2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
416567 2004 *EB*									
1 2	8 36.50	+47 10.5	3.003	3.868	7.9	23.0	147 W	88	17
1 7	8 31.06	+47 40.6	2.961	3.843	7.4	22.9	150 W	87	16
1 12	8 25.10	+48 7.2	2.926	3.819	7.1	22.9	152 W	87	16
1 17	8 18.71	+48 29.2	2.898	3.794	7.0	22.8	152 W	87	16
1 22	8 12.02	+48 46.2	2.877	3.769	7.2	22.8	151 E	86	15
1 27	8 5.20	+48 57.5	2.864	3.744	7.7	22.8	149 E	86	15
2 1	7 58.40	+49 2.9	2.858	3.718	8.4	22.8	146 E	86	15
2 6	7 51.80	+49 2.3	2.859	3.692	9.3	22.8	143 E	86	15
205284 2000 SQ_{154}									
1 2	8 37.71	+22 28.2	2.197	3.113	7.8	21.6	154 W	67	42
1 7	8 33.24	+22 49.1	2.169	3.114	6.0	21.5	161 W	68	41
1 12	8 28.37	+23 10.1	2.149	3.114	4.2	21.4	167 W	68	41
1 17	8 23.20	+23 30.7	2.136	3.114	2.4	21.3	172 W	69	40
1 22	8 17.84	+23 50.3	2.131	3.113	1.3	21.2	176 W	69	40
1 27	8 12.44	+24 8.4	2.134	3.113	2.4	21.3	173 E	69	40
2 1	8 7.12	+24 24.6	2.144	3.112	4.1	21.4	167 E	69	40
2 6	8 2.03	+24 38.6	2.163	3.111	6.0	21.5	161 E	70	39
2 11	7 57.28	+24 50.2	2.188	3.109	7.8	21.6	155 E	70	39
2 16	7 52.98	+24 59.3	2.221	3.108	9.5	21.7	149 E	70	39
2 21	7 49.20	+25 6.0	2.259	3.106	11.1	21.8	143 E	70	39
303174 2004 FH_{11}									
1 2	8 38.81	−10 57.2	2.420	3.204	12.2	21.8	136 W	34	75
1 12	8 30.36	−11 7.2	2.343	3.191	10.4	21.6	144 W	34	75
1 22	8 20.72	−10 52.8	2.292	3.177	9.1	21.5	149 W	34	75
2 1	8 10.69	−10 13.8	2.268	3.162	8.9	21.5	150 E	35	74
2 11	8 1.19	− 9 12.9	2.273	3.145	9.9	21.5	147 E	36	73
2 21	7 53.03	− 7 55.1	2.304	3.127	11.7	21.6	140 E	37	72
152679 1998 KU_2									
1 2	8 39.16	+11 17.8	2.225	3.121	8.8	21.4	151 W	56	53
1 12	8 29.04	+11 47.6	2.200	3.153	5.3	21.2	163 W	57	52
1 22	8 18.05	+12 24.5	2.205	3.183	2.3	21.1	172 W	57	52
2 1	8 7.15	+13 5.0	2.243	3.212	3.8	21.2	168 E	58	51
2 11	7 57.30	+13 45.6	2.312	3.240	7.0	21.5	156 E	59	50
2 21	7 49.24	+14 23.5	2.410	3.266	10.1	21.7	145 E	59	50
350243 2012 TZ_{78}									
1 2	8 39.67	+16 37.5	1.734	2.647	9.8	21.3	153 W	62	47
1 12	8 30.10	+17 22.1	1.683	2.646	5.4	21.1	165 W	62	47
1 22	8 19.01	+18 11.9	1.661	2.645	0.8	20.7	178 W	63	46
2 1	8 7.61	+19 1.4	1.669	2.642	4.2	21.0	169 E	64	45
2 11	7 57.23	+19 46.0	1.706	2.638	8.8	21.3	156 E	65	44
2 21	7 48.94	+20 22.7	1.769	2.633	12.8	21.5	144 E	65	44
412869 2014 QP_2									
1 2	8 42.50	+17 0.9	1.854	2.762	9.6	22.1	152 W	62	47
1 12	8 33.42	+17 26.9	1.781	2.741	5.5	21.8	165 W	62	47
1 22	8 22.66	+17 57.8	1.736	2.719	1.1	21.4	177 W	63	46
2 1	8 11.29	+18 29.4	1.721	2.696	3.8	21.6	170 E	63	46
2 11	8 0.60	+18 57.7	1.736	2.672	8.3	21.8	157 E	64	45
2 21	7 51.72	+19 20.3	1.777	2.647	12.5	22.0	145 E	64	45
53426 1999 SL_5									
1 2	8 42.61	−12 52.1	1.925	2.705	15.1	21.6	134 W	32	77
1 7	8 37.58	−13 23.5	1.877	2.689	14.2	21.5	138 W	32	77
1 12	8 31.96	−13 48.3	1.833	2.673	13.3	21.4	141 W	31	78
1 17	8 25.84	−14 5.7	1.797	2.656	12.6	21.3	144 W	31	78
1 22	8 19.33	−14 15.1	1.766	2.639	12.1	21.3	146 W	31	78
1 27	8 12.59	−14 16.0	1.742	2.621	11.9	21.2	147 E	31	78
2 1	8 5.79	−14 8.4	1.725	2.602	12.2	21.2	146 E	31	78
2 6	7 59.09	−13 52.5	1.715	2.584	12.7	21.2	145 E	31	78
2 11	7 52.67	−13 28.9	1.711	2.564	13.6	21.2	142 E	32	77
2 16	7 46.68	−12 58.2	1.714	2.544	14.7	21.2	139 E	32	77
2 21	7 41.25	−12 21.6	1.722	2.524	16.0	21.3	135 E	33	76
2 26	7 36.49	−11 40.2	1.735	2.503	17.3	21.3	131 E	33	76
3 2	7 32.50	−10 55.1	1.754	2.481	18.6	21.3	127 E	34	75
3 7	7 29.33	−10 7.5	1.776	2.459	19.8	21.4	123 E	35	74
3 12	7 27.00	− 9 18.7	1.802	2.437	21.0	21.4	118 E	36	73
3 17	7 25.51	− 8 29.5	1.831	2.413	22.1	21.5	114 E	37	72
360192 1991 *FB*									
1 2	8 43.03	+33 36.6	1.418	2.335	11.2	22.3	152 W	79	30
1 7	8 37.56	+34 17.1	1.364	2.302	9.5	22.1	157 W	79	30
1 12	8 31.05	+34 56.6	1.316	2.269	8.0	21.9	161 W	80	29
1 17	8 23.60	+35 33.4	1.274	2.236	7.0	21.8	164 W	81	28
1 22	8 15.37	+36 5.8	1.240	2.202	7.2	21.7	164 W	81	28
1 27	8 6.59	+36 31.9	1.213	2.168	8.4	21.7	161 E	82	27
2 1	7 57.57	+36 50.5	1.192	2.133	10.5	21.7	157 E	82	27
2 6	7 48.63	+37 0.8	1.179	2.098	13.0	21.7	151 E	82	27

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
360192 1991 *FB* *(continuation)*									
2 11	7 40.11	+37 2.4	1.171	2.063	15.6	21.8	146 E	82	27
2 16	7 32.28	+36 55.8	1.169	2.027	18.3	21.8	140 E	82	27
2 21	7 25.42	+36 41.5	1.172	1.991	20.9	21.9	134 E	82	27
5324 Lyapunov									
1 2	8 44.38	+39 3.9	3.614	4.495	6.2	22.0	150 W	84	25
1 7	8 39.90	+39 22.1	3.599	4.505	5.4	22.0	154 W	84	25
1 12	8 35.14	+39 38.0	3.592	4.516	4.8	22.0	157 W	85	24
1 17	8 30.17	+39 51.0	3.592	4.527	4.4	21.9	159 W	85	24
1 22	8 25.08	+40 1.0	3.601	4.537	4.3	21.9	160 W	85	24
1 27	8 19.98	+40 7.6	3.617	4.547	4.6	22.0	158 E	85	24
2 1	8 14.96	+40 10.7	3.641	4.557	5.1	22.0	156 E	85	24
2 6	8 10.12	+40 10.3	3.673	4.566	5.8	22.1	152 E	85	24
2 11	8 5.54	+40 6.5	3.712	4.576	6.6	22.2	148 E	85	24
2 16	8 1.29	+39 59.5	3.757	4.585	7.4	22.2	143 E	85	24
2 21	7 57.44	+39 49.6	3.810	4.594	8.3	22.3	138 E	85	24
259464 2003 SN_{117}									
1 2	8 44.45	+23 36.3	2.035	2.945	8.7	21.8	153 W	69	40
1 7	8 40.12	+23 55.0	1.998	2.937	6.9	21.7	159 W	69	40
1 12	8 35.29	+24 13.9	1.967	2.928	5.0	21.5	165 W	69	40
1 17	8 30.05	+24 32.3	1.945	2.919	3.2	21.4	171 W	70	39
1 22	8 24.53	+24 49.6	1.929	2.910	1.9	21.3	174 W	70	39
1 27	8 18.88	+25 5.2	1.922	2.901	2.5	21.3	173 E	70	39
2 1	8 13.24	+25 18.6	1.922	2.892	4.2	21.4	167 E	70	39
2 6	8 7.78	+25 29.4	1.930	2.882	6.2	21.5	162 E	70	39
2 11	8 2.64	+25 37.6	1.945	2.872	8.2	21.6	156 E	71	38
2 16	7 57.94	+25 42.9	1.966	2.862	10.1	21.7	150 E	71	38
2 21	7 53.79	+25 45.4	1.994	2.852	11.8	21.8	144 E	71	38
514756 2007 EK_{39}									
1 2	8 45.56	−27 36.2	1.060	1.786	27.9	21.6	122 W	17	88
1 7	8 41.85	−27 51.1	1.028	1.783	26.9	21.5	125 W	17	88
1 12	8 37.32	−27 50.5	0.998	1.780	25.9	21.4	128 W	17	88
1 17	8 32.08	−27 32.5	0.972	1.776	24.9	21.3	131 W	17	88
1 22	8 26.33	−26 55.7	0.949	1.773	23.9	21.3	133 W	18	89
1 27	8 20.30	−25 59.1	0.929	1.769	23.1	21.2	135 E	19	90
2 1	8 14.25	−24 42.7	0.914	1.766	22.5	21.1	137 E	20	89
2 6	8 8.48	−23 7.2	0.903	1.762	22.1	21.1	138 E	22	87
2 11	8 3.23	−21 14.6	0.897	1.758	22.1	21.1	138 E	24	85
2 16	7 58.70	−19 7.2	0.895	1.754	22.5	21.1	137 E	26	83
2 21	7 55.08	−16 48.1	0.899	1.750	23.2	21.1	136 E	28	81
2 26	7 52.51	−14 20.9	0.908	1.745	24.2	21.1	134 E	31	78
3 2	7 51.05	−11 49.2	0.921	1.741	25.4	21.2	131 E	33	76
3 7	7 50.75	− 9 16.7	0.939	1.736	26.7	21.3	128 E	36	73
3 12	7 51.58	− 6 46.3	0.961	1.732	28.1	21.4	125 E	38	71
3 17	7 53.50	− 4 20.6	0.987	1.727	29.5	21.4	121 E	41	68
197594 2004 HD_{49}									
1 2	8 45.91	+23 10.4	1.871	2.782	9.3	21.7	153 W	68	41
1 7	8 41.29	+23 33.8	1.848	2.788	7.4	21.6	159 W	69	40
1 12	8 36.18	+23 57.2	1.832	2.793	5.3	21.5	165 W	69	40
1 17	8 30.71	+24 19.9	1.823	2.798	3.3	21.4	170 W	69	40
1 22	8 25.01	+24 41.3	1.822	2.803	1.9	21.3	175 W	70	39
1 27	8 19.25	+25 0.6	1.829	2.808	2.5	21.3	173 E	70	39
2 1	8 13.58	+25 17.5	1.843	2.813	4.3	21.5	168 E	70	39
2 6	8 8.18	+25 31.4	1.864	2.817	6.3	21.6	162 E	71	38
2 11	8 3.17	+25 42.4	1.893	2.821	8.3	21.7	156 E	71	38
2 16	7 58.68	+25 50.3	1.928	2.825	10.2	21.8	150 E	71	38
2 21	7 54.79	+25 55.3	1.969	2.829	11.9	22.0	144 E	71	38
450979 2008 SO_{28}									
1 2	8 45.95	+17 25.5	1.935	2.839	9.5	22.2	152 W	62	47
1 12	8 36.30	+17 56.0	1.898	2.856	5.4	22.0	164 W	63	46
1 22	8 25.38	+18 29.3	1.890	2.873	1.1	21.7	177 W	63	46
2 1	8 14.28	+19 1.3	1.913	2.888	3.3	21.9	170 E	64	45
2 11	8 4.17	+19 28.6	1.966	2.903	7.4	22.2	158 E	64	45
2 21	7 55.96	+19 49.4	2.046	2.916	11.0	22.5	146 E	65	44
415752 2000 OB_{22}									
1 2	8 47.34	+ 4 36.2	2.243	3.104	10.3	21.8	146 W	50	59
1 12	8 38.68	+ 5 25.1	2.223	3.151	7.1	21.6	157 W	50	59
1 22	8 29.12	+ 6 26.6	2.234	3.197	4.3	21.6	166 W	51	58
2 1	8 19.54	+ 7 36.6	2.275	3.242	3.9	21.6	167 E	53	56
2 11	8 10.81	+ 8 49.9	2.348	3.286	6.3	21.8	159 E	54	55
2 21	8 3.63	+10 1.7	2.450	3.329	9.1	22.1	148 E	55	54
390572 2001 HJ_{21}									
1 2	8 50.21	+11 55.2	1.804	2.693	11.0	22.0	149 W	57	52
1 12	8 41.63	+12 21.0	1.733	2.681	7.0	21.8	161 W	57	52
1 22	8 31.29	+12 57.5	1.689	2.667	3.0	21.5	172 W	58	51
2 1	8 20.23	+13 40.9	1.675	2.653	3.4	21.5	171 E	59	50

390572 2001 HJ_{21} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 11	8 9.70	+14 26.3	1.691	2.637	7.6	21.7	159 E	59	50
2 21	8 0.85	+15 9.7	1.734	2.621	11.8	21.9	147 E	60	49

194175 2001 TB_{51}

1 2	8 51.82	+11 3.8	1.918	2.801	10.7	21.5	148 W	56	53
1 12	8 43.10	+11 30.9	1.871	2.815	6.9	21.3	160 W	57	52
1 22	8 32.96	+12 8.0	1.851	2.828	3.1	21.1	171 W	57	52
2 1	8 22.43	+12 51.1	1.862	2.840	3.1	21.1	171 E	58	51
2 11	8 12.62	+13 35.9	1.904	2.851	6.8	21.4	160 E	59	50
2 21	8 4.48	+14 18.4	1.973	2.861	10.5	21.6	148 E	59	50

353987 2000 OQ_{19}

1 2	8 51.94	+14 0.2	2.136	3.022	9.6	21.9	149 W	59	50
1 12	8 43.71	+14 45.8	2.077	3.025	6.0	21.7	161 W	60	49
1 22	8 34.07	+15 38.7	2.047	3.027	2.1	21.4	173 W	61	48
2 1	8 23.90	+16 34.4	2.049	3.028	2.4	21.4	173 E	62	47
2 11	8 14.26	+17 28.2	2.081	3.029	6.3	21.7	160 E	62	47
2 21	8 6.05	+18 16.6	2.143	3.028	9.9	21.9	148 E	63	46

319988 2007 DK

1 2	8 56.00	+16 9.6	1.203	2.107	14.0	22.3	149 W	61	48
1 12	8 40.47	+16 44.5	1.126	2.085	8.0	21.9	163 W	62	47
1 22	8 21.30	+17 26.6	1.077	2.060	1.5	21.4	177 W	62	47
2 1	8 0.53	+18 7.5	1.059	2.031	6.3	21.6	167 E	63	46
2 11	7 40.90	+18 40.2	1.071	1.998	13.3	21.9	152 E	64	45
2 21	7 24.75	+19 2.2	1.109	1.961	19.6	22.2	138 E	64	45

316781 1999 TJ_{150}

1 2	8 56.01	+11 25.2	1.689	2.570	12.0	21.7	147 W	56	53
1 12	8 47.08	+11 55.3	1.643	2.586	7.7	21.5	159 W	57	52
1 22	8 36.49	+12 36.4	1.625	2.601	3.5	21.3	171 W	58	51
2 1	8 25.39	+13 23.8	1.636	2.615	3.1	21.3	172 E	58	51
2 11	8 15.07	+14 12.3	1.677	2.628	7.2	21.5	161 E	59	50
2 21	8 6.62	+14 57.4	1.745	2.640	11.2	21.8	149 E	60	49

398465 2011 UP_{108}

1 2	8 59.04	+13 5.0	2.223	3.095	9.9	22.3	147 W	58	51
1 12	8 50.97	+13 49.3	2.166	3.106	6.4	22.1	159 W	59	50
1 22	8 41.47	+14 41.3	2.139	3.115	2.7	21.9	172 W	60	49
2 1	8 31.40	+15 36.8	2.142	3.124	1.9	21.9	174 E	61	48
2 11	8 21.75	+16 31.2	2.177	3.131	5.5	22.1	162 E	62	47
2 21	8 13.39	+17 20.7	2.242	3.137	9.1	22.3	150 E	62	47

277175 2005 OS_{14}

1 2	8 59.13	+21 18.2	1.810	2.703	10.7	21.5	149 W	66	43
1 7	8 54.61	+21 33.4	1.783	2.709	8.7	21.4	155 W	67	42
1 12	8 49.54	+21 49.2	1.764	2.715	6.5	21.3	162 W	67	42
1 17	8 44.03	+22 4.9	1.751	2.721	4.4	21.2	168 W	67	42
1 22	8 38.23	+22 19.9	1.746	2.726	2.3	21.0	174 W	67	42
1 27	8 32.29	+22 33.5	1.749	2.732	1.4	21.0	176 E	68	41
2 1	8 26.39	+22 45.3	1.759	2.737	3.1	21.1	171 E	68	41
2 6	8 20.69	+22 54.9	1.776	2.742	5.2	21.3	165 E	68	41
2 11	8 15.35	+23 1.9	1.801	2.746	7.3	21.4	159 E	68	41
2 16	8 10.48	+23 6.4	1.833	2.751	9.3	21.5	153 E	68	41
2 21	8 6.20	+23 8.4	1.871	2.755	11.2	21.7	147 E	68	41

451210 2009 VZ_{78}

1 2	8 59.62	+23 3.5	1.602	2.500	11.5	21.5	150 W	68	41
1 7	8 54.61	+23 15.2	1.581	2.509	9.3	21.4	156 W	68	41
1 12	8 49.00	+23 26.9	1.566	2.519	7.0	21.3	162 W	68	41
1 17	8 42.94	+23 37.8	1.558	2.528	4.7	21.2	168 W	69	40
1 22	8 36.58	+23 47.3	1.558	2.538	2.6	21.1	173 W	69	40
1 27	8 30.12	+23 54.7	1.564	2.547	2.0	21.0	175 E	69	40
2 1	8 23.77	+23 59.6	1.579	2.555	3.8	21.2	170 E	69	40
2 6	8 17.70	+24 1.7	1.601	2.564	6.0	21.3	164 E	69	40
2 11	8 12.08	+24 1.0	1.630	2.572	8.2	21.5	158 E	69	40
2 16	8 7.06	+23 57.6	1.665	2.580	10.3	21.6	152 E	69	40
2 21	8 2.72	+23 51.6	1.707	2.588	12.3	21.8	146 E	69	40

267504 2002 KJ_{9}

1 2	9 0.04	+23 31.9	1.924	2.816	10.2	21.5	149 W	69	40
1 7	8 55.84	+24 2.9	1.886	2.810	8.4	21.4	155 W	69	40
1 12	8 51.03	+24 34.7	1.854	2.803	6.4	21.3	161 W	70	39
1 17	8 45.71	+25 6.4	1.829	2.797	4.5	21.1	167 W	70	39
1 22	8 39.99	+25 37.3	1.812	2.790	2.9	21.0	172 W	71	38
1 27	8 34.03	+26 6.5	1.803	2.782	2.6	21.0	173 E	71	38
2 1	8 27.98	+26 33.0	1.802	2.775	3.9	21.1	169 E	72	37
2 6	8 22.03	+26 56.4	1.808	2.767	5.8	21.2	163 E	72	37
2 11	8 16.34	+27 16.2	1.821	2.759	7.9	21.3	158 E	72	37
2 16	8 11.05	+27 32.1	1.841	2.750	9.8	21.4	152 E	73	36
2 21	8 6.29	+27 44.2	1.868	2.742	11.7	21.5	146 E	73	36

351223 2004 PG_{7}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 2	9 1.80	+20 35.9	2.007	2.892	10.2	21.7	149 W	66	43
1 12	8 52.85	+20 59.1	1.942	2.889	6.4	21.4	161 W	66	43
1 22	8 42.12	+21 23.2	1.905	2.884	2.3	21.2	173 W	66	43
2 1	8 30.64	+21 43.9	1.898	2.878	2.5	21.2	173 E	67	42
2 11	8 19.61	+21 57.7	1.923	2.872	6.6	21.4	161 E	67	42
2 21	8 10.12	+22 2.9	1.975	2.864	10.4	21.6	148 E	67	42

494997 2010 HY_{113}

1 2	9 2.08	+ 8 39.6	1.642	2.509	13.1	22.1	145 W	54	55
1 12	8 54.47	+ 8 45.3	1.545	2.476	9.3	21.8	156 W	54	55
1 22	8 44.47	+ 9 6.6	1.473	2.441	5.3	21.5	167 W	54	55
2 1	8 33.03	+ 9 41.3	1.429	2.406	3.8	21.3	171 E	55	54
2 11	8 21.51	+10 25.3	1.414	2.370	7.6	21.5	162 E	55	54
2 21	8 11.29	+11 13.3	1.425	2.334	12.3	21.6	150 E	56	53

164221 2004 QE_{20}

1 2	9 2.46	+11 3.1	0.746	1.654	19.7	21.5	146 W	56	53
1 12	8 48.11	+10 43.7	0.722	1.676	12.5	21.3	158 W	56	53
1 22	8 30.80	+10 43.8	0.719	1.697	5.8	21.0	170 W	56	53
2 1	8 13.31	+10 58.7	0.740	1.716	6.8	21.1	168 E	56	53
2 11	7 58.55	+11 21.7	0.784	1.734	13.2	21.5	156 E	56	53
2 21	7 48.34	+11 46.7	0.849	1.750	19.3	21.9	144 E	57	52

363831 2005 PY_{16}

1 2	9 2.84	+ 9 26.9	1.207	2.089	15.8	22.1	145 W	54	55
1 7	8 56.48	+ 9 59.4	1.202	2.119	12.9	22.0	151 W	55	54
1 12	8 49.53	+10 36.1	1.204	2.148	9.9	21.9	158 W	56	53
1 17	8 42.20	+11 15.8	1.213	2.177	6.9	21.8	165 W	56	53
1 22	8 34.70	+11 57.4	1.228	2.205	4.2	21.7	171 W	57	52
1 27	8 27.28	+12 39.7	1.252	2.233	2.8	21.7	174 E	58	51
2 1	8 20.17	+13 21.5	1.282	2.260	4.0	21.9	171 E	58	51
2 6	8 13.58	+14 1.7	1.320	2.287	6.4	22.1	165 E	59	50
2 11	8 7.67	+14 39.7	1.365	2.313	8.9	22.3	159 E	60	49
2 16	8 2.55	+15 14.7	1.417	2.339	11.2	22.5	153 E	60	49

439936 2001 SS_{37}

1 2	9 5.08	+34 47.1	1.633	2.519	12.0	21.5	148 W	80	29
1 7	8 59.96	+35 19.1	1.619	2.533	10.3	21.4	153 W	80	29
1 12	8 54.17	+35 48.1	1.611	2.546	8.7	21.4	157 W	81	28
1 17	8 47.87	+36 13.0	1.611	2.559	7.4	21.3	160 W	81	28
1 22	8 41.24	+36 32.7	1.617	2.572	6.7	21.3	162 W	82	27
1 27	8 34.49	+36 46.5	1.631	2.585	6.8	21.3	162 W	82	27
2 1	8 27.85	+36 53.9	1.651	2.597	7.6	21.4	160 E	82	27
2 6	8 21.53	+36 55.0	1.679	2.610	8.9	21.5	156 E	82	27
2 11	8 15.72	+36 49.9	1.713	2.622	10.4	21.6	151 E	82	27
2 16	8 10.55	+36 39.3	1.753	2.634	11.9	21.7	147 E	82	27
2 21	8 6.15	+36 23.7	1.799	2.645	13.5	21.9	142 E	81	28
2 26	8 2.57	+36 3.9	1.850	2.657	14.9	22.0	136 E	81	28

483430 2000 QC_{33}

1 2	9 5.49	+22 9.2	1.462	2.355	12.8	21.5	148 W	67	42
1 7	9 1.08	+22 44.4	1.442	2.366	10.4	21.4	154 W	68	41
1 12	8 55.99	+23 20.5	1.429	2.378	8.0	21.3	160 W	68	41
1 17	8 50.36	+23 56.5	1.422	2.389	5.6	21.2	166 W	69	40
1 22	8 44.34	+24 31.2	1.422	2.399	3.5	21.1	171 W	70	39
1 27	8 38.14	+25 3.4	1.429	2.410	2.6	21.1	174 W	70	39
2 1	8 31.97	+25 32.3	1.444	2.420	4.0	21.2	170 E	71	38
2 6	8 26.03	+25 57.2	1.465	2.431	6.1	21.3	165 E	71	38
2 11	8 20.50	+26 17.8	1.494	2.440	8.4	21.5	159 E	71	38
2 16	8 15.54	+26 33.9	1.529	2.450	10.6	21.6	153 E	72	37
2 21	8 11.28	+26 45.6	1.571	2.460	12.6	21.8	147 E	72	37
2 26	8 7.79	+26 53.0	1.617	2.469	14.5	21.9	141 E	72	37

395365 2011 RN_{11}

1 2	9 6.75	+11 17.7	2.069	2.927	11.2	22.4	145 W	56	53
1 12	8 59.11	+11 49.9	1.996	2.925	7.7	22.2	157 W	57	52
1 22	8 49.73	+12 32.8	1.951	2.922	3.8	21.9	169 W	58	51
2 1	8 39.47	+13 22.5	1.936	2.919	1.9	21.8	175 E	58	51
2 11	8 29.38	+14 14.2	1.952	2.914	5.3	22.0	164 E	59	50
2 21	8 20.47	+15 3.6	1.998	2.908	9.2	22.2	152 E	60	49

53319 1999 JM_{8}

1 2	9 7.70	+14 38.5	3.565	4.412	7.2	21.7	146 W	60	49
1 12	9 1.12	+15 16.6	3.476	4.401	4.9	21.5	158 W	60	49
1 22	8 53.45	+15 59.6	3.417	4.388	2.3	21.3	170 W	61	48
2 1	8 45.18	+16 44.7	3.391	4.375	0.5	21.2	178 E	62	47
2 11	8 36.89	+17 29.2	3.398	4.361	3.2	21.4	166 E	62	47
2 21	8 29.15	+18 10.6	3.437	4.345	5.8	21.5	154 E	63	46

440174 2003 YF_{136}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 2	9 8.12	+12 57.1	1.394	2.271	14.4	21.8	145 W	58	51
1 12	8 58.57	+13 17.2	1.362	2.301	9.5	21.6	157 W	58	51
1 22	8 47.01	+13 47.8	1.356	2.331	4.2	21.4	170 W	59	50
2 1	8 34.85	+14 23.7	1.377	2.360	2.4	21.3	174 E	59	50
2 11	8 23.64	+14 59.2	1.427	2.387	7.1	21.7	163 E	60	49
2 21	8 14.64	+15 30.2	1.504	2.414	11.6	22.0	151 E	61	48

323471 2004 LY_{1}

1 2	9 8.51	+12 3.4	2.905	3.750	8.7	21.9	145 W	57	52
1 12	9 1.85	+12 45.3	2.842	3.764	6.0	21.7	156 W	58	51
1 22	8 54.00	+13 34.2	2.807	3.776	3.0	21.5	168 W	59	50
2 1	8 45.57	+14 27.0	2.804	3.788	1.0	21.4	176 E	59	50
2 11	8 37.27	+15 20.0	2.834	3.799	3.6	21.6	166 E	60	49
2 21	8 29.74	+16 10.0	2.895	3.809	6.5	21.8	154 E	61	48

273364 2006 UU_{210}

1 2	9 8.91	+15 20.3	1.813	2.683	11.9	21.9	146 W	60	49
1 12	9 0.24	+15 43.6	1.745	2.682	7.9	21.6	158 W	61	48
1 22	8 49.52	+16 14.0	1.704	2.680	3.4	21.3	171 W	61	48
2 1	8 37.80	+16 47.2	1.693	2.676	1.5	21.2	176 E	62	47
2 11	8 26.37	+17 18.3	1.712	2.671	6.1	21.5	163 E	62	47
2 21	8 16.44	+17 44.1	1.759	2.666	10.5	21.7	151 E	63	46

453775 2011 HQ_{5}

1 2	9 11.90	+21 20.7	1.640	2.518	12.5	21.5	146 W	66	43
1 12	9 4.28	+22 37.3	1.550	2.490	8.4	21.2	158 W	68	41
1 22	8 53.93	+24 0.8	1.486	2.461	4.1	20.9	170 W	69	40
2 1	8 41.79	+25 22.3	1.452	2.430	3.5	20.8	171 E	70	39
2 11	8 29.36	+26 32.9	1.446	2.399	7.9	21.0	160 E	72	37
2 21	8 18.19	+27 26.3	1.468	2.366	12.7	21.2	148 E	72	37
3 2	8 9.66	+28 0.3	1.513	2.333	17.0	21.3	136 E	73	36

400152 2006 VO_{12}

1 2	9 12.30	− 7 7.6	2.213	2.975	13.9	21.4	133 W	38	71
1 12	9 3.40	− 8 5.6	2.167	3.007	11.5	21.3	142 W	37	72
1 22	8 53.02	− 8 41.5	2.147	3.038	9.4	21.2	150 W	36	73
2 1	8 42.05	− 8 54.1	2.155	3.068	8.2	21.2	154 E	36	73
2 11	8 31.46	− 8 44.9	2.191	3.097	8.6	21.2	152 E	36	73
2 21	8 22.17	− 8 17.9	2.255	3.125	10.2	21.4	146 E	37	72

443815 1999 TH_{84}

1 2	9 12.62	+26 48.7	1.724	2.603	11.9	22.5	147 W	72	37
1 7	9 8.33	+27 17.8	1.698	2.610	10.0	22.4	153 W	72	37
1 12	9 3.37	+27 46.6	1.678	2.617	8.0	22.3	158 W	73	36
1 17	8 57.86	+28 14.2	1.665	2.623	6.2	22.2	163 W	73	36
1 22	8 51.93	+28 39.6	1.660	2.630	4.6	22.1	168 W	74	35
1 27	8 45.76	+29 1.9	1.662	2.636	4.0	22.1	169 W	74	35
2 1	8 39.54	+29 20.3	1.671	2.641	4.6	22.1	168 E	74	35
2 6	8 33.46	+29 34.3	1.687	2.647	6.1	22.2	163 E	75	34
2 11	8 27.70	+29 43.7	1.711	2.652	8.0	22.3	158 E	75	34
2 16	8 22.40	+29 48.6	1.741	2.657	9.9	22.5	153 E	75	34

329338 2001 JW_{2}

1 2	9 13.13	+ 2 33.6	1.382	2.220	16.9	22.4	139 W	48	61
1 12	9 0.63	+ 2 35.0	1.347	2.257	12.2	22.2	151 W	48	61
1 22	8 46.00	+ 2 59.7	1.338	2.292	7.9	22.1	161 W	48	61
2 1	8 30.83	+ 3 44.3	1.358	2.324	6.2	22.1	165 E	49	60
2 11	8 16.87	+ 4 41.9	1.408	2.354	8.9	22.3	158 E	50	59

155334 2006 DZ_{169}

1 2	9 14.64	+25 33.7	1.955	2.826	11.1	21.5	146 W	71	38
1 7	9 10.29	+26 0.8	1.914	2.821	9.4	21.4	152 W	71	38
1 12	9 5.26	+26 28.4	1.879	2.815	7.5	21.3	158 W	71	38
1 17	8 59.64	+26 55.6	1.851	2.808	5.7	21.1	163 W	72	37
1 22	8 53.55	+27 21.3	1.831	2.802	4.1	21.0	168 W	72	37
1 27	8 47.12	+27 44.8	1.819	2.795	3.3	21.0	171 W	73	36
2 1	8 40.54	+28 5.2	1.814	2.787	3.9	21.0	169 E	73	36
2 6	8 33.99	+28 21.9	1.817	2.779	5.5	21.1	164 E	73	36
2 11	8 27.63	+28 34.4	1.828	2.771	7.4	21.2	159 E	74	35
2 16	8 21.64	+28 42.7	1.845	2.762	9.3	21.3	153 E	74	35
2 21	8 16.15	+28 46.8	1.870	2.753	11.2	21.4	147 E	74	35
2 26	8 11.31	+28 46.8	1.901	2.744	13.0	21.4	141 E	74	35

354876 2006 BG_{55}

1 2	9 16.88	+ 9 36.2	1.482	2.335	15.1	21.9	142 W	55	54
1 12	9 4.46	+10 51.5	1.415	2.343	10.2	21.7	155 W	56	53
1 22	8 49.16	+12 24.6	1.376	2.348	4.7	21.4	169 W	57	52
2 1	8 32.41	+14 6.8	1.369	2.350	2.7	21.2	174 E	59	50
2 11	8 16.11	+15 47.4	1.394	2.349	7.9	21.5	161 E	61	48
2 21	8 2.00	+17 17.9	1.450	2.344	13.1	21.8	147 E	62	47

444326 2005 WL_{35}

1 2	9 17.05	+16 5.8	1.798	2.658	12.5	22.2	144 W	61	48
1 12	9 8.86	+16 42.8	1.748	2.678	8.5	22.0	156 W	62	47
1 22	8 58.70	+17 26.3	1.724	2.697	4.0	21.8	169 W	62	47
2 1	8 47.59	+18 10.9	1.730	2.715	0.7	21.6	178 E	63	46
2 11	8 36.80	+18 51.4	1.766	2.732	5.3	22.0	165 E	64	45
2 21	8 27.45	+19 24.0	1.831	2.748	9.4	22.2	153 E	64	45

306665 2000 SO_{277}

1 2	9 17.26	+11 33.8	2.264	3.102	11.1	21.7	142 W	57	52
1 12	9 9.75	+11 45.9	2.167	3.082	8.0	21.5	154 W	57	52
1 22	9 0.35	+12 7.4	2.097	3.062	4.4	21.2	166 W	57	52
2 1	8 49.76	+12 35.5	2.057	3.040	1.6	21.0	175 E	58	51
2 11	8 38.97	+13 6.7	2.049	3.017	4.5	21.1	166 E	58	51
2 21	8 28.98	+13 37.5	2.072	2.993	8.3	21.3	154 E	59	50

446825 2001 OM_{50}

1 2	9 17.44	+25 23.9	1.906	2.774	11.5	22.2	146 W	70	39
1 7	9 13.33	+25 53.8	1.882	2.785	9.7	22.1	151 W	71	38
1 12	9 8.63	+26 23.8	1.864	2.796	7.8	22.0	157 W	71	38
1 17	9 3.42	+26 53.1	1.853	2.807	6.0	22.0	163 W	72	37
1 22	8 57.82	+27 20.8	1.849	2.818	4.4	21.9	167 W	72	37
1 27	8 52.00	+27 45.9	1.853	2.828	3.4	21.8	170 W	73	36
2 1	8 46.11	+28 7.8	1.864	2.838	3.8	21.9	169 E	73	36
2 6	8 40.32	+28 25.9	1.884	2.848	5.1	22.0	165 E	73	36
2 11	8 34.78	+28 39.9	1.910	2.857	6.8	22.1	160 E	74	35
2 16	8 29.65	+28 49.8	1.943	2.866	8.5	22.2	154 E	74	35
2 21	8 25.02	+28 55.6	1.984	2.875	10.3	22.3	149 E	74	35
2 26	8 21.01	+28 57.4	2.030	2.884	11.9	22.5	143 E	74	35

235601 2004 PW_{56}

1 2	9 18.26	+11 45.6	1.969	2.812	12.4	21.4	142 W	57	52
1 12	9 10.71	+12 14.7	1.911	2.829	8.7	21.2	154 W	57	52
1 22	9 1.32	+12 54.1	1.879	2.845	4.6	20.9	167 W	58	51
2 1	8 50.97	+13 39.6	1.876	2.860	1.3	20.7	176 E	59	50
2 11	8 40.77	+14 26.3	1.905	2.874	4.5	21.0	167 E	59	50
2 21	8 31.75	+15 9.8	1.963	2.888	8.4	21.2	155 E	60	49
3 2	8 24.73	+15 46.9	2.047	2.900	11.9	21.5	143 E	61	48

193828 2001 QC_{35}

1 2	9 18.31	+17 1.9	1.769	2.629	12.7	21.4	144 W	62	47
1 12	9 9.73	+17 28.6	1.722	2.652	8.6	21.2	156 W	62	47
1 22	8 59.17	+18 0.5	1.702	2.675	4.0	21.0	169 W	63	46
2 1	8 47.71	+18 32.5	1.712	2.697	0.8	20.8	178 E	64	45
2 11	8 36.65	+19 0.0	1.752	2.718	5.3	21.1	165 E	64	45
2 21	8 27.12	+19 20.0	1.820	2.737	9.5	21.4	153 E	64	45

