.9	2.665	1.695	5.5	20.5	9 W	3*	—
11 17	14 56.17	−10 4.7	2.638	1.684	7.0	20.6	12 W	6*	—
11 27	15 23.73	−11 47.3	2.609	1.674	8.7	20.6	15 W	9*	—
12 7	15 51.80	−13 16.8	2.580	1.668	10.3	20.6	18 W	11*	3*
12 17	16 20.29	−14 31.0	2.550	1.665	12.0	20.7	21 W	13*	6*
12 27	16 49.05	−15 28.2	2.518	1.664	13.7	20.7	24 W	14*	10*
1 6	17 17.91	−16 7.6	2.487	1.667	15.3	20.7	27 W	15*	14*
1 16	17 46.68	−16 28.5	2.454	1.672	17.0	20.8	30 W	16*	18*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
163683 2002 YP_2									
6 20	11 11.17	+13 16.0	1.033	1.246	52.0	21.5	75 E	39*	50*
6 30	11 13.85	+ 9 41.4	1.021	1.129	56.2	21.3	67 E	30*	51*
7 10	11 18.08	+ 5 48.8	0.990	1.006	61.3	21.2	60 E	22*	50*
7 20	11 22.37	+ 1 36.8	0.935	0.878	68.1	21.0	53 E	14*	46*
7 30	11 24.15	− 2 52.0	0.855	0.749	78.2	20.8	46 E	7*	40*
8 9	11 17.97	− 7 13.6	0.751	0.626	94.4	20.7	38 E	—	31*
8 19	10 53.38	− 9 47.6	0.640	0.529	119.7	21.5	27 E	—	17*
463380 2013 BY_{45}									
6 20	18 49.93	+ 2 10.1	2.024	2.955	9.6	23.6	151 W	47	62
6 30	18 39.12	+ 1 17.8	2.006	2.962	8.2	23.5	156 W	46	63
7 10	18 28.25	+ 0 5.7	2.016	2.967	8.4	23.6	155 E	45	64
7 20	18 18.24	− 1 22.1	2.054	2.971	10.2	23.7	149 E	44	65
7 30	18 9.86	− 3 0.5	2.118	2.973	12.5	23.8	141 E	42	67
306173 2010 NK_{83}									
6 20	18 53.69	−22 20.5	7.885	8.876	1.5	23.0	166 W	23	86
6 30	18 49.65	−22 28.7	7.847	8.862	0.4	22.9	177 W	23	86
7 10	18 45.53	−22 36.7	7.839	8.848	0.9	22.9	173 E	22	87
7 20	18 41.52	−22 44.3	7.862	8.834	2.0	23.0	162 E	22	87
7 30	18 37.82	−22 51.3	7.913	8.820	3.1	23.1	152 E	22	87
508805 2000 TT_{28}									
6 20	19 8.23	−26 6.5	2.548	3.533	4.8	23.0	163 W	19	90
6 30	18 58.52	−26 13.1	2.497	3.510	1.7	22.7	174 W	19	90
7 10	18 48.28	−26 15.2	2.476	3.486	2.3	22.7	172 E	19	90
7 20	18 38.31	−26 12.2	2.485	3.461	5.5	22.9	161 E	19	90
7 30	18 29.45	−26 4.1	2.522	3.435	8.6	23.1	149 E	19	90
497091 2003 YO_6									
6 20	19 13.46	−29 55.1	2.038	3.018	6.2	22.9	161 W	15	86
6 25	19 8.30	−30 6.6	2.014	3.012	4.5	22.8	167 W	15	86
6 30	19 2.82	−30 16.3	1.997	3.005	3.1	22.7	171 W	15	86
7 5	18 57.16	−30 23.8	1.987	2.998	2.6	22.7	172 E	15	86
7 10	18 51.46	−30 28.9	1.985	2.991	3.4	22.7	170 E	15	86
7 15	18 45.84	−30 31.4	1.989	2.984	5.0	22.8	165 E	14	85
7 20	18 40.46	−30 31.3	2.001	2.976	6.7	22.9	160 E	14	85
496230 2012 CL_2									
6 20	19 13.59	+15 38.7	2.174	2.993	13.5	23.1	136 W	61	48
6 30	19 3.27	+15 18.1	2.103	2.963	12.5	23.0	141 W	60	49
7 10	18 52.09	+14 26.0	2.056	2.931	12.1	22.9	143 E	59	50
7 20	18 40.97	+13 2.5	2.034	2.898	12.7	22.9	141 E	58	51
7 30	18 30.86	+11 11.5	2.037	2.863	14.0	22.9	137 E	56	53
162695 2000 UL_{11}									
6 20	19 15.10	−24 54.7	2.031	3.012	6.1	24.5	162 W	20	89
6 25	19 8.73	−25 5.2	2.031	3.032	4.1	24.4	168 W	20	89
6 30	19 2.19	−25 14.3	2.039	3.051	2.1	24.3	174 W	20	89
7 5	18 55.63	−25 21.8	2.054	3.070	0.9	24.2	177 E	20	89
7 10	18 49.18	−25 27.7	2.077	3.088	2.4	24.4	173 E	20	89
7 15	18 42.98	−25 31.8	2.108	3.106	4.3	24.6	167 E	19	90
7 20	18 37.15	−25 34.2	2.146	3.123	6.2	24.7	161 E	19	90
248083 2004 QU_{24}									
6 20	19 16.82	+ 5 47.1	4.454	5.315	6.4	23.4	145 W	51	58
6 30	19 10.77	+ 5 49.9	4.403	5.306	5.5	23.3	150 W	51	58
7 10	19 4.42	+ 5 41.8	4.379	5.297	5.2	23.3	152 E	51	58
7 20	18 58.12	+ 5 23.0	4.383	5.288	5.5	23.3	150 E	50	59
7 30	18 52.23	+ 4 54.4	4.413	5.277	6.3	23.3	145 E	50	59
497009 2003 BU_{35}									
6 20	19 23.51	−15 24.0	4.675	5.628	3.9	23.9	158 W	30	79
6 30	19 17.51	−15 25.1	4.640	5.637	2.2	23.7	168 W	30	79
7 10	19 11.22	−15 28.5	4.635	5.645	1.2	23.7	173 E	30	79
7 20	19 4.98	−15 33.7	4.661	5.653	2.4	23.8	166 E	29	80
7 30	18 59.16	−15 40.2	4.716	5.660	4.1	23.9	156 E	29	80
497245 2005 FH									
6 20	19 25.20	+ 6 11.4	3.613	4.467	7.9	24.0	143 W	51	58
6 30	19 17.69	+ 5 56.3	3.562	4.466	6.7	23.9	149 W	51	58
7 10	19 9.75	+ 5 27.3	3.539	4.463	6.1	23.9	152 E	50	59
7 20	19 1.83	+ 4 45.0	3.544	4.460	6.3	23.9	151 E	50	59
7 30	18 54.43	+ 3 51.3	3.577	4.456	7.3	23.9	146 E	49	60
508815 2000 XE_2									
6 20	19 25.31	−31 43.3	1.781	2.751	7.8	22.7	158 W	13	84
6 25	19 19.90	−32 7.6	1.744	2.734	6.1	22.6	163 W	13	84
6 30	19 13.96	−32 30.2	1.714	2.716	4.6	22.4	168 W	12	83
7 5	19 7.63	−32 50.1	1.691	2.697	3.9	22.4	170 W	12	83