363368 2002 TJ_{52}

1 2	9 18.93	+ 7 16.5	1.965	2.793	13.0	21.4	140 W	52	57
1 12	9 11.34	+ 7 30.4	1.922	2.827	9.5	21.2	152 W	53	56
1 22	9 2.09	+ 7 57.8	1.905	2.861	5.7	21.0	163 W	53	56
2 1	8 52.08	+ 8 35.4	1.917	2.894	3.0	20.9	171 E	54	55
2 11	8 42.36	+ 9 18.9	1.959	2.926	4.6	21.1	166 E	54	55
2 21	8 33.88	+10 3.7	2.030	2.958	8.0	21.4	155 E	55	54

387717 2003 DN_{4}

1 2	9 19.26	−27 37.5	0.995	1.690	31.1	21.8	117 W	17	88
1 7	9 12.20	−27 29.6	0.952	1.691	29.6	21.6	122 W	18	89
1 12	9 3.73	−27 3.1	0.913	1.691	28.0	21.5	126 W	18	89
1 17	8 53.96	−26 14.7	0.876	1.690	26.3	21.3	130 W	19	90
1 22	8 43.11	−25 1.6	0.844	1.687	24.6	21.2	134 W	20	89
1 27	8 31.52	−23 21.8	0.817	1.683	23.1	21.1	138 E	22	87
2 1	8 19.59	−21 14.9	0.797	1.678	22.0	21.0	140 E	24	85
2 6	8 7.81	−18 42.6	0.782	1.671	21.5	20.9	142 E	26	83
2 11	7 56.60	−15 48.6	0.775	1.663	21.8	20.9	141 E	29	80
2 16	7 46.35	−12 38.3	0.775	1.654	22.9	20.9	139 E	32	77
2 21	7 37.35	− 9 18.0	0.782	1.644	24.7	21.0	136 E	36	73
2 26	7 29.83	− 5 54.2	0.796	1.633	26.8	21.1	132 E	39	70
3 2	7 23.87	− 2 32.9	0.816	1.620	29.2	21.2	127 E	42	67
3 7	7 19.51	+ 0 41.3	0.841	1.606	31.6	21.3	122 E	46	63
3 12	7 16.69	+ 3 45.3	0.870	1.591	33.8	21.4	117 E	49	60

396853 2004 SG

1 2	9 19.41	−17 40.6	2.097	2.778	16.9	22.4	125 W	27	82
1 7	9 16.04	−18 8.2	2.065	2.789	15.9	22.4	129 W	27	82
1 12	9 12.15	−18 28.8	2.038	2.800	15.0	22.3	133 W	27	82
1 17	9 7.80	−18 42.0	2.016	2.810	14.0	22.3	136 W	26	83
1 22	9 3.08	−18 47.1	1.999	2.821	13.1	22.2	139 W	26	83
1 27	8 58.12	−18 44.1	1.988	2.831	12.3	22.2	142 W	26	83
2 1	8 53.03	−18 32.8	1.983	2.840	11.7	22.2	144 E	26	83
2 6	8 47.96	−18 13.5	1.984	2.850	11.4	22.2	145 E	27	82
2 11	8 43.04	−17 46.9	1.992	2.859	11.3	22.2	145 E	27	82

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
396853 2004 SG *(continuation)*									
2 16	8 38.39	−17 13.5	2.006	2.868	11.5	22.2	145 E	28	81
2 21	8 34.11	−16 34.4	2.025	2.877	11.9	22.3	143 E	28	81
2 26	8 30.31	−15 50.6	2.051	2.886	12.6	22.3	141 E	29	80
270659 2002 PU_{178}									
1 2	9 22.88	+22 10.8	1.837	2.695	12.4	22.2	144 W	67	42
1 12	9 15.16	+23 14.4	1.772	2.699	8.6	22.0	156 W	68	41
1 22	9 5.13	+24 20.6	1.734	2.702	4.6	21.8	167 W	69	40
2 1	8 53.74	+25 21.8	1.725	2.704	2.9	21.6	172 E	70	39
2 11	8 42.30	+26 11.4	1.747	2.706	6.2	21.9	163 E	71	38
2 21	8 32.09	+26 45.3	1.797	2.706	10.1	22.1	151 E	72	37
448225 2008 VP_3									
1 2	9 23.47	+34 28.9	1.552	2.418	13.8	21.6	144 W	79	30
1 7	9 19.17	+35 14.6	1.537	2.433	12.0	21.5	149 W	80	29
1 12	9 14.06	+35 58.0	1.529	2.448	10.4	21.4	153 W	81	28
1 17	9 8.29	+36 37.8	1.527	2.463	8.9	21.4	157 W	82	27
1 22	9 2.02	+37 12.5	1.532	2.478	7.9	21.4	160 W	82	27
1 27	8 55.46	+37 41.0	1.543	2.493	7.6	21.4	160 W	83	26
2 1	8 48.84	+38 2.5	1.562	2.508	8.0	21.4	159 E	83	26
2 6	8 42.39	+38 16.6	1.587	2.522	9.0	21.5	157 E	83	26
2 11	8 36.31	+38 23.3	1.619	2.536	10.3	21.6	153 E	83	26
2 16	8 30.80	+38 23.0	1.657	2.550	11.8	21.7	148 E	83	26
2 21	8 25.97	+38 16.2	1.701	2.564	13.3	21.9	144 E	83	26
2 26	8 21.96	+38 3.6	1.750	2.578	14.7	22.0	139 E	83	26
340795 2006 TT_{44}									
1 2	9 23.90	+13 59.4	1.695	2.541	13.8	22.3	142 W	59	50
1 12	9 16.21	+14 31.7	1.632	2.552	9.8	22.0	154 W	60	49
1 22	9 6.22	+15 14.0	1.595	2.563	5.1	21.8	167 W	60	49
2 1	8 54.92	+16 1.2	1.587	2.572	0.5	21.5	179 E	61	48
2 11	8 43.65	+16 47.2	1.608	2.580	4.8	21.8	167 E	62	47
2 21	8 33.67	+17 27.1	1.658	2.587	9.4	22.1	155 E	62	47
511684 2015 BN_{509}									
1 2	9 24.21	+13 25.6	0.439	1.354	26.8	20.8	142 W	58	51
1 7	9 18.60	+14 14.5	0.384	1.325	23.0	20.3	148 W	59	50
1 12	9 9.53	+15 26.5	0.332	1.293	18.2	19.8	156 W	60	49
1 17	8 55.66	+17 8.4	0.283	1.259	12.0	19.2	165 W	62	47
1 22	8 34.96	+19 27.5	0.240	1.223	4.1	18.4	175 W	64	45
1 24	8 24.13	+20 34.7	0.224	1.208	1.0	18.0	179 W	66	43
1 26	8 11.50	+21 48.6	0.209	1.193	4.3	18.1	175 E	67	42
1 28	7 56.80	+23 8.4	0.195	1.177	9.0	18.1	169 E	68	41
1 30	7 39.75	+24 32.6	0.183	1.161	14.3	18.1	163 E	70	39
2 1	7 20.11	+25 58.6	0.171	1.144	20.2	18.2	156 E	71	38
2 3	6 57.67	+27 22.5	0.162	1.127	26.6	18.2	149 E	72	37
2 5	6 32.43	+28 38.9	0.154	1.110	33.6	18.3	141 E	74	35
2 7	6 4.56	+29 41.3	0.148	1.093	41.1	18.4	133 E	75	34
2 9	5 34.60	+30 23.2	0.144	1.075	48.9	18.5	125 E	75	34
2 11	5 3.37	+30 39.5	0.141	1.056	57.1	18.6	116 E	76	33
2 12	4 47.60	+30 37.1	0.141	1.047	61.2	18.7	112 E	76	33
2 13	4 31.91	+30 27.7	0.141	1.038	65.3	18.8	107 E	75	34*
2 14	4 16.43	+30 11.4	0.142	1.028	69.4	19.0	103 E	75	33*
2 15	4 1.27	+29 48.8	0.143	1.019	73.4	19.1	99 E	75	33*
2 16	3 46.55	+29 20.5	0.144	1.009	77.4	19.2	94 E	74	33*
2 17	3 32.33	+28 47.0	0.146	0.999	81.4	19.4	90 E	74*	32*
2 18	3 18.67	+28 9.3	0.148	0.989	85.2	19.5	86 E	72*	31*
2 19	3 5.62	+27 27.9	0.151	0.979	89.0	19.7	82 E	70*	30*
2 20	2 53.18	+26 43.8	0.154	0.969	92.7	19.9	78 E	67*	29*
2 21	2 41.37	+25 57.4	0.157	0.959	96.3	20.0	75 E	65*	28*
2 23	2 19.57	+24 20.6	0.164	0.939	103.2	20.4	67 E	59*	25*
2 25	2 0.04	+22 41.2	0.173	0.918	109.8	20.9	61 E	53*	22*
2 27	1 42.54	+21 1.9	0.182	0.896	116.1	21.3	54 E	47*	19*
2 29	1 26.81	+19 24.2	0.193	0.875	122.1	21.8	48 E	42*	16*
154656 2004 FE_3									
1 2	9 25.36	+34 3.7	2.731	3.571	9.4	21.8	144 W	79	30
1 7	9 20.38	+34 27.6	2.706	3.584	8.2	21.7	149 W	79	30
1 12	9 14.89	+34 49.9	2.688	3.596	7.0	21.6	154 W	80	29
1 17	9 8.97	+35 9.8	2.677	3.608	5.9	21.6	158 W	80	29
1 22	9 2.73	+35 26.6	2.675	3.620	5.1	21.6	161 W	80	29
1 27	8 56.30	+35 39.6	2.680	3.631	4.7	21.5	162 W	81	28
2 1	8 49.81	+35 48.6	2.694	3.641	4.9	21.6	162 E	81	28
2 6	8 43.41	+35 53.1	2.715	3.652	5.6	21.6	159 E	81	28
2 11	8 37.22	+35 53.2	2.745	3.662	6.6	21.7	155 E	81	28
2 16	8 31.38	+35 48.9	2.782	3.672	7.7	21.8	150 E	81	28
2 21	8 25.96	+35 40.7	2.826	3.681	8.8	21.9	145 E	81	28
2 26	8 21.08	+35 28.7	2.877	3.690	9.9	22.0	140 E	80	29

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
405401 2004 PH_{35}									
1 2	9 26.74	+31 54.0	1.760	2.617	12.9	21.6	144 W	77	32
1 7	9 21.88	+32 1.5	1.713	2.606	11.2	21.4	149 W	77	32
1 12	9 16.17	+32 7.3	1.673	2.595	9.4	21.3	154 W	77	32
1 17	9 9.70	+32 10.3	1.639	2.583	7.7	21.2	159 W	77	32
1 22	9 2.60	+32 9.5	1.612	2.571	6.2	21.1	164 W	77	32
1 27	8 55.05	+32 4.0	1.593	2.559	5.4	21.0	166 W	77	32
2 1	8 47.28	+31 53.0	1.581	2.547	5.6	21.0	165 E	77	32
2 6	8 39.51	+31 36.2	1.577	2.534	6.8	21.0	162 E	77	32
2 11	8 31.97	+31 13.5	1.580	2.521	8.5	21.1	158 E	76	33
2 16	8 24.88	+30 45.4	1.591	2.508	10.5	21.2	152 E	76	33
2 21	8 18.42	+30 12.2	1.608	2.495	12.5	21.3	147 E	75	34
2 26	8 12.74	+29 34.9	1.631	2.482	14.4	21.4	141 E	75	34
3 2	8 7.94	+28 54.1	1.660	2.468	16.3	21.4	136 E	74	35
495760 2017 CL_{12}									
1 2	9 30.12	+14 19.7	1.774	2.608	13.9	21.4	140 W	59	50
1 12	9 23.53	+14 30.3	1.674	2.585	10.2	21.1	152 W	60	49
1 22	9 14.32	+14 50.6	1.599	2.561	5.8	20.8	165 W	60	49
2 1	9 3.25	+15 16.9	1.552	2.537	1.1	20.4	177 W	60	49
2 6	8 57.38	+15 30.9	1.540	2.524	1.7	20.5	176 E	61	48
2 11	8 51.52	+15 44.5	1.535	2.511	4.2	20.6	169 E	61	48
2 16	8 45.84	+15 57.3	1.537	2.498	6.7	20.7	163 E	61	48
2 21	8 40.50	+16 8.7	1.546	2.485	9.1	20.8	157 E	61	48
2 26	8 35.66	+16 18.5	1.561	2.471	11.4	20.9	150 E	61	48
3 2	8 31.44	+16 26.3	1.583	2.458	13.6	21.0	144 E	61	48
3 7	8 27.95	+16 32.0	1.610	2.444	15.6	21.1	139 E	62	47
3 12	8 25.24	+16 35.4	1.641	2.430	17.4	21.2	133 E	62	47
3 17	8 23.34	+16 36.6	1.677	2.416	19.1	21.3	128 E	62	47
3 22	8 22.28	+16 35.5	1.716	2.401	20.5	21.4	122 E	62	47
3 27	8 22.05	+16 32.1	1.758	2.387	21.8	21.5	117 E	62	47
189015 1998 QH_{83}									
1 2	9 36.77	+ 5 37.7	1.796	2.591	15.4	21.4	136 W	51	58
1 12	9 30.06	+ 5 43.0	1.732	2.612	11.9	21.2	147 W	51	58
1 22	9 21.10	+ 6 5.2	1.692	2.632	7.9	21.0	159 W	51	58
2 1	9 10.75	+ 6 41.8	1.678	2.651	4.2	20.8	169 W	52	57
2 11	9 0.14	+ 7 28.4	1.695	2.670	4.1	20.8	169 E	52	57
2 21	8 50.42	+ 8 19.4	1.740	2.687	7.5	21.1	159 E	53	56
3 2	8 42.59	+ 9 9.4	1.813	2.704	11.2	21.3	148 E	54	55
443892 2001 XT_4									
1 2	9 37.17	+23 48.2	1.661	2.503	14.3	21.4	141 W	69	40
1 7	9 33.15	+24 21.4	1.643	2.525	12.3	21.3	147 W	69	40
1 12	9 28.41	+24 55.3	1.631	2.546	10.2	21.2	153 W	70	39
1 17	9 23.06	+25 28.9	1.626	2.567	8.0	21.2	159 W	70	39
1 22	9 17.24	+26 1.2	1.627	2.587	6.0	21.1	164 W	71	38
1 27	9 11.10	+26 30.9	1.635	2.608	4.3	21.0	168 W	72	37
2 1	9 4.84	+26 57.2	1.652	2.628	3.7	21.0	170 W	72	37
2 6	8 58.64	+27 19.4	1.675	2.647	4.5	21.1	168 E	72	37
2 11	8 52.68	+27 37.1	1.706	2.667	6.1	21.3	163 E	73	36
2 16	8 47.13	+27 50.0	1.744	2.686	7.9	21.4	158 E	73	36
2 21	8 42.10	+27 58.3	1.789	2.705	9.7	21.6	152 E	73	36
2 26	8 37.71	+28 2.1	1.840	2.723	11.5	21.7	147 E	73	36
3 2	8 34.05	+28 1.8	1.897	2.742	13.1	21.8	141 E	73	36
298791 2004 PZ_{101}									
1 2	9 38.97	+14 24.1	2.139	2.948	12.8	21.5	138 W	59	50
1 12	9 32.28	+14 48.9	2.064	2.958	9.5	21.3	150 W	60	49
1 22	9 23.52	+15 22.0	2.014	2.968	5.7	21.0	163 W	60	49
2 1	9 13.39	+15 59.4	1.993	2.976	1.5	20.8	175 W	61	48
2 11	9 2.88	+16 36.3	2.003	2.983	2.7	20.9	172 E	62	47
2 21	8 53.04	+17 8.7	2.044	2.990	6.7	21.1	159 E	62	47
3 2	8 44.79	+17 33.7	2.113	2.995	10.3	21.4	147 E	63	46
396578 2000 QG_{102}									
1 2	9 44.29	+12 57.2	1.760	2.567	15.2	21.4	137 W	58	51
1 12	9 38.23	+13 54.3	1.706	2.597	11.4	21.2	149 W	59	50
1 22	9 29.80	+15 3.6	1.676	2.627	6.9	21.0	161 W	60	49
2 1	9 19.83	+16 18.7	1.674	2.656	2.2	20.8	174 W	61	48
2 11	9 9.48	+17 32.0	1.701	2.684	2.6	20.9	173 E	63	46
2 21	8 59.92	+18 37.0	1.759	2.711	7.0	21.2	160 E	64	45
3 2	8 52.18	+19 29.2	1.843	2.737	10.9	21.5	148 E	64	45
301982 2000 KT_4									
1 2	9 46.53	−15 43.9	2.240	2.878	17.0	21.4	121 W	29	80
1 12	9 41.34	−16 46.5	2.137	2.869	15.3	21.3	130 W	28	81
1 22	9 33.91	−17 25.7	2.053	2.859	13.4	21.1	138 W	28	81
2 1	9 24.73	−17 36.7	1.990	2.848	11.7	21.0	144 W	27	82
2 11	9 14.65	−17 17.0	1.951	2.836	10.6	20.9	148 E	28	81
2 21	9 4.67	−16 28.1	1.938	2.823	10.8	20.9	148 E	29	80

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
301982 2000 KT_4 *(continuation)*									
3 2	8 55.82	−15 14.7	1.950	2.809	12.1	20.9	143 E	30	79
3 12	8 48.96	−13 44.7	1.987	2.795	14.1	21.0	137 E	31	78
3 22	8 44.58	−12 6.9	2.044	2.779	16.2	21.1	129 E	33	76
4 1	8 42.93	−10 29.3	2.118	2.762	18.2	21.3	120 E	35	74
4 11	8 43.98	− 8 58.3	2.205	2.745	19.8	21.4	112 E	36	73
378305 2007 FC_1									
1 2	9 47.43	+59 10.3	1.554	2.329	18.3	21.4	132 W	76	5
1 7	9 42.56	+60 32.5	1.530	2.320	17.9	21.4	134 W	74	3
1 12	9 35.84	+61 49.0	1.512	2.311	17.6	21.3	135 W	73	2
1 17	9 27.28	+62 57.0	1.498	2.301	17.6	21.3	135 W	72	1
1 22	9 17.00	+63 54.0	1.490	2.291	17.8	21.3	135 W	71	—
1 27	9 5.35	+64 37.6	1.486	2.281	18.2	21.3	134 W	70	—
2 1	8 52.83	+65 5.9	1.488	2.271	18.7	21.3	132 E	70	—
2 6	8 40.09	+65 18.1	1.494	2.260	19.4	21.3	130 E	70	—
2 11	8 27.80	+65 14.5	1.504	2.249	20.3	21.4	128 E	70	—
2 16	8 16.56	+64 55.9	1.518	2.237	21.2	21.4	125 E	70	—
2 21	8 6.87	+64 23.9	1.536	2.225	22.1	21.4	122 E	71	—
2 26	7 59.02	+63 40.5	1.557	2.213	23.0	21.5	119 E	71	—
276409 2002 YN_2									
1 2	9 49.94	−25 23.5	1.327	1.951	27.3	21.8	114 W	20	89
1 7	9 41.10	−27 28.4	1.293	1.957	26.3	21.7	118 W	18	89
1 12	9 30.70	−29 24.8	1.264	1.962	25.4	21.6	121 W	16	87
1 17	9 18.78	−31 9.3	1.240	1.967	24.5	21.6	124 W	14	85
1 22	9 5.52	−32 38.5	1.223	1.970	23.8	21.5	126 W	12	83
1 27	8 51.22	−33 49.2	1.213	1.972	23.4	21.5	127 W	11	82
2 1	8 36.30	−34 39.1	1.209	1.972	23.3	21.5	128 E	10	81
2 6	8 21.27	−35 7.2	1.211	1.972	23.4	21.5	127 E	10	81
2 11	8 6.61	−35 14.1	1.220	1.971	23.9	21.5	126 E	10	81
2 16	7 52.81	−35 1.5	1.235	1.968	24.5	21.6	124 E	10	81
2 21	7 40.22	−34 31.8	1.256	1.965	25.4	21.6	122 E	10	81
2 26	7 29.13	−33 48.4	1.281	1.960	26.3	21.7	119 E	11	82
275545 1998 UN_1									
1 2	9 53.50	−38 49.7	1.336	1.844	31.1	21.4	104 W	6	77
1 7	9 51.76	−40 17.8	1.301	1.842	30.8	21.3	107 W	5	76
1 12	9 48.92	−41 37.3	1.267	1.839	30.4	21.2	109 W	3	74
1 17	9 44.96	−42 46.6	1.235	1.836	30.0	21.2	111 W	2	73
1 22	9 39.88	−43 43.8	1.204	1.832	29.5	21.1	113 W	1	72
1 27	9 33.77	−44 26.7	1.175	1.828	29.1	21.0	115 W	1	72
2 1	9 26.80	−44 53.4	1.148	1.824	28.7	21.0	117 W	—	71
2 6	9 19.19	−45 2.2	1.123	1.819	28.3	20.9	119 W	—	71
2 11	9 11.24	−44 52.1	1.101	1.813	28.0	20.8	121 E	—	71
2 16	9 3.25	−44 22.2	1.081	1.808	27.7	20.8	122 E	1	72
2 21	8 55.57	−43 32.3	1.064	1.801	27.5	20.7	123 E	1	72
2 26	8 48.53	−42 23.1	1.050	1.794	27.5	20.7	123 E	3	74
3 2	8 42.42	−40 55.8	1.038	1.787	27.6	20.7	123 E	4	75
3 7	8 37.45	−39 12.5	1.031	1.779	27.8	20.7	123 E	6	77
3 12	8 33.75	−37 15.8	1.026	1.771	28.2	20.6	123 E	8	79
3 17	8 31.38	−35 8.1	1.025	1.763	28.8	20.6	122 E	10	81
3 22	8 30.36	−32 52.3	1.027	1.753	29.4	20.7	120 E	12	83
3 27	8 30.66	−30 31.1	1.033	1.744	30.2	20.7	118 E	14	85
4 1	8 32.24	−28 7.3	1.042	1.734	31.1	20.7	116 E	17	88
4 6	8 35.00	−25 43.4	1.054	1.724	32.0	20.8	114 E	19	90
4 11	8 38.84	−23 21.4	1.068	1.713	32.9	20.8	112 E	22	87
4 16	8 43.66	−21 3.2	1.086	1.702	33.9	20.8	109 E	24*	85
4 21	8 49.39	−18 50.0	1.106	1.690	34.8	20.9	106 E	26*	83
4 26	8 55.94	−16 43.3	1.128	1.678	35.7	20.9	104 E	27*	81
5 1	9 3.22	−14 43.8	1.152	1.666	36.5	21.0	101 E	28*	79
5 6	9 11.16	−12 52.1	1.178	1.653	37.2	21.1	98 E	29*	77
5 11	9 19.67	−11 8.6	1.205	1.640	37.8	21.1	95 E	29*	75
5 16	9 28.69	− 9 33.4	1.234	1.627	38.4	21.1	92 E	29*	74
5 21	9 38.18	− 8 6.4	1.263	1.613	38.9	21.2	90 E	28*	72*
5 26	9 48.08	− 6 47.7	1.293	1.599	39.2	21.2	87 E	28*	71*
5 31	9 58.35	− 5 37.1	1.324	1.585	39.5	21.3	84 E	27*	69*
6 5	10 8.94	− 4 34.2	1.355	1.571	39.7	21.3	82 E	26*	68*
6 10	10 19.81	− 3 38.6	1.386	1.556	39.9	21.3	79 E	25*	66*
6 15	10 30.94	− 2 49.9	1.416	1.541	39.9	21.4	77 E	24*	65*
6 20	10 42.31	− 2 7.9	1.447	1.526	39.9	21.4	74 E	22*	63*
6 25	10 53.90	− 1 32.1	1.476	1.510	39.8	21.4	72 E	22*	61*
6 30	11 5.68	− 1 2.0	1.505	1.495	39.6	21.4	70 E	21*	60*
7 5	11 17.64	− 0 37.4	1.533	1.479	39.4	21.4	67 E	20*	58*
7 10	11 29.76	− 0 17.6	1.560	1.463	39.1	21.4	65 E	19*	56*
7 15	11 42.05	− 0 2.3	1.586	1.447	38.8	21.5	63 E	19*	54*
7 20	11 54.50	+ 0 8.8	1.610	1.432	38.5	21.5	61 E	19*	53*
7 25	12 7.11	+ 0 16.2	1.633	1.416	38.1	21.4	59 E	18*	51*
7 30	12 19.88	+ 0 20.1	1.655	1.400	37.7	21.4	57 E	18*	49*
8 4	12 32.80	+ 0 21.1	1.674	1.384	37.2	21.4	56 E	18*	48*
8 9	12 45.89	+ 0 19.4	1.692	1.369	36.8	21.4	54 E	19*	46*
8 14	12 59.16	+ 0 15.3	1.709	1.354	36.4	21.4	52 E	19*	44*
8 19	13 12.61	+ 0 9.2	1.723	1.339	35.9	21.4	51 E	19*	43*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
275545 1998 UN_1 *(continuation)*									
8 24	13 26.26	+ 0 1.3	1.736	1.324	35.5	21.4	49 E	20*	41*
8 29	13 40.11	− 0 7.9	1.746	1.310	35.0	21.3	48 E	20*	40*
9 3	13 54.18	− 0 18.3	1.755	1.296	34.7	21.3	47 E	20*	38*
9 8	14 8.48	− 0 29.5	1.762	1.282	34.3	21.3	46 E	21*	37*
9 13	14 23.03	− 0 41.3	1.767	1.269	34.0	21.3	45 E	22*	35*
9 18	14 37.85	− 0 53.4	1.770	1.257	33.7	21.2	44 E	22*	34*
9 23	14 52.95	− 1 5.6	1.772	1.246	33.4	21.2	43 E	23*	33*
9 28	15 8.35	− 1 17.6	1.773	1.235	33.2	21.2	42 E	24*	32*
10 3	15 24.05	− 1 29.0	1.771	1.225	33.1	21.2	42 E	24*	30*
10 8	15 40.06	− 1 39.7	1.769	1.215	32.9	21.1	41 E	25*	29*
10 13	15 56.41	− 1 49.5	1.766	1.207	32.9	21.1	41 E	26*	28*
10 18	16 13.11	− 1 58.1	1.762	1.200	32.9	21.1	41 E	26*	27*
10 23	16 30.15	− 2 5.1	1.758	1.194	32.9	21.1	41 E	27*	25*
10 28	16 47.53	− 2 10.5	1.754	1.189	32.9	21.1	40 E	28*	24*
11 2	17 5.25	− 2 13.8	1.750	1.184	32.9	21.1	40 E	28*	23*
11 7	17 23.29	− 2 15.0	1.746	1.182	32.9	21.1	40 E	29*	22*
11 12	17 41.65	− 2 13.9	1.743	1.180	33.0	21.1	40 E	30*	21*
11 17	18 0.30	− 2 10.2	1.742	1.179	33.0	21.0	40 E	30*	20*
11 22	18 19.20	− 2 3.8	1.741	1.180	32.9	21.0	40 E	31*	18*
11 27	18 38.32	− 1 54.6	1.743	1.181	32.9	21.0	41 E	31*	17*
12 2	18 57.61	− 1 42.5	1.746	1.184	32.7	21.1	40 E	31*	16*
12 7	19 17.02	− 1 27.6	1.752	1.188	32.5	21.1	40 E	32*	15*
12 12	19 36.50	− 1 9.8	1.760	1.194	32.2	21.1	40 E	32*	14*
12 17	19 56.01	− 0 49.3	1.771	1.200	31.9	21.1	40 E	32*	13*
12 22	20 15.47	− 0 26.1	1.785	1.207	31.5	21.1	40 E	32*	13*
12 27	20 34.83	− 0 0.5	1.801	1.215	31.0	21.1	39 E	32*	12*
1 1	20 54.04	+ 0 27.3	1.820	1.224	30.4	21.2	39 E	32*	11*
1 6	21 13.06	+ 0 57.0	1.841	1.234	29.7	21.2	39 E	31*	11*
1 11	21 31.84	+ 1 28.3	1.865	1.245	29.0	21.2	38 E	31*	10*
1 16	21 50.37	+ 2 1.1	1.891	1.257	28.2	21.2	37 E	30*	10*
397472 2007 MV_9									
1 2	9 56.61	+ 8 21.3	1.890	2.653	15.9	21.5	132 W	53	56
1 12	9 51.12	+ 8 45.6	1.825	2.683	12.5	21.3	144 W	54	55
1 22	9 43.28	+ 9 24.9	1.783	2.712	8.5	21.1	156 W	54	55
2 1	9 33.76	+10 15.6	1.768	2.740	4.2	20.9	168 W	55	54
2 11	9 23.58	+11 12.3	1.782	2.767	1.5	20.8	176 E	56	53
2 21	9 13.83	+12 9.0	1.826	2.793	5.2	21.1	165 E	57	52
3 2	9 5.53	+13 0.4	1.899	2.819	9.1	21.4	153 E	58	51
191935 2005 UY_2									
1 2	9 57.70	+ 5 30.6	2.076	2.819	15.3	21.4	131 W	51	58
1 12	9 53.14	+ 5 51.4	1.964	2.805	12.4	21.1	142 W	51	58
1 22	9 46.13	+ 6 29.7	1.874	2.791	9.0	20.9	154 W	51	58
2 1	9 37.11	+ 7 24.2	1.810	2.775	5.0	20.6	166 W	52	57
2 11	9 26.90	+ 8 30.7	1.775	2.758	2.2	20.4	174 E	54	55
2 16	9 21.67	+ 9 6.7	1.769	2.749	3.2	20.5	171 E	54	55
2 21	9 16.53	+ 9 43.4	1.771	2.740	5.1	20.6	166 E	55	54
2 26	9 11.64	+10 20.0	1.780	2.731	7.2	20.7	160 E	55	54
3 2	9 7.12	+10 55.7	1.796	2.721	9.2	20.8	154 E	56	53
3 7	9 3.09	+11 29.8	1.819	2.711	11.2	20.9	148 E	56	53
3 12	8 59.63	+12 1.6	1.848	2.701	13.1	21.0	142 E	57	52
3 17	8 56.81	+12 30.9	1.882	2.691	14.8	21.0	136 E	58	51
3 22	8 54.67	+12 57.3	1.921	2.680	16.4	21.1	131 E	58	51
3 27	8 53.24	+13 20.6	1.964	2.669	17.7	21.2	125 E	58	51
4 1	8 52.53	+13 40.5	2.010	2.657	19.0	21.3	120 E	59	50
4 6	8 52.53	+13 57.2	2.059	2.646	20.0	21.4	115 E	59	50
4 11	8 53.21	+14 10.5	2.111	2.634	20.9	21.5	110 E	59	50
386298 2008 SR_7									
1 2	10 2.82	+30 42.2	0.645	1.515	26.8	21.2	136 W	76	33
1 7	9 58.46	+30 34.5	0.607	1.506	24.0	20.9	141 W	76	33
1 12	9 51.98	+30 24.2	0.573	1.497	20.8	20.7	147 W	75	34
1 17	9 43.31	+30 8.9	0.542	1.488	17.2	20.4	153 W	75	34
1 22	9 32.51	+29 45.2	0.515	1.478	13.4	20.2	160 W	75	34
1 27	9 19.85	+29 9.8	0.494	1.468	9.8	19.9	165 W	74	35
2 1	9 5.85	+28 19.8	0.478	1.457	7.6	19.8	169 W	73	36
2 6	8 51.19	+27 13.8	0.467	1.445	8.6	19.7	167 E	72	37
2 11	8 36.68	+25 52.4	0.462	1.434	12.2	19.8	162 E	71	38
2 16	8 23.05	+24 18.1	0.463	1.422	16.8	20.0	155 E	69	40
2 21	8 10.94	+22 34.7	0.468	1.409	21.6	20.1	148 E	68	41
2 26	8 0.79	+20 46.5	0.478	1.396	26.2	20.3	141 E	66	43
3 2	7 52.83	+18 57.3	0.492	1.383	30.5	20.5	135 E	64	45
3 7	7 47.08	+17 10.2	0.508	1.369	34.4	20.6	129 E	62	47
3 12	7 43.43	+15 26.7	0.527	1.356	37.8	20.8	123 E	60	49
3 17	7 41.71	+13 47.9	0.547	1.342	40.9	20.9	118 E	59	50
3 22	7 41.73	+12 13.7	0.567	1.327	43.6	21.1	113 E	57	52
3 27	7 43.31	+10 43.8	0.589	1.313	46.0	21.2	109 E	56	53
4 1	7 46.27	+ 9 17.6	0.610	1.298	48.0	21.3	105 E	54	55
4 6	7 50.43	+ 7 54.1	0.630	1.284	49.8	21.4	101 E	53*	56
4 11	7 55.64	+ 6 32.8	0.650	1.269	51.4	21.5	98 E	51*	57

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
282511 2004 QL_{20}									
1 2	10 3.80	−15 52.4	2.183	2.785	18.1	21.5	118 W	29	80
1 12	9 58.43	−17 5.6	2.107	2.809	16.3	21.3	127 W	28	81
1 22	9 50.73	−17 54.8	2.048	2.833	14.1	21.2	135 W	27	82
2 1	9 41.22	−18 15.5	2.009	2.855	12.1	21.1	143 W	27	82
2 11	9 30.79	−18 5.8	1.995	2.876	10.6	21.1	148 E	27	82
2 21	9 20.46	−17 27.4	2.006	2.897	10.2	21.1	149 E	28	81
3 2	9 11.23	−16 25.2	2.044	2.916	11.1	21.2	146 E	29	80
3 12	9 3.93	−15 7.2	2.106	2.934	12.7	21.3	140 E	30	79
3 22	8 59.02	−13 41.8	2.190	2.952	14.5	21.5	132 E	31	78
338847 2003 XZ_{21}									
1 2	10 6.76	+13 5.8	2.036	2.789	15.3	21.4	132 W	58	51
1 12	10 1.98	+13 50.2	1.939	2.789	12.2	21.2	143 W	59	50
1 22	9 54.60	+14 48.0	1.864	2.789	8.5	21.0	155 W	60	49
2 1	9 45.10	+15 54.7	1.816	2.787	4.2	20.7	168 W	61	48
2 11	9 34.34	+17 3.8	1.798	2.784	1.0	20.4	177 E	62	47
2 16	9 28.83	+17 37.1	1.801	2.782	2.8	20.6	172 E	63	46
2 21	9 23.44	+18 8.4	1.811	2.780	5.0	20.7	166 E	63	46
2 26	9 18.29	+18 37.1	1.828	2.777	7.2	20.9	159 E	64	45
3 2	9 13.54	+19 2.7	1.853	2.774	9.2	21.0	153 E	64	45
3 7	9 9.30	+19 24.8	1.884	2.771	11.2	21.1	147 E	64	45
3 12	9 5.65	+19 43.3	1.921	2.768	13.0	21.2	141 E	65	44
3 17	9 2.64	+19 58.0	1.964	2.764	14.6	21.3	136 E	65	44
3 22	9 0.33	+20 9.2	2.011	2.760	16.0	21.4	130 E	65	44
3 27	8 58.73	+20 16.7	2.062	2.756	17.3	21.5	125 E	65	44
229986 1999 XZ_{121}									
1 2	10 11.23	+12 52.0	1.610	2.370	18.4	21.4	131 W	58	51
1 12	10 5.71	+13 7.3	1.547	2.400	14.6	21.2	142 W	58	51
1 22	9 57.20	+13 35.7	1.504	2.429	10.1	21.0	154 W	59	50
2 1	9 46.42	+14 12.6	1.487	2.457	5.1	20.7	167 W	59	50
2 11	9 34.59	+14 51.6	1.498	2.484	0.2	20.4	179 E	60	49
2 16	9 28.72	+15 9.9	1.514	2.498	2.7	20.7	173 E	60	49
2 21	9 23.10	+15 26.6	1.538	2.511	5.2	20.9	167 E	60	49
2 26	9 17.89	+15 41.1	1.569	2.523	7.5	21.0	160 E	61	48
3 2	9 13.24	+15 53.0	1.606	2.536	9.8	21.2	154 E	61	48
3 7	9 9.23	+16 2.1	1.650	2.548	11.8	21.3	148 E	61	48
3 12	9 5.94	+16 8.4	1.699	2.560	13.6	21.5	143 E	61	48
163694 2003 DP_{13}									
1 2	10 23.64	+13 18.2	1.707	2.438	18.6	21.4	128 W	58	51
1 12	10 21.83	+13 4.6	1.549	2.376	16.0	21.0	138 W	58	51
1 22	10 16.66	+13 2.4	1.409	2.312	12.4	20.6	150 W	58	51
2 1	10 7.96	+13 10.1	1.290	2.248	7.8	20.2	162 W	58	51
2 11	9 56.10	+13 24.3	1.198	2.182	2.3	19.6	175 W	58	51
2 16	9 49.25	+13 32.1	1.162	2.149	0.7	19.4	178 E	59	50
2 21	9 42.04	+13 39.3	1.133	2.116	3.9	19.6	172 E	59	50
2 26	9 34.67	+13 45.1	1.111	2.082	7.1	19.6	165 E	59	50
3 2	9 27.42	+13 48.7	1.095	2.049	10.4	19.7	158 E	59	50
3 7	9 20.53	+13 49.4	1.086	2.015	13.6	19.8	152 E	59	50
3 12	9 14.23	+13 47.0	1.083	1.981	16.7	19.8	145 E	59	50
3 17	9 8.70	+13 41.1	1.084	1.947	19.7	19.9	139 E	59	50
3 22	9 4.10	+13 31.7	1.090	1.913	22.5	20.0	133 E	59	50
4 1	8 58.11	+13 2.0	1.112	1.844	27.5	20.1	122 E	58	51
4 11	8 56.65	+12 18.2	1.141	1.776	31.6	20.2	112 E	57	52
4 21	8 59.57	+11 20.6	1.175	1.708	35.0	20.3	103 E	56*	53
5 1	9 6.55	+10 9.0	1.207	1.641	37.7	20.3	95 E	52*	54
5 11	9 17.13	+ 8 42.5	1.236	1.575	39.9	20.3	88 E	47*	55
5 21	9 30.90	+ 7 0.5	1.259	1.512	41.6	20.3	83 E	40*	57*
5 31	9 47.55	+ 5 1.8	1.276	1.452	43.0	20.3	78 E	34*	58*
6 10	10 6.81	+ 2 45.8	1.286	1.395	44.3	20.3	74 E	28*	59*
6 20	10 28.55	+ 0 12.3	1.290	1.344	45.3	20.2	70 E	22*	59*
6 30	10 52.75	− 2 38.3	1.288	1.299	46.3	20.2	67 E	17*	59*
7 10	11 19.41	− 5 44.2	1.283	1.262	47.1	20.1	65 E	14*	58*
7 20	11 48.64	− 9 2.3	1.276	1.233	47.8	20.1	64 E	11*	58*
7 30	12 20.62	−12 27.6	1.270	1.215	48.2	20.0	63 E	9*	57*
8 4	12 37.67	−14 10.7	1.268	1.209	48.3	20.0	63 E	8*	57*
8 9	12 55.44	−15 52.6	1.267	1.207	48.3	20.0	63 E	8*	57*
8 14	13 13.94	−17 32.0	1.269	1.207	48.2	20.0	63 E	7*	57*
8 19	13 33.14	−19 7.6	1.272	1.210	48.1	20.0	63 E	7*	56*
8 24	13 53.03	−20 38.0	1.278	1.215	47.8	20.1	63 E	7*	57*
8 29	14 13.55	−22 1.7	1.287	1.223	47.4	20.1	63 E	8*	57*
9 3	14 34.61	−23 17.4	1.299	1.234	46.8	20.1	63 E	8*	57*
9 8	14 56.13	−24 23.6	1.314	1.248	46.2	20.1	63 E	8*	57*
9 13	15 17.97	−25 19.5	1.333	1.263	45.5	20.2	64 E	9*	57*
9 18	15 40.02	−26 4.3	1.356	1.281	44.7	20.2	64 E	10*	57*
9 23	16 2.13	−26 37.6	1.383	1.301	43.8	20.3	64 E	10*	58*
9 28	16 24.14	−26 59.1	1.414	1.323	42.8	20.3	64 E	11*	58*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
163694 2003 DP_{13} *(continuation)*									
10 3	16 45.89	−27 9.1	1.448	1.346	41.8	20.4	64 E	12*	58*
10 8	17 7.27	−27 8.0	1.487	1.371	40.7	20.4	63 E	13*	57*
10 13	17 28.16	−26 56.6	1.529	1.398	39.5	20.5	63 E	14*	57*
10 18	17 48.48	−26 35.8	1.575	1.426	38.4	20.6	63 E	15*	57*
10 23	18 8.16	−26 6.5	1.624	1.454	37.2	20.7	62 E	16*	56*
10 28	18 27.15	−25 29.7	1.676	1.484	36.0	20.7	61 E	17*	55*
11 2	18 45.42	−24 46.4	1.732	1.515	34.8	20.8	61 E	18*	54*
11 7	19 2.99	−23 57.5	1.790	1.546	33.6	20.9	60 E	19*	52*
11 12	19 19.85	−23 4.0	1.850	1.578	32.3	21.0	59 E	20*	51*
11 17	19 36.05	−22 6.5	1.913	1.611	31.1	21.1	57 E	21*	49*
11 22	19 51.59	−21 5.9	1.977	1.644	29.9	21.2	56 E	22*	47*
11 27	20 6.51	−20 2.7	2.043	1.677	28.7	21.2	55 E	23*	44*
12 2	20 20.85	−18 57.5	2.111	1.711	27.4	21.3	53 E	24*	42*
12 7	20 34.64	−17 50.6	2.180	1.745	26.2	21.4	51 E	25*	39*
12 12	20 47.92	−16 42.6	2.249	1.779	25.0	21.5	50 E	25*	37*
416187 2002 TP_{65}									
1 2	10 29.85	+44 32.5	2.248	2.977	14.7	21.4	130 W	90	19
1 7	10 27.82	+45 38.7	2.227	2.992	13.7	21.4	134 W	89	18
1 12	10 24.89	+46 43.9	2.212	3.008	12.9	21.4	137 W	88	17
1 17	10 21.08	+47 46.7	2.203	3.023	12.1	21.3	140 W	87	16
1 22	10 16.43	+48 45.7	2.200	3.037	11.5	21.3	142 W	86	15
1 27	10 11.04	+49 39.4	2.204	3.052	11.1	21.3	144 W	85	14
2 1	10 5.02	+50 26.6	2.213	3.066	10.9	21.3	144 W	85	14
2 6	9 58.55	+51 6.2	2.230	3.081	10.9	21.4	144 W	84	13
2 11	9 51.81	+51 37.4	2.252	3.094	11.2	21.4	143 W	83	12
2 16	9 45.00	+51 59.8	2.281	3.108	11.6	21.5	141 E	83	12
2 21	9 38.34	+52 13.3	2.315	3.122	12.2	21.5	138 E	83	12
2 26	9 32.02	+52 18.1	2.355	3.135	12.9	21.6	135 E	83	12
3 2	9 26.22	+52 14.7	2.401	3.148	13.6	21.7	132 E	83	12
3 7	9 21.09	+52 3.8	2.451	3.161	14.3	21.8	128 E	83	12
3 12	9 16.71	+51 46.2	2.506	3.173	15.0	21.8	124 E	83	12
86730 2000 GY_{37}									
1 2	10 33.56	+ 1 53.8	2.327	2.958	16.5	21.5	121 W	47	62
1 12	10 31.06	+ 1 58.1	2.208	2.956	14.3	21.3	132 W	47	62
1 22	10 26.19	+ 2 19.5	2.106	2.953	11.5	21.1	143 W	47	62
2 1	10 19.17	+ 2 58.1	2.027	2.949	8.2	20.9	155 W	48	61
2 11	10 10.50	+ 3 51.8	1.975	2.943	4.5	20.6	166 W	49	60
2 21	10 0.98	+ 4 56.7	1.953	2.937	2.3	20.5	173 E	50	59
2 26	9 56.18	+ 5 31.5	1.953	2.933	3.3	20.5	170 E	51	58
3 2	9 51.54	+ 6 6.8	1.961	2.929	5.0	20.6	165 E	51	58
3 7	9 47.16	+ 6 41.9	1.976	2.925	6.9	20.7	159 E	52	57
3 12	9 43.15	+ 7 15.9	1.999	2.921	8.8	20.8	153 E	52	57
3 17	9 39.60	+ 7 48.3	2.028	2.916	10.6	20.9	148 E	53	56
3 22	9 36.57	+ 8 18.5	2.063	2.911	12.2	21.0	142 E	53	56
3 27	9 34.12	+ 8 46.1	2.103	2.906	13.7	21.1	136 E	54	55
4 1	9 32.28	+ 9 10.8	2.148	2.901	15.1	21.2	131 E	54	55
4 6	9 31.07	+ 9 32.2	2.198	2.895	16.3	21.3	125 E	55	54
4 11	9 30.49	+ 9 50.5	2.251	2.890	17.4	21.4	120 E	55	54
4 16	9 30.52	+10 5.4	2.306	2.883	18.3	21.5	115 E	55	54
194212 2001 TH_{114}									
1 2	10 34.12	+10 37.7	1.836	2.527	18.7	21.5	125 W	56	53
1 12	10 30.67	+10 50.2	1.758	2.555	15.6	21.3	136 W	56	53
1 22	10 24.34	+11 17.3	1.698	2.582	11.9	21.1	147 W	56	53
2 1	10 15.54	+11 56.0	1.662	2.609	7.5	20.9	160 W	57	52
2 11	10 5.11	+12 40.9	1.653	2.634	2.8	20.7	173 W	58	51
2 21	9 54.18	+13 25.7	1.673	2.659	2.0	20.7	175 E	58	51
3 2	9 43.97	+14 4.7	1.723	2.683	6.6	21.0	162 E	59	50
3 12	9 35.53	+14 33.7	1.800	2.706	10.6	21.3	150 E	60	49
188228 2002 TH_{267}									
1 2	10 34.65	− 0 31.5	2.169	2.793	17.8	21.3	120 W	44	65
1 12	10 32.10	− 0 48.7	2.052	2.791	15.6	21.1	130 W	44	65
1 22	10 27.00	− 0 48.4	1.951	2.787	12.8	20.9	141 W	44	65
2 1	10 19.55	− 0 29.0	1.872	2.783	9.4	20.7	153 W	45	64
2 11	10 10.31	+ 0 8.6	1.818	2.778	5.8	20.5	163 W	45	64
2 21	10 0.11	+ 1 1.4	1.794	2.772	3.7	20.3	169 E	46	63
2 26	9 54.98	+ 1 32.0	1.793	2.768	4.3	20.4	168 E	47	62
3 2	9 50.02	+ 2 4.2	1.799	2.764	5.8	20.4	164 E	47	62
3 7	9 45.35	+ 2 37.3	1.813	2.760	7.6	20.5	159 E	48	61
3 12	9 41.09	+ 3 10.3	1.833	2.756	9.4	20.6	153 E	48	61
3 17	9 37.33	+ 3 42.5	1.860	2.751	11.2	20.7	147 E	49	60
3 22	9 34.15	+ 4 13.3	1.893	2.746	13.0	20.8	142 E	49	60
3 27	9 31.60	+ 4 42.1	1.931	2.741	14.6	20.9	136 E	50	59
4 1	9 29.71	+ 5 8.4	1.974	2.736	16.0	21.0	131 E	50	59
4 6	9 28.51	+ 5 31.8	2.021	2.730	17.3	21.1	126 E	51	58
4 11	9 27.98	+ 5 52.1	2.072	2.724	18.4	21.2	121 E	51	58
4 16	9 28.10	+ 6 9.2	2.125	2.718	19.4	21.3	116 E	51	58

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
188228 2002 TH_{267} *(continuation)*									
4 21	9 28.86	+ 6 23.0	2.181	2.711	20.2	21.4	111 E	51	58
4 26	9 30.23	+ 6 33.4	2.238	2.704	20.9	21.4	107 E	51*	57
37336 2001 RM									
1 2	10 44.77	−34 3.0	3.000	3.311	17.0	21.5	100 W	11	82
1 12	10 41.75	−35 20.5	2.894	3.319	16.5	21.4	107 W	10	81
1 22	10 36.34	−36 19.0	2.796	3.326	15.6	21.3	114 W	9	80
2 1	10 28.73	−36 52.6	2.711	3.332	14.6	21.2	121 W	8	79
2 11	10 19.38	−36 56.4	2.641	3.337	13.5	21.1	128 W	8	79
2 21	10 9.05	−36 27.1	2.590	3.340	12.6	21.0	133 E	9	80
3 2	9 58.66	−35 24.4	2.561	3.342	12.0	21.0	136 E	10	81
3 12	9 49.21	−33 51.8	2.556	3.342	11.9	21.0	136 E	11	82
3 22	9 41.45	−31 55.9	2.574	3.342	12.4	21.0	134 E	13	84
4 1	9 35.92	−29 45.3	2.615	3.340	13.4	21.1	129 E	15	86
4 11	9 32.84	−27 29.3	2.677	3.337	14.5	21.2	123 E	18	89
4 21	9 32.21	−25 15.6	2.757	3.332	15.6	21.3	117 E	20	89
5 1	9 33.85	−23 10.7	2.852	3.326	16.6	21.4	109 E	21*	87
5 11	9 37.54	−21 18.6	2.958	3.319	17.3	21.5	102 E	21*	85
203387 2001 XK_{103}									
1 2	10 47.45	+17 31.7	2.249	2.912	16.3	21.4	124 W	63	46
1 12	10 44.74	+18 7.2	2.146	2.920	13.9	21.2	134 W	63	46
1 22	10 39.37	+18 53.4	2.062	2.928	10.9	21.0	146 W	64	45
2 1	10 31.54	+19 46.1	2.002	2.934	7.5	20.8	157 W	65	44
2 11	10 21.85	+20 38.8	1.969	2.939	4.3	20.6	167 W	66	43
2 21	10 11.15	+21 25.0	1.966	2.944	3.5	20.5	169 E	66	43
3 2	10 0.53	+21 59.1	1.993	2.947	6.4	20.7	161 E	67	42
3 12	9 51.06	+22 17.6	2.049	2.949	9.8	20.9	150 E	67	42
3 22	9 43.55	+22 19.8	2.130	2.951	12.9	21.2	138 E	67	42
4 1	9 38.51	+22 6.9	2.231	2.951	15.5	21.3	128 E	67	42
58325 1994 RE_{11}									
1 2	11 18.19	− 2 2.1	2.385	2.867	18.9	21.4	109 W	43	66
1 12	11 18.29	− 1 50.9	2.284	2.899	17.1	21.3	120 W	43	66
1 22	11 16.02	− 1 20.9	2.195	2.931	14.8	21.2	130 W	44	65
2 1	11 11.44	− 0 31.7	2.124	2.962	11.8	21.0	142 W	44	65
2 11	11 4.86	+ 0 35.2	2.074	2.992	8.3	20.8	154 W	46	63
2 21	10 56.85	+ 1 56.1	2.052	3.021	4.5	20.7	166 W	47	62
3 2	10 48.18	+ 3 25.1	2.060	3.050	1.3	20.5	176 E	48	61
3 7	10 43.87	+ 4 10.3	2.076	3.064	2.2	20.6	173 E	49	60
3 12	10 39.73	+ 4 54.9	2.099	3.077	4.0	20.7	168 E	50	59
3 17	10 35.85	+ 5 37.9	2.130	3.090	5.8	20.9	162 E	51	58
3 22	10 32.32	+ 6 18.7	2.168	3.103	7.6	21.0	156 E	51	58
3 27	10 29.21	+ 6 56.6	2.213	3.116	9.3	21.1	150 E	52	57
4 1	10 26.58	+ 7 31.2	2.264	3.129	10.8	21.2	144 E	53	56
4 6	10 24.46	+ 8 2.2	2.321	3.141	12.2	21.3	139 E	53	56
4 11	10 22.88	+ 8 29.3	2.383	3.154	13.4	21.5	133 E	53	56
182274 2001 KY_1									
1 2	11 18.42	− 2 44.1	4.016	4.436	12.1	21.5	109 W	42	67
1 12	11 17.06	− 2 57.7	3.868	4.434	11.1	21.4	119 W	42	67
1 22	11 14.16	− 3 1.3	3.734	4.432	9.8	21.2	130 W	42	67
2 1	11 9.78	− 2 54.3	3.619	4.429	8.0	21.1	141 W	42	67
2 11	11 4.12	− 2 36.9	3.529	4.425	6.0	20.9	152 W	42	67
2 21	10 57.48	− 2 10.0	3.466	4.421	3.7	20.8	163 W	43	66
3 2	10 50.29	− 1 35.5	3.434	4.416	2.0	20.6	171 E	43	66
3 12	10 43.06	− 0 56.1	3.434	4.410	2.7	20.7	168 E	44	65
3 22	10 36.28	− 0 14.7	3.465	4.403	4.9	20.8	158 E	45	64
4 1	10 30.40	+ 0 25.4	3.525	4.395	7.2	21.0	147 E	45	64
4 11	10 25.78	+ 1 1.4	3.611	4.387	9.1	21.1	136 E	46	63
4 21	10 22.59	+ 1 31.4	3.718	4.378	10.8	21.2	125 E	47	62
5 1	10 20.96	+ 1 53.9	3.842	4.368	12.0	21.4	115 E	47	62
5 11	10 20.85	+ 2 8.0	3.976	4.358	12.9	21.5	106 E	46*	62
484462 2008 CM_{20}									
1 2	11 50.46	+22 51.6	0.288	1.119	55.1	21.0	111 W	68	41*
1 4	11 54.49	+20 25.6	0.275	1.113	55.4	20.9	111 W	65	43*
1 6	11 58.44	+17 47.0	0.263	1.107	55.7	20.8	112 W	63	46*
1 8	12 2.33	+14 54.8	0.252	1.102	56.0	20.8	112 W	60	49*
1 10	12 6.16	+11 48.0	0.241	1.096	56.4	20.7	112 W	57	52
1 12	12 9.94	+ 8 25.7	0.231	1.091	56.9	20.6	112 W	53	56
1 17	12 19.27	− 1 10.2	0.210	1.077	58.4	20.4	111 W	44	65
1 22	12 28.53	−12 20.0	0.196	1.065	60.6	20.3	109 W	33	76
1 27	12 37.98	−24 31.2	0.189	1.054	63.5	20.3	107 W	20	89
2 1	12 48.02	−36 46.3	0.191	1.045	66.8	20.4	103 W	8	79
2 3	12 52.32	−41 27.3	0.194	1.041	68.2	20.4	101 W	4	75
2 5	12 56.87	−45 56.2	0.198	1.038	69.5	20.5	100 W	—	70
2 7	13 1.72	−50 10.8	0.203	1.034	70.7	20.6	98 W	—	66
2 9	13 6.95	−54 9.8	0.208	1.031	71.8	20.7	97 W	—	62

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
484462 2008 CM_{20} *(continuation)*									
2 11	13 12.65	−57 52.5	0.215	1.029	72.8	20.8	95 W	—	58
2 13	13 18.93	−61 18.9	0.222	1.026	73.7	20.9	94 W	—	55
2 15	13 25.94	−64 29.5	0.230	1.024	74.5	21.0	93 W	—	52
2 17	13 33.85	−67 24.7	0.239	1.022	75.1	21.1	91 W	—	49
2 19	13 42.90	−70 5.3	0.247	1.020	75.6	21.2	90 W	—	46
2 21	13 53.42	−72 32.2	0.256	1.019	76.1	21.2	89 W	—	43
2 22	13 59.36	−73 40.6	0.261	1.018	76.2	21.3	89 W	—	42
2 23	14 5.84	−74 45.8	0.265	1.017	76.4	21.3	88 W	—	41
2 24	14 12.93	−75 47.9	0.270	1.017	76.5	21.4	88 W	—	40
2 25	14 20.73	−76 46.8	0.275	1.016	76.6	21.4	88 W	—	39
2 26	14 29.35	−77 42.6	0.279	1.016	76.7	21.4	87 W	—	38
2 27	14 38.90	−78 35.4	0.284	1.016	76.8	21.5	87 W	—	37
500769 2013 CX_{45}									
1 2	11 54.97	− 4 50.7	1.441	1.880	31.0	21.3	100 W	40	68*
1 12	12 7.46	− 7 18.0	1.309	1.844	30.8	21.0	106 W	38	71
1 22	12 18.44	− 9 45.3	1.184	1.810	30.1	20.8	113 W	35	74
2 1	12 27.45	−12 10.7	1.067	1.776	28.8	20.5	120 W	33	76
2 11	12 34.02	−14 31.7	0.961	1.744	26.8	20.1	127 W	30	79
2 16	12 36.23	−15 39.4	0.912	1.729	25.5	20.0	131 W	29	80
2 21	12 37.62	−16 44.5	0.866	1.714	24.1	19.8	135 W	28	81
2 26	12 38.15	−17 45.9	0.823	1.700	22.4	19.6	139 W	27	82
3 2	12 37.78	−18 42.9	0.784	1.686	20.6	19.4	143 W	26	83
3 7	12 36.52	−19 34.3	0.749	1.672	18.7	19.2	147 W	25	84
3 12	12 34.40	−20 19.3	0.718	1.660	16.6	19.1	151 W	25	84
3 17	12 31.49	−20 56.6	0.691	1.648	14.7	18.9	155 W	24	85
3 22	12 27.92	−21 25.2	0.668	1.636	12.9	18.8	159 W	24	85
3 27	12 23.88	−21 44.4	0.650	1.626	11.6	18.6	161 E	23	86
4 1	12 19.64	−21 54.0	0.636	1.616	11.1	18.6	162 E	23	86
4 6	12 15.46	−21 54.4	0.627	1.606	11.6	18.5	161 E	23	86
4 11	12 11.62	−21 46.6	0.622	1.598	13.0	18.5	159 E	23	86
4 16	12 8.38	−21 31.7	0.621	1.590	15.0	18.6	156 E	23	86
4 21	12 5.95	−21 11.3	0.624	1.584	17.3	18.7	152 E	24	85
4 26	12 4.53	−20 47.5	0.631	1.578	19.7	18.8	148 E	24	85
5 1	12 4.25	−20 22.3	0.641	1.573	22.1	18.9	144 E	25	84
5 6	12 5.15	−19 57.4	0.655	1.568	24.3	19.0	140 E	25	84
5 11	12 7.24	−19 34.2	0.671	1.565	26.5	19.1	136 E	25	84
5 16	12 10.49	−19 13.8	0.690	1.563	28.4	19.2	133 E	26	83
5 21	12 14.84	−18 57.1	0.711	1.562	30.2	19.3	129 E	26	83
5 26	12 20.24	−18 44.4	0.735	1.561	31.8	19.4	126 E	26*	83
5 31	12 26.60	−18 36.4	0.761	1.562	33.1	19.6	123 E	26*	83
6 10	12 41.83	−18 33.7	0.818	1.566	35.3	19.8	117 E	25*	83
6 20	12 59.84	−18 47.1	0.883	1.574	36.9	20.0	112 E	24*	83
6 30	13 20.06	−19 14.0	0.954	1.585	37.8	20.2	107 E	22*	83
7 10	13 41.97	−19 50.6	1.031	1.600	38.3	20.4	103 E	20*	84
7 20	14 5.15	−20 33.1	1.115	1.618	38.4	20.6	99 E	19*	85
7 30	14 29.32	−21 18.0	1.205	1.639	38.1	20.8	95 E	18*	85
8 9	14 54.18	−22 1.9	1.301	1.663	37.6	21.0	91 E	17*	84*
8 19	15 19.52	−22 41.9	1.402	1.689	36.8	21.2	87 E	17*	81*
8 29	15 45.20	−23 15.7	1.509	1.718	35.7	21.3	83 E	17*	77*
9 8	16 11.03	−23 41.4	1.621	1.748	34.5	21.5	80 E	17*	74*
157287 2004 RS_{292}									
1 2	11 58.41	+14 6.7	2.271	2.718	20.3	21.5	106 W	59	49*
1 12	12 2.84	+14 44.0	2.126	2.699	19.2	21.3	115 W	60	49
1 22	12 4.95	+15 39.7	1.991	2.679	17.5	21.1	125 W	61	48
2 1	12 4.40	+16 53.5	1.870	2.659	15.2	20.8	135 W	62	47
2 11	12 1.02	+18 21.8	1.768	2.637	12.4	20.6	145 W	63	46
2 21	11 54.83	+19 58.5	1.689	2.615	9.5	20.4	154 W	65	44
2 26	11 50.77	+20 47.3	1.659	2.603	8.2	20.2	158 W	66	43
3 2	11 46.18	+21 34.4	1.635	2.591	7.3	20.2	161 W	67	42
3 7	11 41.19	+22 18.6	1.619	2.579	7.0	20.1	161 W	67	42
3 12	11 35.92	+22 58.5	1.610	2.567	7.5	20.1	160 W	68	41
3 17	11 30.52	+23 33.0	1.607	2.554	8.6	20.2	157 E	69	40
3 22	11 25.17	+24 1.2	1.611	2.542	10.1	20.2	153 E	69	40
3 27	11 20.01	+24 22.3	1.621	2.529	11.8	20.3	149 E	69	40
4 1	11 15.22	+24 36.1	1.638	2.516	13.5	20.4	144 E	70	39
4 6	11 10.91	+24 42.4	1.659	2.502	15.2	20.4	139 E	70	39
4 11	11 7.20	+24 41.5	1.686	2.489	16.8	20.5	134 E	70	39
4 16	11 4.16	+24 33.9	1.716	2.475	18.4	20.6	129 E	70	39
4 21	11 1.83	+24 19.9	1.751	2.461	19.7	20.7	124 E	69	40
4 26	11 0.25	+24 0.0	1.789	2.447	21.0	20.7	120 E	69	40
5 1	10 59.43	+23 34.8	1.829	2.432	22.1	20.8	115 E	69	40
5 6	10 59.36	+23 5.0	1.871	2.417	23.0	20.9	111 E	68	41
5 11	10 59.99	+22 30.9	1.915	2.403	23.8	20.9	106 E	67*	41
5 16	11 1.31	+21 53.1	1.960	2.388	24.5	21.0	102 E	66*	42
5 21	11 3.27	+21 12.0	2.005	2.372	25.0	21.0	98 E	64*	43
5 26	11 5.84	+20 27.7	2.051	2.357	25.4	21.1	94 E	61*	44
5 31	11 8.97	+19 40.8	2.097	2.342	25.7	21.1	91 E	57*	44

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
157287 2004 RS_{292} *(continuation)*									
6 5	11 12.62	+18 51.3	2.143	2.326	25.8	21.2	87 E	54*	45
6 10	11 16.75	+17 59.7	2.188	2.310	25.9	21.2	84 E	50*	46
6 15	11 21.33	+17 5.9	2.232	2.294	25.9	21.2	80 E	47*	47
6 20	11 26.31	+16 10.2	2.275	2.278	25.8	21.2	77 E	43*	48*
6 25	11 31.68	+15 12.6	2.317	2.261	25.6	21.3	74 E	40*	48*
6 30	11 37.40	+14 13.4	2.358	2.245	25.4	21.3	71 E	37*	49*
7 5	11 43.44	+13 12.7	2.397	2.228	25.1	21.3	68 E	35*	49*
7 10	11 49.79	+12 10.5	2.435	2.212	24.7	21.3	65 E	32*	48*
7 15	11 56.42	+11 6.9	2.471	2.195	24.2	21.3	62 E	30*	47*
7 20	12 3.33	+10 2.0	2.506	2.178	23.8	21.3	60 E	27*	46*
7 25	12 10.49	+ 8 55.9	2.538	2.161	23.2	21.3	57 E	25*	45*
7 30	12 17.90	+ 7 48.8	2.569	2.144	22.7	21.3	54 E	24*	44*
8 4	12 25.54	+ 6 40.6	2.597	2.127	22.1	21.3	52 E	22*	42*
8 9	12 33.41	+ 5 31.5	2.624	2.110	21.4	21.3	49 E	20*	40*
8 14	12 41.50	+ 4 21.7	2.648	2.092	20.7	21.2	47 E	19*	38*
8 19	12 49.81	+ 3 11.0	2.671	2.075	20.0	21.2	45 E	18*	36*
8 24	12 58.34	+ 1 59.8	2.691	2.058	19.3	21.2	42 E	16*	34*
8 29	13 7.08	+ 0 48.1	2.710	2.040	18.5	21.2	40 E	15*	32*
9 3	13 16.04	− 0 24.0	2.726	2.023	17.7	21.1	38 E	14*	30*
9 8	13 25.21	− 1 36.3	2.741	2.006	16.9	21.1	35 E	13*	28*
9 13	13 34.61	− 2 48.7	2.753	1.988	16.1	21.1	33 E	12*	26*
9 18	13 44.23	− 4 1.1	2.764	1.971	15.2	21.0	31 E	11*	24*
9 23	13 54.09	− 5 13.3	2.773	1.954	14.3	21.0	29 E	10*	22*
9 28	14 4.17	− 6 25.2	2.779	1.937	13.4	20.9	27 E	9*	20*
10 3	14 14.49	− 7 36.4	2.784	1.920	12.5	20.9	25 E	8*	18*
10 8	14 25.06	− 8 47.0	2.787	1.903	11.6	20.8	23 E	7*	15*
10 13	14 35.88	− 9 56.6	2.789	1.887	10.7	20.8	21 E	7*	13*
10 18	14 46.97	−11 5.1	2.788	1.870	9.7	20.7	19 E	6*	11*
10 23	14 58.31	−12 12.2	2.786	1.854	8.8	20.7	17 E	5*	9*
10 28	15 9.93	−13 17.7	2.782	1.838	7.8	20.6	15 E	4*	7*
11 2	15 21.82	−14 21.3	2.777	1.822	6.9	20.5	13 E	3*	5*
11 7	15 33.99	−15 22.8	2.771	1.807	5.9	20.5	11 E	2*	3*
11 17	15 59.19	−17 18.5	2.754	1.777	4.0	20.3	7 E	—	—
11 27	16 25.54	−19 2.4	2.732	1.748	2.2	20.1	4 E	—	—
12 7	16 53.00	−20 32.2	2.706	1.721	1.2	20.0	2 W	—	—
12 17	17 21.53	−21 45.8	2.676	1.696	2.5	20.1	4 W	—	—
12 27	17 50.99	−22 41.0	2.644	1.674	4.4	20.1	8 W	—	—
1 6	18 21.24	−23 16.1	2.609	1.653	6.3	20.2	11 W	1*	4*
1 16	18 52.09	−23 29.9	2.573	1.635	8.3	20.2	14 W	1*	7*
239874 2000 JN_{83}									
1 2	12 7.13	+ 3 20.5	1.797	2.199	26.1	21.5	100 W	48	59*
1 12	12 16.56	+ 2 41.0	1.650	2.168	25.5	21.2	108 W	48	61*
1 22	12 24.09	+ 2 16.2	1.509	2.137	24.4	21.0	116 W	47	62
2 1	12 29.26	+ 2 8.7	1.377	2.105	22.5	20.7	125 W	47	62
2 11	12 31.66	+ 2 20.3	1.256	2.074	19.7	20.4	135 W	47	62
2 21	12 30.90	+ 2 51.7	1.151	2.042	16.1	20.0	145 W	48	61
3 2	12 26.79	+ 3 41.9	1.064	2.011	11.5	19.7	156 W	49	60
3 7	12 23.56	+ 4 12.5	1.028	1.995	8.9	19.5	162 W	49	60
3 12	12 19.64	+ 4 45.5	0.998	1.980	6.3	19.3	167 W	50	59
3 17	12 15.16	+ 5 19.8	0.974	1.964	4.0	19.1	172 W	50	59
3 22	12 10.27	+ 5 53.9	0.956	1.949	3.4	19.0	173 W	51	58
3 27	12 5.18	+ 6 26.3	0.943	1.934	5.2	19.0	170 E	51	58
4 1	12 0.11	+ 6 55.4	0.937	1.919	8.0	19.1	164 E	52	57
4 6	11 55.28	+ 7 20.0	0.936	1.904	11.0	19.2	159 E	52	57
4 11	11 50.90	+ 7 38.8	0.941	1.889	14.0	19.3	153 E	53	56
4 16	11 47.14	+ 7 51.3	0.950	1.875	16.8	19.5	147 E	53	56
4 21	11 44.13	+ 7 57.0	0.964	1.861	19.5	19.6	142 E	53	56
5 1	11 40.80	+ 7 47.0	1.003	1.833	24.3	19.8	131 E	53	56
5 11	11 41.28	+ 7 9.8	1.053	1.807	28.2	19.9	122 E	52	57
5 21	11 45.45	+ 6 8.4	1.111	1.782	31.3	20.1	114 E	51*	58
5 31	11 52.98	+ 4 46.2	1.174	1.758	33.5	20.3	107 E	48*	59
6 10	12 3.45	+ 3 6.4	1.240	1.736	35.1	20.4	100 E	43*	61
6 20	12 16.41	+ 1 12.3	1.308	1.717	36.2	20.5	94 E	38*	63
6 30	12 31.55	− 0 53.5	1.376	1.699	36.7	20.6	89 E	33*	65
7 10	12 48.54	− 3 8.1	1.444	1.684	36.9	20.7	84 E	29*	67*
7 20	13 7.18	− 5 28.9	1.513	1.671	36.8	20.8	80 E	25*	68*
7 30	13 27.32	− 7 53.2	1.581	1.661	36.4	20.9	76 E	22*	67*
8 9	13 48.81	−10 18.0	1.650	1.654	35.7	20.9	72 E	20*	65*
8 19	14 11.60	−12 40.5	1.719	1.649	34.9	21.0	69 E	18*	62*
8 29	14 35.61	−14 57.8	1.788	1.648	33.9	21.1	65 E	16*	59*
9 8	15 0.77	−17 6.8	1.859	1.649	32.7	21.1	62 E	15*	56*
9 18	15 27.00	−19 4.5	1.930	1.653	31.4	21.2	59 E	14*	53*
9 28	15 54.21	−20 48.1	2.002	1.660	29.9	21.2	56 E	14*	50*
10 8	16 22.26	−22 15.1	2.076	1.670	28.4	21.3	53 E	13*	46*
10 18	16 50.98	−23 23.5	2.150	1.682	26.7	21.3	49 E	13*	43*
10 28	17 20.17	−24 11.5	2.226	1.697	25.0	21.3	46 E	13*	40*
11 7	17 49.58	−24 38.3	2.302	1.714	23.2	21.4	43 E	13*	36*
11 17	18 18.99	−24 43.6	2.378	1.733	21.3	21.4	40 E	13*	32*
11 27	18 48.15	−24 27.8	2.453	1.755	19.3	21.4	36 E	12*	28*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
239874 2000 JN_{83} *(continuation)*									
12 7	19 16.84	−23 51.9	2.528	1.778	17.3	21.5	33 E	12*	24*
12 17	19 44.89	−22 57.6	2.601	1.803	15.3	21.5	29 E	12*	20*
170176 2003 MU_1									
1 2	12 7.98	+ 3 29.0	2.172	2.539	22.4	21.5	100 W	48	59*
1 12	12 14.29	+ 3 5.5	2.013	2.510	21.8	21.3	109 W	48	61
1 22	12 18.55	+ 2 56.8	1.861	2.479	20.5	21.0	118 W	48	61
2 1	12 20.39	+ 3 4.6	1.719	2.448	18.6	20.8	128 W	48	61
2 11	12 19.49	+ 3 30.2	1.590	2.416	15.8	20.5	138 W	49	60
2 21	12 15.66	+ 4 13.0	1.480	2.384	12.3	20.2	149 W	49	60
3 2	12 8.96	+ 5 10.8	1.392	2.351	8.0	19.8	161 W	50	59
3 7	12 4.68	+ 5 43.5	1.357	2.334	5.7	19.7	167 W	51	58
3 12	11 59.91	+ 6 17.5	1.329	2.317	3.5	19.5	172 W	51	58
3 17	11 54.79	+ 6 51.7	1.308	2.300	2.5	19.4	174 W	52	57
3 22	11 49.46	+ 7 24.9	1.293	2.283	3.9	19.4	171 E	52	57
3 27	11 44.11	+ 7 56.0	1.285	2.265	6.3	19.5	166 E	53	56
4 1	11 38.93	+ 8 23.7	1.284	2.248	8.9	19.6	160 E	53	56
4 6	11 34.09	+ 8 47.1	1.289	2.230	11.5	19.7	154 E	54	55
4 11	11 29.73	+ 9 5.6	1.300	2.213	14.0	19.8	148 E	54	55
4 21	11 22.95	+ 9 26.0	1.336	2.177	18.5	20.0	136 E	54	55
5 1	11 19.26	+ 9 23.4	1.388	2.141	22.4	20.1	126 E	54	55
5 11	11 18.90	+ 8 58.6	1.451	2.105	25.4	20.3	116 E	54	55
5 21	11 21.72	+ 8 13.9	1.522	2.070	27.8	20.4	108 E	52*	56
5 31	11 27.48	+ 7 11.4	1.596	2.034	29.4	20.5	100 E	48*	57
6 10	11 35.82	+ 5 53.6	1.672	1.998	30.5	20.6	93 E	43*	58
6 20	11 46.41	+ 4 22.5	1.746	1.963	31.1	20.7	86 E	37*	60
6 30	11 58.96	+ 2 39.6	1.818	1.928	31.3	20.8	80 E	32*	61*
7 10	12 13.23	+ 0 46.6	1.886	1.893	31.2	20.8	75 E	27*	61*
7 20	12 29.05	− 1 14.7	1.950	1.860	30.8	20.8	70 E	23*	59*
7 30	12 46.30	− 3 23.1	2.009	1.828	30.2	20.8	65 E	20*	57*
8 9	13 4.88	− 5 36.7	2.064	1.797	29.4	20.8	61 E	17*	53*
8 19	13 24.77	− 7 53.7	2.115	1.767	28.5	20.8	56 E	15*	50*
8 29	13 45.95	−10 12.1	2.161	1.740	27.4	20.8	52 E	13*	46*
9 8	14 8.41	−12 29.6	2.203	1.714	26.2	20.8	49 E	12*	43*
9 18	14 32.20	−14 43.6	2.242	1.690	24.9	20.7	45 E	11*	39*
9 28	14 57.31	−16 51.6	2.277	1.669	23.6	20.7	42 E	10*	36*
10 8	15 23.75	−18 50.2	2.311	1.651	22.1	20.7	39 E	9*	32*
10 18	15 51.49	−20 36.4	2.343	1.635	20.7	20.6	35 E	8*	29*
10 28	16 20.46	−22 7.1	2.373	1.623	19.1	20.6	32 E	8*	26*
11 7	16 50.50	−23 19.1	2.402	1.613	17.5	20.6	29 E	7*	23*
11 17	17 21.44	−24 9.9	2.432	1.607	15.9	20.5	26 E	7*	20*
11 27	17 53.02	−24 37.3	2.461	1.605	14.2	20.5	24 E	6*	16*
12 7	18 24.91	−24 40.1	2.490	1.606	12.5	20.5	21 E	5*	13*
12 17	18 56.82	−24 18.2	2.519	1.610	10.8	20.4	18 E	5*	10*
12 27	19 28.41	−23 32.1	2.549	1.618	9.0	20.4	15 E	3*	7*
1 6	19 59.41	−22 23.6	2.579	1.629	7.2	20.3	12 E	2*	4*
1 16	20 29.61	−20 54.9	2.608	1.644	5.4	20.3	9 E	—	2*
403198 2008 RV_{24}									
1 2	12 8.70	+21 12.3	1.989	2.456	22.6	21.3	106 W	66	42*
1 12	12 11.18	+20 59.7	1.840	2.429	21.5	21.1	115 W	66	43
1 22	12 10.49	+20 58.4	1.699	2.401	19.7	20.8	125 W	66	43
2 1	12 6.09	+21 5.7	1.571	2.371	17.1	20.6	135 W	66	43
2 11	11 57.60	+21 16.3	1.460	2.341	13.8	20.3	146 W	66	43
2 16	11 51.80	+21 20.4	1.413	2.325	12.0	20.1	151 W	66	43
2 21	11 45.02	+21 22.0	1.372	2.310	10.1	20.0	156 W	66	43
2 26	11 37.37	+21 19.8	1.337	2.294	8.4	19.8	160 W	66	43
3 2	11 29.02	+21 12.5	1.310	2.278	7.1	19.7	163 W	66	43
3 7	11 20.18	+20 58.7	1.291	2.262	6.9	19.6	164 W	66	43
3 12	11 11.11	+20 37.9	1.279	2.245	7.8	19.6	162 E	66	43
3 17	11 2.06	+20 9.6	1.274	2.228	9.6	19.7	158 E	65	44
3 22	10 53.31	+19 33.8	1.276	2.212	11.8	19.8	153 E	65	44
3 27	10 45.10	+18 50.9	1.286	2.195	14.1	19.9	148 E	64	45
4 1	10 37.65	+18 1.6	1.302	2.177	16.4	19.9	142 E	63	46
4 6	10 31.12	+17 6.9	1.323	2.160	18.7	20.0	136 E	62	47
4 11	10 25.59	+16 7.8	1.350	2.142	20.8	20.1	131 E	61	48
4 16	10 21.10	+15 5.1	1.381	2.125	22.7	20.2	125 E	60	49
4 21	10 17.68	+13 59.7	1.415	2.107	24.4	20.3	120 E	59	50
5 1	10 13.93	+11 43.1	1.492	2.071	27.1	20.5	110 E	57	52
5 11	10 13.94	+ 9 21.3	1.576	2.035	29.1	20.6	102 E	53*	55
5 21	10 17.17	+ 6 56.0	1.662	1.998	30.4	20.7	94 E	46*	57
5 31	10 23.14	+ 4 27.3	1.748	1.962	31.0	20.8	86 E	38*	60
6 10	10 31.40	+ 1 54.7	1.830	1.925	31.2	20.9	80 E	31*	62*
6 20	10 41.61	− 0 42.3	1.906	1.889	31.1	20.9	74 E	23*	62*
6 30	10 53.52	− 3 24.4	1.977	1.852	30.6	20.9	68 E	17*	60*
7 10	11 6.95	− 6 12.1	2.039	1.817	29.9	20.9	63 E	11*	56*
7 20	11 21.80	− 9 5.6	2.093	1.782	29.0	20.9	58 E	6*	52*
7 30	11 38.05	−12 5.2	2.140	1.747	28.0	20.9	54 E	2*	48*
8 9	11 55.72	−15 10.4	2.177	1.715	27.0	20.9	50 E	—	43*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
403198 2008 RV_{24} *(continuation)*									
8 19	12 14.91	−18 20.6	2.208	1.683	26.0	20.8	47 E	—	39*
8 29	12 35.76	−21 34.6	2.231	1.653	24.9	20.8	44 E	—	35*
9 8	12 58.46	−24 50.3	2.247	1.625	23.9	20.7	41 E	—	31*
9 18	13 23.30	−28 5.1	2.259	1.600	23.0	20.7	39 E	—	28*
9 28	13 50.56	−31 15.1	2.267	1.577	22.2	20.6	36 E	—	26*
10 8	14 20.54	−34 15.1	2.272	1.557	21.4	20.6	35 E	—	24*
10 18	14 53.51	−36 58.6	2.277	1.540	20.6	20.5	33 E	—	22*
10 28	15 29.55	−39 17.8	2.282	1.526	19.9	20.5	32 E	—	21*
11 7	16 8.51	−41 4.4	2.289	1.516	19.2	20.5	30 E	—	20*
11 12	16 28.94	−41 42.8	2.294	1.513	18.8	20.5	29 E	—	20*
11 17	16 49.85	−42 10.3	2.300	1.510	18.3	20.5	29 E	—	19*
11 22	17 11.13	−42 26.0	2.308	1.509	17.9	20.4	28 E	—	19*
11 27	17 32.60	−42 29.5	2.316	1.508	17.4	20.4	27 E	—	19*
12 2	17 54.11	−42 20.6	2.325	1.508	16.9	20.4	26 E	—	18*
12 7	18 15.49	−41 59.3	2.336	1.509	16.4	20.4	26 E	—	18*
12 12	18 36.60	−41 25.9	2.348	1.512	15.8	20.4	25 E	—	17*
12 17	18 57.29	−40 41.1	2.361	1.515	15.2	20.4	24 E	—	16*
12 22	19 17.45	−39 45.4	2.376	1.519	14.6	20.4	23 E	—	16*
12 27	19 36.97	−38 39.9	2.392	1.524	13.9	20.4	22 E	—	15*
1 1	19 55.81	−37 25.5	2.408	1.530	13.2	20.4	21 E	—	14*
1 6	20 13.93	−36 3.2	2.426	1.537	12.5	20.4	20 E	—	13*
1 11	20 31.31	−34 34.0	2.444	1.544	11.7	20.4	19 E	—	12*
1 16	20 47.97	−32 59.0	2.463	1.553	10.9	20.4	17 E	—	11*
417210 2005 XV_{77}									
1 2	12 8.91	−18 18.1	0.445	1.088	64.6	21.3	91 W	27	78*
1 7	12 21.02	−23 22.4	0.415	1.076	66.0	21.2	91 W	22	83*
1 12	12 35.03	−29 1.0	0.388	1.062	67.8	21.1	91 W	16	85*
1 17	12 51.97	−35 15.2	0.363	1.046	70.2	21.0	90 W	10	80*
1 22	13 13.52	−42 1.6	0.342	1.027	73.3	20.9	87 W	3	74*
1 27	13 42.52	−49 8.1	0.327	1.005	77.1	20.9	84 W	—	67*
2 1	14 23.84	−56 6.8	0.317	0.980	81.6	20.9	80 W	—	59*
2 6	15 24.61	−62 4.9	0.313	0.953	86.6	21.0	75 W	—	52*
2 11	16 49.22	−65 39.8	0.317	0.924	91.9	21.2	69 W	—	45*
2 16	18 24.49	−65 37.8	0.327	0.892	97.2	21.4	64 W	—	39*
482244 2011 *HR*									
1 2	12 15.59	+16 42.5	0.682	1.321	46.4	21.3	103 W	62	46*
1 12	12 39.83	+19 9.5	0.635	1.328	44.7	21.1	108 W	64	44*
1 22	13 1.84	+22 16.5	0.594	1.336	42.6	20.9	113 W	67	42
2 1	13 20.67	+26 2.6	0.558	1.343	40.2	20.8	118 W	71	38
2 11	13 35.25	+30 20.0	0.529	1.350	37.9	20.6	123 W	75	34
2 21	13 44.29	+34 54.1	0.509	1.356	35.8	20.5	127 W	80	29
2 26	13 46.28	+37 10.4	0.501	1.359	34.9	20.4	128 W	82	27
3 2	13 46.39	+39 21.1	0.496	1.362	34.2	20.4	129 W	84	25
3 7	13 44.58	+41 22.1	0.494	1.364	33.7	20.3	130 W	86	23
3 12	13 40.84	+43 9.4	0.493	1.367	33.5	20.3	131 W	88	21
3 17	13 35.27	+44 38.9	0.494	1.369	33.5	20.4	131 W	90	19
3 22	13 28.11	+45 47.0	0.498	1.371	33.7	20.4	130 W	89	18
3 27	13 19.75	+46 30.5	0.503	1.373	34.2	20.4	129 W	88	17
4 1	13 10.73	+46 47.8	0.510	1.375	34.8	20.5	128 W	88	17
4 6	13 1.62	+46 38.3	0.519	1.377	35.5	20.5	127 W	88	17
4 11	12 52.97	+46 3.2	0.530	1.378	36.4	20.6	125 E	89	18
4 16	12 45.19	+45 4.4	0.542	1.380	37.3	20.7	124 E	90	19
4 21	12 38.63	+43 44.2	0.556	1.381	38.3	20.8	122 E	89	20
4 26	12 33.48	+42 5.6	0.571	1.382	39.2	20.8	120 E	87	22
5 1	12 29.84	+40 11.5	0.587	1.382	40.2	20.9	118 E	85	24
5 6	12 27.68	+38 4.9	0.605	1.383	41.1	21.0	116 E	83	26
5 11	12 26.89	+35 48.6	0.624	1.383	42.0	21.1	114 E	81	28
5 16	12 27.37	+33 24.8	0.643	1.383	42.9	21.2	112 E	78	31
5 21	12 29.00	+30 55.1	0.664	1.383	43.6	21.3	109 E	76	33
5 26	12 31.66	+28 21.3	0.686	1.383	44.4	21.4	107 E	73	36
5 31	12 35.25	+25 44.6	0.709	1.382	45.0	21.5	105 E	71*	38
39796 1997 *TD*									
1 2	12 17.82	+ 0 3.0	2.920	3.188	17.8	21.5	97 W	45	61*
1 12	12 21.30	+ 0 8.5	2.753	3.170	17.3	21.3	106 W	45	64*
1 22	12 22.92	+ 0 29.1	2.592	3.150	16.3	21.1	116 W	45	64
2 1	12 22.42	+ 1 6.5	2.442	3.130	14.7	20.9	127 W	46	63
2 11	12 19.66	+ 2 1.0	2.307	3.108	12.4	20.7	138 W	47	62
2 21	12 14.64	+ 3 11.9	2.194	3.085	9.5	20.5	149 W	48	61
3 2	12 7.54	+ 4 36.2	2.106	3.060	6.0	20.2	161 W	50	59
3 7	12 3.36	+ 5 21.8	2.073	3.048	4.2	20.1	167 W	50	59
3 12	11 58.86	+ 6 8.6	2.047	3.034	2.6	19.9	172 W	51	58
3 17	11 54.15	+ 6 55.6	2.029	3.021	1.9	19.9	174 W	52	57
3 22	11 49.33	+ 7 42.0	2.019	3.007	3.1	19.9	171 E	53	56
3 27	11 44.52	+ 8 26.7	2.017	2.993	4.9	20.0	165 E	53	56
4 1	11 39.84	+ 9 8.8	2.023	2.979	6.8	20.1	159 E	54	55
4 6	11 35.41	+ 9 47.5	2.035	2.964	8.7	20.2	153 E	55	54
4 11	11 31.32	+10 22.2	2.055	2.949	10.6	20.3	147 E	55	54