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
508815 2000 XE_2 *(continuation)*									
	h m	° ′			°	m	°	°	°
7 10	19 1.06	−33 6.8	1.675	2.679	4.3	22.3	169 E	12	83
7 15	18 54.42	−33 19.9	1.666	2.660	5.8	22.4	165 E	12	83
7 20	18 47.91	−33 29.0	1.663	2.641	7.6	22.5	160 E	12	83
7 25	18 41.69	−33 34.1	1.668	2.621	9.6	22.5	154 E	11	82
492815 2014 QS_{269}									
6 20	19 27.43	− 0 22.6	3.436	4.330	7.2	22.4	148 W	45	64
6 30	19 21.56	− 0 30.8	3.367	4.309	5.8	22.3	155 W	44	65
7 10	19 15.15	− 0 50.6	3.325	4.287	5.0	22.2	159 E	44	65
7 20	19 8.64	− 1 21.3	3.310	4.265	5.3	22.2	157 E	44	65
7 30	19 2.52	− 2 1.7	3.323	4.243	6.6	22.2	151 E	43	66
494231 2016 NA_{47}									
6 20	19 29.53	−19 33.5	1.975	2.941	7.5	22.3	158 W	25	84
6 30	19 20.79	−19 53.5	1.897	2.902	3.8	22.0	169 W	25	84
7 10	19 10.77	−20 16.1	1.845	2.861	0.9	21.7	177 E	25	84
7 20	19 0.37	−20 39.3	1.823	2.821	4.8	21.9	166 E	24	85
7 30	18 50.69	−21 1.0	1.827	2.779	9.0	22.0	155 E	24	85
438105 2005 GO_{22}									
6 20	19 30.51	−23 26.7	1.661	2.632	8.3	22.5	158 W	22	87
6 25	19 22.91	−23 45.6	1.604	2.598	6.0	22.3	165 W	21	88
6 30	19 14.47	−24 4.3	1.554	2.564	3.4	22.0	171 W	21	88
7 5	19 5.31	−24 22.0	1.512	2.529	1.0	21.8	178 W	21	88
7 10	18 55.60	−24 37.9	1.479	2.493	2.3	21.8	174 E	20	89
7 15	18 45.56	−24 51.5	1.453	2.455	5.1	21.9	167 E	20	89
7 20	18 35.42	−25 2.0	1.436	2.418	8.1	22.0	160 E	20	89
7 25	18 25.46	−25 9.4	1.426	2.379	11.0	22.0	153 E	20	89
7 30	18 15.93	−25 13.7	1.424	2.339	13.8	22.1	147 E	20	89
8 4	18 7.05	−25 15.2	1.428	2.298	16.6	22.2	140 E	20	89
371467 2006 SF_{409}									
6 20	19 30.92	−18 54.6	1.982	2.946	7.7	22.4	157 W	26	83
6 30	19 21.80	−19 24.9	1.920	2.924	3.9	22.1	169 W	26	83
7 10	19 11.52	−19 58.3	1.885	2.901	0.9	21.8	177 E	25	84
7 20	19 1.02	−20 32.1	1.879	2.877	4.7	22.1	167 E	24	85
7 30	18 51.35	−21 4.1	1.900	2.852	8.7	22.3	155 E	24	85
476093 2007 TC_{66}									
6 20	19 32.82	−21 40.1	1.478	2.448	9.2	22.9	157 W	23	86
6 25	19 24.74	−22 12.4	1.489	2.482	6.4	22.8	164 W	23	86
6 30	19 16.46	−22 43.1	1.507	2.516	3.7	22.7	171 W	22	87
7 5	19 8.19	−23 11.6	1.533	2.549	1.0	22.6	177 W	22	87
7 10	19 0.13	−23 37.4	1.566	2.581	1.7	22.7	176 E	21	88
7 15	18 52.47	−24 0.2	1.607	2.612	4.2	23.0	169 E	21	88
7 20	18 45.37	−24 19.9	1.655	2.643	6.5	23.2	163 E	21	88
7 25	18 38.96	−24 36.8	1.711	2.674	8.7	23.4	157 E	20	89
505590 2014 CA_5									
6 20	19 35.58	−57 0.1	2.784	3.637	9.9	23.4	142 W	—	59
6 25	19 28.57	−57 18.4	2.763	3.632	9.6	23.3	144 W	—	59
6 30	19 21.05	−57 30.7	2.749	3.627	9.3	23.3	145 W	—	58
7 5	19 13.23	−57 36.6	2.741	3.621	9.3	23.3	145 W	—	58
7 10	19 5.28	−57 35.8	2.739	3.615	9.4	23.3	145 E	—	58
7 15	18 57.43	−57 28.0	2.743	3.609	9.7	23.3	143 E	—	59
7 20	18 49.86	−57 13.4	2.753	3.603	10.1	23.3	141 E	—	59
7 25	18 42.78	−56 52.5	2.769	3.597	10.7	23.4	139 E	—	59
267729 2003 FC_5									
6 20	19 36.25	−13 6.3	2.117	3.063	8.4	22.9	154 W	32	77
6 30	19 25.28	−13 20.2	2.060	3.053	5.0	22.7	165 W	32	77
7 10	19 13.20	−13 40.9	2.031	3.040	2.9	22.6	171 E	31	78
7 20	19 0.98	−14 6.5	2.034	3.026	5.0	22.7	165 E	31	78
7 30	18 49.65	−14 35.1	2.065	3.010	8.6	22.9	154 E	30	79
307877 2004 BG_{69}									
6 20	19 41.96	−10 5.8	2.738	3.661	7.7	21.5	151 W	35	74
6 30	19 34.68	−10 18.2	2.663	3.640	5.2	21.3	161 W	35	74
7 10	19 26.49	−10 38.8	2.616	3.617	3.3	21.1	168 W	34	75
7 20	19 17.97	−11 6.6	2.598	3.594	3.8	21.1	166 E	34	75
7 30	19 9.82	−11 39.8	2.610	3.570	6.2	21.2	158 E	33	76
8 9	19 2.67	−12 16.4	2.648	3.545	8.8	21.4	147 E	33	76
8 19	18 57.03	−12 54.5	2.711	3.519	11.3	21.5	137 E	32	77
405105 2002 BJ_{26}									
6 20	19 47.23	−50 22.8	2.014	2.908	11.5	22.5	145 W	—	66
6 25	19 40.15	−50 40.9	1.985	2.899	10.7	22.5	148 W	—	65
6 30	19 32.39	−50 52.7	1.962	2.889	10.1	22.4	150 W	—	65
7 5	19 24.15	−50 57.2	1.944	2.878	9.8	22.4	151 W	—	65
7 10	19 15.65	−50 54.0	1.934	2.868	9.8	22.4	151 E	—	65
7 15	19 7.13	−50 42.6	1.930	2.857	10.2	22.4	150 E	—	65

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		405105 2002 BJ_{26}				*(continuation)*			
	h m	° ′			°	m	°	°	°
7 20	18 58.84	−50 23.0	1.932	2.845	10.9	22.4	148 E	—	66
7 25	18 51.04	−49 55.7	1.940	2.834	11.8	22.4	145 E	—	66
7 30	18 43.93	−49 21.5	1.955	2.822	12.9	22.5	142 E	—	67
		458012 2009 WW_{105}							
6 20	19 52.52	−12 47.1	1.661	2.593	11.2	21.8	150 W	32	77
6 30	19 41.44	−12 19.3	1.642	2.625	7.2	21.6	161 W	33	76
7 10	19 29.36	−12 0.5	1.650	2.656	4.0	21.5	169 W	33	76
7 20	19 17.42	−11 50.0	1.686	2.685	4.9	21.6	167 E	33	76
7 30	19 6.78	−11 46.9	1.750	2.714	8.4	21.9	157 E	33	76
8 9	18 58.30	−11 49.6	1.839	2.741	11.8	22.1	146 E	33	76
		347449 2012 TW_{236}							
6 20	19 53.88	− 8 43.4	8.339	9.216	3.4	22.1	148 W	36	73
6 30	19 50.70	− 8 48.3	8.294	9.239	2.4	22.0	157 W	36	73
7 10	19 47.26	− 8 56.1	8.277	9.262	1.6	21.9	165 W	36	73
7 20	19 43.72	− 9 6.5	8.289	9.285	1.3	21.9	168 E	36	73
7 30	19 40.25	− 9 19.2	8.331	9.308	1.8	22.0	163 E	36	73
8 9	19 37.01	− 9 33.4	8.401	9.330	2.6	22.1	155 E	35	74
		508881 2003 SZ_{121}							
6 20	19 57.26	−12 21.5	1.381	2.312	13.1	21.2	149 W	33	76
6 30	19 49.69	−12 16.2	1.294	2.274	9.0	20.8	159 W	33	76
7 10	19 39.76	−12 23.7	1.229	2.235	5.0	20.5	169 W	33	76
7 20	19 28.47	−12 43.0	1.189	2.196	4.9	20.4	169 E	32	77
7 25	19 22.74	−12 56.5	1.178	2.176	6.9	20.5	165 E	32	77
7 30	19 17.23	−13 12.0	1.174	2.156	9.3	20.5	160 E	32	77
8 4	19 12.11	−13 29.1	1.175	2.136	11.8	20.6	154 E	32	77
8 9	19 7.56	−13 47.5	1.182	2.116	14.3	20.7	149 E	31	78
8 14	19 3.70	−14 6.5	1.193	2.095	16.8	20.8	143 E	31	78
8 19	19 0.66	−14 26.0	1.209	2.075	19.1	20.9	138 E	31	78
8 24	18 58.53	−14 45.5	1.229	2.055	21.2	20.9	133 E	30	79
8 29	18 57.36	−15 4.6	1.253	2.034	23.1	21.0	128 E	30	79
9 3	18 57.17	−15 22.9	1.279	2.014	24.9	21.1	123 E	30	79
9 8	18 57.94	−15 40.3	1.308	1.993	26.4	21.2	118 E	29	80
9 13	18 59.68	−15 56.5	1.338	1.973	27.8	21.2	114 E	29	80
9 18	19 2.35	−16 11.0	1.370	1.953	29.0	21.3	110 E	29	80
9 23	19 5.92	−16 23.8	1.403	1.932	30.0	21.4	106 E	29	80
9 28	19 10.35	−16 34.4	1.436	1.912	30.9	21.4	102 E	28	81
10 3	19 15.57	−16 42.7	1.470	1.892	31.6	21.5	98 E	28	81
		452397 2002 PD_{130}							
6 20	19 58.85	−16 16.7	0.731	1.690	17.5	21.8	150 W	29	80
6 30	19 52.09	−14 26.9	0.651	1.644	12.1	21.3	160 W	31	78
7 10	19 41.28	−12 29.9	0.589	1.598	7.1	20.8	169 W	33	76
7 20	19 27.66	−10 30.7	0.545	1.553	8.2	20.6	167 E	34	75
7 30	19 13.56	− 8 37.7	0.520	1.508	15.0	20.7	157 E	36	73
8 9	19 1.75	− 6 59.6	0.511	1.465	22.8	20.9	146 E	38	71
8 19	18 54.42	− 5 42.0	0.514	1.424	30.0	21.0	135 E	39	70
8 29	18 52.90	− 4 44.9	0.526	1.385	36.2	21.2	126 E	40	69
9 8	18 57.47	− 4 3.4	0.542	1.349	41.3	21.3	118 E	41	68
9 18	19 7.84	− 3 31.2	0.561	1.317	45.3	21.5	111 E	41	68
		268747 2006 QK_{48}							
6 20	20 1.09	−50 6.4	1.985	2.869	12.1	21.4	144 W	—	66
6 25	19 55.08	−50 31.2	1.953	2.858	11.3	21.3	147 W	—	65
6 30	19 48.30	−50 50.5	1.927	2.848	10.6	21.3	149 W	—	65
7 5	19 40.91	−51 3.4	1.908	2.837	10.2	21.2	150 W	—	65
7 10	19 33.11	−51 9.1	1.894	2.826	10.1	21.2	151 W	—	65
7 15	19 25.13	−51 6.7	1.886	2.815	10.3	21.2	150 E	—	65
7 20	19 17.21	−50 56.3	1.885	2.803	10.9	21.2	149 E	—	65
7 25	19 9.60	−50 37.7	1.890	2.792	11.7	21.2	146 E	—	65
7 30	19 2.54	−50 11.7	1.900	2.780	12.7	21.3	143 E	—	66
8 4	18 56.20	−49 38.9	1.917	2.768	13.8	21.3	139 E	—	66
8 9	18 50.73	−49 0.3	1.938	2.755	14.9	21.4	136 E	—	67
8 14	18 46.21	−48 17.1	1.965	2.743	16.1	21.4	132 E	—	68
8 19	18 42.70	−47 30.1	1.995	2.730	17.2	21.5	127 E	—	68
		469672 2004 XE_{2}							
6 20	20 4.76	−21 0.2	2.253	3.174	9.2	22.1	150 W	24	85
6 30	19 57.02	−21 11.3	2.167	3.146	6.0	21.8	161 W	24	85
7 10	19 47.70	−21 23.9	2.107	3.118	2.3	21.5	173 W	24	85
7 20	19 37.54	−21 35.7	2.076	3.090	1.6	21.4	175 E	23	86
7 30	19 27.48	−21 44.8	2.074	3.060	5.5	21.7	163 E	23	86
8 9	19 18.45	−21 49.8	2.099	3.030	9.2	21.8	152 E	23	86
		306642 2000 SP_{42}							
6 20	20 8.94	−31 59.5	2.485	3.399	8.8	21.4	149 W	13	84
6 30	20 0.69	−32 51.7	2.401	3.371	6.2	21.2	159 W	12	83
7 10	19 50.71	−33 38.9	2.345	3.341	4.1	21.0	166 W	11	82
7 20	19 39.75	−34 16.6	2.317	3.311	4.3	21.0	166 E	11	82