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
39796 1997 *TD* *(continuation)*									
4 21	11 24.48	+11 18.1	2.111	2.917	13.9	20.4	136 E	56	53
5 1	11 19.83	+11 54.6	2.186	2.885	16.6	20.6	125 E	57	52
5 11	11 17.58	+12 12.1	2.276	2.850	18.8	20.7	115 E	57	52
5 21	11 17.71	+12 12.0	2.374	2.815	20.3	20.8	105 E	56*	52
5 31	11 20.11	+11 56.2	2.477	2.778	21.3	20.9	96 E	52*	52
6 10	11 24.56	+11 26.7	2.579	2.740	21.7	21.0	88 E	46*	53
6 20	11 30.83	+10 45.5	2.679	2.700	21.8	21.1	80 E	40*	53*
6 30	11 38.71	+ 9 54.0	2.774	2.659	21.4	21.1	73 E	34*	53*
7 10	11 47.99	+ 8 53.8	2.860	2.616	20.8	21.1	66 E	29*	51*
7 20	11 58.52	+ 7 45.9	2.937	2.572	19.9	21.1	59 E	25*	48*
7 30	12 10.16	+ 6 31.3	3.004	2.527	18.7	21.1	53 E	21*	43*
8 9	12 22.82	+ 5 11.1	3.058	2.480	17.4	21.0	47 E	18*	38*
8 19	12 36.41	+ 3 46.1	3.100	2.432	15.9	21.0	41 E	16*	33*
8 29	12 50.90	+ 2 17.1	3.130	2.382	14.3	20.9	36 E	13*	28*
9 8	13 6.25	+ 0 45.0	3.146	2.331	12.6	20.8	30 E	11*	23*
9 18	13 22.47	− 0 49.3	3.148	2.279	10.8	20.7	25 E	10*	18*
9 28	13 39.57	− 2 24.9	3.138	2.225	9.0	20.5	20 E	8*	12*
10 8	13 57.57	− 4 0.8	3.115	2.170	7.2	20.4	16 E	6*	7*
10 18	14 16.53	− 5 35.9	3.080	2.114	5.5	20.2	12 E	5*	2*
10 28	14 36.50	− 7 9.0	3.033	2.057	4.3	20.1	9 E	3*	—
11 7	14 57.53	− 8 38.7	2.976	1.999	3.9	19.9	8 E	1*	—
11 17	15 19.71	−10 3.5	2.909	1.940	4.7	19.9	9 W	2*	—
11 27	15 43.10	−11 21.5	2.834	1.880	6.2	19.8	12 W	6*	—
12 7	16 7.78	−12 31.0	2.752	1.819	8.1	19.8	15 W	9*	—
12 17	16 33.83	−13 29.8	2.665	1.759	10.1	19.7	18 W	12*	3*
12 27	17 1.27	−14 15.7	2.575	1.698	12.2	19.6	21 W	13*	7*
1 6	17 30.15	−14 46.2	2.483	1.637	14.3	19.6	24 W	15*	11*
1 16	18 0.46	−14 59.1	2.391	1.578	16.4	19.5	27 W	15*	15*
61256 2000 OT_{25}									
1 2	12 38.48	+ 0 54.3	2.727	2.935	19.6	21.4	92 W	46	58*
1 12	12 43.77	+ 0 34.7	2.575	2.928	19.2	21.3	101 W	46	63*
1 22	12 47.19	+ 0 27.9	2.427	2.920	18.4	21.1	110 W	45	64
2 1	12 48.47	+ 0 35.3	2.287	2.910	17.0	20.9	120 W	46	63
2 11	12 47.40	+ 0 57.1	2.159	2.900	15.0	20.7	131 W	46	63
2 21	12 43.85	+ 1 33.2	2.048	2.889	12.2	20.5	142 W	47	62
3 2	12 37.90	+ 2 21.5	1.958	2.877	8.9	20.3	153 W	47	62
3 12	12 29.92	+ 3 18.2	1.894	2.864	5.2	20.0	165 W	48	61
3 17	12 25.36	+ 3 48.0	1.872	2.857	3.4	19.9	170 W	49	60
3 22	12 20.56	+ 4 17.8	1.858	2.850	2.1	19.8	174 W	49	60
3 27	12 15.64	+ 4 46.7	1.851	2.843	2.7	19.8	172 E	50	59
4 1	12 10.73	+ 5 13.8	1.852	2.835	4.4	19.9	167 E	50	59
4 6	12 5.96	+ 5 38.5	1.860	2.828	6.3	20.0	162 E	51	58
4 11	12 1.44	+ 6 0.0	1.874	2.820	8.3	20.1	156 E	51	58
4 21	11 53.58	+ 6 31.9	1.923	2.803	12.0	20.3	144 E	52	57
5 1	11 47.78	+ 6 47.2	1.994	2.785	15.2	20.5	133 E	52	57
5 11	11 44.39	+ 6 45.4	2.082	2.766	17.8	20.6	123 E	52	57
5 21	11 43.46	+ 6 27.5	2.182	2.747	19.8	20.8	113 E	51*	58
5 31	11 44.91	+ 5 55.1	2.291	2.726	21.1	20.9	104 E	48*	58
6 10	11 48.52	+ 5 10.0	2.403	2.705	21.9	21.0	96 E	44*	59
6 20	11 54.05	+ 4 14.0	2.516	2.682	22.3	21.1	88 E	38*	60
6 30	12 1.27	+ 3 8.5	2.627	2.659	22.2	21.2	81 E	33*	61*
7 10	12 9.95	+ 1 55.0	2.734	2.635	21.7	21.2	74 E	28*	60*
7 20	12 19.91	+ 0 34.6	2.835	2.610	21.0	21.3	67 E	23*	56*
7 30	12 31.00	− 0 51.6	2.929	2.584	20.0	21.3	60 E	19*	52*
8 9	12 43.10	− 2 22.5	3.013	2.557	18.8	21.3	54 E	16*	47*
8 19	12 56.11	− 3 57.2	3.088	2.529	17.4	21.3	48 E	13*	42*
8 29	13 9.98	− 5 34.9	3.152	2.501	15.8	21.2	42 E	11*	36*
9 8	13 24.65	− 7 14.5	3.204	2.472	14.1	21.2	37 E	9*	31*
9 18	13 40.09	− 8 55.2	3.246	2.442	12.3	21.1	31 E	7*	25*
9 28	13 56.30	−10 36.1	3.275	2.412	10.4	21.1	26 E	5*	20*
10 8	14 13.26	−12 16.2	3.291	2.380	8.4	21.0	20 E	3*	14*
10 18	14 30.97	−13 54.3	3.296	2.349	6.3	20.8	15 E	1*	9*
10 28	14 49.46	−15 29.5	3.289	2.316	4.2	20.7	10 E	—	4*
11 7	15 8.70	−17 0.4	3.269	2.283	2.1	20.5	5 E	—	—
11 17	15 28.74	−18 26.1	3.239	2.250	0.3	20.3	1 W	—	—
11 27	15 49.55	−19 45.2	3.197	2.216	2.4	20.4	5 W	—	—
12 7	16 11.12	−20 56.3	3.144	2.182	4.6	20.5	10 W	2*	2*
12 17	16 33.45	−21 58.4	3.082	2.148	6.9	20.5	15 W	5*	7*
12 27	16 56.49	−22 50.0	3.010	2.113	9.2	20.5	20 W	7*	12*
1 6	17 20.19	−23 30.1	2.931	2.079	11.4	20.5	25 W	9*	17*
1 16	17 44.49	−23 57.7	2.844	2.044	13.6	20.5	29 W	10*	22*
459156 2012 CY_{54}									
1 2	12 42.84	− 5 25.6	1.541	1.810	32.9	21.4	89 W	40	63*
1 12	13 2.93	− 7 2.2	1.408	1.769	33.7	21.2	94 W	38	68*
1 22	13 23.07	− 8 29.1	1.281	1.730	34.2	20.9	99 W	37	72*
2 1	13 43.09	− 9 43.1	1.160	1.692	34.4	20.7	104 W	35	74
2 11	14 2.78	−10 41.3	1.047	1.658	34.2	20.4	109 W	34	75

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
459156 2012 CY_{54} *(continuation)*									
2 16	14 12.43	−11 3.5	0.994	1.641	34.0	20.3	112 W	34	75
2 21	14 21.87	−11 20.6	0.943	1.625	33.6	20.1	115 W	34	75
2 26	14 31.05	−11 32.2	0.894	1.611	33.1	20.0	117 W	33	76
3 2	14 39.90	−11 37.9	0.848	1.597	32.4	19.8	120 W	33	76
3 12	14 56.36	−11 31.0	0.763	1.571	30.6	19.5	126 W	33	76
3 22	15 10.64	−10 59.1	0.689	1.550	28.1	19.2	133 W	34	75
4 1	15 22.05	−10 3.2	0.626	1.533	24.8	18.9	140 W	35	74
4 6	15 26.52	− 9 27.7	0.600	1.526	22.8	18.7	144 W	36	73
4 11	15 30.11	− 8 48.3	0.577	1.520	20.7	18.5	148 W	36	73
4 16	15 32.79	− 8 6.2	0.557	1.516	18.5	18.4	151 W	37	72
4 21	15 34.57	− 7 22.9	0.540	1.513	16.1	18.2	155 W	38	71
4 26	15 35.50	− 6 40.2	0.528	1.511	13.8	18.1	159 W	38	71
5 1	15 35.70	− 6 0.1	0.519	1.510	11.7	18.0	162 W	39	70
5 6	15 35.33	− 5 24.5	0.514	1.511	10.1	17.9	165 W	40	69
5 11	15 34.55	− 4 55.1	0.513	1.512	9.3	17.9	166 W	40	69
5 16	15 33.56	− 4 33.3	0.515	1.515	9.6	17.9	165 W	40	69
5 21	15 32.56	− 4 20.2	0.522	1.520	10.9	18.0	163 E	41	68
5 31	15 31.36	− 4 22.5	0.546	1.532	14.9	18.2	157 E	41	68
6 10	15 32.28	− 5 1.0	0.585	1.548	19.3	18.6	150 E	40	69
6 20	15 35.96	− 6 9.0	0.637	1.569	23.3	18.9	142 E	39	70
6 25	15 38.93	− 6 51.3	0.667	1.581	25.0	19.1	139 E	38	71
6 30	15 42.66	− 7 37.7	0.701	1.594	26.5	19.2	136 E	37	72
7 5	15 47.10	− 8 27.0	0.737	1.608	27.9	19.4	132 E	37	72
7 10	15 52.21	− 9 18.2	0.777	1.623	29.1	19.6	129 E	36	73
7 15	15 57.93	−10 10.2	0.819	1.638	30.1	19.7	126 E	35	74
7 20	16 4.23	−11 2.5	0.863	1.655	30.9	19.9	123 E	34*	75
7 30	16 18.40	−12 45.1	0.959	1.689	32.2	20.2	118 E	32*	77
8 9	16 34.31	−14 21.1	1.065	1.727	32.9	20.5	112 E	30*	78
8 19	16 51.61	−15 47.7	1.179	1.766	33.2	20.8	107 E	29*	80
8 29	17 10.05	−17 2.6	1.302	1.807	33.1	21.0	102 E	27*	81
9 8	17 29.35	−18 4.4	1.431	1.849	32.7	21.3	97 E	26*	82
368866 2006 QL_{25}									
1 2	12 44.93	− 5 17.2	1.960	2.167	27.0	21.5	88 W	40	62*
1 12	12 56.56	− 7 20.1	1.804	2.130	27.4	21.2	95 W	38	69*
1 22	13 6.94	− 9 22.8	1.651	2.092	27.4	21.0	102 W	36	73*
2 1	13 15.69	−11 25.0	1.504	2.055	26.9	20.8	109 W	34	75
2 11	13 22.39	−13 26.7	1.365	2.018	25.8	20.5	117 W	32	77
2 21	13 26.53	−15 27.3	1.235	1.981	24.0	20.2	126 W	30	79
3 2	13 27.51	−17 25.2	1.118	1.945	21.4	19.8	134 W	28	81
3 12	13 24.86	−19 17.5	1.016	1.909	18.0	19.5	144 W	26	83
3 17	13 22.08	−20 10.2	0.971	1.891	16.0	19.3	148 W	25	84
3 22	13 18.33	−20 59.4	0.931	1.874	14.0	19.1	153 W	24	85
3 27	13 13.68	−21 44.2	0.896	1.857	11.9	18.9	157 W	23	86
4 1	13 8.25	−22 23.8	0.867	1.841	10.2	18.8	161 W	23	86
4 6	13 2.23	−22 57.5	0.842	1.824	9.0	18.6	163 W	22	87
4 11	12 55.83	−23 24.7	0.824	1.808	8.8	18.6	164 E	22	87
4 16	12 49.32	−23 45.3	0.811	1.793	9.8	18.6	162 E	21	88
4 21	12 42.99	−23 59.5	0.803	1.777	11.7	18.6	159 E	21	88
4 26	12 37.12	−24 7.9	0.800	1.763	14.1	18.6	155 E	21	88
5 1	12 31.99	−24 11.9	0.801	1.748	16.7	18.7	150 E	21	88
5 6	12 27.82	−24 12.8	0.807	1.735	19.3	18.8	145 E	21	88
5 11	12 24.73	−24 11.9	0.817	1.721	21.9	18.9	141 E	21	88
5 16	12 22.84	−24 10.6	0.830	1.709	24.3	19.0	136 E	21	88
5 21	12 22.18	−24 10.0	0.847	1.697	26.5	19.1	132 E	21	88
5 26	12 22.79	−24 11.3	0.865	1.685	28.5	19.2	127 E	21*	88
5 31	12 24.63	−24 15.2	0.886	1.674	30.3	19.3	123 E	21*	88
6 10	12 31.81	−24 32.6	0.932	1.655	33.4	19.4	116 E	19*	89
6 20	12 43.20	−25 3.3	0.984	1.638	35.7	19.6	110 E	16*	89
6 30	12 58.33	−25 46.8	1.039	1.625	37.3	19.7	104 E	14*	90
7 10	13 16.70	−26 40.2	1.098	1.615	38.4	19.9	100 E	12*	89
7 20	13 37.88	−27 39.8	1.159	1.609	39.0	20.0	95 E	10*	88*
7 30	14 1.54	−28 41.5	1.223	1.606	39.2	20.1	91 E	8*	83*
8 9	14 27.31	−29 40.9	1.290	1.607	39.1	20.2	88 E	8*	79*
8 19	14 54.87	−30 33.5	1.361	1.612	38.7	20.3	84 E	7*	76*
8 29	15 23.90	−31 15.5	1.435	1.620	38.0	20.5	81 E	7*	73*
9 8	15 54.01	−31 43.4	1.514	1.631	37.1	20.6	78 E	8*	70*
9 18	16 24.82	−31 54.4	1.597	1.646	36.1	20.7	75 E	8*	67*
9 28	16 55.96	−31 46.9	1.685	1.664	34.8	20.8	71 E	9*	65*
10 8	17 27.02	−31 20.3	1.777	1.685	33.4	20.9	68 E	10*	62*
10 18	17 57.68	−30 34.5	1.873	1.708	31.9	21.0	65 E	12*	59*
10 28	18 27.67	−29 30.7	1.972	1.734	30.2	21.1	61 E	13*	55*
11 7	18 56.77	−28 10.1	2.075	1.762	28.5	21.2	58 E	15*	52*
11 17	19 24.86	−26 34.8	2.180	1.792	26.6	21.3	54 E	16*	47*
11 27	19 51.87	−24 46.6	2.286	1.824	24.7	21.3	50 E	17*	42*
12 7	20 17.76	−22 47.6	2.392	1.857	22.6	21.4	47 E	19*	37*
12 17	20 42.57	−20 39.8	2.497	1.891	20.6	21.5	42 E	19*	32*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
138911 2001 AE_2									
1 2	12 51.23	− 6 36.5	0.918	1.303	48.9	21.4	86 W	38	62*
1 12	13 19.44	− 9 16.2	0.853	1.292	49.6	21.3	89 W	36	67*
1 22	13 48.08	−11 45.3	0.789	1.281	50.1	21.1	92 W	33	72*
2 1	14 17.07	−14 0.0	0.729	1.272	50.5	20.9	95 W	31	77*
2 11	14 46.33	−15 56.9	0.671	1.263	50.8	20.7	97 W	29	80*
2 21	15 15.68	−17 33.0	0.617	1.256	50.8	20.5	100 W	27	82
3 2	15 44.74	−18 45.3	0.565	1.250	50.5	20.3	103 W	26	83
3 7	15 59.02	−19 12.0	0.541	1.247	50.2	20.2	105 W	26	83
3 12	16 13.07	−19 32.4	0.517	1.245	49.9	20.1	107 W	25	84
3 17	16 26.81	−19 46.4	0.494	1.243	49.4	20.0	108 W	25	84
3 22	16 40.12	−19 54.0	0.472	1.242	48.8	19.9	110 W	25	84
3 27	16 52.91	−19 55.4	0.450	1.241	48.1	19.7	112 W	25	84
4 1	17 5.07	−19 51.0	0.430	1.240	47.3	19.6	114 W	25	84
4 6	17 16.52	−19 41.1	0.410	1.240	46.2	19.5	117 W	25	84
4 11	17 27.15	−19 26.4	0.391	1.240	45.0	19.3	119 W	26	83
4 21	17 45.43	−18 44.9	0.355	1.241	41.9	19.1	124 W	26	83
5 1	17 58.81	−17 52.5	0.324	1.244	37.8	18.7	131 W	27	82
5 11	18 6.43	−16 57.2	0.297	1.248	32.4	18.4	139 W	28	81
5 16	18 7.84	−16 31.0	0.286	1.251	29.2	18.2	143 W	28	81
5 21	18 7.57	−16 7.2	0.276	1.254	25.7	18.1	148 W	29	80
5 26	18 5.68	−15 46.9	0.268	1.257	21.8	17.9	153 W	29	80
5 31	18 2.32	−15 31.1	0.263	1.261	17.7	17.7	158 W	29	80
6 5	17 57.76	−15 20.4	0.259	1.265	13.5	17.6	163 W	30	79
6 10	17 52.33	−15 15.3	0.259	1.269	9.6	17.4	168 W	30	79
6 15	17 46.40	−15 16.0	0.260	1.274	6.8	17.3	171 W	30	79
6 20	17 40.42	−15 22.5	0.265	1.279	7.0	17.4	171 E	30	79
6 25	17 34.86	−15 34.6	0.272	1.284	9.8	17.6	168 E	29	80
6 30	17 30.16	−15 51.7	0.282	1.289	13.5	17.8	163 E	29	80
7 5	17 26.61	−16 13.1	0.295	1.294	17.3	18.0	158 E	29	80
7 10	17 24.36	−16 37.9	0.310	1.300	21.0	18.3	153 E	28	81
7 15	17 23.50	−17 5.2	0.327	1.305	24.4	18.5	148 E	28	81
7 20	17 24.06	−17 34.2	0.346	1.311	27.4	18.7	144 E	27	82
7 25	17 26.04	−18 4.1	0.368	1.317	30.1	18.9	139 E	27	82
7 30	17 29.36	−18 34.2	0.391	1.323	32.5	19.1	136 E	26	83
8 4	17 33.91	−19 3.5	0.416	1.329	34.6	19.3	132 E	26	83
8 9	17 39.57	−19 31.4	0.442	1.335	36.5	19.5	128 E	25	84
8 19	17 53.75	−20 21.0	0.500	1.347	39.4	19.9	122 E	25	84
8 29	18 11.19	−20 59.0	0.562	1.359	41.6	20.2	117 E	24	85
9 8	18 31.12	−21 22.3	0.629	1.371	43.1	20.5	112 E	24	85
9 18	18 52.90	−21 28.9	0.699	1.382	44.0	20.8	107 E	24	85
9 28	19 16.10	−21 17.7	0.773	1.393	44.6	21.1	103 E	24	85
10 8	19 40.25	−20 47.8	0.850	1.404	44.8	21.3	98 E	24	85
137069 1998 WQ_{15}									
1 2	13 12.11	+ 2 57.2	2.691	2.789	20.6	21.5	85 W	48	52*
1 12	13 18.89	+ 2 47.2	2.582	2.822	20.3	21.4	94 W	48	57*
1 22	13 23.77	+ 2 51.2	2.473	2.855	19.7	21.3	103 W	48	61*
2 1	13 26.47	+ 3 9.6	2.368	2.886	18.4	21.2	112 W	48	61
2 11	13 26.82	+ 3 41.8	2.272	2.917	16.7	21.1	122 W	49	60
2 21	13 24.68	+ 4 26.5	2.188	2.947	14.3	21.0	132 W	49	60
3 2	13 20.10	+ 5 20.7	2.123	2.976	11.5	20.8	143 W	50	59
3 12	13 13.36	+ 6 20.0	2.080	3.004	8.4	20.7	154 W	51	58
3 22	13 4.98	+ 7 18.6	2.064	3.032	5.4	20.5	163 W	52	57
4 1	12 55.72	+ 8 10.4	2.077	3.058	4.3	20.5	167 W	53	56
4 11	12 46.50	+ 8 49.8	2.119	3.084	6.0	20.6	161 E	54	55
4 21	12 38.13	+ 9 13.4	2.189	3.109	8.9	20.9	151 E	54	55
5 1	12 31.30	+ 9 19.8	2.284	3.133	11.7	21.1	141 E	54	55
5 11	12 26.40	+ 9 9.6	2.400	3.156	14.0	21.3	131 E	54	55
5 21	12 23.60	+ 8 44.4	2.533	3.178	15.8	21.5	121 E	54	55
358046 2006 GR_{35}									
1 2	13 17.76	+ 6 32.6	2.004	2.162	27.0	21.5	85 W	52	48*
1 12	13 29.98	+ 5 2.0	1.852	2.127	27.5	21.3	92 W	50	54*
1 22	13 40.89	+ 3 34.8	1.700	2.091	27.7	21.1	99 W	49	59*
2 1	13 50.09	+ 2 10.4	1.552	2.056	27.4	20.8	106 W	47	62
2 11	13 57.14	+ 0 47.4	1.408	2.021	26.5	20.6	114 W	46	63
2 21	14 1.50	− 0 36.4	1.273	1.986	24.9	20.3	122 W	44	65
3 2	14 2.48	− 2 3.7	1.147	1.952	22.3	19.9	132 W	43	66
3 12	13 59.46	− 3 38.0	1.036	1.918	18.7	19.5	142 W	41	68
3 22	13 51.94	− 5 22.6	0.941	1.885	13.9	19.1	153 W	40	69
4 1	13 39.87	− 7 19.2	0.868	1.852	7.8	18.7	165 W	38	71
4 11	13 24.13	− 9 27.0	0.819	1.821	1.0	18.1	178 W	36	73
4 16	13 15.43	−10 33.7	0.805	1.806	3.0	18.2	175 E	34	75
4 21	13 6.57	−11 41.1	0.796	1.792	6.7	18.4	168 E	33	76
4 26	12 57.89	−12 48.4	0.795	1.777	10.4	18.5	161 E	32	77
5 1	12 49.74	−13 55.3	0.799	1.764	14.0	18.6	155 E	31	78
5 6	12 42.38	−15 1.3	0.808	1.750	17.5	18.8	149 E	30	79
5 11	12 36.04	−16 6.2	0.823	1.737	20.6	18.9	143 E	29	80

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
358046 2006 GR_{35} *(continuation)*									
5 21	12 26.97	−18 13.2	0.863	1.713	26.1	19.1	132 E	27	82
5 31	12 23.11	−20 18.7	0.916	1.691	30.5	19.4	122 E	24*	84
6 10	12 24.30	−22 25.4	0.977	1.671	33.7	19.6	114 E	21*	86
6 20	12 30.07	−24 34.9	1.042	1.655	36.0	19.8	107 E	16*	89
6 30	12 39.96	−26 48.0	1.110	1.641	37.5	19.9	101 E	11*	89
7 10	12 53.52	−29 4.3	1.178	1.630	38.4	20.1	96 E	7*	87*
7 20	13 10.42	−31 21.9	1.246	1.622	38.8	20.2	91 E	4*	81*
7 30	13 30.50	−33 38.4	1.314	1.618	38.8	20.3	87 E	1*	75*
8 9	13 53.57	−35 50.5	1.382	1.617	38.5	20.4	83 E	—	71*
8 19	14 19.55	−37 53.7	1.450	1.619	38.0	20.5	80 E	—	66*
8 29	14 48.32	−39 43.6	1.519	1.625	37.3	20.6	77 E	—	63*
9 8	15 19.65	−41 14.9	1.589	1.634	36.4	20.7	74 E	—	60*
9 18	15 53.19	−42 22.6	1.661	1.646	35.4	20.7	72 E	—	58*
9 28	16 28.43	−43 2.5	1.736	1.661	34.2	20.8	69 E	—	57*
10 8	17 4.65	−43 11.7	1.814	1.679	33.0	20.9	66 E	—	55*
10 18	17 41.09	−42 48.7	1.896	1.700	31.6	21.0	63 E	—	54*
10 28	18 17.02	−41 54.6	1.982	1.723	30.1	21.1	60 E	1*	52*
11 7	18 51.78	−40 31.6	2.071	1.748	28.5	21.2	57 E	2*	50*
11 17	19 24.95	−38 43.4	2.163	1.775	26.8	21.2	54 E	4*	48*
11 27	19 56.30	−36 34.5	2.258	1.804	25.1	21.3	51 E	6*	45*
12 7	20 25.74	−34 9.1	2.355	1.834	23.2	21.4	47 E	8*	41*
12 17	20 53.35	−31 31.4	2.452	1.866	21.3	21.4	44 E	10*	37*
464508 2016 BR_{77}									
1 2	13 21.69	−20 4.6	2.062	2.035	27.8	21.4	75 W	25	63*
1 12	13 37.34	−23 29.0	1.923	2.002	28.9	21.3	80 W	22	71*
1 22	13 52.80	−27 1.8	1.786	1.970	29.9	21.1	85 W	18	79*
2 1	14 7.93	−30 43.5	1.654	1.937	30.6	20.9	91 W	14	84*
2 11	14 22.57	−34 34.5	1.528	1.906	31.0	20.7	96 W	10	81
2 21	14 36.49	−38 35.0	1.409	1.876	31.1	20.5	101 W	6	77
3 2	14 49.27	−42 44.1	1.299	1.846	30.9	20.3	107 W	2	73
3 7	14 55.08	−44 51.2	1.248	1.832	30.8	20.2	109 W	—	71
3 12	15 0.41	−46 59.6	1.200	1.818	30.5	20.1	112 W	—	69
3 17	15 5.15	−49 8.7	1.154	1.805	30.2	20.0	114 W	—	67
3 22	15 9.16	−51 17.6	1.111	1.792	29.9	19.9	116 W	—	65
3 27	15 12.31	−53 25.4	1.071	1.779	29.5	19.8	119 W	—	63
4 1	15 14.43	−55 30.8	1.035	1.767	29.1	19.7	121 W	—	60
4 6	15 15.38	−57 32.4	1.001	1.755	28.7	19.6	123 W	—	58
4 11	15 14.97	−59 28.4	0.970	1.744	28.3	19.5	124 W	—	57
4 16	15 13.04	−61 17.1	0.943	1.733	28.0	19.4	126 W	—	55
4 21	15 9.44	−62 56.2	0.918	1.723	27.7	19.3	127 W	—	53
4 26	15 4.15	−64 23.1	0.896	1.714	27.4	19.3	128 W	—	52
5 1	14 57.30	−65 35.8	0.878	1.705	27.2	19.2	129 W	—	50
5 3	14 54.18	−66 0.5	0.871	1.701	27.2	19.2	130 W	—	50
5 5	14 50.89	−66 22.4	0.865	1.698	27.1	19.2	130 W	—	50
5 7	14 47.46	−66 41.6	0.859	1.695	27.1	19.1	130 E	—	49
5 9	14 43.93	−66 58.0	0.854	1.692	27.1	19.1	130 E	—	49
5 11	14 40.33	−67 11.4	0.849	1.689	27.1	19.1	130 E	—	49
5 13	14 36.71	−67 21.9	0.844	1.686	27.1	19.1	131 E	—	49
5 15	14 33.12	−67 29.5	0.840	1.683	27.1	19.1	131 E	—	49
5 17	14 29.61	−67 34.1	0.837	1.680	27.2	19.1	131 E	—	48
5 19	14 26.22	−67 35.9	0.833	1.678	27.2	19.0	131 E	—	48
5 21	14 23.02	−67 34.7	0.830	1.675	27.3	19.0	131 E	—	48
5 23	14 20.03	−67 30.9	0.828	1.673	27.4	19.0	130 E	—	48
5 25	14 17.31	−67 24.3	0.826	1.671	27.5	19.0	130 E	—	49
5 27	14 14.89	−67 15.2	0.824	1.669	27.6	19.0	130 E	—	49
5 29	14 12.79	−67 3.8	0.823	1.667	27.7	19.0	130 E	—	49
5 31	14 11.06	−66 50.0	0.822	1.665	27.9	19.0	130 E	—	49
6 5	14 8.35	−66 6.8	0.821	1.661	28.3	19.0	129 E	—	50
6 10	14 8.04	−65 12.5	0.823	1.657	28.7	19.0	128 E	—	51
6 15	14 10.07	−64 9.0	0.827	1.655	29.2	19.1	127 E	—	52
6 20	14 14.29	−62 58.0	0.834	1.653	29.7	19.1	126 E	—	53
6 25	14 20.49	−61 41.1	0.843	1.652	30.2	19.1	125 E	—	54
6 30	14 28.40	−60 19.6	0.854	1.651	30.8	19.2	124 E	—	56
7 5	14 37.74	−58 54.6	0.868	1.652	31.4	19.2	122 E	—	57
7 10	14 48.23	−57 26.7	0.884	1.653	31.9	19.3	121 E	—	59
7 15	14 59.65	−55 56.6	0.902	1.655	32.5	19.3	119 E	—	60
7 20	15 11.79	−54 24.9	0.924	1.658	33.0	19.4	117 E	—	62
7 25	15 24.50	−52 52.2	0.948	1.661	33.5	19.5	116 E	—	63
7 30	15 37.60	−51 19.0	0.974	1.665	33.9	19.6	114 E	—	65
8 4	15 50.96	−49 45.7	1.004	1.670	34.4	19.6	112 E	—	66
8 9	16 4.46	−48 12.7	1.035	1.676	34.7	19.7	110 E	—	68
8 14	16 18.02	−46 40.2	1.070	1.682	35.0	19.8	108 E	—	69
8 19	16 31.58	−45 8.5	1.107	1.689	35.2	19.9	106 E	—	71
8 24	16 45.09	−43 37.9	1.147	1.697	35.4	20.0	104 E	1*	72
8 29	16 58.50	−42 8.6	1.189	1.706	35.5	20.1	101 E	2*	74
9 3	17 11.78	−40 40.6	1.233	1.715	35.5	20.2	99 E	4*	75
9 8	17 24.90	−39 13.9	1.280	1.724	35.4	20.3	97 E	5*	77
9 13	17 37.85	−37 48.6	1.329	1.734	35.3	20.4	95 E	7*	78*
9 18	17 50.62	−36 24.7	1.380	1.745	35.1	20.5	93 E	8*	79*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
464508 2016 BR_{77} *(continuation)*									
9 23	18 3.21	−35 2.1	1.433	1.756	34.8	20.5	91 E	10*	80*
9 28	18 15.62	−33 40.8	1.487	1.768	34.5	20.6	88 E	11*	79*
10 3	18 27.84	−32 20.6	1.543	1.780	34.1	20.7	86 E	12*	79*
10 8	18 39.86	−31 1.4	1.601	1.793	33.6	20.8	84 E	14*	77*
10 13	18 51.70	−29 43.1	1.660	1.806	33.1	20.9	82 E	15*	75*
10 18	19 3.37	−28 25.6	1.720	1.820	32.5	21.0	79 E	16*	73*
10 23	19 14.87	−27 8.8	1.781	1.834	31.9	21.0	77 E	18*	71*
10 28	19 26.19	−25 52.5	1.843	1.848	31.2	21.1	75 E	19*	68*
11 2	19 37.35	−24 36.7	1.906	1.862	30.5	21.2	72 E	20*	65*
11 7	19 48.34	−23 21.2	1.969	1.877	29.7	21.2	70 E	21*	62*
11 12	19 59.18	−22 5.9	2.032	1.892	28.9	21.3	68 E	22*	59*
11 17	20 9.88	−20 50.8	2.096	1.908	28.1	21.4	65 E	24*	56*
11 22	20 20.44	−19 35.8	2.160	1.923	27.2	21.4	63 E	25*	53*
11 27	20 30.85	−18 20.8	2.223	1.939	26.3	21.5	61 E	26*	49*
451092 2009 BC_{186}									
1 2	13 26.76	+10 23.7	1.582	1.789	33.2	21.4	85 W	55	44*
1 12	13 38.92	+ 8 53.8	1.513	1.824	32.6	21.4	91 W	54	50*
1 22	13 48.35	+ 7 36.6	1.441	1.861	31.5	21.3	98 W	53	55*
2 1	13 54.60	+ 6 32.0	1.370	1.899	29.9	21.2	106 W	52	57*
2 11	13 57.24	+ 5 38.6	1.300	1.937	27.5	21.0	115 W	51	58
2 21	13 55.85	+ 4 54.7	1.237	1.977	24.2	20.9	125 W	50	59
3 2	13 50.17	+ 4 17.2	1.185	2.016	20.1	20.7	136 W	49	60
3 12	13 40.40	+ 3 42.3	1.149	2.056	15.2	20.5	147 W	49	60
3 22	13 27.31	+ 3 5.5	1.135	2.096	9.7	20.3	159 W	48	61
4 1	13 12.32	+ 2 23.1	1.146	2.137	4.8	20.2	170 W	47	62
4 11	12 57.32	+ 1 32.5	1.185	2.176	5.1	20.3	169 E	47	62
4 21	12 44.04	+ 0 33.5	1.251	2.216	9.7	20.6	158 E	46	63
5 1	12 33.68	− 0 33.2	1.342	2.255	14.1	21.0	147 E	44	65
5 11	12 26.80	− 1 46.3	1.455	2.294	17.7	21.3	136 E	43	66
85762 1998 TH_4									
1 2	13 32.50	−12 3.6	2.414	2.358	23.7	21.5	75 W	33	58*
1 12	13 45.90	−13 16.3	2.259	2.329	24.7	21.3	82 W	32	65*
1 22	13 58.50	−14 21.2	2.102	2.298	25.3	21.2	89 W	31	73*
2 1	14 10.03	−15 16.9	1.945	2.268	25.6	21.0	96 W	30	78*
2 11	14 20.19	−16 2.0	1.792	2.236	25.4	20.8	103 W	29	80
2 21	14 28.61	−16 35.0	1.642	2.204	24.7	20.5	111 W	28	81
3 2	14 34.84	−16 53.9	1.500	2.171	23.3	20.3	120 W	28	81
3 12	14 38.44	−16 56.8	1.368	2.138	21.1	20.0	129 W	28	81
3 22	14 38.98	−16 41.5	1.249	2.105	18.1	19.6	139 W	28	81
4 1	14 36.18	−16 5.9	1.146	2.071	14.1	19.3	150 W	29	80
4 11	14 30.13	−15 9.5	1.062	2.037	9.1	18.9	161 W	30	79
4 16	14 26.05	−14 34.1	1.029	2.020	6.3	18.7	167 W	30	79
4 21	14 21.42	−13 54.5	1.001	2.003	3.3	18.4	173 W	31	78
4 26	14 16.41	−13 11.8	0.979	1.986	0.3	18.1	179 W	32	77
5 1	14 11.23	−12 27.1	0.964	1.969	3.1	18.3	174 E	33	76
5 6	14 6.10	−11 42.1	0.954	1.952	6.3	18.4	168 E	33	76
5 11	14 1.22	−10 58.0	0.950	1.935	9.5	18.6	161 E	34	75
5 16	13 56.78	−10 16.5	0.952	1.918	12.7	18.7	155 E	35	74
5 21	13 52.97	− 9 38.7	0.958	1.901	15.7	18.8	149 E	35	74
5 26	13 49.92	− 9 5.9	0.969	1.884	18.5	18.9	144 E	36	73
5 31	13 47.75	− 8 39.0	0.985	1.868	21.2	19.0	138 E	36	73
6 10	13 46.22	− 8 4.6	1.025	1.835	25.8	19.1	128 E	37	72
6 20	13 48.51	− 7 56.1	1.075	1.803	29.5	19.3	119 E	37*	72
6 30	13 54.47	− 8 12.2	1.132	1.772	32.4	19.5	111 E	35*	72
7 10	14 3.77	− 8 49.3	1.192	1.743	34.5	19.6	104 E	32*	73
7 20	14 16.03	− 9 43.1	1.254	1.715	36.0	19.7	98 E	30*	74
7 30	14 30.97	−10 49.9	1.317	1.688	36.9	19.8	92 E	28*	75
8 9	14 48.27	−12 5.3	1.379	1.664	37.5	19.9	87 E	26*	75*
8 19	15 7.71	−13 25.3	1.440	1.642	37.6	20.0	82 E	24*	73*
8 29	15 29.14	−14 46.1	1.500	1.622	37.5	20.0	78 E	23*	70*
9 8	15 52.37	−16 3.8	1.559	1.605	37.1	20.1	74 E	22*	67*
9 18	16 17.23	−17 14.6	1.618	1.591	36.5	20.1	70 E	21*	63*
9 28	16 43.59	−18 14.9	1.676	1.579	35.7	20.2	67 E	21*	60*
10 8	17 11.21	−19 1.5	1.735	1.571	34.7	20.2	64 E	21*	57*
10 18	17 39.89	−19 31.4	1.795	1.567	33.6	20.2	61 E	21*	53*
10 28	18 9.38	−19 42.5	1.855	1.565	32.4	20.3	58 E	21*	50*
11 7	18 39.36	−19 33.0	1.917	1.567	31.0	20.3	55 E	22*	46*
11 17	19 9.56	−19 2.6	1.981	1.573	29.6	20.4	52 E	22*	42*
11 27	19 39.70	−18 11.3	2.046	1.581	28.0	20.4	49 E	23*	38*
12 7	20 9.53	−17 0.2	2.113	1.593	26.4	20.4	46 E	23*	33*
12 17	20 38.87	−15 31.2	2.183	1.608	24.6	20.5	43 E	24*	29*
12 27	21 7.55	−13 46.5	2.253	1.626	22.8	20.5	40 E	24*	25*
1 6	21 35.50	−11 48.8	2.325	1.646	21.0	20.5	37 E	23*	21*
1 16	22 2.68	− 9 40.8	2.397	1.669	19.0	20.6	34 E	22*	17*
253822 2003 YT_{57}									
1 2	13 32.85	+ 3 55.4	3.116	3.117	18.2	21.5	81 W	49	48*
1 12	13 40.10	+ 3 51.0	2.976	3.122	18.4	21.4	89 W	49	54*
1 22	13 45.85	+ 3 59.2	2.835	3.125	18.2	21.3	98 W	49	58*
2 1	13 49.84	+ 4 20.8	2.697	3.128	17.5	21.2	107 W	49	60

253822 2003 YT_{57} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 11	13 51.84	+ 4 55.5	2.566	3.130	16.4	21.0	116 W	50	59
2 21	13 51.65	+ 5 42.4	2.445	3.131	14.8	20.8	126 W	51	58
3 2	13 49.13	+ 6 39.5	2.340	3.131	12.7	20.7	136 W	52	57
3 12	13 44.33	+ 7 43.2	2.255	3.130	10.2	20.5	146 W	53	56
3 17	13 41.13	+ 8 16.0	2.222	3.129	8.9	20.4	151 W	53	56
3 22	13 37.48	+ 8 48.4	2.195	3.128	7.7	20.3	155 W	54	55
3 27	13 33.43	+ 9 19.6	2.174	3.126	6.6	20.3	159 W	54	55
4 1	13 29.07	+ 9 48.9	2.161	3.125	5.8	20.2	161 W	55	54
4 6	13 24.51	+10 15.4	2.155	3.123	5.6	20.2	162 W	55	54
4 11	13 19.85	+10 38.4	2.156	3.121	6.0	20.2	161 W	56	53
4 21	13 10.65	+11 12.1	2.179	3.116	8.0	20.3	154 E	56	53
5 1	13 2.29	+11 26.8	2.230	3.110	10.7	20.5	145 E	56	53
5 11	12 55.45	+11 21.8	2.303	3.104	13.2	20.6	135 E	56	53
5 21	12 50.54	+10 58.5	2.395	3.096	15.4	20.8	126 E	56	53
5 31	12 47.77	+10 19.2	2.503	3.088	17.1	20.9	116 E	55*	54
6 10	12 47.14	+ 9 26.4	2.620	3.078	18.4	21.1	107 E	53*	55
6 20	12 48.54	+ 8 23.0	2.744	3.068	19.1	21.2	99 E	48*	56
6 30	12 51.79	+ 7 10.9	2.871	3.057	19.4	21.3	91 E	43*	57
7 10	12 56.69	+ 5 52.3	2.997	3.044	19.4	21.4	83 E	38*	58*
7 20	13 3.03	+ 4 28.6	3.121	3.031	18.9	21.4	76 E	33*	58*
7 30	13 10.67	+ 3 1.1	3.239	3.017	18.2	21.5	68 E	29*	55*

122259 2000 OH_{44}

1 2	13 40.40	− 8 38.9	3.009	2.902	19.0	21.5	74 W	36	54*
1 12	13 49.59	− 9 13.3	2.859	2.895	19.7	21.4	82 W	36	62*
1 22	13 57.52	− 9 37.6	2.706	2.886	19.9	21.3	90 W	35	69*
2 1	14 3.91	− 9 50.5	2.552	2.877	19.8	21.1	99 W	35	74*
2 11	14 8.48	− 9 50.8	2.402	2.866	19.1	21.0	108 W	35	74
2 21	14 10.95	− 9 37.6	2.258	2.854	17.9	20.8	118 W	35	74
3 2	14 11.07	− 9 9.8	2.125	2.842	16.0	20.6	128 W	36	73
3 12	14 8.69	− 8 27.4	2.007	2.829	13.5	20.3	139 W	37	72
3 22	14 3.83	− 7 31.3	1.908	2.814	10.3	20.1	150 W	37	72
4 1	13 56.78	− 6 24.1	1.834	2.799	6.6	19.9	161 W	39	70
4 6	13 52.60	− 5 47.7	1.807	2.791	4.6	19.7	167 W	39	70
4 11	13 48.12	− 5 10.4	1.787	2.783	2.9	19.6	172 W	40	69
4 16	13 43.45	− 4 33.0	1.774	2.774	2.1	19.5	174 W	40	69
4 21	13 38.72	− 3 56.5	1.769	2.766	3.2	19.6	171 E	41	68
4 26	13 34.04	− 3 21.6	1.770	2.757	5.2	19.7	166 E	42	67
5 1	13 29.55	− 2 49.2	1.779	2.748	7.2	19.8	160 E	42	67
5 11	13 21.58	− 1 54.8	1.816	2.729	11.1	20.0	149 E	43	66
5 21	13 15.51	− 1 17.0	1.876	2.709	14.6	20.2	137 E	44	65
5 31	13 11.76	− 0 57.6	1.954	2.688	17.5	20.3	127 E	44	65
6 10	13 10.50	− 0 56.5	2.046	2.667	19.8	20.5	117 E	44*	65
6 20	13 11.66	− 1 12.0	2.147	2.644	21.4	20.6	108 E	41*	65
6 30	13 15.10	− 1 42.2	2.253	2.621	22.5	20.7	100 E	38*	66
7 10	13 20.60	− 2 24.8	2.362	2.597	23.0	20.8	92 E	34*	66
7 20	13 27.93	− 3 17.7	2.469	2.572	23.1	20.9	84 E	30*	67*
7 30	13 36.90	− 4 18.9	2.573	2.546	22.9	21.0	77 E	27*	65*
8 9	13 47.32	− 5 26.6	2.672	2.520	22.3	21.0	70 E	24*	61*
8 19	13 59.05	− 6 39.0	2.765	2.492	21.4	21.0	64 E	21*	56*
8 29	14 11.99	− 7 54.8	2.850	2.464	20.3	21.0	58 E	19*	51*
9 8	14 26.02	− 9 12.3	2.925	2.435	19.0	21.0	52 E	17*	45*
9 18	14 41.10	−10 30.3	2.991	2.406	17.5	21.0	46 E	15*	39*
9 28	14 57.16	−11 47.3	3.047	2.376	15.9	21.0	41 E	14*	34*
10 8	15 14.15	−13 2.0	3.092	2.345	14.2	20.9	35 E	12*	28*
10 18	15 32.06	−14 13.0	3.126	2.314	12.3	20.8	30 E	10*	23*
10 28	15 50.85	−15 19.0	3.149	2.283	10.4	20.7	25 E	9*	17*
11 7	16 10.48	−16 18.5	3.160	2.251	8.5	20.6	20 E	7*	11*
11 17	16 30.92	−17 10.3	3.161	2.218	6.5	20.5	15 E	5*	6*
11 27	16 52.13	−17 53.0	3.150	2.185	4.5	20.4	10 E	3*	1*
12 7	17 14.04	−18 25.4	3.130	2.152	2.8	20.2	6 E	—	—
12 17	17 36.60	−18 46.2	3.099	2.119	2.1	20.1	5 W	—	—
12 27	17 59.73	−18 54.6	3.059	2.086	3.3	20.2	7 W	1*	—
1 6	18 23.33	−18 49.6	3.010	2.053	5.2	20.2	11 W	4*	1*
1 16	18 47.33	−18 30.7	2.953	2.021	7.3	20.2	15 W	6*	6*

468730 2010 MN_{51}

1 2	13 55.57	+ 5 41.1	1.352	1.476	40.4	21.5	77 W	51*	42*
1 12	14 29.04	+ 7 2.2	1.254	1.442	42.1	21.3	79 W	52*	44*
1 22	15 4.34	+ 8 50.1	1.168	1.408	43.7	21.2	81 W	54*	44*
2 1	15 41.22	+11 3.0	1.097	1.376	45.2	21.0	83 W	56*	44*
2 11	16 19.21	+13 34.9	1.041	1.345	46.8	20.9	83 W	58*	43*
2 21	16 57.69	+16 16.6	0.999	1.315	48.2	20.8	83 W	60*	42*
3 2	17 35.88	+18 57.8	0.971	1.289	49.6	20.7	82 W	62*	41*
3 12	18 13.05	+21 28.3	0.952	1.265	50.9	20.7	81 W	63*	39*
3 22	18 48.68	+23 40.7	0.940	1.244	52.0	20.7	80 W	63*	38*
4 1	19 22.38	+25 30.7	0.930	1.228	53.0	20.6	79 W	63*	37*
4 11	19 54.03	+26 55.6	0.918	1.216	53.9	20.6	78 W	62*	36*
4 21	20 23.69	+27 55.1	0.903	1.208	54.6	20.6	78 W	62*	36*

468730 2010 MN_{51} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	20 51.44	+28 28.3	0.881	1.206	55.1	20.5	79 W	61*	35*
5 11	21 17.46	+28 33.3	0.851	1.208	55.5	20.5	80 W	61*	35
5 16	21 29.88	+28 24.5	0.833	1.211	55.7	20.4	81 W	61*	36
5 21	21 41.91	+28 7.4	0.813	1.215	55.7	20.4	83 W	61*	36
5 26	21 53.55	+27 41.3	0.791	1.221	55.6	20.3	84 W	62*	36
5 31	22 4.79	+27 4.9	0.767	1.227	55.5	20.3	86 W	62*	37
6 5	22 15.65	+26 17.1	0.742	1.235	55.2	20.2	88 W	62*	38
6 10	22 26.12	+25 16.4	0.714	1.244	54.7	20.1	90 W	62*	39
6 15	22 36.15	+24 1.0	0.686	1.253	54.0	20.0	93 W	63*	40
6 20	22 45.70	+22 28.6	0.656	1.264	53.1	19.9	96 W	63*	42
6 25	22 54.71	+20 36.2	0.626	1.275	51.9	19.8	99 W	62*	43
6 30	23 3.14	+18 20.9	0.596	1.288	50.3	19.7	103 W	61*	46
7 5	23 10.91	+15 39.1	0.567	1.301	48.4	19.6	107 W	60*	48
7 10	23 17.96	+12 27.4	0.538	1.314	46.0	19.4	112 W	57*	52
7 15	23 24.15	+ 8 42.6	0.512	1.329	43.0	19.2	117 W	54*	55
7 20	23 29.38	+ 4 22.4	0.489	1.344	39.6	19.1	122 W	49	60
7 25	23 33.53	− 0 33.4	0.470	1.359	35.8	18.9	129 W	44	65
7 30	23 36.49	− 6 1.2	0.456	1.375	31.7	18.7	135 W	39	70
8 1	23 37.32	− 8 19.6	0.452	1.381	30.0	18.7	137 W	37	72
8 3	23 37.95	−10 41.1	0.449	1.387	28.3	18.6	140 W	34	75
8 5	23 38.37	−13 4.8	0.447	1.394	26.7	18.6	142 W	32	77
8 7	23 38.56	−15 30.0	0.447	1.400	25.2	18.5	144 W	29	80
8 9	23 38.54	−17 55.5	0.447	1.407	23.8	18.5	146 W	27	82
8 11	23 38.30	−20 20.3	0.449	1.414	22.6	18.5	148 W	25	84
8 13	23 37.84	−22 43.3	0.452	1.420	21.5	18.5	149 W	22	87
8 15	23 37.16	−25 3.7	0.457	1.427	20.7	18.5	150 W	20	89
8 17	23 36.26	−27 20.3	0.462	1.434	20.1	18.5	151 W	18	89
8 19	23 35.16	−29 32.3	0.469	1.440	19.8	18.5	151 W	15	86
8 21	23 33.87	−31 39.0	0.477	1.447	19.8	18.6	151 W	13	84
8 23	23 32.40	−33 39.6	0.485	1.454	19.9	18.6	151 W	11	82
8 25	23 30.78	−35 33.7	0.495	1.461	20.3	18.7	150 W	9	80
8 27	23 29.00	−37 21.0	0.506	1.468	20.8	18.8	149 W	8	79
8 29	23 27.11	−39 1.1	0.518	1.475	21.4	18.9	148 W	6	77
9 3	23 21.99	−42 39.7	0.552	1.492	23.3	19.1	144 W	2	73
9 8	23 16.60	−45 34.2	0.591	1.509	25.4	19.3	140 W	—	70
9 13	23 11.32	−47 47.8	0.633	1.526	27.3	19.5	136 E	—	68
9 18	23 6.53	−49 25.0	0.679	1.543	29.0	19.8	132 E	—	67
9 23	23 2.53	−50 30.5	0.727	1.560	30.5	20.0	128 E	—	65
9 28	22 59.57	−51 9.6	0.778	1.577	31.7	20.2	124 E	—	65
10 3	22 57.75	−51 26.5	0.830	1.594	32.7	20.4	121 E	—	65
10 8	22 57.09	−51 25.3	0.884	1.610	33.4	20.6	117 E	—	65
10 13	22 57.57	−51 8.8	0.939	1.627	34.0	20.7	114 E	—	65
10 18	22 59.13	−50 39.8	0.994	1.643	34.4	20.9	111 E	—	65
10 23	23 1.71	−50 0.3	1.050	1.659	34.7	21.0	108 E	—	66
10 28	23 5.18	−49 12.1	1.107	1.674	34.9	21.2	106 E	—	67
11 2	23 9.45	−48 16.7	1.163	1.690	34.9	21.3	103 E	—	68
11 7	23 14.39	−47 15.1	1.220	1.705	34.9	21.4	100 E	—	69

454225 2013 JQ_{28}

1 2	14 11.49	+13 12.4	1.352	1.473	40.4	21.5	76 W	58*	34*
1 12	14 41.21	+11 51.2	1.298	1.464	41.2	21.4	79 W	57*	38*
1 22	15 9.58	+10 36.3	1.248	1.459	41.7	21.3	81 W	56*	42*
2 1	15 36.27	+ 9 28.9	1.200	1.459	42.1	21.3	83 W	54*	46*
2 11	16 0.94	+ 8 28.9	1.154	1.465	42.2	21.2	86 W	53*	50*
2 21	16 23.32	+ 7 35.3	1.108	1.475	42.1	21.1	89 W	53	54*
3 2	16 43.04	+ 6 46.4	1.061	1.490	41.6	21.0	93 W	52	56*
3 12	16 59.75	+ 5 58.6	1.012	1.510	40.7	20.9	98 W	51	58*
3 22	17 13.08	+ 5 7.7	0.962	1.534	39.3	20.8	103 W	50	59
4 1	17 22.51	+ 4 8.0	0.912	1.561	37.1	20.7	109 W	49	60
4 11	17 27.57	+ 2 51.9	0.864	1.592	34.1	20.5	117 W	48	61
4 21	17 27.80	+ 1 11.9	0.819	1.626	30.1	20.3	126 W	46	63
4 26	17 26.00	+ 0 10.4	0.800	1.644	27.7	20.2	131 W	45	64
5 1	17 22.93	− 0 59.7	0.784	1.662	24.9	20.1	136 W	44	65
5 6	17 18.65	− 2 18.8	0.771	1.681	22.0	20.0	141 W	43	66
5 11	17 13.26	− 3 46.6	0.762	1.701	18.8	19.9	147 W	41	68
5 16	17 6.93	− 5 22.3	0.757	1.721	15.4	19.8	153 W	40	69
5 21	16 59.85	− 7 4.5	0.758	1.741	12.1	19.7	159 W	38	71
5 26	16 52.31	− 8 51.3	0.765	1.762	8.9	19.7	164 W	36	73
5 31	16 44.60	−10 40.4	0.778	1.783	6.6	19.6	168 W	34	75
6 5	16 37.04	−12 29.4	0.798	1.804	6.0	19.7	169 E	33	76
6 10	16 29.91	−14 15.9	0.823	1.826	7.5	19.8	166 E	31	78
6 15	16 23.43	−15 58.3	0.855	1.848	9.9	20.0	162 E	29	80
6 20	16 17.81	−17 35.2	0.893	1.870	12.5	20.3	157 E	27	82
6 25	16 13.17	−19 6.1	0.937	1.892	15.0	20.5	151 E	26	83
6 30	16 9.60	−20 30.6	0.985	1.914	17.3	20.7	146 E	24	85
7 5	16 7.12	−21 48.9	1.039	1.936	19.4	20.9	141 E	23	86
7 10	16 5.72	−23 1.2	1.096	1.958	21.2	21.1	136 E	22	87
7 15	16 5.35	−24 7.9	1.157	1.981	22.7	21.3	131 E	21	88
7 20	16 5.97	−25 9.7	1.222	2.003	24.0	21.5	127 E	20*	89

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
235756 2004 *VC*									
1 2	14 12.39	−28 41.0	1.329	1.214	45.2	21.5	61 W	16*	54*
1 7	14 31.43	−28 26.4	1.282	1.195	46.6	21.4	62 W	16*	55*
1 12	14 51.20	−27 58.1	1.234	1.175	48.1	21.3	63 W	17*	55*
1 17	15 11.73	−27 14.6	1.186	1.155	49.7	21.2	63 W	17*	56*
1 22	15 33.03	−26 13.9	1.140	1.134	51.3	21.2	64 W	18*	57*
1 27	15 55.10	−24 54.1	1.096	1.113	52.9	21.1	64 W	20*	57*
2 1	16 17.91	−23 13.4	1.054	1.092	54.6	21.0	65 W	21*	57*
2 6	16 41.42	−21 10.6	1.015	1.070	56.4	20.9	65 W	23*	56*
2 11	17 5.58	−18 44.9	0.981	1.049	58.1	20.9	64 W	24*	55*
2 16	17 30.29	−15 56.7	0.952	1.027	59.7	20.8	64 W	26*	54*
2 21	17 55.45	−12 47.7	0.929	1.006	61.3	20.7	63 W	29*	52*
2 26	18 20.93	− 9 21.2	0.913	0.985	62.8	20.7	62 W	31*	50*
3 2	18 46.60	− 5 42.2	0.904	0.964	64.0	20.7	61 W	33*	48*
3 7	19 12.34	− 1 56.9	0.903	0.945	64.9	20.7	60 W	34*	45*
3 12	19 38.03	+ 1 47.8	0.911	0.926	65.5	20.6	58 W	36*	42*
3 17	20 3.58	+ 5 25.2	0.926	0.908	65.7	20.6	56 W	37*	39*
3 22	20 28.89	+ 8 49.6	0.948	0.892	65.5	20.7	55 W	37*	36*
3 27	20 53.90	+11 56.7	0.976	0.878	64.9	20.7	53 W	37*	34*
4 1	21 18.53	+14 43.6	1.009	0.866	63.9	20.7	51 W	37*	31*
4 6	21 42.77	+17 8.9	1.045	0.856	62.6	20.7	49 W	36*	29*
4 11	22 6.60	+19 12.5	1.085	0.848	61.0	20.7	48 W	35*	27*
4 16	22 30.01	+20 55.2	1.126	0.843	59.2	20.7	46 W	34*	26*
4 21	22 52.99	+22 18.2	1.167	0.840	57.3	20.7	45 W	33*	25*
4 26	23 15.52	+23 23.1	1.208	0.840	55.4	20.7	43 W	31*	24*
5 1	23 37.61	+24 11.5	1.248	0.843	53.4	20.8	42 W	30*	23*
5 6	23 59.27	+24 44.8	1.286	0.849	51.6	20.8	41 W	29*	23*
5 11	0 20.49	+25 4.7	1.321	0.857	49.9	20.8	40 W	27*	23*
5 16	0 41.30	+25 12.7	1.353	0.867	48.3	20.9	40 W	26*	23*
5 21	1 1.69	+25 9.9	1.383	0.880	46.9	20.9	39 W	25*	23*
5 26	1 21.67	+24 57.3	1.409	0.894	45.8	20.9	39 W	24*	24*
5 31	1 41.24	+24 35.7	1.431	0.910	44.8	21.0	39 W	23*	24*
6 5	2 0.42	+24 5.9	1.450	0.928	44.0	21.0	39 W	22*	25*
6 10	2 19.22	+23 28.5	1.466	0.947	43.4	21.1	40 W	22*	26*
6 15	2 37.64	+22 44.1	1.479	0.966	43.0	21.1	40 W	21*	27*
6 20	2 55.71	+21 52.9	1.489	0.987	42.7	21.2	41 W	21*	28*
6 25	3 13.41	+20 55.2	1.496	1.008	42.6	21.2	42 W	21*	29*
6 30	3 30.76	+19 51.4	1.500	1.029	42.5	21.3	43 W	21*	31*
7 5	3 47.76	+18 41.5	1.502	1.051	42.5	21.3	44 W	21*	32*
7 10	4 4.43	+17 25.9	1.502	1.073	42.6	21.4	46 W	22*	33*
7 15	4 20.78	+16 4.7	1.500	1.094	42.6	21.4	47 W	22*	35*
7 20	4 36.79	+14 37.9	1.497	1.115	42.7	21.5	48 W	23*	36*
169675 2002 JM_{97}									
1 2	14 16.86	− 3 42.0	2.540	2.353	22.8	21.5	68 W	41*	44*
1 12	14 32.62	− 4 55.4	2.359	2.288	24.4	21.3	74 W	40*	51*
1 22	14 48.42	− 6 4.0	2.176	2.222	25.8	21.1	80 W	39	58*
2 1	15 4.19	− 7 7.9	1.993	2.156	27.1	20.9	86 W	38	64*
2 11	15 19.85	− 8 7.1	1.812	2.089	28.2	20.6	92 W	37	70*
2 21	15 35.32	− 9 2.4	1.635	2.021	29.0	20.4	98 W	36	73*
3 2	15 50.46	− 9 54.7	1.463	1.953	29.5	20.1	104 W	35	74
3 12	16 5.14	−10 46.2	1.298	1.884	29.7	19.7	110 W	34	75
3 22	16 19.21	−11 39.8	1.141	1.816	29.5	19.4	116 W	33	76
4 1	16 32.44	−12 40.1	0.994	1.748	28.8	19.0	123 W	32	77
4 6	16 38.69	−13 14.8	0.924	1.714	28.2	18.7	126 W	32	77
4 11	16 44.66	−13 53.8	0.857	1.681	27.5	18.5	129 W	31	78
4 16	16 50.31	−14 38.6	0.793	1.648	26.6	18.3	133 W	30	79
4 21	16 55.61	−15 30.6	0.732	1.615	25.5	18.0	136 W	29	80
4 26	17 0.53	−16 31.5	0.675	1.583	24.2	17.8	140 W	28	81
5 1	17 5.04	−17 43.4	0.621	1.552	22.6	17.5	144 W	27	82
5 6	17 9.13	−19 8.7	0.570	1.521	20.9	17.2	147 W	26	83
5 11	17 12.80	−20 49.8	0.523	1.491	18.9	16.9	151 W	24	85
5 16	17 16.02	−22 49.4	0.480	1.462	16.7	16.6	155 W	22	87
5 21	17 18.79	−25 9.8	0.441	1.434	14.4	16.3	159 W	20	89
5 26	17 21.16	−27 53.2	0.407	1.407	12.2	16.0	163 W	17	88
5 31	17 23.21	−31 0.8	0.376	1.381	10.6	15.7	165 W	14	85
6 5	17 25.08	−34 32.4	0.350	1.357	10.4	15.5	166 W	10	81
6 10	17 26.96	−38 25.7	0.328	1.334	11.9	15.4	164 W	7	78
6 15	17 29.08	−42 36.2	0.311	1.314	14.8	15.4	161 E	2	73
6 20	17 31.80	−46 56.7	0.299	1.295	18.6	15.4	156 E	—	69
6 22	17 33.17	−48 41.7	0.295	1.288	20.2	15.4	154 E	—	67
6 24	17 34.76	−50 26.4	0.292	1.281	21.8	15.4	152 E	—	66
6 26	17 36.63	−52 10.0	0.289	1.275	23.5	15.4	150 E	—	64
6 28	17 38.82	−53 52.0	0.287	1.269	25.1	15.5	148 E	—	62
6 30	17 41.39	−55 31.8	0.285	1.264	26.7	15.5	146 E	—	60
7 2	17 44.39	−57 8.9	0.284	1.258	28.2	15.5	144 E	—	59
7 4	17 47.88	−58 42.6	0.284	1.254	29.7	15.5	142 E	—	57
7 6	17 51.92	−60 12.6	0.284	1.249	31.1	15.6	141 E	—	56
7 8	17 56.57	−61 38.2	0.284	1.245	32.5	15.6	139 E	—	54
7 10	18 1.90	−62 59.1	0.285	1.241	33.7	15.7	137 E	—	53
7 12	18 7.95	−64 14.7	0.287	1.238	34.9	15.7	136 E	—	52
7 14	18 14.78	−65 24.7	0.288	1.235	36.0	15.7	134 E	—	51