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		306642 2000 SP_{42}				*(continuation)*			
	h m	° ′			°	m	°	°	°
7 30	19 28.78	−34 41.3	2.318	3.280	6.7	21.1	158 E	10	81
8 9	19 18.80	−34 52.1	2.346	3.248	9.6	21.2	148 E	10	81
8 19	19 10.66	−34 49.8	2.399	3.215	12.4	21.4	137 E	10	81
		348053 2003 UA_{206}							
6 20	20 10.32	−13 55.2	1.658	2.569	12.6	21.7	147 W	31	78
6 30	20 3.00	−13 53.3	1.573	2.542	8.8	21.4	158 W	31	78
7 10	19 53.56	−14 0.8	1.512	2.515	4.8	21.1	168 W	31	78
7 20	19 42.85	−14 16.3	1.476	2.488	3.0	20.9	173 E	31	78
7 30	19 32.07	−14 37.5	1.468	2.459	6.6	21.1	164 E	30	79
8 9	19 22.46	−15 1.6	1.485	2.430	11.1	21.3	153 E	30	79
8 19	19 15.06	−15 26.3	1.524	2.400	15.2	21.5	141 E	30	79
		415715 1999 AU_{23}							
6 20	20 13.86	−23 50.6	1.421	2.347	13.2	21.4	148 W	21	88
6 30	20 3.28	−23 4.2	1.321	2.303	8.6	21.0	160 W	22	87
7 10	19 49.62	−22 9.4	1.246	2.258	3.3	20.6	173 W	23	86
7 20	19 34.07	−21 4.4	1.198	2.212	2.6	20.4	174 E	24	85
7 25	19 26.13	−20 28.1	1.185	2.188	5.6	20.5	168 E	25	84
7 30	19 18.40	−19 49.7	1.179	2.165	8.7	20.6	161 E	25	84
8 4	19 11.13	−19 9.8	1.178	2.141	11.6	20.7	155 E	26	83
8 9	19 4.51	−18 29.2	1.184	2.116	14.5	20.8	148 E	27	82
8 14	18 58.71	−17 48.5	1.196	2.092	17.2	20.9	142 E	27	82
8 19	18 53.84	−17 8.3	1.212	2.067	19.7	21.0	136 E	28	81
8 24	18 50.02	−16 29.1	1.233	2.042	22.0	21.1	131 E	29	80
8 29	18 47.27	−15 51.2	1.257	2.016	24.1	21.1	125 E	29	80
9 3	18 45.61	−15 14.8	1.283	1.991	26.0	21.2	120 E	30	79
9 8	18 45.00	−14 39.9	1.312	1.965	27.6	21.3	115 E	30	79
9 13	18 45.42	−14 6.4	1.343	1.940	29.1	21.4	111 E	31	78
9 18	18 46.84	−13 34.1	1.374	1.914	30.3	21.4	106 E	31	78
9 23	18 49.20	−13 2.8	1.406	1.888	31.4	21.5	102 E	32	77
		2135 Aristaeus							
6 20	20 14.41	+15 52.8	1.599	2.364	19.8	21.8	128 W	61	48
6 25	20 9.23	+16 16.0	1.571	2.371	18.7	21.8	132 W	61	48
6 30	20 3.41	+16 30.4	1.547	2.377	17.6	21.7	135 W	62	47
7 5	19 57.08	+16 35.4	1.528	2.383	16.6	21.6	138 W	62	47
7 10	19 50.37	+16 30.5	1.515	2.388	15.7	21.6	140 W	62	47
7 15	19 43.42	+16 15.2	1.507	2.392	15.1	21.6	142 W	61	48
7 20	19 36.43	+15 49.7	1.504	2.396	14.7	21.5	143 E	61	48
7 25	19 29.57	+15 14.4	1.508	2.399	14.7	21.6	143 E	60	49
7 30	19 23.02	+14 30.2	1.517	2.401	15.0	21.6	142 E	60	49
8 4	19 16.93	+13 38.1	1.532	2.403	15.6	21.6	140 E	59	50
8 9	19 11.44	+12 39.6	1.553	2.404	16.4	21.7	138 E	58	51
8 14	19 6.64	+11 36.0	1.580	2.405	17.3	21.8	135 E	57	52
		505416 2013 RT_{16}							
6 20	20 17.12	+ 9 8.5	1.923	2.714	16.1	21.7	132 W	54	55
6 25	20 14.35	+ 9 29.7	1.871	2.698	15.1	21.6	136 W	54	55
6 30	20 11.03	+ 9 45.3	1.825	2.683	14.2	21.5	140 W	55	54
7 5	20 7.23	+ 9 54.6	1.783	2.667	13.2	21.4	143 W	55	54
7 10	20 3.00	+ 9 57.1	1.746	2.651	12.4	21.3	146 W	55	54
7 15	19 58.44	+ 9 52.3	1.715	2.634	11.7	21.2	148 W	55	54
7 20	19 53.65	+ 9 39.9	1.690	2.618	11.3	21.1	150 E	55	54
7 25	19 48.75	+ 9 19.9	1.670	2.601	11.2	21.1	150 E	54	55
7 30	19 43.89	+ 8 52.5	1.657	2.584	11.5	21.1	150 E	54	55
8 4	19 39.18	+ 8 18.2	1.649	2.567	12.1	21.1	148 E	53	56
8 9	19 34.77	+ 7 37.5	1.648	2.550	13.0	21.1	146 E	53	56
8 14	19 30.76	+ 6 51.3	1.652	2.532	14.1	21.1	143 E	52	57
8 19	19 27.27	+ 6 0.5	1.661	2.514	15.3	21.1	139 E	51	58
8 24	19 24.37	+ 5 6.2	1.675	2.497	16.6	21.2	135 E	50	59
8 29	19 22.15	+ 4 9.4	1.694	2.479	17.9	21.2	131 E	49	60
9 3	19 20.64	+ 3 11.1	1.718	2.460	19.1	21.3	127 E	48	61
9 8	19 19.86	+ 2 12.3	1.745	2.442	20.3	21.4	123 E	47	62
9 13	19 19.84	+ 1 13.8	1.775	2.424	21.4	21.4	119 E	46	63
9 18	19 20.57	+ 0 16.4	1.808	2.405	22.4	21.5	114 E	45	64
		261068 2005 SA_{201}							
6 20	20 17.50	−30 51.9	2.157	3.064	10.2	21.7	148 W	14	85
6 25	20 13.36	−31 13.7	2.138	3.077	8.7	21.6	153 W	14	85
6 30	20 8.73	−31 34.3	2.125	3.090	7.1	21.5	158 W	13	84
7 5	20 3.72	−31 53.3	2.118	3.104	5.6	21.4	163 W	13	84
7 10	19 58.43	−32 10.0	2.119	3.117	4.3	21.4	167 W	13	84
7 15	19 52.98	−32 23.9	2.126	3.129	3.7	21.4	169 W	13	84
7 20	19 47.51	−32 34.8	2.141	3.142	3.9	21.4	168 E	12	83
7 25	19 42.15	−32 42.3	2.163	3.154	4.9	21.5	165 E	12	83
7 30	19 37.03	−32 46.4	2.192	3.166	6.2	21.6	160 E	12	83
8 4	19 32.27	−32 47.3	2.228	3.178	7.6	21.7	155 E	12	83
8 9	19 27.96	−32 45.1	2.270	3.190	9.1	21.8	150 E	12	83
8 14	19 24.18	−32 40.1	2.318	3.201	10.4	21.9	145 E	12	83

189552 2000 RL_{77}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 20	20 19.74	+21 45.1	2.221	2.899	17.2	21.8	123 W	67	42
6 25	20 16.75	+22 21.0	2.161	2.875	16.7	21.7	126 W	67	42
6 30	20 13.19	+22 51.1	2.105	2.850	16.3	21.6	128 W	68	41
7 5	20 9.12	+23 14.6	2.053	2.824	15.8	21.5	131 W	68	41
7 10	20 4.58	+23 30.6	2.006	2.798	15.4	21.4	133 W	69	40
7 15	19 59.66	+23 38.4	1.963	2.772	15.2	21.3	135 W	69	40
7 20	19 54.44	+23 37.3	1.925	2.746	15.0	21.2	136 E	69	40
7 25	19 49.05	+23 26.7	1.893	2.719	15.0	21.2	136 E	68	41
7 30	19 43.62	+23 6.6	1.865	2.692	15.1	21.1	136 E	68	41
8 4	19 38.28	+22 37.0	1.843	2.665	15.4	21.1	136 E	68	41
8 9	19 33.16	+21 58.2	1.825	2.637	15.9	21.1	135 E	67	42
8 14	19 28.39	+21 10.8	1.813	2.609	16.6	21.1	133 E	66	43
8 19	19 24.10	+20 15.6	1.806	2.581	17.3	21.1	131 E	65	44
8 24	19 20.37	+19 13.5	1.803	2.552	18.2	21.1	128 E	64	45
8 29	19 17.30	+18 5.7	1.805	2.523	19.1	21.1	125 E	63	46
9 3	19 14.95	+16 53.5	1.810	2.494	20.1	21.1	122 E	62	47
9 8	19 13.35	+15 38.0	1.820	2.464	21.1	21.1	118 E	61	48
9 13	19 12.52	+14 20.4	1.832	2.434	22.0	21.1	115 E	59	50
9 18	19 12.49	+13 1.7	1.848	2.404	22.9	21.1	111 E	58	51
9 23	19 13.25	+11 42.9	1.866	2.373	23.7	21.1	108 E	57	52
9 28	19 14.79	+10 24.9	1.886	2.343	24.5	21.2	104 E	55	54
10 3	19 17.07	+ 9 8.5	1.908	2.311	25.2	21.2	101 E	54	55
10 8	19 20.09	+ 7 54.3	1.931	2.280	25.8	21.2	97 E	53	56*
10 13	19 23.80	+ 6 42.8	1.955	2.248	26.3	21.2	94 E	52	56*
10 18	19 28.19	+ 5 34.4	1.979	2.216	26.7	21.2	90 E	51	56*
10 23	19 33.23	+ 4 29.5	2.004	2.184	27.1	21.2	87 E	49*	55*
10 28	19 38.87	+ 3 28.3	2.028	2.151	27.3	21.2	83 E	48*	54*
11 2	19 45.10	+ 2 31.2	2.053	2.119	27.5	21.2	80 E	47*	52*
11 7	19 51.88	+ 1 38.2	2.076	2.086	27.6	21.2	77 E	46*	50*
11 12	19 59.18	+ 0 49.3	2.099	2.052	27.6	21.2	74 E	45*	48*
11 17	20 6.99	+ 0 4.8	2.121	2.019	27.5	21.2	70 E	44*	45*
11 22	20 15.27	− 0 35.3	2.142	1.985	27.4	21.2	67 E	43*	43*
11 27	20 24.01	− 1 11.0	2.161	1.952	27.2	21.1	65 E	42*	40*
12 2	20 33.18	− 1 42.4	2.179	1.918	26.9	21.1	62 E	41*	37*
12 7	20 42.76	− 2 9.4	2.195	1.884	26.6	21.1	59 E	40*	34*
12 12	20 52.74	− 2 32.1	2.210	1.850	26.2	21.0	56 E	39*	32*
12 17	21 3.10	− 2 50.5	2.223	1.816	25.8	21.0	53 E	38*	29*
12 22	21 13.83	− 3 4.7	2.234	1.782	25.3	21.0	51 E	37*	27*
12 27	21 24.91	− 3 14.9	2.243	1.748	24.8	20.9	48 E	35*	24*
1 1	21 36.33	− 3 21.0	2.250	1.714	24.2	20.9	46 E	34*	22*
1 6	21 48.08	− 3 23.3	2.255	1.680	23.7	20.8	43 E	32*	20*
1 11	22 0.16	− 3 21.9	2.258	1.647	23.0	20.7	41 E	31*	18*
1 16	22 12.56	− 3 16.9	2.260	1.614	22.4	20.7	39 E	29*	17*

523619 2007 RX_{19}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	20 20.14	−76 55.5	2.291	2.978	16.5	23.6	124 W	—	39
6 22	20 12.59	−77 11.4	2.285	2.976	16.4	23.5	124 W	—	39
6 24	20 4.45	−77 25.3	2.280	2.974	16.4	23.5	124 W	—	39
6 26	19 55.78	−77 37.1	2.275	2.972	16.4	23.5	125 W	—	38
6 28	19 46.63	−77 46.7	2.271	2.970	16.3	23.5	125 W	—	38
6 30	19 37.08	−77 53.8	2.268	2.968	16.3	23.5	125 W	—	38
7 1	19 32.19	−77 56.4	2.267	2.967	16.3	23.5	125 W	—	38
7 2	19 27.23	−77 58.4	2.266	2.966	16.3	23.5	125 W	—	38
7 3	19 22.23	−77 59.7	2.265	2.965	16.3	23.5	125 W	—	38
7 4	19 17.19	−78 0.3	2.264	2.964	16.4	23.5	125 W	—	38
7 5	19 12.13	−78 0.2	2.263	2.963	16.4	23.5	125 W	—	38
7 6	19 7.06	−77 59.5	2.263	2.962	16.4	23.5	125 W	—	38
7 7	19 2.01	−77 58.1	2.262	2.961	16.4	23.5	125 E	—	38
7 8	18 56.98	−77 56.0	2.262	2.959	16.4	23.5	125 E	—	38
7 9	18 51.99	−77 53.2	2.262	2.958	16.5	23.5	124 E	—	38
7 10	18 47.05	−77 49.8	2.262	2.957	16.5	23.5	124 E	—	38
7 11	18 42.18	−77 45.7	2.263	2.956	16.5	23.5	124 E	—	38
7 12	18 37.39	−77 40.9	2.263	2.954	16.6	23.5	124 E	—	38
7 13	18 32.69	−77 35.5	2.264	2.953	16.6	23.5	124 E	—	38
7 14	18 28.10	−77 29.5	2.265	2.952	16.7	23.5	124 E	—	39
7 15	18 23.62	−77 22.8	2.266	2.951	16.7	23.5	123 E	—	39
7 16	18 19.25	−77 15.6	2.268	2.949	16.8	23.5	123 E	—	39
7 17	18 15.02	−77 7.8	2.269	2.948	16.8	23.5	123 E	—	39
7 18	18 10.93	−76 59.4	2.271	2.947	16.9	23.5	123 E	—	39
7 19	18 6.97	−76 50.5	2.272	2.945	16.9	23.5	122 E	—	39
7 20	18 3.16	−76 41.1	2.274	2.944	17.0	23.5	122 E	—	39
7 22	17 56.00	−76 20.9	2.279	2.941	17.1	23.5	122 E	—	40
7 24	17 49.45	−75 58.9	2.284	2.938	17.3	23.5	121 E	—	40
7 26	17 43.51	−75 35.3	2.290	2.935	17.4	23.6	120 E	—	40
7 28	17 38.19	−75 10.4	2.296	2.932	17.6	23.6	119 E	—	41

377463 2004 XE_{45}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	20 21.45	−28 2.5	2.720	3.614	8.9	22.1	147 W	17	88
6 30	20 13.95	−28 54.3	2.677	3.637	6.2	21.9	157 W	16	87
7 10	20 5.12	−29 43.1	2.662	3.660	3.6	21.8	167 W	15	86
7 20	19 55.61	−30 25.3	2.676	3.681	2.7	21.8	170 E	15	86

377463 2004 XE_{45} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
7 30	19 46.21	−30 58.1	2.719	3.702	4.6	21.9	163 E	14	85
8 9	19 37.69	−31 20.2	2.791	3.721	7.2	22.1	153 E	14	85

513479 2009 DK_{39}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	20 22.63	−55 19.1	2.419	3.248	12.1	22.4	138 W	—	61
6 25	20 16.91	−55 47.5	2.382	3.234	11.5	22.3	141 W	—	60
6 30	20 10.32	−56 11.3	2.351	3.220	11.0	22.3	143 W	—	60
7 5	20 3.01	−56 29.2	2.325	3.206	10.7	22.2	144 W	—	60
7 10	19 55.13	−56 40.3	2.306	3.191	10.6	22.2	145 W	—	59
7 15	19 46.89	−56 43.8	2.292	3.177	10.6	22.2	145 W	—	59
7 20	19 38.53	−56 39.3	2.284	3.162	10.9	22.2	144 E	—	59
7 25	19 30.29	−56 26.6	2.283	3.147	11.4	22.2	142 E	—	60
7 30	19 22.44	−56 5.9	2.287	3.132	12.1	22.2	140 E	—	60
8 4	19 15.17	−55 37.6	2.297	3.116	12.8	22.2	137 E	—	60
8 9	19 8.66	−55 2.7	2.312	3.101	13.7	22.3	134 E	—	61
8 14	19 3.04	−54 21.9	2.332	3.085	14.5	22.3	130 E	—	62