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
169675 2002 JM_{97} *(continuation)*									
7 16	18 22.44	−66 28.7	0.290	1.233	37.0	15.8	133 E	—	50
7 18	18 30.94	−67 26.3	0.292	1.231	37.9	15.8	132 E	—	49
7 20	18 40.28	−68 17.1	0.295	1.230	38.7	15.8	131 E	—	48
7 22	18 50.45	−69 0.8	0.298	1.229	39.4	15.9	130 E	—	47
7 24	19 1.38	−69 37.2	0.301	1.228	40.0	15.9	129 E	—	46
7 26	19 12.98	−70 6.1	0.304	1.228	40.5	16.0	128 E	—	46
7 28	19 25.10	−70 27.3	0.308	1.228	40.9	16.0	128 E	—	46
7 30	19 37.59	−70 40.8	0.312	1.228	41.3	16.0	127 E	—	45
7 31	19 43.91	−70 44.7	0.314	1.229	41.4	16.0	127 E	—	45
8 1	19 50.25	−70 46.7	0.316	1.229	41.5	16.1	127 E	—	45
8 2	19 56.59	−70 46.8	0.318	1.230	41.6	16.1	126 E	—	45
8 3	20 2.89	−70 45.1	0.320	1.231	41.7	16.1	126 E	—	45
8 4	20 9.14	−70 41.6	0.322	1.232	41.7	16.1	126 E	—	45
8 5	20 15.31	−70 36.3	0.324	1.233	41.8	16.1	126 E	—	45
8 6	20 21.38	−70 29.2	0.326	1.234	41.8	16.2	126 E	—	46
8 7	20 27.34	−70 20.5	0.329	1.235	41.8	16.2	126 E	—	46
8 8	20 33.17	−70 10.1	0.331	1.237	41.8	16.2	126 E	—	46
8 9	20 38.85	−69 58.1	0.333	1.238	41.8	16.2	126 E	—	46
8 11	20 49.72	−69 29.6	0.338	1.241	41.7	16.2	126 E	—	47
8 13	20 59.91	−68 55.4	0.344	1.245	41.5	16.3	126 E	—	47
8 15	21 9.36	−68 16.0	0.349	1.249	41.3	16.3	126 E	—	48
8 17	21 18.08	−67 31.7	0.355	1.253	41.0	16.3	126 E	—	48
8 19	21 26.10	−66 43.0	0.361	1.258	40.7	16.4	126 E	—	49
8 21	21 33.43	−65 50.4	0.367	1.263	40.3	16.4	126 E	—	50
8 23	21 40.14	−64 54.1	0.373	1.268	40.0	16.5	126 E	—	51
8 25	21 46.27	−63 54.6	0.380	1.274	39.6	16.5	127 E	—	52
8 27	21 51.88	−62 52.2	0.387	1.281	39.1	16.5	127 E	—	53
8 29	21 57.01	−61 47.3	0.394	1.287	38.7	16.6	127 E	—	54
8 31	22 1.72	−60 40.2	0.402	1.294	38.2	16.6	128 E	—	55
9 2	22 6.04	−59 31.1	0.410	1.301	37.7	16.7	128 E	—	56
9 4	22 10.02	−58 20.3	0.418	1.309	37.3	16.7	128 E	—	58
9 6	22 13.71	−57 8.1	0.427	1.317	36.8	16.7	129 E	—	59
9 8	22 17.14	−55 54.6	0.436	1.325	36.3	16.8	129 E	—	60
9 10	22 20.34	−54 40.1	0.445	1.333	35.9	16.8	129 E	—	61
9 12	22 23.34	−53 24.8	0.455	1.342	35.4	16.9	129 E	—	63
9 14	22 26.18	−52 8.9	0.466	1.351	35.0	16.9	130 E	—	64
9 16	22 28.88	−50 52.6	0.477	1.361	34.6	17.0	130 E	—	65
9 18	22 31.47	−49 35.9	0.488	1.370	34.2	17.0	130 E	—	66
9 23	22 37.55	−46 24.3	0.519	1.395	33.4	17.2	130 E	—	70
9 28	22 43.28	−43 14.4	0.553	1.421	32.7	17.4	130 E	2	73
10 3	22 48.81	−40 8.5	0.590	1.449	32.2	17.5	129 E	5	76
10 8	22 54.25	−37 8.1	0.631	1.478	31.9	17.7	129 E	8	79
10 13	22 59.67	−34 14.0	0.676	1.507	31.7	17.9	127 E	11	82
10 18	23 5.15	−31 26.9	0.724	1.538	31.6	18.1	126 E	14	85
10 28	23 16.46	−26 15.1	0.832	1.601	31.6	18.5	122 E	19	90
11 7	23 28.27	−21 32.9	0.954	1.666	31.7	18.9	118 E	23	86
11 17	23 40.59	−17 18.0	1.088	1.733	31.7	19.2	113 E	28	81
11 27	23 53.45	−13 26.8	1.235	1.801	31.4	19.6	108 E	32	77
12 7	0 6.76	− 9 56.2	1.392	1.869	31.0	19.9	102 E	35	74*
12 17	0 20.46	− 6 42.9	1.558	1.938	30.3	20.2	97 E	38	69*
12 27	0 34.53	− 3 44.2	1.730	2.006	29.4	20.5	91 E	41	62*
1 6	0 48.90	− 0 58.4	1.908	2.074	28.2	20.7	85 E	44	56*
1 16	1 3.53	+ 1 36.3	2.089	2.141	26.9	21.0	80 E	47	50*
175706 1996 FG_3									
1 2	14 18.90	−15 29.2	1.423	1.315	41.9	21.4	63 W	29*	49*
1 7	14 34.48	−16 49.9	1.375	1.298	43.1	21.3	64 W	28*	51*
1 12	14 50.75	−18 8.8	1.327	1.279	44.3	21.2	65 W	27*	53*
1 17	15 7.82	−19 25.2	1.279	1.259	45.6	21.2	66 W	25*	55*
1 22	15 25.77	−20 38.2	1.233	1.239	46.9	21.1	67 W	24*	57*
1 27	15 44.71	−21 46.9	1.187	1.216	48.3	21.0	67 W	23*	58*
2 1	16 4.73	−22 50.1	1.143	1.193	49.8	20.9	68 W	22*	60*
2 6	16 25.94	−23 46.1	1.101	1.168	51.4	20.8	68 W	21*	60*
2 11	16 48.43	−24 33.1	1.062	1.143	53.0	20.8	68 W	20*	61*
2 16	17 12.25	−25 9.0	1.025	1.116	54.7	20.7	67 W	19*	61*
2 21	17 37.41	−25 31.3	0.992	1.088	56.5	20.6	67 W	18*	60*
2 26	18 3.87	−25 37.5	0.962	1.060	58.4	20.5	66 W	17*	60*
3 2	18 31.50	−25 25.0	0.937	1.030	60.3	20.5	64 W	16*	58*
3 7	19 0.12	−24 51.4	0.917	1.000	62.2	20.4	63 W	15*	57*
3 12	19 29.46	−23 55.3	0.902	0.969	64.0	20.4	61 W	14*	55*
3 17	19 59.22	−22 35.8	0.893	0.938	65.8	20.3	59 W	13*	53*
3 22	20 29.07	−20 53.5	0.890	0.907	67.4	20.3	57 W	12*	51*
3 27	20 58.69	−18 50.0	0.894	0.875	68.6	20.3	55 W	12*	49*
4 1	21 27.81	−16 28.0	0.904	0.845	69.6	20.3	52 W	11*	46*
4 6	21 56.26	−13 51.1	0.922	0.815	70.0	20.2	50 W	11*	44*
4 11	22 23.96	−11 3.1	0.946	0.787	70.0	20.2	48 W	10*	42*
4 16	22 50.89	− 8 7.7	0.976	0.761	69.3	20.2	45 W	10*	39*
4 21	23 17.12	− 5 8.6	1.011	0.738	68.1	20.2	43 W	9*	37*
4 26	23 42.71	− 2 8.9	1.052	0.718	66.2	20.1	41 W	9*	35*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
175706 1996 FG_3 *(continuation)*									
5 1	0 7.78	+ 0 48.6	1.098	0.703	63.7	20.1	39 W	9*	32*
5 6	0 32.44	+ 3 41.5	1.146	0.692	60.7	20.1	37 W	8*	30*
5 11	0 56.81	+ 6 27.7	1.197	0.686	57.4	20.0	35 W	8*	28*
5 16	1 20.95	+ 9 5.4	1.250	0.686	53.9	20.0	33 W	8*	26*
5 21	1 44.90	+11 32.9	1.303	0.691	50.2	20.0	32 W	8*	25*
5 31	2 32.25	+15 51.9	1.408	0.717	43.3	20.1	29 W	8*	21*
6 10	3 18.67	+19 17.4	1.508	0.759	37.4	20.2	27 W	9*	19*
6 20	4 3.82	+21 47.2	1.598	0.812	32.8	20.3	26 W	9*	17*
6 25	4 25.78	+22 41.9	1.640	0.842	31.0	20.4	25 W	10*	16*
6 30	4 47.28	+23 23.8	1.679	0.872	29.6	20.5	25 W	10*	15*
7 5	5 8.26	+23 53.6	1.716	0.903	28.4	20.6	25 W	11*	15*
7 10	5 28.71	+24 12.1	1.750	0.934	27.5	20.7	25 W	12*	14*
7 15	5 48.61	+24 20.3	1.781	0.966	26.7	20.8	25 W	13*	14*
7 20	6 7.94	+24 18.8	1.810	0.996	26.2	20.9	26 W	14*	14*
7 25	6 26.70	+24 8.6	1.836	1.027	25.9	21.0	26 W	15*	14*
7 30	6 44.88	+23 50.5	1.858	1.056	25.7	21.0	27 W	16*	14*
8 4	7 2.49	+23 25.2	1.879	1.085	25.6	21.1	28 W	17*	14*
8 9	7 19.55	+22 53.4	1.896	1.113	25.6	21.2	28 W	18*	14*
8 14	7 36.08	+22 15.9	1.910	1.140	25.7	21.3	29 W	19*	14*
8 19	7 52.11	+21 33.1	1.922	1.166	26.0	21.3	30 W	21*	15*
8 24	8 7.65	+20 45.7	1.931	1.190	26.3	21.4	31 W	22*	15*
8 29	8 22.72	+19 54.2	1.936	1.214	26.6	21.5	33 W	23*	16*
189118 2001 VD_{47}									
1 2	14 20.59	−22 28.5	3.691	3.324	15.0	21.5	61 W	22*	51*
1 12	14 30.30	−23 27.7	3.542	3.310	16.0	21.4	68 W	22*	59*
1 22	14 39.05	−24 22.6	3.385	3.295	16.9	21.3	76 W	21	68*
2 1	14 46.63	−25 12.9	3.223	3.279	17.4	21.2	85 W	20	78*
2 11	14 52.77	−25 57.7	3.058	3.262	17.6	21.1	93 W	19	87*
2 21	14 57.21	−26 36.3	2.894	3.244	17.4	21.0	102 W	18	89
3 2	14 59.65	−27 7.4	2.735	3.226	16.7	20.8	111 W	18	89
3 12	14 59.87	−27 29.6	2.583	3.206	15.5	20.6	121 W	18	89
3 22	14 57.67	−27 41.0	2.445	3.186	13.7	20.4	131 W	17	88
4 1	14 53.03	−27 39.1	2.323	3.165	11.4	20.2	141 W	17	88
4 11	14 46.16	−27 21.9	2.223	3.143	8.6	20.0	152 W	18	89
4 21	14 37.52	−26 48.4	2.148	3.120	5.7	19.8	162 W	18	89
4 26	14 32.77	−26 25.5	2.121	3.108	4.4	19.7	166 W	19	90
5 1	14 27.88	−25 58.9	2.101	3.096	3.6	19.6	169 E	19	90
5 6	14 22.98	−25 29.1	2.088	3.083	3.7	19.6	169 E	20	89
5 11	14 18.18	−24 56.7	2.083	3.071	4.7	19.6	166 E	20	89
5 16	14 13.60	−24 22.4	2.084	3.058	6.2	19.7	161 E	21	88
5 21	14 9.35	−23 46.9	2.093	3.045	7.8	19.8	156 E	21	88
5 26	14 5.52	−23 11.2	2.108	3.032	9.4	19.9	151 E	22	87
5 31	14 2.18	−22 36.0	2.129	3.019	11.0	19.9	145 E	22	87
6 5	13 59.40	−22 2.1	2.156	3.005	12.5	20.0	140 E	23	86
6 10	13 57.21	−21 30.1	2.188	2.992	13.9	20.1	135 E	23	86
6 20	13 54.65	−20 33.7	2.266	2.964	16.4	20.2	125 E	24*	85
6 30	13 54.57	−19 49.7	2.357	2.935	18.3	20.3	115 E	23*	84
7 10	13 56.84	−19 19.3	2.457	2.905	19.7	20.5	106 E	22*	83
7 20	14 1.27	−19 2.3	2.562	2.874	20.5	20.6	97 E	20*	83
7 30	14 7.67	−18 57.6	2.669	2.843	20.9	20.6	89 E	18*	81*
8 9	14 15.82	−19 3.8	2.775	2.810	20.9	20.7	82 E	16*	75*
8 19	14 25.55	−19 19.1	2.877	2.777	20.5	20.7	74 E	14*	68*
8 29	14 36.70	−19 41.7	2.972	2.743	19.8	20.8	67 E	13*	61*
9 8	14 49.14	−20 9.7	3.060	2.709	18.9	20.8	60 E	11*	54*
9 18	15 2.77	−20 41.4	3.139	2.674	17.7	20.7	54 E	10*	48*
9 28	15 17.49	−21 15.0	3.207	2.638	16.3	20.7	48 E	9*	42*
10 8	15 33.23	−21 48.8	3.265	2.601	14.7	20.7	41 E	8*	35*
10 18	15 49.94	−22 21.3	3.310	2.564	13.0	20.6	35 E	6*	29*
10 28	16 7.54	−22 50.7	3.342	2.526	11.2	20.5	30 E	5*	23*
11 7	16 25.98	−23 15.6	3.362	2.488	9.3	20.4	24 E	4*	18*
11 17	16 45.20	−23 34.5	3.369	2.449	7.2	20.3	18 E	2*	12*
11 27	17 5.14	−23 45.9	3.363	2.409	5.1	20.2	13 E	—	6*
12 7	17 25.71	−23 48.5	3.344	2.370	3.0	20.0	7 E	—	1*
12 17	17 46.85	−23 41.0	3.313	2.329	0.8	19.8	2 E	—	—
12 27	18 8.45	−23 22.4	3.270	2.289	1.5	19.8	3 W	—	—
1 6	18 30.44	−22 51.8	3.216	2.249	3.7	19.8	9 W	—	2*
1 16	18 52.73	−22 8.4	3.152	2.208	6.0	19.9	14 W	2*	7*
500787 2013 EJ_{107}									
1 2	14 24.96	− 2 4.8	2.102	1.936	27.8	21.5	67 W	42*	41*
1 12	14 43.86	− 4 20.7	1.961	1.892	29.5	21.3	71 W	40*	48*
1 22	15 2.92	− 6 38.7	1.819	1.849	31.1	21.2	76 W	38*	56*
2 1	15 22.10	− 9 0.2	1.678	1.806	32.6	21.0	81 W	36	63*
2 11	15 41.42	−11 27.7	1.538	1.764	33.9	20.8	86 W	34	69*
2 21	16 0.87	−14 4.3	1.403	1.724	35.0	20.6	91 W	31	75*
3 2	16 20.44	−16 54.1	1.272	1.684	35.9	20.3	95 W	28	81*
3 12	16 40.13	−20 2.4	1.147	1.647	36.4	20.1	100 W	25	84
3 22	17 0.01	−23 35.9	1.030	1.611	36.6	19.8	105 W	21	88

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
500787 2013 EJ_{107} *(continuation)*									
4 1	17 20.05	−27 41.5	0.924	1.578	36.4	19.5	110 W	17	88
4 11	17 40.38	−32 26.2	0.829	1.548	35.9	19.2	115 W	13	84
4 21	18 1.09	−37 54.7	0.747	1.521	35.0	18.9	120 W	7	78
4 26	18 11.60	−40 55.2	0.713	1.509	34.5	18.8	122 W	4	75
5 1	18 22.24	−44 5.3	0.682	1.499	34.0	18.7	124 W	1	72
5 6	18 33.04	−47 23.3	0.656	1.489	33.5	18.5	126 W	—	69
5 11	18 44.02	−50 46.8	0.633	1.480	33.1	18.4	127 W	—	65
5 16	18 55.16	−54 12.5	0.616	1.472	32.8	18.4	128 W	—	62
5 21	19 6.42	−57 36.8	0.602	1.465	32.7	18.3	129 W	—	58
5 26	19 17.76	−60 55.6	0.593	1.460	32.7	18.3	129 W	—	55
5 31	19 29.11	−64 4.7	0.587	1.456	32.9	18.2	129 W	—	52
6 5	19 40.36	−67 0.6	0.585	1.453	33.2	18.2	128 W	—	49
6 10	19 51.28	−69 40.6	0.587	1.451	33.5	18.3	128 W	—	46
6 12	19 55.48	−70 39.5	0.588	1.451	33.7	18.3	128 W	—	45
6 14	19 59.54	−71 35.5	0.590	1.451	33.9	18.3	127 W	—	44
6 16	20 3.43	−72 28.3	0.592	1.451	34.0	18.3	127 W	—	44
6 18	20 7.11	−73 17.9	0.594	1.451	34.2	18.3	127 W	—	43
6 20	20 10.55	−74 4.2	0.597	1.451	34.4	18.3	126 W	—	42
6 22	20 13.72	−74 47.1	0.600	1.452	34.5	18.3	126 W	—	41
6 24	20 16.58	−75 26.7	0.603	1.453	34.7	18.3	126 W	—	41
6 26	20 19.09	−76 2.8	0.607	1.454	34.8	18.4	125 W	—	40
6 28	20 21.23	−76 35.5	0.611	1.455	35.0	18.4	125 W	—	39
6 30	20 22.97	−77 4.7	0.615	1.457	35.1	18.4	125 W	—	39
7 2	20 24.29	−77 30.5	0.620	1.458	35.2	18.4	124 W	—	38
7 4	20 25.17	−77 52.9	0.624	1.460	35.3	18.4	124 W	—	38
7 6	20 25.61	−78 11.9	0.629	1.462	35.4	18.5	124 W	—	38
7 8	20 25.61	−78 27.4	0.634	1.464	35.5	18.5	123 W	—	38
7 10	20 25.18	−78 39.5	0.639	1.467	35.5	18.5	123 W	—	37
7 12	20 24.37	−78 48.2	0.645	1.469	35.6	18.5	123 W	—	37
7 14	20 23.22	−78 53.5	0.651	1.472	35.6	18.6	123 W	—	37
7 16	20 21.79	−78 55.4	0.656	1.475	35.6	18.6	122 W	—	37
7 18	20 20.16	−78 53.9	0.662	1.478	35.7	18.6	122 W	—	37
7 20	20 18.39	−78 49.0	0.668	1.482	35.7	18.6	122 W	—	37
7 21	20 17.48	−78 45.3	0.672	1.483	35.7	18.7	122 W	—	37
7 22	20 16.57	−78 40.8	0.675	1.485	35.6	18.7	122 W	—	37
7 23	20 15.67	−78 35.5	0.678	1.487	35.6	18.7	121 W	—	37
7 24	20 14.79	−78 29.4	0.681	1.489	35.6	18.7	121 W	—	38
7 25	20 13.93	−78 22.4	0.684	1.491	35.6	18.7	121 E	—	38
7 26	20 13.11	−78 14.7	0.688	1.493	35.6	18.7	121 E	—	38
7 27	20 12.32	−78 6.3	0.691	1.495	35.6	18.7	121 E	—	38
7 28	20 11.59	−77 57.0	0.695	1.497	35.6	18.7	121 E	—	38
7 29	20 10.90	−77 47.0	0.698	1.499	35.5	18.8	121 E	—	38
7 30	20 10.27	−77 36.3	0.702	1.501	35.5	18.8	121 E	—	38
8 1	20 9.20	−77 12.7	0.709	1.505	35.5	18.8	121 E	—	39
8 3	20 8.38	−76 46.4	0.716	1.510	35.4	18.8	120 E	—	39
8 5	20 7.83	−76 17.5	0.724	1.514	35.3	18.9	120 E	—	40
8 7	20 7.55	−75 46.0	0.732	1.519	35.3	18.9	120 E	—	40
8 9	20 7.53	−75 12.1	0.740	1.524	35.2	18.9	120 E	—	41
8 14	20 8.62	−73 37.5	0.761	1.537	35.0	19.0	119 E	—	42
8 19	20 11.16	−71 50.1	0.784	1.551	34.8	19.1	119 E	—	44
8 24	20 14.95	−69 51.6	0.808	1.566	34.6	19.1	118 E	—	46
8 29	20 19.74	−67 44.1	0.835	1.582	34.4	19.2	118 E	—	48
9 3	20 25.29	−65 29.1	0.864	1.598	34.2	19.3	117 E	—	51
9 8	20 31.42	−63 8.3	0.895	1.615	34.1	19.4	116 E	—	53
9 13	20 37.96	−60 43.2	0.929	1.633	34.0	19.5	115 E	—	55
9 18	20 44.85	−58 15.0	0.966	1.651	33.8	19.6	114 E	—	58
9 23	20 52.00	−55 45.1	1.005	1.670	33.7	19.7	112 E	—	60
9 28	20 59.35	−53 14.7	1.047	1.689	33.6	19.8	111 E	—	63
10 3	21 6.84	−50 44.8	1.092	1.708	33.5	20.0	109 E	—	65
10 8	21 14.43	−48 16.3	1.140	1.728	33.4	20.1	108 E	—	68
10 13	21 22.09	−45 49.8	1.191	1.749	33.3	20.2	106 E	—	70
10 18	21 29.81	−43 25.7	1.244	1.769	33.2	20.3	104 E	2	73
10 23	21 37.58	−41 4.5	1.300	1.790	33.0	20.4	102 E	4	75
10 28	21 45.38	−38 46.5	1.359	1.811	32.7	20.5	100 E	6	77
11 2	21 53.20	−36 31.9	1.420	1.833	32.5	20.6	97 E	8	79
11 7	22 1.02	−34 20.8	1.484	1.854	32.2	20.8	95 E	11	82
11 12	22 8.85	−32 13.2	1.549	1.876	31.8	20.9	93 E	13	84*
11 17	22 16.68	−30 9.0	1.617	1.897	31.4	21.0	90 E	15	84*
11 22	22 24.52	−28 8.2	1.686	1.919	30.9	21.1	88 E	17	82*
11 27	22 32.35	−26 10.7	1.757	1.941	30.4	21.2	85 E	19	78*
12 2	22 40.18	−24 16.4	1.829	1.963	29.9	21.3	83 E	21	74*
12 7	22 48.00	−22 25.2	1.902	1.985	29.3	21.4	80 E	23	71*
12 12	22 55.81	−20 36.9	1.976	2.007	28.6	21.5	77 E	24	67*
428086 2006 NM									
1 2	14 33.78	−27 54.6	2.817	2.421	19.8	21.5	57 W	16*	49*
1 12	14 51.81	−29 38.1	2.637	2.349	21.8	21.3	62 W	15*	55*
1 22	15 10.55	−31 20.4	2.453	2.275	23.6	21.1	68 W	14*	62*
2 1	15 30.06	−33 0.6	2.267	2.200	25.4	21.0	73 W	12	67*

428086 2006 *NM* *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 11	15 50.43	−34 38.0	2.081	2.124	27.1	20.7	79 W	10	72*
2 21	16 11.80	−36 11.6	1.897	2.046	28.7	20.5	84 W	9	76*
3 2	16 34.31	−37 40.2	1.715	1.967	30.2	20.2	89 W	7	77*
3 7	16 46.05	−38 21.9	1.626	1.927	31.0	20.1	92 W	7	77*
3 12	16 58.16	−39 1.7	1.539	1.887	31.7	20.0	94 W	6	77*
3 17	17 10.67	−39 39.2	1.453	1.847	32.4	19.8	96 W	5	76
3 22	17 23.62	−40 13.9	1.369	1.807	33.1	19.7	98 W	5	76
3 27	17 37.04	−40 45.3	1.286	1.767	33.7	19.5	101 W	4	75
4 1	17 50.98	−41 12.8	1.206	1.726	34.4	19.3	103 W	4*	75
4 6	18 5.50	−41 35.5	1.129	1.686	35.1	19.1	105 W	3*	74
4 11	18 20.67	−41 52.4	1.053	1.645	35.8	19.0	106 W	3*	74
4 16	18 36.54	−42 2.4	0.980	1.605	36.5	18.8	108 W	3*	74
4 21	18 53.17	−42 3.9	0.910	1.565	37.3	18.6	109 W	3*	74
4 26	19 10.62	−41 54.9	0.843	1.525	38.1	18.4	111 W	3*	74
5 1	19 28.93	−41 32.9	0.778	1.486	39.0	18.2	112 W	3*	74
5 6	19 48.16	−40 55.0	0.717	1.447	40.0	18.0	113 W	4*	75
5 11	20 8.35	−39 57.5	0.659	1.408	41.1	17.8	113 W	4*	76
5 16	20 29.49	−38 36.1	0.604	1.371	42.5	17.5	114 W	5*	77
5 21	20 51.52	−36 45.7	0.554	1.335	44.0	17.3	114 W	7*	79
5 26	21 14.34	−34 20.4	0.507	1.300	45.7	17.1	113 W	9*	82
5 31	21 37.83	−31 14.0	0.465	1.266	47.8	16.9	112 W	12*	85
6 5	22 1.82	−27 20.7	0.427	1.234	50.2	16.8	111 W	15*	89
6 10	22 26.13	−22 36.8	0.396	1.204	52.9	16.6	109 W	19*	87
6 15	22 50.51	−17 2.1	0.371	1.176	56.0	16.5	106 W	24*	81
6 20	23 14.72	−10 42.4	0.352	1.150	59.3	16.5	103 W	29*	75
6 22	23 24.31	− 8 0.6	0.347	1.141	60.6	16.5	102 W	32*	72
6 24	23 33.84	− 5 14.7	0.343	1.132	62.0	16.4	101 W	34*	69
6 26	23 43.28	− 2 26.0	0.340	1.123	63.3	16.5	99 W	37*	66
6 28	23 52.63	+ 0 24.2	0.338	1.115	64.5	16.5	98 W	39*	64
6 30	0 1.89	+ 3 14.6	0.337	1.108	65.7	16.5	97 W	42*	61
7 2	0 11.06	+ 6 3.7	0.337	1.101	66.9	16.5	95 W	44*	58
7 4	0 20.12	+ 8 50.3	0.339	1.094	67.9	16.5	94 W	47*	55
7 6	0 29.07	+11 33.4	0.341	1.088	68.9	16.6	93 W	49*	52
7 8	0 37.91	+14 11.8	0.345	1.083	69.8	16.6	92 W	52*	50
7 10	0 46.63	+16 44.8	0.349	1.078	70.5	16.7	91 W	54*	47
7 15	1 7.91	+22 39.8	0.363	1.069	71.8	16.8	88 W	59*	41
7 20	1 28.40	+27 51.9	0.381	1.064	72.4	16.9	87 W	64*	36
7 25	1 48.04	+32 21.0	0.401	1.063	72.3	17.0	86 W	68*	32
7 30	2 6.81	+36 10.0	0.423	1.066	71.6	17.1	85 W	71*	28
8 4	2 24.66	+39 23.5	0.445	1.073	70.4	17.2	85 W	74*	25
8 9	2 41.54	+42 6.6	0.468	1.084	68.8	17.2	86 W	77*	22
8 14	2 57.33	+44 23.9	0.490	1.098	67.0	17.3	87 W	80*	20
8 19	3 11.88	+46 19.5	0.511	1.116	64.9	17.4	88 W	82*	18
8 24	3 25.07	+47 56.8	0.530	1.138	62.7	17.4	89 W	83*	16
8 29	3 36.74	+49 18.6	0.548	1.162	60.3	17.5	91 W	85*	15
9 3	3 46.78	+50 27.6	0.564	1.188	57.9	17.5	94 W	85*	14
9 8	3 55.03	+51 25.5	0.579	1.217	55.3	17.6	96 W	84	13
9 13	4 1.32	+52 13.6	0.592	1.249	52.6	17.6	99 W	83	12
9 18	4 5.50	+52 52.5	0.603	1.281	49.9	17.6	103 W	82	11
9 23	4 7.46	+53 22.3	0.613	1.316	47.0	17.6	106 W	82	11
9 28	4 7.17	+53 42.4	0.622	1.352	44.0	17.6	110 W	81	10
10 3	4 4.64	+53 52.0	0.632	1.389	40.9	17.6	115 W	81	10
10 8	4 0.00	+53 49.7	0.641	1.426	37.7	17.6	119 W	81	10
10 13	3 53.45	+53 33.8	0.651	1.465	34.4	17.6	124 W	81	10
10 18	3 45.35	+53 2.8	0.663	1.504	31.0	17.6	129 W	82	11
10 20	3 41.79	+52 45.8	0.668	1.520	29.7	17.6	131 W	82	11
10 22	3 38.09	+52 26.3	0.674	1.536	28.3	17.6	133 W	83	12
10 24	3 34.30	+52 4.1	0.680	1.551	27.0	17.6	135 W	83	12
10 26	3 30.45	+51 39.3	0.687	1.567	25.7	17.6	137 W	83	12
10 28	3 26.58	+51 12.1	0.694	1.583	24.4	17.6	139 W	84	13
11 2	3 17.04	+49 53.6	0.715	1.624	21.3	17.7	144 W	85	14
11 7	3 8.07	+48 22.4	0.740	1.664	18.6	17.7	148 W	87	16
11 12	3 0.02	+46 41.4	0.770	1.705	16.4	17.8	151 E	88	17
11 17	2 53.18	+44 54.3	0.805	1.745	14.9	17.9	153 E	90	19
11 22	2 47.68	+43 4.7	0.846	1.785	14.3	18.0	154 E	88	21
11 27	2 43.56	+41 16.4	0.893	1.826	14.4	18.2	153 E	86	23
12 2	2 40.78	+39 32.0	0.945	1.866	15.2	18.4	150 E	85	24
12 7	2 39.23	+37 53.7	1.002	1.906	16.3	18.6	147 E	83	26
12 12	2 38.82	+36 22.9	1.064	1.946	17.5	18.8	143 E	81	28
12 17	2 39.42	+35 0.3	1.132	1.986	18.8	19.0	139 E	80	29
12 22	2 40.94	+33 46.4	1.204	2.025	20.0	19.2	135 E	79	30
12 27	2 43.27	+32 41.0	1.281	2.064	21.1	19.4	131 E	78	31
1 1	2 46.29	+31 43.9	1.361	2.103	22.0	19.6	127 E	77	32
1 6	2 49.93	+30 54.3	1.445	2.141	22.8	19.8	123 E	76	33
1 11	2 54.10	+30 11.8	1.532	2.180	23.4	20.0	118 E	75	34
1 16	2 58.74	+29 35.6	1.622	2.218	23.8	20.2	114 E	75	34*

385843 2006 JY_{25}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 2	14 51.31	+ 0 44.1	0.301	0.882	100.6	21.3	62 W	44*	34*
1 7	14 40.36	+ 3 26.7	0.306	0.926	91.5	21.0	70 W	48*	40*
1 12	14 30.63	+ 5 57.2	0.310	0.970	83.3	20.8	78 W	51*	44*
1 17	14 21.28	+ 8 22.1	0.313	1.013	75.8	20.7	86 W	53	48*
1 22	14 11.51	+10 46.8	0.315	1.054	68.6	20.5	94 W	56	50*
1 27	14 0.65	+13 14.4	0.316	1.095	61.6	20.4	102 W	58	50*
2 1	13 48.14	+15 45.6	0.317	1.134	54.6	20.3	110 W	61	48
2 6	13 33.60	+18 18.1	0.318	1.172	47.6	20.2	119 W	63	46
2 11	13 16.90	+20 47.3	0.322	1.208	40.7	20.1	127 W	66	43
2 16	12 58.14	+23 6.3	0.329	1.244	33.9	20.0	135 W	68	41
2 21	12 37.78	+25 7.1	0.340	1.277	27.6	19.9	143 W	70	39
2 26	12 16.65	+26 42.0	0.355	1.309	22.3	19.9	150 W	72	37
3 2	11 55.82	+27 46.6	0.376	1.340	18.6	20.0	154 W	73	36
3 7	11 36.36	+28 20.4	0.402	1.369	17.0	20.1	156 W	73	36
3 12	11 19.05	+28 26.9	0.432	1.397	17.6	20.3	155 E	73	36
3 17	11 4.33	+28 11.2	0.468	1.423	19.6	20.6	151 E	73	36
3 22	10 52.36	+27 38.6	0.508	1.448	22.2	20.9	147 E	73	36
3 27	10 43.06	+26 54.1	0.552	1.472	24.8	21.2	142 E	72	37
4 1	10 36.23	+26 1.6	0.600	1.494	27.2	21.5	137 E	71	38
4 6	10 31.58	+25 4.0	0.650	1.515	29.4	21.7	132 E	70	39

71997 2000 WD_{178}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 2	14 53.23	−11 6.5	3.124	2.712	17.6	21.5	57 W	32*	40*
1 12	15 6.68	−11 59.8	2.980	2.689	19.1	21.4	63 W	32*	47*
1 22	15 19.59	−12 46.2	2.829	2.665	20.4	21.3	70 W	32*	55*
2 1	15 31.76	−13 25.4	2.672	2.639	21.4	21.2	77 W	32*	63*
2 11	15 42.98	−13 57.4	2.512	2.613	22.1	21.1	85 W	31	71*
2 21	15 53.00	−14 22.1	2.350	2.587	22.5	20.9	92 W	31	77*
3 2	16 1.51	−14 39.7	2.189	2.559	22.4	20.7	100 W	30	79
3 12	16 8.17	−14 50.6	2.032	2.530	21.8	20.5	109 W	30	79
3 22	16 12.63	−14 55.4	1.881	2.501	20.7	20.3	117 W	30	79
4 1	16 14.48	−14 54.5	1.739	2.471	18.9	20.0	127 W	30	79
4 11	16 13.41	−14 48.9	1.611	2.440	16.3	19.8	137 W	30	79
4 21	16 9.22	−14 39.5	1.500	2.408	13.0	19.5	147 W	30	79
5 1	16 1.98	−14 27.6	1.409	2.376	8.9	19.1	159 W	31	78
5 11	15 52.19	−14 15.1	1.342	2.343	4.4	18.8	170 W	31	78
5 16	15 46.62	−14 9.3	1.319	2.327	2.6	18.6	174 W	31	78
5 21	15 40.80	−14 4.4	1.301	2.310	2.9	18.6	173 E	31	78
5 26	15 34.91	−14 0.6	1.291	2.293	5.0	18.7	169 E	31	78
5 31	15 29.14	−13 58.6	1.287	2.276	7.5	18.8	163 E	31	78
6 5	15 23.67	−13 58.6	1.289	2.258	10.0	18.9	157 E	31	78
6 10	15 18.66	−14 1.1	1.296	2.241	12.5	19.0	151 E	31	78
6 20	15 10.52	−14 14.5	1.328	2.206	17.2	19.1	140 E	31	78
6 30	15 5.52	−14 40.3	1.376	2.171	21.1	19.3	130 E	30	79
7 10	15 3.99	−15 18.7	1.438	2.135	24.4	19.5	120 E	29*	79
7 20	15 5.90	−16 8.4	1.508	2.100	26.8	19.6	111 E	27*	80
7 30	15 11.10	−17 7.9	1.583	2.064	28.6	19.7	103 E	25*	81
8 9	15 19.32	−18 14.8	1.660	2.028	29.8	19.8	96 E	23*	82
8 19	15 30.28	−19 26.6	1.738	1.993	30.5	19.9	89 E	21*	81*
8 29	15 43.77	−20 41.0	1.813	1.958	30.8	20.0	83 E	19*	76*
9 8	15 59.55	−21 55.0	1.886	1.923	30.7	20.0	77 E	17*	71*
9 18	16 17.48	−23 6.2	1.955	1.890	30.2	20.0	71 E	16*	65*
9 28	16 37.40	−24 11.9	2.019	1.857	29.6	20.1	66 E	15*	60*
10 8	16 59.17	−25 9.1	2.078	1.825	28.7	20.1	61 E	14*	55*
10 18	17 22.64	−25 55.1	2.133	1.794	27.7	20.0	57 E	14*	51*
10 28	17 47.66	−26 27.2	2.183	1.765	26.6	20.0	53 E	13*	46*
11 7	18 14.02	−26 43.0	2.228	1.737	25.3	20.0	48 E	13*	42*
11 17	18 41.50	−26 40.2	2.269	1.712	23.9	20.0	45 E	13*	38*
11 27	19 9.86	−26 17.1	2.306	1.689	22.5	19.9	41 E	13*	33*
12 7	19 38.81	−25 32.7	2.340	1.668	21.0	19.9	37 E	13*	29*
12 17	20 8.10	−24 26.6	2.372	1.650	19.5	19.8	34 E	13*	25*
12 27	20 37.47	−22 59.2	2.401	1.635	17.9	19.8	31 E	12*	22*
1 6	21 6.69	−21 11.7	2.428	1.622	16.3	19.8	28 E	12*	18*
1 16	21 35.61	−19 5.9	2.455	1.613	14.7	19.7	25 E	11*	15*

259221 2003 BA_{21}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 2	15 5.82	−32 46.4	1.294	0.990	48.8	21.5	49 W	10*	43*
1 4	15 18.05	−33 35.7	1.265	0.960	50.2	21.4	49 W	9*	42*
1 6	15 31.10	−34 22.3	1.236	0.928	51.7	21.3	48 W	8*	42*
1 8	15 45.03	−35 5.3	1.210	0.896	53.2	21.2	47 W	7*	41*
1 10	15 59.88	−35 43.7	1.185	0.863	54.7	21.1	46 W	6*	40*
1 12	16 15.68	−36 16.2	1.162	0.828	56.3	21.1	44 W	5*	38*
1 14	16 32.44	−36 41.4	1.141	0.793	57.8	21.0	43 W	4*	37*
1 16	16 50.16	−36 57.6	1.122	0.757	59.4	20.9	41 W	3*	35*
1 18	17 8.77	−37 3.4	1.106	0.720	61.0	20.8	40 W	2*	34*
1 20	17 28.19	−36 56.9	1.092	0.681	62.4	20.7	38 W	1*	32*
1 22	17 48.32	−36 36.6	1.082	0.641	63.8	20.6	36 W	—	30*
1 24	18 9.00	−36 1.0	1.075	0.600	64.9	20.4	33 W	—	27*
1 26	18 30.07	−35 8.7	1.072	0.557	65.8	20.3	31 W	—	25*
1 28	18 51.35	−33 58.9	1.072	0.513	66.3	20.1	28 W	—	22*
1 30	19 12.70	−32 30.6	1.076	0.467	66.1	19.9	26 W	—	19*
2 1	19 33.99	−30 43.1	1.085	0.420	65.1	19.7	23 W	—	16*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
259221 2003 BA_{21} *(continuation)*									
2 6	20 26.93	−24 44.6	1.124	0.297	55.3	18.7	14 W	—	8*
2 11	21 21.61	−16 14.3	1.168	0.195	19.5	16.9	4 W	—	—
2 16	22 17.47	− 6 18.6	1.137	0.217	42.2	17.7	8 E	2*	—
2 21	23 6.36	+ 1 43.3	1.063	0.331	68.1	19.2	18 E	12*	—
2 23	23 24.71	+ 4 27.7	1.039	0.381	71.8	19.6	21 E	15*	1*
2 25	23 42.75	+ 7 0.3	1.020	0.429	73.7	19.9	25 E	19*	3*
2 27	0 0.61	+ 9 22.3	1.006	0.476	74.3	20.1	28 E	22*	5*
2 29	0 18.31	+11 34.2	0.997	0.521	74.1	20.3	30 E	24*	6*
3 2	0 35.85	+13 35.9	0.993	0.565	73.2	20.4	33 E	27*	8*
3 7	1 18.73	+17 55.6	1.002	0.669	69.6	20.7	39 E	33*	11*
3 12	1 59.48	+21 12.1	1.034	0.764	65.1	20.9	44 E	38*	15*
3 17	2 37.26	+23 31.1	1.084	0.852	60.4	21.1	48 E	41*	17*
3 22	3 11.58	+25 2.5	1.148	0.934	56.1	21.3	51 E	43*	20*
3 27	3 42.36	+25 57.2	1.222	1.011	52.0	21.5	53 E	45*	22*
427580 2003 QC_{29}									
1 2	15 33.07	−14 26.7	2.067	1.562	27.1	21.5	46 W	26*	32*
1 12	16 5.07	−15 34.6	1.986	1.530	28.9	21.4	49 W	25*	36*
1 22	16 37.96	−16 21.4	1.912	1.504	30.6	21.3	51 W	25*	39*
2 1	17 11.44	−16 44.7	1.844	1.482	32.2	21.2	53 W	24*	43*
2 11	17 45.12	−16 43.0	1.783	1.466	33.6	21.2	55 W	24*	46*
2 21	18 18.58	−16 16.6	1.728	1.456	34.9	21.1	57 W	23*	49*
3 2	18 51.40	−15 27.0	1.679	1.452	36.0	21.1	59 W	23*	51*
3 12	19 23.17	−14 16.9	1.636	1.454	36.9	21.1	62 W	23*	54*
3 22	19 53.60	−12 50.4	1.595	1.463	37.7	21.1	64 W	24*	56*
4 1	20 22.42	−11 11.7	1.558	1.478	38.3	21.0	66 W	24*	58*
4 11	20 49.46	− 9 25.6	1.522	1.498	38.8	21.0	69 W	25*	61*
4 21	21 14.59	− 7 36.8	1.485	1.523	39.0	21.0	73 W	26*	63*
5 1	21 37.71	− 5 49.4	1.448	1.554	39.0	21.0	76 W	27*	65*
5 11	21 58.71	− 4 7.8	1.409	1.589	38.8	21.0	80 W	29*	66*
5 21	22 17.50	− 2 35.4	1.368	1.627	38.3	21.0	85 W	32*	66*
5 31	22 33.90	− 1 16.1	1.324	1.669	37.4	20.9	90 W	35*	65
6 10	22 47.72	− 0 13.2	1.278	1.714	36.1	20.9	96 W	38*	64
6 20	22 58.72	+ 0 29.8	1.232	1.761	34.3	20.8	103 W	41*	64
6 30	23 6.59	+ 0 49.3	1.186	1.809	31.8	20.7	110 W	44*	63
7 10	23 11.09	+ 0 42.1	1.143	1.859	28.6	20.6	119 W	46*	63
7 20	23 12.01	+ 0 6.0	1.107	1.911	24.7	20.5	128 W	45	64
7 30	23 9.36	− 0 59.7	1.081	1.963	19.9	20.3	139 W	44	65
8 9	23 3.56	− 2 31.5	1.071	2.016	14.4	20.2	150 W	42	67
8 14	22 59.72	− 3 25.1	1.073	2.042	11.4	20.1	156 W	42	67
8 19	22 55.42	− 4 22.1	1.080	2.068	8.4	20.0	163 W	41	68
8 24	22 50.84	− 5 20.9	1.094	2.095	5.4	19.9	169 W	40	69
8 29	22 46.18	− 6 19.8	1.114	2.122	2.3	19.8	175 W	39	70
9 3	22 41.60	− 7 17.2	1.140	2.148	0.8	19.8	178 E	38	71
9 8	22 37.27	− 8 11.6	1.172	2.175	3.6	20.1	172 E	37	72
9 13	22 33.33	− 9 2.0	1.211	2.201	6.2	20.3	166 E	36	73
9 18	22 29.90	− 9 47.3	1.255	2.227	8.8	20.5	160 E	35	74
9 23	22 27.09	−10 26.9	1.306	2.254	11.0	20.7	155 E	35	74
9 28	22 24.94	−11 0.5	1.362	2.280	13.1	20.9	149 E	34	75
10 3	22 23.50	−11 28.0	1.424	2.306	15.0	21.1	143 E	34	75
10 8	22 22.75	−11 49.5	1.489	2.332	16.6	21.3	138 E	33	76
10 13	22 22.69	−12 5.2	1.560	2.358	18.0	21.5	133 E	33	76
267494 2002 JB_9									
1 2	15 55.73	+ 4 34.3	3.176	2.654	16.5	21.4	50 W	41*	19*
1 12	16 9.03	+ 3 47.0	2.994	2.569	18.4	21.3	56 W	43*	26*
1 22	16 22.41	+ 3 7.1	2.801	2.481	20.3	21.1	61 W	44*	34*
2 1	16 35.79	+ 2 34.4	2.599	2.390	22.3	20.9	67 W	45*	41*
2 11	16 49.13	+ 2 8.3	2.388	2.297	24.2	20.7	73 W	46*	48*
2 21	17 2.38	+ 1 48.0	2.172	2.200	26.1	20.5	79 W	46*	54*
3 2	17 15.49	+ 1 32.3	1.952	2.101	28.0	20.2	84 W	46*	58*
3 12	17 28.43	+ 1 19.1	1.729	1.998	29.8	19.9	90 W	46*	62*
3 22	17 41.24	+ 1 5.2	1.505	1.891	31.6	19.5	96 W	46*	63*
3 27	17 47.61	+ 0 56.5	1.393	1.836	32.5	19.3	99 W	46*	63
4 1	17 53.98	+ 0 45.4	1.281	1.781	33.3	19.1	102 W	46*	63
4 6	18 0.40	+ 0 30.7	1.171	1.724	34.1	18.8	105 W	46*	63
4 11	18 6.94	+ 0 10.6	1.061	1.666	35.0	18.6	108 W	45	64
4 16	18 13.67	− 0 17.0	0.952	1.608	35.8	18.3	111 W	45	64
4 21	18 20.75	− 0 55.6	0.844	1.548	36.6	18.0	113 W	44	65
4 26	18 28.39	− 1 50.3	0.738	1.488	37.4	17.6	116 W	43	66
5 1	18 36.99	− 3 9.0	0.633	1.426	38.2	17.2	119 W	42	67
5 3	18 40.85	− 3 50.0	0.592	1.401	38.6	17.0	120 W	41	68
5 5	18 45.04	− 4 38.1	0.551	1.376	38.9	16.9	121 W	40	69
5 7	18 49.64	− 5 34.8	0.511	1.351	39.3	16.7	122 W	39	70
5 9	18 54.79	− 6 42.3	0.471	1.325	39.8	16.5	123 W	38	71
5 11	19 0.63	− 8 3.1	0.431	1.300	40.3	16.2	124 W	37	72
5 13	19 7.40	− 9 40.8	0.393	1.274	40.9	16.0	124 W	35	74
5 15	19 15.40	−11 40.0	0.355	1.248	41.6	15.8	125 W	33	76

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
267494 2002 JB_9 *(continuation)*									
5 17	19 25.11	−14 7.2	0.319	1.223	42.6	15.5	125 W	31	78
5 19	19 37.25	−17 10.9	0.283	1.197	43.9	15.2	125 W	28	81
5 21	19 52.93	−21 1.7	0.250	1.170	45.9	15.0	124 W	24*	85
5 22	20 2.64	−23 18.7	0.235	1.157	47.1	14.9	123 W	22*	87
5 23	20 14.00	−25 52.0	0.220	1.144	48.7	14.7	122 W	19*	90
5 24	20 27.44	−28 42.4	0.206	1.131	50.6	14.6	120 W	16*	87
5 25	20 43.50	−31 49.6	0.194	1.118	52.9	14.5	118 W	12*	84
5 26	21 2.86	−35 11.4	0.183	1.105	55.7	14.4	116 W	9*	81
5 27	21 26.33	−38 42.4	0.173	1.092	59.0	14.4	113 W	4*	77
5 28	21 54.75	−42 12.3	0.166	1.078	62.8	14.4	109 W	—	74
5 29	22 28.74	−45 25.9	0.161	1.065	67.1	14.4	104 W	—	71
5 30	23 8.23	−48 4.0	0.158	1.052	71.8	14.5	100 W	—	67*
5 31	23 51.89	−49 48.1	0.158	1.039	76.6	14.7	95 W	—	63*
6 1	0 37.02	−50 27.3	0.161	1.026	81.4	14.8	90 W	—	58*
6 2	1 20.32	−50 2.9	0.166	1.012	85.9	15.0	85 W	—	54*
6 3	1 59.22	−48 47.5	0.173	0.999	90.1	15.3	80 W	—	49*
6 4	2 32.53	−46 58.2	0.182	0.986	93.8	15.5	76 W	—	45*
6 5	3 0.30	−44 51.0	0.193	0.973	97.0	15.7	72 W	—	41*
6 6	3 23.18	−42 37.8	0.205	0.960	99.8	16.0	69 W	—	37*
6 7	3 42.02	−40 26.2	0.218	0.947	102.1	16.2	66 W	—	34*
6 8	3 57.61	−38 20.4	0.232	0.934	104.0	16.4	63 W	—	32*
6 9	4 10.63	−36 22.5	0.247	0.921	105.5	16.6	61 W	—	30*
6 10	4 21.60	−34 33.1	0.263	0.908	106.8	16.8	59 W	—	28*
6 11	4 30.93	−32 52.1	0.279	0.895	107.8	16.9	57 W	—	27*
6 12	4 38.95	−31 19.1	0.296	0.882	108.5	17.1	55 W	—	26*
6 13	4 45.90	−29 53.2	0.313	0.869	109.1	17.2	54 W	—	25*
6 14	4 51.97	−28 33.7	0.331	0.856	109.5	17.3	53 W	—	24*
6 15	4 57.32	−27 20.0	0.349	0.844	109.7	17.4	51 W	—	23*
6 16	5 2.07	−26 11.2	0.367	0.831	109.9	17.5	50 W	—	23*
6 17	5 6.32	−25 6.9	0.385	0.819	109.9	17.6	49 W	—	22*
6 18	5 10.14	−24 6.3	0.403	0.806	109.7	17.6	48 W	—	22*
6 19	5 13.60	−23 9.1	0.422	0.794	109.5	17.7	47 W	—	22*
6 20	5 16.74	−22 14.6	0.440	0.782	109.2	17.7	47 W	—	22*
6 22	5 22.28	−20 32.7	0.478	0.759	108.4	17.8	45 W	—	22*
6 24	5 27.02	−18 58.0	0.516	0.736	107.2	17.8	44 W	—	22*
6 26	5 31.18	−17 28.2	0.555	0.714	105.8	17.8	43 W	—	22*
6 28	5 34.90	−16 1.8	0.594	0.693	104.1	17.8	41 W	—	23*
6 30	5 38.31	−14 37.5	0.633	0.674	102.1	17.8	40 W	—	23*
7 2	5 41.50	−13 14.2	0.672	0.656	99.9	17.7	39 W	—	24*
7 4	5 44.57	−11 51.1	0.712	0.639	97.5	17.7	39 W	—	25*
7 6	5 47.58	−10 27.8	0.751	0.625	94.8	17.6	38 W	—	25*
7 8	5 50.60	− 9 3.8	0.790	0.612	92.0	17.6	37 W	—	26*
7 10	5 53.66	− 7 38.9	0.829	0.602	89.0	17.5	36 W	—	26*
7 15	6 1.80	− 4 2.8	0.926	0.587	81.1	17.4	35 W	—	27*
7 20	6 10.92	− 0 23.6	1.018	0.588	73.0	17.3	34 W	—	27*
7 25	6 21.14	+ 3 13.2	1.103	0.606	65.6	17.3	33 W	1*	27*
7 30	6 32.36	+ 6 41.8	1.182	0.639	59.2	17.4	33 W	6*	26*
8 4	6 44.35	+ 9 58.1	1.252	0.683	54.0	17.5	33 W	11*	25*
8 9	6 56.89	+12 59.9	1.314	0.735	50.1	17.7	34 W	15*	24*
8 14	7 9.75	+15 46.6	1.368	0.793	47.2	17.9	35 W	20*	23*
8 19	7 22.78	+18 19.2	1.416	0.855	45.0	18.0	37 W	24*	22*
8 24	7 35.83	+20 39.0	1.457	0.920	43.4	18.2	39 W	28*	21*
8 29	7 48.82	+22 47.5	1.493	0.985	42.2	18.4	41 W	31*	20*
9 3	8 1.69	+24 46.5	1.523	1.051	41.2	18.5	43 W	35*	19*
9 8	8 14.40	+26 37.5	1.549	1.117	40.5	18.7	46 W	38*	18*
9 13	8 26.90	+28 22.0	1.571	1.183	39.8	18.8	49 W	42*	17*
9 18	8 39.17	+30 1.6	1.588	1.248	39.2	18.9	52 W	45*	16*
9 23	8 51.17	+31 37.4	1.602	1.312	38.7	19.1	55 W	48*	16*
9 28	9 2.89	+33 10.9	1.613	1.375	38.1	19.2	58 W	52*	15*
10 3	9 14.30	+34 42.9	1.621	1.437	37.6	19.3	61 W	55*	14*
10 8	9 25.40	+36 14.7	1.626	1.499	37.0	19.3	65 W	59*	13*
10 18	9 46.55	+39 21.1	1.630	1.619	35.7	19.5	72 W	65*	12*
10 28	10 6.10	+42 37.0	1.628	1.734	34.2	19.6	79 W	72*	11*
11 7	10 23.80	+46 7.1	1.624	1.846	32.4	19.7	86 W	79*	10*
11 12	10 31.82	+47 58.6	1.622	1.901	31.4	19.7	90 W	82*	9*
11 17	10 39.21	+49 54.6	1.621	1.954	30.3	19.7	94 W	83*	8*
11 22	10 45.85	+51 55.1	1.621	2.007	29.2	19.7	98 W	83*	7*
11 27	10 51.66	+53 59.5	1.624	2.059	28.0	19.8	101 W	81	6*
12 2	10 56.49	+56 7.3	1.628	2.110	26.8	19.8	105 W	79	5*
12 7	11 0.19	+58 17.7	1.636	2.160	25.6	19.8	108 W	77	4*
12 12	11 2.52	+60 29.6	1.647	2.209	24.5	19.8	112 W	75	3*
12 17	11 3.23	+62 41.4	1.662	2.258	23.3	19.9	115 W	72	1*
12 22	11 1.99	+64 51.2	1.681	2.306	22.3	19.9	117 W	70	—
12 27	10 58.43	+66 56.9	1.705	2.353	21.3	20.0	120 W	68	—
12 29	10 56.26	+67 45.4	1.716	2.371	20.9	20.0	120 W	67	—
12 31	10 53.63	+68 32.8	1.728	2.390	20.6	20.0	121 W	66	—
1 2	10 50.50	+69 18.8	1.740	2.408	20.3	20.0	122 W	66	—
1 4	10 46.85	+70 3.2	1.754	2.426	20.0	20.0	122 W	65	—

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
267494 2002 JB_9 *(continuation)*									
1 6	10 42.64	+70 45.8	1.768	2.444	19.8	20.1	123 W	64	—
1 8	10 37.87	+71 26.6	1.783	2.462	19.5	20.1	123 W	64	—
1 10	10 32.49	+72 5.1	1.798	2.480	19.3	20.1	123 W	63	—
1 12	10 26.52	+72 41.3	1.815	2.498	19.1	20.2	124 W	62	—
1 14	10 19.94	+73 15.0	1.832	2.516	19.0	20.2	124 W	62	—
1 16	10 12.76	+73 45.9	1.850	2.533	18.8	20.2	124 W	61	—
23606 1996 AS_1									
1 2	16 22.19	−30 31.1	2.063	1.349	23.4	21.4	33 W	7*	26*
1 7	16 42.27	−30 58.9	2.027	1.326	24.3	21.4	34 W	6*	27*
1 12	17 2.88	−31 15.9	1.994	1.303	25.1	21.3	34 W	6*	28*
1 17	17 23.93	−31 21.1	1.962	1.281	25.9	21.3	35 W	5*	28*
1 22	17 45.34	−31 13.9	1.932	1.260	26.7	21.2	35 W	5*	29*
1 27	18 6.97	−30 53.5	1.903	1.240	27.4	21.2	35 W	5*	29*
2 1	18 28.70	−30 19.5	1.878	1.221	28.1	21.1	36 W	5*	30*
2 6	18 50.41	−29 31.9	1.854	1.203	28.7	21.1	36 W	4*	30*
2 11	19 11.97	−28 30.7	1.833	1.187	29.3	21.1	36 W	4*	30*
2 16	19 33.29	−27 16.3	1.814	1.172	29.8	21.0	36 W	4*	30*
2 21	19 54.27	−25 49.5	1.798	1.158	30.3	21.0	36 W	5*	30*
2 26	20 14.82	−24 11.0	1.784	1.147	30.7	21.0	36 W	5*	30*
3 2	20 34.90	−22 21.9	1.772	1.137	31.1	21.0	36 W	5*	30*
3 7	20 54.47	−20 23.4	1.763	1.129	31.4	20.9	36 W	5*	30*
3 12	21 13.52	−18 16.8	1.756	1.123	31.6	20.9	36 W	6*	30*
3 17	21 32.06	−16 3.3	1.751	1.120	31.9	20.9	36 W	6*	30*
3 22	21 50.09	−13 44.3	1.749	1.118	32.0	20.9	37 W	7*	31*
3 27	22 7.64	−11 21.1	1.748	1.119	32.2	20.9	37 W	8*	31*
4 1	22 24.73	− 8 55.0	1.748	1.121	32.3	20.9	37 W	8*	31*
4 6	22 41.39	− 6 27.2	1.751	1.126	32.3	20.9	37 W	9*	31*
4 11	22 57.68	− 3 58.8	1.754	1.133	32.4	21.0	37 W	10*	31*
4 16	23 13.63	− 1 30.9	1.759	1.141	32.4	21.0	38 W	11*	31*
4 21	23 29.27	+ 0 55.8	1.765	1.152	32.4	21.0	38 W	12*	31*
4 26	23 44.63	+ 3 20.2	1.772	1.165	32.4	21.0	38 W	13*	31*
5 1	23 59.75	+ 5 41.7	1.779	1.179	32.5	21.1	39 W	14*	31*
5 6	0 14.65	+ 7 59.7	1.786	1.194	32.5	21.1	39 W	15*	31*
5 11	0 29.37	+10 13.5	1.794	1.211	32.5	21.2	40 W	16*	31*
5 16	0 43.92	+12 22.7	1.801	1.230	32.6	21.2	41 W	17*	32*
5 21	0 58.32	+14 27.1	1.808	1.249	32.6	21.2	42 W	18*	31*
5 26	1 12.59	+16 26.2	1.815	1.270	32.7	21.3	43 W	20*	31*
5 31	1 26.73	+18 19.8	1.821	1.291	32.7	21.3	44 W	21*	31*
6 5	1 40.75	+20 7.8	1.826	1.314	32.8	21.4	45 W	23*	31*
6 10	1 54.66	+21 50.1	1.830	1.337	33.0	21.4	46 W	25*	31*
6 15	2 8.46	+23 26.6	1.833	1.360	33.1	21.5	47 W	27*	31*
348314 2005 BC									
1 2	16 39.99	−39 19.8	2.173	1.429	21.0	21.5	31 W	—	25*
1 7	16 58.76	−39 25.6	2.146	1.416	21.8	21.5	32 W	—	26*
1 12	17 17.68	−39 21.6	2.117	1.402	22.6	21.4	33 W	—	27*
1 17	17 36.70	−39 7.4	2.087	1.388	23.5	21.4	34 W	—	28*
1 22	17 55.75	−38 42.8	2.055	1.372	24.3	21.4	35 W	—	29*
1 27	18 14.75	−38 7.5	2.023	1.356	25.3	21.4	36 W	—	29*
2 1	18 33.64	−37 21.3	1.990	1.339	26.2	21.3	37 W	—	30*
2 6	18 52.37	−36 24.0	1.956	1.321	27.2	21.3	38 W	—	31*
2 11	19 10.89	−35 15.5	1.921	1.303	28.1	21.2	39 W	—	32*
2 16	19 29.17	−33 55.7	1.885	1.284	29.2	21.2	39 W	—	33*
2 21	19 47.18	−32 24.7	1.850	1.264	30.2	21.2	40 W	—	33*
2 26	20 4.92	−30 42.4	1.813	1.244	31.3	21.1	41 W	1*	34*
3 2	20 22.38	−28 48.7	1.777	1.223	32.4	21.1	41 W	1*	35*
3 7	20 39.57	−26 43.7	1.740	1.201	33.5	21.0	42 W	2*	35*
3 12	20 56.52	−24 27.3	1.705	1.179	34.6	20.9	42 W	3*	36*
3 17	21 13.27	−21 59.7	1.669	1.157	35.7	20.9	43 W	4*	37*
3 22	21 29.88	−19 20.8	1.635	1.134	36.9	20.8	43 W	6*	37*
3 27	21 46.39	−16 30.9	1.602	1.112	38.0	20.8	43 W	7*	37*
4 1	22 2.86	−13 30.3	1.570	1.089	39.1	20.7	43 W	8*	37*
4 6	22 19.39	−10 19.4	1.541	1.066	40.2	20.7	43 W	10*	37*
4 11	22 36.05	− 6 58.8	1.514	1.044	41.2	20.6	43 W	11*	37*
4 16	22 52.96	− 3 29.7	1.490	1.021	42.2	20.6	43 W	13*	36*
4 21	23 10.22	+ 0 6.9	1.469	1.000	43.0	20.5	43 W	14*	36*
4 26	23 27.94	+ 3 49.1	1.452	0.979	43.7	20.4	42 W	16*	34*
5 1	23 46.25	+ 7 34.6	1.440	0.959	44.3	20.4	42 W	17*	33*
5 6	0 5.28	+11 21.0	1.431	0.940	44.6	20.4	41 W	19*	31*
5 11	0 25.17	+15 5.0	1.427	0.922	44.8	20.3	40 W	20*	29*
5 16	0 46.06	+18 43.3	1.428	0.907	44.7	20.3	39 W	21*	27*
5 21	1 8.05	+22 12.1	1.434	0.893	44.4	20.2	38 W	22*	24*
5 26	1 31.21	+25 27.4	1.444	0.881	43.8	20.2	37 W	23*	22*
5 31	1 55.59	+28 25.2	1.459	0.872	43.0	20.2	36 W	23*	19*
6 5	2 21.15	+31 2.1	1.477	0.865	41.9	20.2	35 W	23*	17*
6 10	2 47.76	+33 14.8	1.499	0.860	40.7	20.2	34 W	23*	15*
6 15	3 15.23	+35 1.0	1.524	0.859	39.2	20.1	32 W	23*	13*
6 20	3 43.24	+36 19.2	1.551	0.860	37.6	20.1	31 W	23*	11*
6 25	4 11.42	+37 9.1	1.580	0.864	36.0	20.1	30 W	22*	9*
6 30	4 39.38	+37 31.2	1.609	0.871	34.3	20.2	29 W	21*	8*
7 5	5 6.76	+37 27.1	1.640	0.880	32.7	20.2	28 W	21*	6*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
348314 2005 BC *(continuation)*									
7 10	5 33.23	+36 59.2	1.670	0.892	31.1	20.2	27 W	20*	6*
7 15	5 58.58	+36 10.1	1.700	0.906	29.6	20.2	26 W	19*	5*
7 20	6 22.65	+35 2.8	1.729	0.921	28.3	20.3	25 W	19*	5*
7 25	6 45.39	+33 40.1	1.757	0.939	27.1	20.3	25 W	18*	5*
7 30	7 6.79	+32 4.7	1.783	0.957	26.1	20.3	25 W	18*	5*
8 4	7 26.91	+30 19.0	1.808	0.977	25.3	20.4	24 W	18*	6*
8 9	7 45.84	+28 24.9	1.830	0.998	24.7	20.5	24 W	17*	6*
8 14	8 3.67	+26 24.2	1.851	1.020	24.3	20.5	25 W	17*	7*
8 19	8 20.52	+24 18.4	1.869	1.042	24.1	20.6	25 W	18*	8*
8 24	8 36.48	+22 8.4	1.886	1.065	24.0	20.6	25 W	18*	9*
8 29	8 51.65	+19 55.4	1.900	1.087	24.1	20.7	26 W	18*	10*
9 3	9 6.12	+17 39.9	1.911	1.110	24.3	20.8	27 W	19*	11*
9 8	9 19.99	+15 22.7	1.920	1.133	24.6	20.8	28 W	19*	13*
9 13	9 33.32	+13 4.0	1.927	1.156	25.0	20.9	29 W	20*	14*
9 18	9 46.18	+10 44.2	1.932	1.178	25.4	21.0	30 W	21*	16*
9 23	9 58.64	+ 8 23.7	1.934	1.200	25.9	21.0	32 W	21*	17*
9 28	10 10.75	+ 6 2.7	1.935	1.221	26.5	21.1	33 W	22*	19*
10 3	10 22.55	+ 3 41.3	1.933	1.242	27.0	21.1	34 W	23*	20*
10 8	10 34.10	+ 1 19.6	1.929	1.263	27.6	21.2	36 W	23*	22*
10 13	10 45.43	− 1 2.2	1.923	1.283	28.2	21.2	37 W	24*	24*
10 18	10 56.59	− 3 24.1	1.914	1.302	28.8	21.2	39 W	24*	26*
10 23	11 7.59	− 5 46.0	1.904	1.320	29.4	21.3	41 W	25*	28*
10 28	11 18.48	− 8 7.7	1.893	1.338	30.0	21.3	42 W	25*	30*
11 2	11 29.28	−10 29.2	1.879	1.355	30.6	21.3	44 W	24*	32*
11 7	11 40.03	−12 50.6	1.864	1.371	31.2	21.4	46 W	24*	34*
11 12	11 50.75	−15 11.6	1.847	1.387	31.8	21.4	48 W	24*	36*
11 17	12 1.46	−17 32.2	1.829	1.402	32.3	21.4	49 W	23*	39*
11 22	12 12.19	−19 52.4	1.809	1.415	32.9	21.4	51 W	22*	41*
11 27	12 22.95	−22 11.9	1.788	1.428	33.4	21.4	53 W	20*	44*
12 2	12 33.79	−24 30.8	1.766	1.441	33.9	21.4	55 W	19*	46*
12 7	12 44.72	−26 48.8	1.742	1.452	34.4	21.4	56 W	17*	48*
12 12	12 55.76	−29 6.0	1.717	1.463	34.9	21.4	58 W	15*	51*
12 17	13 6.95	−31 22.2	1.692	1.472	35.4	21.4	60 W	13*	53*
12 22	13 18.30	−33 37.0	1.665	1.481	35.8	21.4	62 W	11*	56*
12 27	13 29.84	−35 50.5	1.637	1.489	36.3	21.4	64 W	9*	58*
1 1	13 41.60	−38 2.4	1.609	1.496	36.7	21.4	65 W	7	59*
1 6	13 53.63	−40 12.5	1.579	1.502	37.1	21.4	67 W	5	61*
1 11	14 5.94	−42 20.7	1.549	1.507	37.5	21.4	69 W	3	62*
1 16	14 18.56	−44 26.6	1.518	1.512	37.9	21.3	71 W	1	63*
139289 2001 KR_1									
1 2	17 32.54	−16 25.4	0.663	0.414	130.5	20.6	19 W	10*	6*
1 4	17 22.95	−14 1.9	0.662	0.461	121.2	20.0	24 W	15*	9*
1 6	17 14.95	−11 47.3	0.666	0.506	113.3	19.6	28 W	19*	12*
1 8	17 8.33	− 9 42.2	0.672	0.551	106.6	19.4	32 W	22*	15*
1 10	17 2.86	− 7 46.2	0.679	0.594	100.9	19.3	36 W	26*	18*
1 12	16 58.33	− 5 58.5	0.687	0.636	95.9	19.2	40 W	29*	20*
1 14	16 54.56	− 4 18.0	0.695	0.677	91.6	19.2	43 W	32*	22*
1 16	16 51.40	− 2 43.6	0.703	0.716	87.7	19.2	47 W	34*	24*
1 18	16 48.73	− 1 14.4	0.711	0.755	84.2	19.2	50 W	37*	26*
1 20	16 46.45	+ 0 10.4	0.719	0.792	81.1	19.2	53 W	39*	28*
1 22	16 44.47	+ 1 31.8	0.725	0.828	78.3	19.2	56 W	41*	30*
1 27	16 40.36	+ 4 44.0	0.740	0.915	72.2	19.3	62 W	46*	34*
2 1	16 36.84	+ 7 46.7	0.750	0.996	67.0	19.3	69 W	50*	38*
2 6	16 33.27	+10 45.2	0.757	1.073	62.4	19.4	75 W	54*	40*
2 11	16 29.23	+13 43.4	0.761	1.145	58.2	19.4	81 W	58*	42*
2 16	16 24.33	+16 43.2	0.764	1.214	54.3	19.4	87 W	62*	43*
2 21	16 18.22	+19 45.5	0.765	1.279	50.5	19.4	93 W	65	42*
2 26	16 10.61	+22 49.5	0.767	1.341	46.9	19.4	99 W	68	41*
3 2	16 1.22	+25 52.6	0.771	1.400	43.3	19.4	105 W	71	38
3 7	15 49.87	+28 51.2	0.776	1.456	39.8	19.4	110 W	74	35
3 12	15 36.48	+31 40.0	0.786	1.510	36.4	19.5	116 W	77	32
3 17	15 21.08	+34 13.4	0.800	1.561	33.4	19.5	120 W	79	30
3 22	15 3.91	+36 25.4	0.819	1.609	30.7	19.5	125 W	81	28
3 27	14 45.42	+38 10.6	0.845	1.656	28.4	19.6	128 W	83	26
4 1	14 26.27	+39 25.7	0.877	1.700	26.8	19.7	130 W	84	25
4 6	14 7.25	+40 9.7	0.915	1.743	25.7	19.8	131 W	85	24
4 11	13 49.08	+40 24.3	0.959	1.783	25.2	19.9	131 W	85	24
4 16	13 32.37	+40 12.9	1.010	1.822	25.1	20.1	130 E	85	24
4 21	13 17.52	+39 39.9	1.065	1.859	25.3	20.2	128 E	85	24
4 26	13 4.73	+38 49.8	1.126	1.894	25.7	20.4	125 E	84	25
5 1	12 54.05	+37 47.1	1.192	1.928	26.2	20.6	122 E	83	26
5 6	12 45.37	+36 35.7	1.261	1.959	26.8	20.8	119 E	82	27
5 11	12 38.52	+35 18.6	1.333	1.990	27.3	20.9	116 E	80	29
5 16	12 33.31	+33 58.1	1.409	2.019	27.7	21.1	112 E	79	30
5 21	12 29.55	+32 35.9	1.486	2.046	28.0	21.3	108 E	78	31
5 26	12 27.06	+31 13.0	1.566	2.072	28.2	21.4	105 E	76	33

480883 2001 YE_4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 2	17 41.66	−24 47.2	1.187	0.347	47.0	20.6	15 W	2*	8*
1 4	18 2.01	−24 42.4	1.214	0.330	39.7	20.3	12 W	1*	6*
1 6	18 22.75	−24 25.7	1.241	0.318	31.4	20.0	10 W	—	3*
1 8	18 43.69	−23 56.8	1.264	0.312	22.4	19.8	7 W	—	1*
1 10	19 4.59	−23 16.0	1.284	0.312	13.2	19.5	4 W	—	—
1 12	19 25.16	−22 24.4	1.301	0.319	4.3	19.2	1 W	—	—
1 14	19 45.15	−21 23.6	1.313	0.331	4.1	19.3	1 E	—	—
1 16	20 4.40	−20 15.4	1.323	0.348	11.3	19.7	4 E	—	—
1 18	20 22.81	−19 1.6	1.330	0.369	17.4	20.1	6 E	—	—
1 20	20 40.36	−17 43.8	1.335	0.393	22.5	20.4	9 E	2*	—
1 22	20 57.05	−16 23.3	1.340	0.418	26.6	20.6	11 E	4*	1*
1 24	21 12.95	−15 1.1	1.345	0.444	29.8	20.9	13 E	5*	3*
1 26	21 28.10	−13 38.0	1.349	0.471	32.4	21.1	15 E	7*	4*
1 28	21 42.56	−12 14.8	1.354	0.498	34.5	21.3	17 E	9*	5*
1 30	21 56.40	−10 51.9	1.360	0.525	36.0	21.4	18 E	11*	6*

189865 2003 NC

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 2	17 42.26	−28 32.8	0.870	0.274	106.3	20.1	16 W	—	9*
1 3	17 43.85	−28 59.8	0.908	0.278	97.4	19.8	16 W	—	10*
1 4	17 46.30	−29 20.4	0.945	0.285	89.1	19.6	17 W	—	11*
1 5	17 49.48	−29 35.3	0.983	0.295	81.4	19.5	17 W	—	11*
1 6	17 53.24	−29 45.0	1.020	0.306	74.4	19.4	17 W	—	11*
1 7	17 57.43	−29 50.4	1.056	0.320	68.2	19.3	18 W	—	12*
1 8	18 1.95	−29 52.1	1.091	0.335	62.6	19.3	18 W	—	12*
1 9	18 6.68	−29 50.6	1.125	0.352	57.7	19.4	18 W	—	12*
1 10	18 11.55	−29 46.5	1.158	0.369	53.4	19.4	18 W	—	12*
1 11	18 16.49	−29 40.1	1.189	0.387	49.6	19.5	17 W	—	11*
1 12	18 21.44	−29 31.9	1.219	0.406	46.2	19.5	17 W	—	11*
1 14	18 31.29	−29 11.2	1.277	0.445	40.7	19.7	17 W	—	11*
1 16	18 40.89	−28 46.0	1.331	0.484	36.4	19.8	17 W	—	11*
1 18	18 50.16	−28 17.8	1.381	0.523	33.0	20.0	17 W	—	11*
1 20	18 59.05	−27 47.5	1.428	0.563	30.3	20.1	17 W	—	11*
1 22	19 7.56	−27 15.6	1.472	0.601	28.2	20.3	17 W	—	11*
1 27	19 27.24	−25 52.3	1.574	0.695	24.6	20.6	17 W	—	11*
2 1	19 44.84	−24 26.9	1.663	0.785	22.6	21.0	18 W	—	12*
2 6	20 0.70	−23 1.6	1.742	0.870	21.6	21.3	19 W	1*	13*
2 11	20 15.10	−21 37.4	1.812	0.951	21.2	21.5	20 W	2*	14*

513170 2004 KH_{15}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 2	17 56.14	+27 2.9	0.312	0.826	111.3	21.0	52 W	38*	—
1 4	17 57.54	+28 48.1	0.331	0.830	107.9	20.9	53 W	40*	—
1 6	17 58.98	+30 15.8	0.349	0.834	104.7	20.9	55 W	42*	—
1 8	18 0.44	+31 28.7	0.368	0.839	101.9	20.9	57 W	44*	—
1 10	18 1.95	+32 29.3	0.387	0.844	99.3	20.9	58 W	46*	—
1 12	18 3.50	+33 19.5	0.405	0.848	96.9	20.9	59 W	47*	—
1 14	18 5.10	+34 0.9	0.423	0.853	94.8	20.9	60 W	49*	—
1 16	18 6.74	+34 34.9	0.441	0.858	92.7	20.9	61 W	50*	—
1 18	18 8.44	+35 2.7	0.458	0.864	90.9	20.9	61 W	51*	—
1 20	18 10.18	+35 25.2	0.474	0.869	89.1	20.9	62 W	52*	—
1 22	18 11.96	+35 43.2	0.490	0.875	87.5	20.9	63 W	53*	—
1 27	18 16.58	+36 12.6	0.528	0.889	83.9	21.0	64 W	55*	—
2 1	18 21.39	+36 25.7	0.561	0.904	80.9	21.1	65 W	57*	1*
2 6	18 26.33	+36 27.7	0.590	0.919	78.3	21.1	66 W	59*	4*
2 11	18 31.38	+36 22.0	0.614	0.934	76.1	21.1	67 W	60*	7*
2 16	18 36.51	+36 11.4	0.633	0.949	74.3	21.2	68 W	61*	10*
2 21	18 41.67	+35 57.7	0.647	0.964	72.7	21.2	69 W	63*	13*
2 26	18 46.82	+35 42.3	0.657	0.979	71.4	21.2	70 W	64*	15*
3 2	18 51.91	+35 25.8	0.661	0.993	70.4	21.3	71 W	64*	18*
3 7	18 56.90	+35 8.6	0.661	1.007	69.5	21.3	72 W	65*	20*
3 12	19 1.78	+34 50.8	0.656	1.020	68.8	21.2	73 W	66*	22*
3 17	19 6.52	+34 32.8	0.647	1.033	68.2	21.2	75 W	67*	24*
3 22	19 11.09	+34 14.5	0.633	1.045	67.8	21.2	76 W	68*	26*
3 27	19 15.41	+33 55.5	0.615	1.057	67.4	21.1	78 W	69*	28*
4 1	19 19.44	+33 35.3	0.593	1.067	67.1	21.1	80 W	69*	29*
4 6	19 23.14	+33 12.9	0.568	1.077	66.8	21.0	82 W	70*	30*
4 11	19 26.47	+32 47.3	0.539	1.086	66.6	20.9	84 W	71*	31*
4 16	19 29.35	+32 17.3	0.506	1.094	66.2	20.8	86 W	72*	32
4 21	19 31.64	+31 41.0	0.471	1.101	65.8	20.6	89 W	72*	32
4 26	19 33.22	+30 55.4	0.434	1.108	65.3	20.4	92 W	73*	33
5 1	19 33.88	+29 55.9	0.394	1.113	64.4	20.2	95 W	73*	34
5 6	19 33.39	+28 36.0	0.352	1.117	63.2	19.9	99 W	73*	35
5 11	19 31.38	+26 45.7	0.309	1.121	61.5	19.6	103 W	72*	37
5 13	19 30.03	+25 49.5	0.292	1.122	60.5	19.4	105 W	71*	38
5 15	19 28.29	+24 44.5	0.275	1.123	59.4	19.3	107 W	70	39
5 17	19 26.10	+23 28.4	0.257	1.123	58.1	19.1	109 W	68	41
5 19	19 23.39	+21 58.9	0.240	1.124	56.6	18.9	112 W	67	42
5 21	19 20.04	+20 12.7	0.222	1.124	54.7	18.7	115 W	65	44
5 23	19 15.96	+18 5.7	0.205	1.125	52.4	18.4	118 W	63	46
5 25	19 10.99	+15 32.5	0.189	1.125	49.7	18.2	122 W	61	48