508905 2003 WX_{87}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	20 25.98	−23 32.7	1.712	2.614	12.7	22.2	145 W	21	88
6 30	20 18.78	−24 51.6	1.601	2.566	9.0	21.9	157 W	20	89
7 10	20 8.67	−26 19.2	1.514	2.517	4.9	21.5	168 W	19	90
7 20	19 56.27	−27 48.3	1.454	2.466	2.9	21.3	173 E	17	88
7 30	19 42.77	−29 10.5	1.423	2.414	6.8	21.4	164 E	16	87
8 9	19 29.71	−30 18.8	1.418	2.360	11.8	21.5	152 E	15	86

461419 2001 UH_{1}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	20 27.18	−50 45.3	1.980	2.834	13.3	21.5	140 W	—	65
6 25	20 21.88	−51 35.8	1.963	2.841	12.5	21.5	143 W	—	64
6 30	20 15.69	−52 21.4	1.952	2.847	11.8	21.4	145 W	—	64
7 5	20 8.73	−53 1.0	1.947	2.853	11.2	21.4	147 W	—	63
7 10	20 1.19	−53 33.4	1.948	2.859	11.0	21.4	148 W	—	62
7 15	19 53.26	−53 57.7	1.955	2.865	11.0	21.4	147 W	—	62
7 20	19 45.20	−54 13.4	1.968	2.870	11.3	21.5	146 E	—	62
7 25	19 37.26	−54 20.3	1.987	2.875	11.9	21.5	144 E	—	62
7 30	19 29.71	−54 18.7	2.012	2.880	12.6	21.6	142 E	—	62
8 4	19 22.77	−54 9.2	2.042	2.884	13.4	21.6	139 E	—	62
8 9	19 16.60	−53 52.6	2.077	2.889	14.3	21.7	135 E	—	62
8 14	19 11.34	−53 29.8	2.117	2.893	15.1	21.8	132 E	—	63

414960 2011 CS_{4}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	20 33.60	−20 5.5	0.683	1.615	22.2	21.2	143 W	25	84
6 30	20 29.16	−18 48.6	0.594	1.571	16.8	20.6	153 W	26	83
7 10	20 19.31	−17 21.7	0.520	1.525	10.1	20.0	165 W	28	81
7 20	20 4.31	−15 41.2	0.463	1.478	3.6	19.4	175 W	29	80
7 25	19 55.36	−14 45.4	0.442	1.455	5.1	19.4	173 E	30	79
7 30	19 45.94	−13 46.4	0.424	1.432	9.4	19.4	167 E	31	78
8 4	19 36.47	−12 45.0	0.411	1.408	14.2	19.5	160 E	32	77
8 9	19 27.42	−11 42.4	0.402	1.385	19.2	19.6	153 E	33	76
8 14	19 19.19	−10 39.9	0.396	1.361	24.1	19.7	147 E	34	75
8 19	19 12.19	− 9 39.1	0.393	1.338	28.9	19.8	140 E	35	74
8 24	19 6.72	− 8 40.7	0.393	1.316	33.4	19.9	134 E	36	73
8 29	19 2.95	− 7 45.2	0.394	1.293	37.5	19.9	129 E	37	72
9 8	19 0.71	− 6 2.9	0.400	1.250	44.9	20.1	119 E	39	70
9 18	19 5.34	− 4 29.6	0.406	1.210	50.9	20.2	111 E	41	68
9 28	19 16.37	− 2 59.3	0.412	1.174	55.8	20.3	104 E	42	67
10 3	19 24.06	− 2 13.2	0.413	1.157	57.9	20.4	102 E	43	66
10 8	19 33.09	− 1 25.5	0.414	1.142	59.7	20.4	99 E	44	65*
10 13	19 43.43	− 0 35.7	0.414	1.128	61.3	20.4	97 E	44	64*
10 18	19 55.04	+ 0 16.8	0.413	1.116	62.6	20.4	96 E	45	63*
10 28	20 22.05	+ 2 12.2	0.409	1.097	64.7	20.5	93 E	47	60*
11 7	20 53.98	+ 4 22.6	0.404	1.086	65.8	20.4	92 E	49	57*
11 17	21 30.90	+ 6 46.9	0.400	1.082	65.9	20.4	92 E	52	53*
11 27	22 12.78	+ 9 21.5	0.399	1.087	64.9	20.4	94 E	54	51*
12 2	22 35.39	+10 39.9	0.401	1.093	64.1	20.4	94 E	56	49*
12 7	22 58.96	+11 57.2	0.405	1.100	63.1	20.4	95 E	57	48*
12 12	23 23.30	+13 11.6	0.411	1.109	61.9	20.4	97 E	58	47*
12 17	23 48.19	+14 21.7	0.420	1.120	60.5	20.4	98 E	59	46*
12 22	0 13.38	+15 26.3	0.432	1.133	59.1	20.5	99 E	60	45*
12 27	0 38.56	+16 24.3	0.447	1.147	57.6	20.5	100 E	61	45*
1 1	1 3.47	+17 14.9	0.466	1.163	56.2	20.6	101 E	62	44*
1 6	1 27.87	+17 58.0	0.487	1.180	54.8	20.7	101 E	63	44*
1 11	1 51.59	+18 33.7	0.513	1.198	53.5	20.8	102 E	64	44*
1 16	2 14.51	+19 2.8	0.541	1.217	52.3	20.9	102 E	64	43*

523616 2007 LC_{15}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	20 34.79	−19 28.6	1.052	1.960	18.3	21.1	143 W	26	83
6 25	20 28.15	−20 52.5	0.987	1.932	15.6	20.9	149 W	24	85
6 30	20 19.63	−22 28.6	0.927	1.902	12.4	20.6	156 W	23	86
7 5	20 9.09	−24 15.9	0.874	1.871	8.9	20.3	163 W	21	88

523616 2007 LC_{15} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 10	19 56.41	−26 12.4	0.828	1.839	5.3	20.0	170 W	19	90
7 15	19 41.60	−28 14.3	0.791	1.804	3.8	19.7	173 W	17	88
7 20	19 24.85	−30 16.6	0.763	1.769	7.0	19.8	168 E	15	86
7 25	19 6.56	−32 13.4	0.743	1.732	11.8	19.9	160 E	13	84
7 30	18 47.35	−33 59.2	0.732	1.693	16.9	20.0	151 E	11	82
8 4	18 27.98	−35 30.2	0.729	1.653	22.1	20.1	142 E	9	80
8 9	18 9.20	−36 44.7	0.733	1.611	27.0	20.2	134 E	8	79
8 14	17 51.70	−37 43.1	0.743	1.567	31.7	20.3	126 E	7	78
8 19	17 35.98	−38 27.7	0.757	1.521	36.0	20.4	118 E	7	78
8 24	17 22.33	−39 1.8	0.774	1.473	40.0	20.5	111 E	6*	77
8 29	17 10.83	−39 28.7	0.792	1.423	43.6	20.5	104 E	5*	77
9 3	17 1.38	−39 51.2	0.810	1.371	46.9	20.6	97 E	4*	76
9 8	16 53.79	−40 11.6	0.827	1.317	49.9	20.6	91 E	3*	75*
9 13	16 47.85	−40 31.6	0.843	1.261	52.7	20.7	86 E	2*	71*
9 18	16 43.30	−40 52.2	0.855	1.202	55.4	20.7	80 E	1*	67*
9 23	16 39.85	−41 14.2	0.863	1.141	58.2	20.7	75 E	—	63*
9 28	16 37.19	−41 37.7	0.866	1.076	61.0	20.6	70 E	—	59*
10 3	16 34.93	−42 2.4	0.863	1.009	64.0	20.6	65 E	—	54*
10 8	16 32.66	−42 27.4	0.855	0.939	67.5	20.5	60 E	—	50*
10 13	16 29.83	−42 50.7	0.840	0.866	71.6	20.4	55 E	—	45*
10 18	16 25.72	−43 9.0	0.817	0.790	76.6	20.3	50 E	—	40*
10 20	16 23.48	−43 13.5	0.806	0.759	79.0	20.3	48 E	—	38*
10 22	16 20.80	−43 15.5	0.794	0.727	81.6	20.3	46 E	—	36*
10 24	16 17.57	−43 14.0	0.781	0.695	84.5	20.2	44 E	—	34*
10 26	16 13.68	−43 8.0	0.767	0.663	87.8	20.2	42 E	—	31*
10 28	16 9.03	−42 55.9	0.752	0.630	91.5	20.2	39 E	—	29*
10 30	16 3.52	−42 35.7	0.736	0.597	95.7	20.2	37 E	—	26*
11 1	15 57.03	−42 4.8	0.720	0.564	100.5	20.3	34 E	—	23*
11 3	15 49.51	−41 20.0	0.704	0.532	105.9	20.4	31 E	—	20*
11 5	15 40.96	−40 17.7	0.689	0.500	112.1	20.6	28 E	—	16*
11 7	15 31.48	−38 53.5	0.676	0.469	118.9	20.9	24 E	—	13*
11 9	15 21.33	−37 3.3	0.665	0.439	126.4	21.3	21 E	—	8*

494713 2005 OU_2

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	20 53.90	+19 53.1	0.848	1.605	33.8	21.2	119 W	65	44
6 25	20 49.21	+18 59.2	0.786	1.591	32.2	20.9	123 W	64	45
6 30	20 42.81	+17 40.3	0.725	1.576	30.2	20.7	129 W	63	46
7 5	20 34.52	+15 49.9	0.668	1.561	27.6	20.4	135 W	61	48
7 10	20 24.21	+13 20.9	0.616	1.544	24.6	20.1	141 W	58	51
7 15	20 11.80	+10 6.0	0.569	1.526	21.1	19.8	147 W	55	54
7 20	19 57.36	+ 5 59.8	0.529	1.508	17.6	19.5	153 E	51	58
7 25	19 41.12	+ 1 1.3	0.498	1.488	15.2	19.3	157 E	46	63
7 30	19 23.56	− 4 41.9	0.478	1.468	15.5	19.2	157 E	40	69
8 1	19 16.30	− 7 8.3	0.473	1.459	16.6	19.2	156 E	38	71
8 3	19 8.97	− 9 37.8	0.470	1.450	18.2	19.2	154 E	35	74
8 5	19 1.62	−12 8.9	0.469	1.442	20.1	19.3	151 E	33	76
8 7	18 54.31	−14 40.1	0.469	1.433	22.3	19.3	148 E	30	79
8 9	18 47.06	−17 9.9	0.472	1.424	24.6	19.4	144 E	28	81
8 11	18 39.94	−19 36.8	0.476	1.414	26.9	19.5	141 E	25	84
8 13	18 32.99	−21 59.8	0.482	1.405	29.3	19.5	137 E	23	86
8 15	18 26.24	−24 17.8	0.489	1.396	31.7	19.6	134 E	21	88
8 17	18 19.74	−26 30.1	0.497	1.386	34.0	19.7	130 E	18	89
8 19	18 13.51	−28 36.3	0.507	1.376	36.2	19.8	127 E	16	87
8 24	17 59.30	−33 23.6	0.536	1.351	41.2	20.0	118 E	12	83
8 29	17 47.20	−37 32.0	0.571	1.325	45.4	20.2	111 E	7	78
9 3	17 37.25	−41 6.1	0.608	1.298	48.9	20.4	104 E	4*	75
9 8	17 29.35	−44 11.8	0.646	1.271	51.7	20.6	98 E	—	72
9 13	17 23.39	−46 55.0	0.685	1.242	54.0	20.7	93 E	—	69*
9 18	17 19.20	−49 20.9	0.723	1.213	55.9	20.8	88 E	—	65*
9 23	17 16.58	−51 33.6	0.759	1.183	57.3	20.9	83 E	—	61*
9 28	17 15.33	−53 36.6	0.792	1.153	58.6	21.0	79 E	—	57*
10 3	17 15.25	−55 32.1	0.822	1.123	59.6	21.1	75 E	—	54*
10 8	17 16.16	−57 22.2	0.848	1.092	60.5	21.1	72 E	—	50*
10 13	17 17.91	−59 8.1	0.869	1.061	61.3	21.1	69 E	—	47*
10 18	17 20.36	−60 50.9	0.885	1.029	62.2	21.1	66 E	—	44*
10 23	17 23.33	−62 31.5	0.896	0.999	63.1	21.1	63 E	—	41*
10 28	17 26.62	−64 10.2	0.901	0.968	64.1	21.1	61 E	—	39*
11 2	17 30.01	−65 47.1	0.900	0.939	65.3	21.0	59 E	—	36*
11 7	17 33.26	−67 21.8	0.892	0.910	66.7	21.0	58 E	—	34*
11 12	17 36.06	−68 53.8	0.877	0.883	68.4	21.0	56 E	—	32*
11 17	17 38.06	−70 22.2	0.856	0.858	70.5	20.9	55 E	—	29*
11 22	17 38.72	−71 45.2	0.827	0.835	72.9	20.8	54 E	—	28*
11 27	17 37.44	−73 0.3	0.790	0.815	75.8	20.8	53 E	—	26*
12 2	17 33.58	−74 3.7	0.747	0.799	79.1	20.7	53 E	—	24*
12 7	17 26.69	−74 49.8	0.698	0.786	82.9	20.7	52 E	—	22*
12 12	17 16.85	−75 11.5	0.642	0.778	87.2	20.7	52 W	—	20*
12 17	17 4.97	−74 59.2	0.581	0.774	92.0	20.6	52 W	—	22*
12 22	16 53.00	−74 0.1	0.517	0.775	97.2	20.6	51 W	—	24*
12 27	16 43.53	−71 56.3	0.449	0.780	103.0	20.6	51 W	—	26*
1 1	16 38.75	−68 20.4	0.380	0.790	109.3	20.6	49 W	—	29*

494713 2005 OU_2 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 6	16 39.63	−62 24.5	0.313	0.803	116.3	20.7	47 W	—	31*
1 11	16 45.78	−52 43.1	0.252	0.821	123.8	20.8	44 W	—	34*
1 16	16 56.02	−37 4.2	0.203	0.841	129.8	21.0	41 W	3*	35*

511108 2013 WE

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	20 54.09	−18 11.4	1.481	2.337	16.9	21.4	138 W	27	82
6 30	20 51.35	−20 13.6	1.370	2.300	13.3	21.1	149 W	25	84
7 10	20 45.53	−22 41.8	1.281	2.262	9.0	20.7	160 W	22	87
7 20	20 36.82	−25 28.7	1.216	2.224	4.6	20.4	170 W	20	89
7 25	20 31.59	−26 55.4	1.194	2.205	3.6	20.2	172 W	18	89
7 30	20 25.99	−28 21.7	1.179	2.186	4.7	20.3	170 E	17	88
8 4	20 20.20	−29 45.6	1.171	2.166	7.0	20.3	165 E	15	86
8 9	20 14.41	−31 5.3	1.169	2.147	9.6	20.4	159 E	14	85
8 14	20 8.86	−32 19.3	1.173	2.128	12.3	20.5	153 E	13	84
8 19	20 3.76	−33 26.4	1.183	2.108	14.9	20.6	148 E	12	83
8 24	19 59.31	−34 26.1	1.199	2.089	17.4	20.7	142 E	11	82
8 29	19 55.70	−35 18.0	1.219	2.070	19.7	20.8	136 E	10	81
9 3	19 53.06	−36 2.2	1.243	2.050	21.8	20.9	131 E	9	80
9 8	19 51.46	−36 39.1	1.270	2.031	23.7	21.0	126 E	8	79
9 13	19 50.96	−37 9.0	1.300	2.012	25.4	21.1	121 E	8	79
9 18	19 51.59	−37 32.5	1.333	1.993	26.9	21.1	116 E	7	78
9 23	19 53.35	−37 49.9	1.367	1.974	28.1	21.2	112 E	7	78
9 28	19 56.20	−38 1.8	1.402	1.955	29.2	21.3	108 E	7	78
10 3	20 0.10	−38 8.4	1.438	1.937	30.1	21.3	104 E	7	78
10 8	20 4.98	−38 10.1	1.474	1.918	30.9	21.4	100 E	7	78
10 13	20 10.78	−38 6.9	1.511	1.900	31.5	21.4	96 E	7	78
10 18	20 17.44	−37 59.0	1.547	1.882	31.9	21.5	93 E	7	78*

477519 2010 DJ_{56}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	21 31.17	+26 52.3	0.901	1.548	38.8	21.5	108 W	72*	37
6 25	21 31.21	+27 0.9	0.854	1.544	37.9	21.3	111 W	72	37
6 30	21 30.14	+26 56.6	0.806	1.539	36.9	21.2	115 W	72	37
7 5	21 27.86	+26 36.6	0.760	1.533	35.6	21.0	119 W	72	37
7 10	21 24.30	+25 57.5	0.714	1.527	34.0	20.8	123 W	71	38
7 15	21 19.39	+24 55.1	0.670	1.520	32.1	20.6	127 W	70	39
7 20	21 13.12	+23 24.5	0.628	1.512	29.8	20.4	132 W	68	41
7 25	21 5.55	+21 20.5	0.590	1.504	27.2	20.2	137 W	66	43
7 30	20 56.85	+18 38.6	0.555	1.495	24.4	19.9	143 W	64	45
8 4	20 47.26	+15 15.9	0.526	1.485	21.6	19.7	147 E	60	49
8 9	20 37.12	+11 12.2	0.502	1.474	19.3	19.5	151 E	56	53
8 14	20 26.82	+ 6 31.6	0.486	1.463	18.3	19.4	153 E	52	57
8 19	20 16.82	+ 1 23.1	0.477	1.451	19.1	19.4	152 E	46	63
8 21	20 13.02	− 0 45.3	0.476	1.446	19.9	19.4	151 E	44	65
8 23	20 9.36	− 2 55.2	0.476	1.441	21.0	19.4	149 E	42	67
8 25	20 5.89	− 5 5.4	0.477	1.436	22.3	19.5	147 E	40	69
8 27	20 2.61	− 7 15.2	0.480	1.431	23.8	19.5	145 E	38	71
8 29	19 59.55	− 9 23.6	0.484	1.425	25.4	19.6	143 E	36	73
8 31	19 56.72	−11 29.8	0.488	1.420	27.0	19.6	140 E	34	75
9 2	19 54.14	−13 33.1	0.494	1.414	28.7	19.7	138 E	31	78
9 4	19 51.81	−15 33.0	0.501	1.409	30.4	19.8	135 E	29	80
9 6	19 49.76	−17 29.1	0.509	1.403	32.0	19.8	132 E	28	81
9 8	19 47.97	−19 20.8	0.518	1.397	33.6	19.9	130 E	26	83
9 13	19 44.73	−23 40.4	0.543	1.382	37.4	20.1	123 E	21	88
9 18	19 43.26	−27 30.6	0.572	1.366	40.8	20.3	117 E	17	88
9 23	19 43.56	−30 52.6	0.603	1.350	43.6	20.4	112 E	14	85
9 28	19 45.53	−33 48.7	0.637	1.333	46.0	20.6	107 E	11	82
10 3	19 49.09	−36 21.9	0.670	1.316	48.0	20.7	102 E	9	80
10 8	19 54.13	−38 34.9	0.704	1.298	49.7	20.9	98 E	6	77
10 13	20 0.55	−40 30.3	0.738	1.280	51.1	21.0	94 E	4	75
10 18	20 8.28	−42 10.1	0.770	1.261	52.2	21.1	90 E	3	74*
10 23	20 17.23	−43 36.3	0.800	1.243	53.1	21.1	87 E	1	72*
10 28	20 27.31	−44 50.2	0.828	1.223	53.8	21.2	84 E	—	70*
11 2	20 38.42	−45 52.9	0.854	1.204	54.5	21.2	81 E	—	68*
11 7	20 50.49	−46 45.1	0.877	1.185	55.0	21.3	78 E	—	66*
11 12	21 3.45	−47 27.5	0.897	1.165	55.6	21.3	76 E	—	64*
11 17	21 17.26	−48 0.3	0.913	1.146	56.0	21.3	74 E	—	63*
11 22	21 31.84	−48 23.9	0.926	1.127	56.5	21.3	72 E	—	62*
11 27	21 47.11	−48 38.2	0.935	1.107	57.0	21.3	70 E	—	60*
12 2	22 3.00	−48 43.2	0.940	1.089	57.6	21.3	69 E	—	59*
12 7	22 19.44	−48 38.6	0.941	1.071	58.2	21.3	67 E	—	59*
12 12	22 36.38	−48 23.9	0.938	1.053	58.9	21.3	66 E	—	58*
12 17	22 53.76	−47 58.7	0.931	1.036	59.7	21.3	65 E	—	57*
12 22	23 11.52	−47 22.2	0.920	1.020	60.7	21.2	65 E	—	57*
12 27	23 29.59	−46 33.7	0.904	1.006	61.7	21.2	64 E	—	57*
1 1	23 47.89	−45 32.2	0.885	0.992	62.9	21.2	64 E	—	57*
1 6	0 6.38	−44 16.1	0.862	0.980	64.2	21.1	64 E	1*	57*
1 11	0 25.02	−42 43.9	0.836	0.969	65.5	21.1	64 E	2*	57*
1 16	0 43.79	−40 53.6	0.807	0.960	67.0	21.0	64 E	4*	58*

337214 2000 *BV*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 20	21 45.71	−38 44.4	2.051	2.806	16.3	21.3	129 W	6*	77
6 25	21 43.81	−39 2.4	1.986	2.785	15.3	21.2	134 W	6	77
6 30	21 41.01	−39 20.8	1.925	2.765	14.3	21.0	138 W	6	77
7 5	21 37.30	−39 38.7	1.869	2.744	13.1	20.9	142 W	5	76
7 10	21 32.67	−39 55.2	1.817	2.723	11.9	20.8	146 W	5	76
7 15	21 27.17	−40 9.1	1.772	2.702	10.7	20.7	150 W	5	76
7 20	21 20.85	−40 19.1	1.732	2.681	9.7	20.6	154 W	5	76
7 25	21 13.83	−40 24.0	1.698	2.659	8.9	20.5	156 W	5	76
7 30	21 6.28	−40 22.7	1.671	2.637	8.5	20.4	157 W	5	76
8 4	20 58.40	−40 14.1	1.651	2.615	8.7	20.4	157 W	5	76
8 9	20 50.39	−39 57.8	1.638	2.593	9.4	20.4	155 E	5	76
8 14	20 42.49	−39 33.5	1.631	2.571	10.6	20.4	152 E	5	76
8 19	20 34.93	−39 1.3	1.630	2.549	12.0	20.4	148 E	6	77
8 24	20 27.92	−38 21.7	1.636	2.526	13.6	20.5	144 E	7	78
8 29	20 21.64	−37 35.5	1.648	2.503	15.2	20.5	140 E	7	78
9 3	20 16.21	−36 43.8	1.665	2.480	16.8	20.6	135 E	8	79
9 8	20 11.72	−35 47.5	1.687	2.457	18.3	20.6	130 E	9	80
9 13	20 8.22	−34 47.6	1.713	2.434	19.8	20.7	125 E	10	81
9 18	20 5.72	−33 45.2	1.743	2.411	21.1	20.8	120 E	11	82
9 23	20 4.22	−32 40.9	1.776	2.388	22.3	20.8	116 E	12	83
9 28	20 3.68	−31 35.5	1.812	2.364	23.3	20.9	111 E	13	84
10 3	20 4.05	−30 29.3	1.850	2.341	24.2	20.9	107 E	15	86
10 8	20 5.27	−29 22.8	1.889	2.317	24.9	21.0	102 E	16	87
10 13	20 7.28	−28 16.1	1.930	2.293	25.5	21.0	98 E	17	88
10 18	20 10.03	−27 9.3	1.971	2.270	26.0	21.0	94 E	18	88*
10 23	20 13.46	−26 2.4	2.013	2.246	26.3	21.1	90 E	19	84*
10 28	20 17.51	−24 55.3	2.054	2.222	26.5	21.1	86 E	20	80*
11 2	20 22.12	−23 48.0	2.095	2.198	26.6	21.1	83 E	21	75*
11 7	20 27.24	−22 40.2	2.135	2.174	26.6	21.1	79 E	22	71*
11 12	20 32.83	−21 31.8	2.175	2.150	26.5	21.1	75 E	23	67*
11 17	20 38.85	−20 22.7	2.213	2.127	26.2	21.2	72 E	25*	62*
11 22	20 45.26	−19 12.7	2.249	2.103	26.0	21.2	69 E	26*	58*
11 27	20 52.03	−18 1.5	2.284	2.079	25.6	21.2	66 E	27*	54*
12 2	20 59.13	−16 49.0	2.317	2.056	25.2	21.1	62 E	28*	50*
12 7	21 6.52	−15 35.2	2.348	2.032	24.7	21.1	59 E	28*	46*
12 12	21 14.19	−14 19.7	2.377	2.009	24.1	21.1	56 E	29*	42*
12 17	21 22.13	−13 2.5	2.404	1.986	23.5	21.1	54 E	30*	38*
12 22	21 30.30	−11 43.5	2.429	1.963	22.9	21.1	51 E	30*	34*
12 27	21 38.70	−10 22.5	2.452	1.940	22.2	21.1	48 E	30*	31*
1 1	21 47.31	− 8 59.5	2.472	1.918	21.5	21.0	46 E	30*	27*
1 6	21 56.13	− 7 34.5	2.490	1.896	20.8	21.0	43 E	30*	24*
1 11	22 5.14	− 6 7.3	2.506	1.874	20.0	21.0	41 E	29*	21*
1 16	22 14.35	− 4 37.9	2.520	1.853	19.3	20.9	38 E	28*	18*

376786 2000 QO_{194}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	21 55.58	−11 47.5	2.162	2.834	17.7	21.5	122 W	33*	76
6 30	21 56.15	−12 11.4	2.002	2.781	15.9	21.2	131 W	33	76
7 10	21 54.41	−12 52.3	1.857	2.728	13.4	20.9	142 W	32	77
7 20	21 50.23	−13 50.6	1.732	2.674	10.1	20.6	152 W	31	78
7 30	21 43.67	−15 4.9	1.629	2.620	6.2	20.2	164 W	30	79
8 4	21 39.62	−15 46.9	1.587	2.592	4.0	20.0	170 W	29	80
8 9	21 35.16	−16 31.0	1.552	2.564	1.8	19.8	175 W	28	81
8 14	21 30.39	−17 16.4	1.524	2.536	1.2	19.7	177 E	28	81
8 19	21 25.43	−18 2.1	1.503	2.508	3.5	19.8	171 E	27	82
8 24	21 20.45	−18 47.1	1.489	2.480	5.9	19.9	165 E	26	83
8 29	21 15.60	−19 30.2	1.481	2.452	8.4	20.0	159 E	25	84
9 3	21 11.03	−20 10.6	1.480	2.423	10.8	20.1	153 E	25	84
9 8	21 6.89	−20 47.6	1.484	2.395	13.1	20.1	147 E	24	85
9 13	21 3.30	−21 20.7	1.494	2.366	15.4	20.2	141 E	24	85
9 18	21 0.38	−21 49.4	1.509	2.337	17.4	20.3	136 E	23	86
9 28	20 56.89	−22 32.8	1.551	2.279	21.1	20.4	125 E	22	87
10 8	20 56.78	−22 57.6	1.604	2.221	24.0	20.5	115 E	22	87
10 18	21 0.12	−23 4.4	1.665	2.163	26.3	20.6	106 E	22	87
10 28	21 6.76	−22 54.2	1.729	2.105	27.9	20.6	98 E	22	87
11 7	21 16.39	−22 27.6	1.793	2.047	29.0	20.7	90 E	23	82*
11 17	21 28.66	−21 45.2	1.855	1.990	29.5	20.7	83 E	23	74*
11 27	21 43.27	−20 47.1	1.912	1.933	29.7	20.7	76 E	24	66*
12 7	21 59.87	−19 33.5	1.964	1.878	29.6	20.7	70 E	25	59*
12 17	22 18.21	−18 4.4	2.009	1.824	29.2	20.7	65 E	27*	52*
12 27	22 38.06	−16 20.1	2.048	1.771	28.7	20.7	60 E	28*	46*
1 6	22 59.23	−14 21.0	2.081	1.721	28.0	20.6	55 E	29*	41*
1 16	23 21.59	−12 7.8	2.108	1.674	27.2	20.6	51 E	29*	36*

506847 2007 US_9

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	21 57.23	−22 22.4	1.146	1.916	25.9	21.5	125 W	22*	86
6 30	22 3.94	−23 1.6	1.045	1.888	23.4	21.2	133 W	22	87
7 10	22 7.53	−23 59.8	0.957	1.861	20.1	20.9	141 W	21	88
7 20	22 7.57	−25 14.8	0.883	1.835	16.1	20.5	150 W	20	89
7 30	22 3.90	−26 39.8	0.826	1.810	11.8	20.2	159 W	18	89

506847 2007 US_9 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 4	22 0.80	−27 22.3	0.805	1.798	10.0	20.0	162 W	18	89
8 9	21 57.01	−28 2.5	0.788	1.786	8.7	19.9	165 W	17	88
8 14	21 52.69	−28 38.5	0.777	1.775	8.4	19.9	165 W	16	87
8 19	21 48.05	−29 8.4	0.770	1.764	9.3	19.9	164 E	16	87
8 24	21 43.38	−29 30.6	0.768	1.754	11.1	19.9	160 E	15	86
8 29	21 38.94	−29 44.0	0.771	1.744	13.4	20.0	156 E	15	86
9 3	21 35.00	−29 48.0	0.778	1.734	15.9	20.1	152 E	15	86
9 8	21 31.75	−29 42.7	0.790	1.725	18.4	20.2	147 E	15	86
9 13	21 29.37	−29 28.3	0.805	1.717	20.9	20.3	143 E	16	87
9 18	21 28.00	−29 5.3	0.824	1.709	23.2	20.4	138 E	16	87
9 23	21 27.70	−28 34.4	0.846	1.701	25.3	20.6	134 E	16	87
9 28	21 28.51	−27 56.5	0.871	1.694	27.2	20.7	129 E	17	88
10 3	21 30.40	−27 12.4	0.899	1.688	28.9	20.8	125 E	18	89
10 8	21 33.30	−26 22.8	0.928	1.682	30.4	20.9	122 E	19	90
10 13	21 37.16	−25 28.2	0.960	1.677	31.7	21.0	118 E	20	89
10 18	21 41.90	−24 29.2	0.993	1.673	32.9	21.1	114 E	21	88
10 23	21 47.44	−23 26.1	1.028	1.669	33.8	21.2	111 E	22	87
10 28	21 53.71	−22 19.4	1.065	1.665	34.6	21.3	108 E	23	86
11 2	22 0.61	−21 9.4	1.103	1.663	35.2	21.4	105 E	24	85
11 7	22 8.06	−19 56.4	1.142	1.661	35.7	21.5	102 E	25	84

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20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	22 0.92	+24 13.1	1.384	1.901	31.3	21.4	104 W	68*	40
6 25	22 2.95	+24 58.6	1.340	1.901	30.8	21.4	107 W	70*	39
6 30	22 4.23	+25 37.9	1.296	1.901	30.2	21.3	110 W	71	38
7 5	22 4.72	+26 9.9	1.253	1.900	29.4	21.2	113 W	71	38
7 10	22 4.39	+26 33.4	1.212	1.900	28.6	21.1	117 W	72	37
7 15	22 3.23	+26 47.0	1.172	1.899	27.5	21.0	120 W	72	37
7 20	22 1.21	+26 49.4	1.133	1.898	26.4	20.9	124 W	72	37
7 25	21 58.37	+26 38.7	1.097	1.897	25.1	20.7	128 W	72	37
7 30	21 54.79	+26 13.7	1.064	1.896	23.6	20.6	131 W	71	38
8 4	21 50.57	+25 33.0	1.034	1.894	22.1	20.5	135 W	71	38
8 9	21 45.84	+24 35.7	1.007	1.892	20.6	20.4	139 W	70	39
8 14	21 40.76	+23 21.3	0.985	1.891	19.1	20.3	142 W	68	41
8 19	21 35.53	+21 49.8	0.968	1.889	17.9	20.2	145 E	67	42
8 24	21 30.39	+20 2.4	0.955	1.886	16.9	20.2	147 E	65	44
8 29	21 25.55	+18 1.0	0.949	1.884	16.4	20.1	148 E	63	46
9 3	21 21.23	+15 48.3	0.948	1.882	16.4	20.1	148 E	61	48
9 8	21 17.57	+13 27.5	0.953	1.879	17.1	20.2	147 E	58	51
9 13	21 14.72	+11 2.3	0.964	1.876	18.2	20.2	144 E	56	53
9 18	21 12.77	+ 8 36.2	0.981	1.873	19.6	20.3	141 E	54	55
9 23	21 11.80	+ 6 12.5	1.003	1.870	21.3	20.4	137 E	51	58
9 28	21 11.81	+ 3 54.2	1.030	1.866	23.0	20.5	133 E	49	60
10 3	21 12.80	+ 1 43.4	1.063	1.863	24.6	20.6	129 E	47	62
10 8	21 14.73	− 0 18.2	1.099	1.859	26.2	20.7	125 E	45	64
10 13	21 17.55	− 2 9.8	1.139	1.855	27.6	20.9	120 E	43	66
10 18	21 21.22	− 3 50.7	1.182	1.852	28.9	21.0	116 E	41	68
10 23	21 25.67	− 5 20.7	1.228	1.847	30.0	21.1	112 E	40	69
10 28	21 30.84	− 6 39.9	1.276	1.843	30.8	21.2	108 E	38	71
11 2	21 36.65	− 7 48.8	1.326	1.839	31.6	21.3	104 E	37	72
11 7	21 43.05	− 8 47.7	1.377	1.834	32.1	21.4	100 E	36	73*
11 12	21 49.97	− 9 37.2	1.429	1.830	32.5	21.5	97 E	35	73*

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20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
6 20	22 6.32	− 8 19.1	1.436	2.115	25.1	21.3	118 W	36*	72
6 30	22 11.87	− 7 47.6	1.303	2.073	23.3	21.0	126 W	37	72
7 10	22 14.96	− 7 32.2	1.182	2.032	20.7	20.6	135 W	37	72
7 20	22 15.22	− 7 36.6	1.075	1.991	17.3	20.3	144 W	37	72
7 30	22 12.45	− 8 3.3	0.983	1.950	12.8	19.9	155 W	37	72
8 9	22 6.80	− 8 52.5	0.911	1.910	7.5	19.4	166 W	36	73
8 14	22 3.06	− 9 24.5	0.882	1.890	4.5	19.2	172 W	36	73
8 19	21 58.88	−10 0.5	0.859	1.870	1.6	18.9	177 W	35	74
8 24	21 54.45	−10 39.3	0.841	1.851	2.4	18.9	176 E	34	75
8 29	21 49.97	−11 19.4	0.829	1.832	5.6	19.1	170 E	34	75
9 3	21 45.68	−11 59.4	0.822	1.813	8.9	19.2	164 E	33	76
9 8	21 41.77	−12 37.8	0.821	1.795	12.2	19.3	158 E	32	77
9 13	21 38.47	−13 13.3	0.824	1.777	15.3	19.4	152 E	32	77
9 18	21 35.94	−13 44.9	0.831	1.759	18.4	19.5	147 E	31	78
9 23	21 34.34	−14 11.5	0.843	1.742	21.2	19.6	141 E	31	78
9 28	21 33.77	−14 32.5	0.858	1.725	23.8	19.7	136 E	30	79
10 8	21 35.87	−14 56.4	0.896	1.693	28.3	19.9	127 E	30	79
10 18	21 42.24	−14 55.3	0.944	1.664	31.9	20.0	118 E	30	79
10 28	21 52.58	−14 29.0	0.997	1.637	34.6	20.2	111 E	31	78
11 7	22 6.31	−13 38.7	1.055	1.613	36.6	20.3	104 E	31	78
11 17	22 22.87	−12 25.9	1.116	1.593	37.9	20.5	98 E	33	76*
11 27	22 41.74	−10 52.1	1.179	1.576	38.7	20.6	93 E	34	72*
12 7	23 2.41	− 8 59.7	1.244	1.563	39.0	20.7	88 E	36	66*
12 17	23 24.51	− 6 51.3	1.311	1.554	39.0	20.8	84 E	38	61*
12 27	23 47.75	− 4 29.7	1.380	1.550	38.7	20.9	80 E	41	55*
1 6	0 11.85	− 1 58.6	1.451	1.549	38.1	21.0	76 E	43	50*
1 16	0 36.67	+ 0 38.8	1.525	1.553	37.3	21.1	73 E	45*	46*