513170 2004 KH_{15} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 27	19 4.95	+12 26.5	0.173	1.125	46.4	17.9	127 W	57	52
5 29	18 57.61	+ 8 39.3	0.157	1.124	42.3	17.6	132 W	54	55
5 31	18 48.67	+ 4 1.2	0.143	1.124	37.3	17.2	138 W	49	60
6 1	18 43.49	+ 1 19.8	0.137	1.124	34.4	17.1	141 W	46	63
6 2	18 37.75	− 1 38.0	0.131	1.124	31.3	16.9	145 W	43	66
6 3	18 31.40	− 4 53.1	0.125	1.123	27.8	16.7	149 W	40	69
6 4	18 24.37	− 8 25.7	0.120	1.123	24.1	16.5	153 W	37	72
6 5	18 16.56	−12 15.5	0.116	1.123	20.2	16.3	158 W	33	76
6 6	18 7.89	−16 21.0	0.112	1.122	16.1	16.1	162 W	29	80
6 7	17 58.26	−20 39.6	0.109	1.122	12.1	15.9	167 W	24	85
6 8	17 47.58	−25 7.2	0.108	1.121	9.0	15.7	170 W	20	89
6 9	17 35.73	−29 38.7	0.107	1.121	8.1	15.7	171 W	15	86
6 10	17 22.63	−34 8.1	0.107	1.120	10.2	15.7	169 W	11	82
6 11	17 8.19	−38 29.0	0.107	1.119	14.1	15.9	164 E	7	78
6 12	16 52.38	−42 35.4	0.109	1.119	18.4	16.1	160 E	2	73
6 13	16 35.18	−46 22.4	0.112	1.118	22.9	16.3	155 E	—	70
6 14	16 16.68	−49 46.1	0.116	1.117	27.2	16.5	150 E	—	66
6 15	15 57.02	−52 44.3	0.120	1.116	31.2	16.7	145 E	—	63
6 16	15 36.46	−55 16.3	0.125	1.116	35.0	16.9	141 E	—	61
6 17	15 15.30	−57 22.5	0.130	1.115	38.5	17.0	137 E	—	59
6 18	14 53.95	−59 4.4	0.136	1.114	41.7	17.2	133 E	—	57
6 19	14 32.81	−60 24.4	0.143	1.113	44.6	17.4	130 E	—	56
6 20	14 12.25	−61 25.1	0.149	1.112	47.2	17.6	127 E	—	55
6 21	13 52.60	−62 9.3	0.156	1.111	49.5	17.7	124 E	—	54
6 22	13 34.10	−62 40.0	0.164	1.110	51.7	17.9	121 E	—	53
6 23	13 16.90	−62 59.7	0.171	1.109	53.6	18.1	119 E	—	53
6 24	13 1.05	−63 10.7	0.179	1.108	55.4	18.2	116 E	—	53
6 25	12 46.57	−63 15.0	0.187	1.106	56.9	18.3	114 E	—	53
6 26	12 33.40	−63 14.2	0.195	1.105	58.4	18.5	112 E	—	53
6 27	12 21.46	−63 9.7	0.203	1.104	59.7	18.6	110 E	—	53
6 28	12 10.65	−63 2.5	0.211	1.103	60.9	18.7	109 E	—	53
6 29	12 0.88	−62 53.3	0.219	1.101	61.9	18.8	107 E	—	53*
6 30	11 52.03	−62 42.9	0.228	1.100	62.9	18.9	106 E	—	53*
7 1	11 44.02	−62 31.8	0.236	1.098	63.8	19.0	104 E	—	53*
7 2	11 36.76	−62 20.2	0.244	1.097	64.7	19.1	103 E	—	53*
7 3	11 30.16	−62 8.5	0.253	1.096	65.4	19.2	102 E	—	52*
7 4	11 24.15	−61 56.8	0.261	1.094	66.1	19.3	100 E	—	52*
7 5	11 18.67	−61 45.3	0.269	1.093	66.7	19.4	99 E	—	52*
7 6	11 13.66	−61 34.2	0.278	1.091	67.3	19.5	98 E	—	51*
7 7	11 9.06	−61 23.4	0.286	1.089	67.9	19.6	97 E	—	51*
7 8	11 4.85	−61 13.1	0.294	1.088	68.4	19.6	96 E	—	50*
7 9	11 0.97	−61 3.2	0.303	1.086	68.8	19.7	95 E	—	50*
7 10	10 57.39	−60 53.8	0.311	1.084	69.3	19.8	94 E	—	49*
7 11	10 54.08	−60 44.9	0.319	1.082	69.7	19.8	93 E	—	49*
7 12	10 51.02	−60 36.5	0.327	1.081	70.0	19.9	92 E	—	48*
7 13	10 48.17	−60 28.6	0.335	1.079	70.4	20.0	92 E	—	48*
7 14	10 45.53	−60 21.2	0.343	1.077	70.7	20.0	91 E	—	47*
7 15	10 43.07	−60 14.2	0.351	1.075	71.0	20.1	90 E	—	46*
7 16	10 40.77	−60 7.7	0.359	1.073	71.3	20.1	89 E	—	46*
7 17	10 38.62	−60 1.7	0.366	1.071	71.5	20.2	88 E	—	45*
7 18	10 36.61	−59 56.1	0.374	1.069	71.8	20.2	88 E	—	44*
7 19	10 34.71	−59 50.9	0.382	1.067	72.0	20.3	87 E	—	44*
7 20	10 32.93	−59 46.1	0.389	1.065	72.2	20.3	86 E	—	43*
7 22	10 29.67	−59 37.5	0.404	1.061	72.6	20.4	85 E	—	42*
7 24	10 26.74	−59 30.3	0.418	1.056	73.0	20.5	84 E	—	40*
7 26	10 24.08	−59 24.3	0.432	1.052	73.3	20.5	83 E	—	39*
7 28	10 21.65	−59 19.2	0.445	1.047	73.5	20.6	82 E	—	38*
7 30	10 19.41	−59 15.0	0.458	1.043	73.8	20.7	81 E	—	36*
8 1	10 17.33	−59 11.5	0.471	1.038	74.0	20.7	79 E	—	35*
8 3	10 15.38	−59 8.4	0.483	1.033	74.3	20.8	78 E	—	33*
8 5	10 13.55	−59 5.8	0.494	1.028	74.5	20.8	78 E	—	32*
8 7	10 11.81	−59 3.4	0.505	1.023	74.7	20.9	77 E	—	31*
8 9	10 10.15	−59 1.2	0.516	1.017	74.9	20.9	76 E	—	29*
8 14	10 6.32	−58 55.8	0.539	1.004	75.4	21.0	74 E	—	26*
8 19	10 2.80	−58 49.3	0.559	0.990	76.0	21.1	72 E	—	23*
8 24	9 59.51	−58 40.3	0.574	0.975	76.6	21.1	70 W	—	23*
8 29	9 56.42	−58 27.0	0.585	0.961	77.4	21.2	68 W	—	25*
9 3	9 53.58	−58 7.4	0.592	0.946	78.3	21.2	67 W	—	27*
9 8	9 51.12	−57 39.8	0.594	0.930	79.4	21.2	65 W	—	30*
9 13	9 49.21	−57 2.4	0.592	0.915	80.7	21.2	64 W	—	32*
9 18	9 48.04	−56 13.2	0.585	0.900	82.2	21.2	63 W	—	34*
9 23	9 47.84	−55 10.0	0.574	0.886	83.9	21.2	61 W	—	36*
9 28	9 48.88	−53 49.5	0.559	0.872	86.0	21.2	60 W	—	38*
10 3	9 51.52	−52 8.4	0.539	0.858	88.4	21.1	59 W	—	40*
10 8	9 56.13	−50 2.7	0.516	0.846	91.1	21.1	58 W	—	42*
10 13	10 3.06	−47 27.6	0.491	0.834	94.1	21.1	57 W	—	43*
10 18	10 12.66	−44 16.8	0.463	0.824	97.4	21.1	55 W	—	45*
10 23	10 25.21	−40 22.9	0.435	0.815	101.0	21.1	54 W	—	46*
10 28	10 40.96	−35 37.6	0.408	0.808	104.7	21.2	52 W	4*	45*
11 2	11 0.02	−29 55.2	0.385	0.803	108.1	21.2	50 W	10*	44*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
513170 2004 KH_{15} *(continuation)*									
11 7	11 22.29	−23 16.5	0.367	0.799	110.8	21.3	49 W	16*	42*
11 12	11 47.39	−15 54.2	0.357	0.798	112.3	21.3	48 W	23*	37*
11 17	12 14.61	− 8 16.1	0.357	0.798	112.0	21.3	48 W	30*	32*
11 22	12 43.06	− 0 58.7	0.368	0.800	109.8	21.2	50 W	36*	27*
11 27	13 11.75	+ 5 24.5	0.388	0.805	106.3	21.1	52 W	42*	21*
12 2	13 39.83	+10 35.0	0.417	0.811	102.0	21.1	54 W	46*	17*
12 7	14 6.62	+14 30.2	0.453	0.819	97.4	21.0	55 W	49*	13*
12 12	14 31.73	+17 18.3	0.492	0.828	93.0	21.1	57 W	51*	11*
12 17	14 55.00	+19 11.5	0.534	0.839	88.7	21.1	58 W	52*	9*
12 22	15 16.42	+20 22.1	0.576	0.850	84.9	21.1	59 W	53*	9*
12 27	15 36.13	+21 0.4	0.618	0.863	81.4	21.2	60 W	54*	9*
1 1	15 54.32	+21 14.7	0.658	0.877	78.2	21.2	61 W	55*	10*
1 6	16 11.19	+21 11.5	0.696	0.891	75.4	21.3	61 W	55*	11*
1 11	16 26.93	+20 55.8	0.731	0.906	73.0	21.4	62 W	55*	13*
1 16	16 41.67	+20 31.1	0.762	0.921	70.8	21.4	62 W	55*	15*
401998 2003 MO									
1 2	18 3.88	−18 9.5	2.321	1.369	8.0	21.5	11 W	4*	—
1 7	18 18.37	−17 49.7	2.236	1.295	9.6	21.3	13 W	5*	2*
1 12	18 33.85	−17 23.3	2.149	1.219	11.3	21.2	14 W	6*	4*
1 17	18 50.48	−16 49.1	2.059	1.139	13.0	21.0	15 W	7*	5*
1 22	19 8.45	−16 5.7	1.967	1.056	14.8	20.8	16 W	7*	6*
1 27	19 27.98	−15 11.4	1.874	0.969	16.5	20.6	16 W	7*	6*
2 1	19 49.37	−14 4.2	1.781	0.878	18.2	20.3	16 W	7*	7*
2 6	20 12.99	−12 41.9	1.688	0.782	19.6	20.0	15 W	7*	6*
2 11	20 39.33	−11 1.9	1.596	0.682	20.5	19.6	14 W	6*	5*
2 16	21 9.06	− 9 2.1	1.506	0.576	20.6	19.1	12 W	4*	2*
2 21	21 43.07	− 6 41.8	1.418	0.466	18.9	18.5	9 W	2*	—
2 26	22 22.67	− 4 5.8	1.328	0.357	15.9	17.6	6 W	—	—
3 2	23 9.04	− 1 37.6	1.222	0.267	26.9	17.2	7 E	1*	—
3 3	23 19.01	− 1 14.0	1.197	0.256	32.8	17.2	8 E	2*	—
3 4	23 29.09	− 0 54.1	1.170	0.249	39.8	17.3	9 E	3*	—
3 5	23 39.18	− 0 38.7	1.141	0.245	47.4	17.4	10 E	4*	—
3 6	23 49.18	− 0 28.0	1.111	0.246	55.3	17.6	12 E	5*	1*
3 7	23 58.99	− 0 22.3	1.080	0.251	63.2	17.8	13 E	6*	3*
3 8	0 8.55	− 0 21.4	1.049	0.259	70.5	18.0	14 E	7*	4*
3 9	0 17.85	− 0 24.8	1.017	0.272	77.2	18.3	15 E	7*	6*
3 10	0 26.88	− 0 31.9	0.986	0.287	83.1	18.6	17 E	8*	7*
3 11	0 35.68	− 0 42.3	0.956	0.304	88.2	18.8	18 E	9*	8*
3 12	0 44.28	− 0 55.3	0.926	0.323	92.5	19.1	19 E	9*	10*
3 14	1 1.12	− 1 27.3	0.871	0.363	98.9	19.5	21 E	10*	13*
3 16	1 17.76	− 2 5.2	0.821	0.407	103.0	19.8	23 E	10*	15*
3 18	1 34.54	− 2 46.8	0.775	0.451	105.4	20.0	26 E	11*	18*
3 20	1 51.71	− 3 31.0	0.735	0.495	106.5	20.2	29 E	11*	21*
3 22	2 9.45	− 4 16.6	0.699	0.540	106.4	20.2	31 E	12*	24*
3 24	2 27.89	− 5 2.7	0.668	0.583	105.5	20.3	34 E	13*	27*
3 26	2 47.10	− 5 48.4	0.641	0.626	103.9	20.2	38 E	14*	30*
3 28	3 7.07	− 6 32.6	0.619	0.668	101.7	20.2	41 E	15*	34*
3 30	3 27.74	− 7 14.5	0.601	0.709	99.0	20.1	45 E	16*	38*
4 1	3 48.97	− 7 52.9	0.588	0.749	95.9	20.1	48 E	17*	41*
4 3	4 10.59	− 8 26.9	0.580	0.789	92.6	20.0	52 E	18*	45*
4 5	4 32.36	− 8 55.8	0.576	0.827	89.1	19.9	56 E	19*	49*
4 7	4 54.02	− 9 19.2	0.576	0.865	85.5	19.9	60 E	21*	52*
4 9	5 15.32	− 9 36.7	0.580	0.902	81.9	19.9	63 E	22*	56*
4 11	5 36.02	− 9 48.6	0.589	0.939	78.3	19.8	67 E	23*	59*
4 13	5 55.92	− 9 55.3	0.602	0.975	74.8	19.9	70 E	24*	62*
4 15	6 14.88	− 9 57.5	0.617	1.010	71.6	19.9	73 E	25*	64*
4 17	6 32.80	− 9 55.9	0.636	1.044	68.5	19.9	75 E	26*	66*
4 19	6 49.65	− 9 51.2	0.658	1.078	65.6	20.0	78 E	27*	68*
4 21	7 5.42	− 9 44.3	0.683	1.111	62.9	20.0	80 E	27*	69*
4 26	7 40.34	− 9 21.4	0.753	1.192	57.1	20.2	84 E	29*	71*
5 1	8 9.58	− 8 56.0	0.835	1.270	52.4	20.5	87 E	29*	72*
5 6	8 34.23	− 8 32.5	0.924	1.345	48.6	20.7	88 E	29*	72*
5 11	8 55.26	− 8 12.9	1.020	1.416	45.5	20.9	89 E	29*	72*
5 16	9 13.50	− 7 57.9	1.119	1.486	42.9	21.2	88 E	29*	72*
5 21	9 29.57	− 7 47.5	1.223	1.553	40.6	21.4	88 E	28*	72*
469478 2002 TU_2									
1 2	18 58.09	−25 46.6	2.723	1.743	2.1	21.4	4 E	—	—
1 12	19 27.71	−24 53.6	2.705	1.724	1.8	21.4	3 W	—	—
1 22	19 57.23	−23 39.6	2.684	1.707	3.1	21.4	5 W	—	—
2 1	20 26.46	−22 5.5	2.661	1.692	4.8	21.5	8 W	—	2*
2 11	20 55.22	−20 12.9	2.637	1.680	6.6	21.5	11 W	—	5*
264242 2010 TO_{131}									
1 2	19 4.87	−23 19.5	2.850	1.871	2.2	21.5	4 E	—	—
1 12	19 31.62	−22 36.4	2.827	1.844	0.4	21.3	1 E	—	—
1 22	19 58.53	−21 36.0	2.798	1.818	2.1	21.4	4 W	—	—
2 1	20 25.49	−20 18.8	2.765	1.793	4.2	21.5	8 W	—	2*
2 11	20 52.36	−18 45.5	2.727	1.770	6.2	21.5	11 W	—	5*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
484795 2009 DE_{47}									
1 2	19 6.29	−33 49.2	2.253	1.305	8.7	21.4	12 E	—	3*
1 12	19 43.62	−32 44.6	2.225	1.275	8.7	21.4	11 E	—	2*
1 22	20 20.91	−31 1.0	2.192	1.242	8.9	21.3	11 E	—	1*
2 1	20 57.84	−28 38.4	2.156	1.205	9.2	21.2	11 E	—	—
2 11	21 34.19	−25 37.4	2.117	1.166	9.5	21.1	11 W	—	—
2 21	22 9.91	−21 59.6	2.077	1.123	9.8	21.0	11 W	—	—
3 2	22 45.05	−17 47.2	2.036	1.078	9.8	20.8	11 W	—	—
3 12	23 19.83	−13 2.8	1.995	1.031	9.6	20.7	10 W	—	—
3 22	23 54.59	− 7 50.2	1.956	0.984	9.0	20.5	9 W	—	—
4 1	0 29.81	− 2 14.1	1.920	0.938	7.9	20.3	7 W	—	—
4 6	0 47.78	+ 0 40.8	1.903	0.916	7.2	20.2	7 W	—	—
4 11	1 6.10	+ 3 39.0	1.886	0.894	6.3	20.1	6 W	—	—
4 16	1 24.88	+ 6 39.2	1.871	0.874	5.3	20.0	5 W	—	—
4 21	1 44.23	+ 9 39.9	1.857	0.856	4.2	19.9	4 W	—	—
4 26	2 4.25	+12 39.5	1.843	0.839	3.2	19.8	3 W	—	—
5 1	2 25.06	+15 35.8	1.831	0.825	2.6	19.7	2 W	—	—
5 6	2 46.76	+18 26.6	1.819	0.813	3.0	19.7	2 W	—	—
5 11	3 9.47	+21 9.3	1.809	0.803	4.2	19.7	3 W	—	—
5 16	3 33.25	+23 40.9	1.801	0.797	5.8	19.7	5 E	—	—
5 21	3 58.15	+25 58.4	1.793	0.794	7.6	19.8	6 E	—	—
5 26	4 24.12	+27 58.6	1.788	0.794	9.5	19.9	7 E	1*	—
5 31	4 51.09	+29 38.7	1.784	0.797	11.2	20.0	9 E	3*	—
6 5	5 18.85	+30 56.1	1.782	0.804	12.9	20.0	10 E	4*	—
6 10	5 47.17	+31 48.8	1.782	0.813	14.5	20.1	12 E	6*	—
6 15	6 15.72	+32 15.8	1.784	0.825	15.8	20.2	13 E	7*	—
6 20	6 44.15	+32 17.0	1.789	0.840	17.0	20.3	14 E	8*	—
6 25	7 12.12	+31 53.2	1.796	0.856	18.0	20.4	15 E	8*	1*
6 30	7 39.31	+31 6.2	1.806	0.875	18.7	20.5	16 E	9*	2*
7 5	8 5.49	+29 58.4	1.818	0.895	19.3	20.5	17 E	9*	4*
7 10	8 30.50	+28 32.4	1.832	0.916	19.6	20.6	18 E	9*	5*
7 15	8 54.27	+26 51.2	1.849	0.939	19.7	20.7	18 E	9*	7*
7 20	9 16.78	+24 57.8	1.868	0.961	19.7	20.8	19 E	9*	8*
7 25	9 38.07	+22 54.7	1.889	0.985	19.5	20.8	19 E	9*	9*
7 30	9 58.21	+20 44.4	1.912	1.008	19.2	20.9	19 E	8*	10*
8 4	10 17.28	+18 29.0	1.935	1.032	18.8	21.0	19 E	8*	10*
8 9	10 35.41	+16 10.3	1.961	1.055	18.3	21.0	19 E	7*	11*
8 14	10 52.68	+13 49.8	1.987	1.078	17.6	21.1	19 E	6*	11*
8 19	11 9.22	+11 28.5	2.013	1.101	16.9	21.1	18 E	6*	11*
8 24	11 25.12	+ 9 7.6	2.040	1.123	16.2	21.2	18 E	5*	11*
8 29	11 40.46	+ 6 47.7	2.067	1.145	15.4	21.2	18 E	4*	11*
9 3	11 55.33	+ 4 29.6	2.094	1.166	14.5	21.3	17 E	3*	10*
9 8	12 9.82	+ 2 13.6	2.121	1.187	13.6	21.3	16 E	3*	10*
9 13	12 23.98	+ 0 0.2	2.147	1.206	12.7	21.3	15 E	2*	9*
9 18	12 37.90	− 2 10.4	2.172	1.225	11.8	21.3	14 E	1*	8*
9 23	12 51.63	− 4 18.0	2.197	1.243	10.8	21.4	13 E	—	7*
9 28	13 5.21	− 6 22.3	2.220	1.260	9.9	21.4	12 E	—	6*
10 3	13 18.70	− 8 23.2	2.241	1.276	8.9	21.4	11 E	—	5*
10 8	13 32.14	−10 20.6	2.262	1.291	7.9	21.4	10 E	—	4*
10 13	13 45.59	−12 14.4	2.281	1.305	7.0	21.4	9 E	—	3*
10 18	13 59.08	−14 4.5	2.298	1.318	6.1	21.4	8 E	—	2*
10 23	14 12.64	−15 50.7	2.313	1.331	5.2	21.4	7 E	—	1*
10 28	14 26.31	−17 32.9	2.326	1.342	4.4	21.4	6 E	—	—
11 2	14 40.11	−19 11.0	2.337	1.352	3.8	21.4	5 E	—	—
11 7	14 54.09	−20 44.9	2.347	1.361	3.4	21.4	5 E	—	—
11 12	15 8.26	−22 14.4	2.354	1.369	3.3	21.4	5 W	—	—
11 17	15 22.66	−23 39.3	2.359	1.376	3.6	21.4	5 W	—	—
11 22	15 37.29	−24 59.4	2.362	1.383	4.1	21.4	6 W	—	—
11 27	15 52.18	−26 14.5	2.362	1.388	4.8	21.5	7 W	—	—
287646 2003 KD_7									
1 2	19 7.51	−18 45.9	2.612	1.639	3.9	21.4	6 E	—	—
1 12	19 37.40	−18 6.6	2.607	1.628	2.4	21.3	4 E	—	—
1 22	20 7.19	−17 7.8	2.602	1.620	1.9	21.3	3 W	—	—
2 1	20 36.71	−15 51.0	2.595	1.615	2.8	21.3	5 W	—	—
2 11	21 5.81	−14 18.1	2.588	1.614	4.4	21.4	7 W	—	—
2 21	21 34.39	−12 31.5	2.580	1.615	6.0	21.5	10 W	—	3*
471545 2012 KC_{13}									
1 2	19 8.05	−23 20.7	2.640	1.662	2.9	21.4	5 E	—	—
1 12	19 38.59	−22 30.7	2.638	1.655	1.2	21.3	2 E	—	—
1 22	20 8.83	−21 19.7	2.635	1.651	1.1	21.3	2 W	—	—
2 1	20 38.56	−19 49.2	2.631	1.651	2.7	21.4	5 W	—	—
2 11	21 7.61	−18 1.8	2.626	1.654	4.5	21.5	8 W	—	2*
378056 2006 TM_{74}									
1 2	19 10.75	−24 44.3	2.639	1.664	3.4	21.4	6 E	—	—
1 12	19 41.46	−24 0.5	2.626	1.646	2.0	21.3	3 E	—	—
1 22	20 12.15	−22 54.4	2.612	1.631	1.8	21.3	3 W	—	—
2 1	20 42.60	−21 27.2	2.598	1.618	3.0	21.3	5 W	—	—
2 11	21 12.61	−19 40.7	2.582	1.610	4.6	21.4	8 W	—	1*
2 21	21 42.06	−17 37.3	2.567	1.604	6.3	21.5	10 W	—	4*

498918 2009 *BF*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 2	19 13.74	−25 52.4	2.239	1.267	5.2	21.5	7 E	—	1*
1 7	19 28.48	−23 38.6	2.247	1.270	3.6	21.4	5 E	—	—
1 12	19 42.64	−21 20.9	2.255	1.274	2.2	21.3	3 E	—	—
1 17	19 56.30	−18 59.7	2.261	1.279	1.7	21.3	2 E	—	—
1 22	20 9.52	−16 35.4	2.266	1.285	2.6	21.4	3 W	—	—

369539 2011 AP_5

1 2	19 14.11	−24 12.3	3.322	2.347	2.7	21.3	6 E	—	—
1 12	19 34.02	−22 49.6	3.300	2.317	0.5	21.1	1 E	—	—
1 22	19 53.87	−21 16.6	3.266	2.286	2.1	21.2	5 W	—	—
2 1	20 13.61	−19 33.2	3.219	2.255	4.4	21.3	10 W	—	4*
2 11	20 33.18	−17 39.3	3.161	2.224	6.7	21.3	15 W	2*	9*
2 21	20 52.57	−15 34.8	3.092	2.192	9.0	21.4	20 W	4*	14*
3 2	21 11.75	−13 19.7	3.013	2.160	11.4	21.4	25 W	7*	19*
3 12	21 30.72	−10 54.3	2.926	2.128	13.6	21.4	30 W	9*	24*
3 22	21 49.50	− 8 18.4	2.831	2.095	15.9	21.3	35 W	11*	28*
4 1	22 8.09	− 5 32.4	2.730	2.063	18.0	21.3	40 W	13*	33*
4 11	22 26.54	− 2 36.3	2.624	2.031	20.2	21.2	44 W	16*	37*
4 21	22 44.88	+ 0 29.7	2.514	1.999	22.2	21.2	49 W	19*	41*
5 1	23 3.18	+ 3 45.5	2.402	1.967	24.1	21.1	53 W	22*	44*
5 11	23 21.48	+ 7 10.6	2.289	1.936	26.0	21.0	57 W	25*	46*
5 21	23 39.87	+10 44.8	2.175	1.905	27.7	20.9	61 W	30*	47*
5 31	23 58.40	+14 27.5	2.063	1.875	29.3	20.8	65 W	34*	46*
6 10	0 17.18	+18 17.9	1.954	1.847	30.8	20.7	69 W	40*	44*
6 20	0 36.30	+22 15.0	1.847	1.819	32.2	20.6	72 W	46*	41*
6 30	0 55.84	+26 17.1	1.745	1.793	33.4	20.5	76 W	52*	38*
7 5	1 5.80	+28 19.5	1.695	1.780	33.9	20.4	78 W	56*	36
7 10	1 15.90	+30 22.4	1.647	1.768	34.4	20.3	79 W	60*	34
7 15	1 26.16	+32 25.5	1.599	1.756	34.9	20.3	81 W	63*	32
7 20	1 36.58	+34 28.5	1.554	1.745	35.3	20.2	83 W	67*	30
7 25	1 47.16	+36 30.9	1.509	1.734	35.7	20.1	84 W	71*	27
7 30	1 57.91	+38 32.2	1.466	1.724	36.0	20.1	86 W	74*	25
8 4	2 8.83	+40 32.2	1.424	1.714	36.3	20.0	88 W	78*	23
8 9	2 19.92	+42 30.2	1.383	1.705	36.5	19.9	89 W	81*	21
8 14	2 31.17	+44 26.0	1.344	1.696	36.7	19.9	91 W	84*	20
8 19	2 42.54	+46 18.9	1.305	1.688	36.8	19.8	93 W	87*	18
8 24	2 53.99	+48 8.4	1.268	1.681	36.9	19.7	94 W	87*	16
8 29	3 5.49	+49 54.1	1.232	1.674	36.9	19.7	96 W	85	14
9 3	3 16.98	+51 35.4	1.198	1.668	36.8	19.6	98 W	83	12
9 8	3 28.37	+53 12.1	1.164	1.663	36.7	19.5	100 W	82	11
9 13	3 39.55	+54 43.6	1.131	1.658	36.5	19.4	102 W	80	9
9 18	3 50.37	+56 9.7	1.099	1.654	36.2	19.4	104 W	79	8
9 23	4 0.68	+57 29.7	1.068	1.650	35.8	19.3	106 W	78	7
9 28	4 10.29	+58 43.5	1.038	1.648	35.4	19.2	108 W	76	5
10 3	4 19.00	+59 50.6	1.008	1.646	34.8	19.1	110 W	75	4
10 8	4 26.57	+60 50.6	0.980	1.645	34.2	19.1	112 W	74	3
10 13	4 32.75	+61 43.0	0.953	1.645	33.4	19.0	115 W	73	2
10 18	4 37.28	+62 26.8	0.927	1.645	32.5	18.9	118 W	73	2
10 23	4 39.94	+63 1.1	0.902	1.646	31.4	18.8	120 W	72	1
10 28	4 40.63	+63 24.4	0.879	1.648	30.3	18.7	123 W	72	1
11 2	4 39.29	+63 35.1	0.857	1.651	29.0	18.6	126 W	71	—
11 7	4 36.01	+63 31.4	0.838	1.654	27.6	18.5	129 W	71	—
11 9	4 34.21	+63 25.4	0.831	1.656	27.1	18.5	131 W	72	1
11 11	4 32.16	+63 16.6	0.824	1.657	26.5	18.5	132 W	72	1
11 13	4 29.88	+63 5.0	0.818	1.659	25.9	18.4	133 W	72	1
11 15	4 27.43	+62 50.3	0.812	1.661	25.3	18.4	134 W	72	1
11 17	4 24.82	+62 32.6	0.807	1.663	24.7	18.4	135 W	72	1
11 19	4 22.11	+62 11.7	0.802	1.665	24.1	18.4	137 W	73	2
11 21	4 19.33	+61 47.6	0.798	1.667	23.5	18.3	138 W	73	2
11 23	4 16.53	+61 20.3	0.794	1.669	22.9	18.3	139 W	74	3
11 25	4 13.74	+60 49.8	0.791	1.672	22.4	18.3	140 W	74	3
11 27	4 11.00	+60 16.3	0.789	1.674	21.8	18.3	141 E	75	4
11 29	4 8.35	+59 39.7	0.787	1.677	21.4	18.2	142 E	75	4
12 1	4 5.82	+59 0.1	0.786	1.680	20.9	18.2	143 E	76	5
12 3	4 3.43	+58 17.8	0.786	1.683	20.5	18.2	143 E	77	6
12 5	4 1.21	+57 32.9	0.786	1.686	20.2	18.2	144 E	77	6
12 7	3 59.17	+56 45.6	0.788	1.689	19.9	18.2	144 E	78	7
12 12	3 55.00	+54 38.0	0.794	1.697	19.5	18.2	145 E	80	9
12 17	3 52.26	+52 20.2	0.805	1.705	19.5	18.3	145 E	83	12
12 22	3 50.99	+49 56.5	0.822	1.715	20.0	18.3	143 E	85	14
12 27	3 51.14	+47 30.9	0.844	1.724	20.9	18.4	141 E	87	16
1 1	3 52.58	+45 6.9	0.871	1.735	22.0	18.6	139 E	90	19
1 6	3 55.18	+42 47.5	0.903	1.745	23.3	18.7	135 E	88	21
1 11	3 58.79	+40 34.7	0.939	1.757	24.6	18.8	132 E	86	23
1 16	4 3.31	+38 30.1	0.980	1.769	25.8	19.0	128 E	84	25

324331 2006 OE_{12}

1 2	19 35.42	−21 55.8	2.639	1.686	6.6	21.4	11 E	2*	3*
1 12	20 4.66	−20 44.1	2.642	1.673	4.7	21.3	8 E	—	—
1 22	20 33.67	−19 13.4	2.642	1.663	2.8	21.2	5 E	—	—
2 1	21 2.30	−17 25.3	2.641	1.656	1.0	21.1	2 E	—	—

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 11	21 30.43	−15 22.1	2.638	1.652	0.9	21.0	2 W	—	—
2 21	21 58.01	−13 6.1	2.634	1.651	2.7	21.2	5 W	—	—
3 2	22 25.01	−10 40.1	2.630	1.652	4.5	21.3	8 W	—	2*
3 12	22 51.44	− 8 6.7	2.623	1.657	6.3	21.4	11 W	—	5*
3 22	23 17.33	− 5 28.8	2.616	1.664	8.1	21.5	14 W	—	8*

324331 2006 OE_{12} *(continuation)*

	h m	° ′			°	m	°	°	°
2 11	21 30.43	−15 22.1	2.638	1.652	0.9	21.0	2 W	—	—
2 21	21 58.01	−13 6.1	2.634	1.651	2.7	21.2	5 W	—	—
3 2	22 25.01	−10 40.1	2.630	1.652	4.5	21.3	8 W	—	2*
3 12	22 51.44	− 8 6.7	2.623	1.657	6.3	21.4	11 W	—	5*
3 22	23 17.33	− 5 28.8	2.616	1.664	8.1	21.5	14 W	—	8*

326646 2002 *TE*

1 2	19 50.03	−17 58.5	2.596	1.671	9.1	21.5	16 E	7*	5*
1 12	20 18.98	−17 17.9	2.599	1.652	7.3	21.4	12 E	5*	2*
1 22	20 48.06	−16 18.9	2.600	1.636	5.4	21.3	9 E	2*	—
2 1	21 17.11	−15 3.0	2.600	1.623	3.5	21.2	6 E	—	—
2 11	21 46.02	−13 32.0	2.598	1.613	1.7	21.0	3 E	—	—
2 21	22 14.68	−11 48.0	2.595	1.607	0.5	20.9	1 E	—	—
3 2	22 43.03	− 9 53.5	2.592	1.604	2.2	21.0	3 W	—	—
3 12	23 11.04	− 7 51.4	2.588	1.604	3.9	21.2	6 W	—	—
3 22	23 38.70	− 5 44.5	2.584	1.609	5.7	21.3	9 W	—	3*
4 1	0 6.01	− 3 35.4	2.580	1.616	7.5	21.3	12 W	—	6*
4 11	0 32.97	− 1 27.2	2.574	1.627	9.2	21.4	15 W	—	9*

471006 2009 SK_{235}

1 2	19 52.58	−25 37.6	2.637	1.708	8.7	21.5	15 E	2*	8*
1 12	20 21.56	−24 0.1	2.626	1.676	7.0	21.3	12 E	—	5*
1 22	20 50.50	−22 2.0	2.612	1.646	5.3	21.2	9 E	—	3*
2 1	21 19.26	−19 44.6	2.596	1.620	3.8	21.1	6 E	—	—
2 11	21 47.72	−17 9.5	2.579	1.596	2.5	20.9	4 E	—	—
2 21	22 15.85	−14 19.1	2.562	1.576	2.1	20.9	3 E	—	—
3 2	22 43.63	−11 15.8	2.545	1.559	2.9	20.9	5 W	—	—
3 12	23 11.08	− 8 2.8	2.530	1.547	4.2	20.9	7 W	—	—
3 22	23 38.26	− 4 43.2	2.515	1.538	5.6	21.0	9 W	—	2*
4 1	0 5.23	− 1 20.1	2.503	1.533	7.1	21.0	11 W	—	5*
4 11	0 32.06	+ 2 2.9	2.492	1.533	8.6	21.1	13 W	—	7*
4 21	0 58.84	+ 5 22.7	2.482	1.537	10.0	21.2	15 W	—	9*
5 1	1 25.63	+ 8 36.2	2.474	1.546	11.5	21.2	18 W	—	12*
5 11	1 52.47	+11 40.5	2.466	1.558	13.0	21.3	20 W	2*	14*
5 21	2 19.41	+14 33.1	2.458	1.574	14.4	21.4	23 W	4*	16*
5 31	2 46.44	+17 11.7	2.450	1.594	15.8	21.4	25 W	7*	18*
6 10	3 13.52	+19 34.5	2.441	1.618	17.2	21.5	28 W	10*	20*

380152 1999 YO_4

1 2	19 56.24	−32 25.1	3.255	2.339	7.5	21.4	18 E	—	12*
1 12	20 17.46	−30 43.4	3.248	2.305	5.8	21.3	14 E	—	7*
1 22	20 38.50	−28 52.4	3.231	2.271	4.6	21.2	11 E	—	3*
2 1	20 59.31	−26 52.2	3.201	2.235	4.2	21.1	10 E	—	—
2 11	21 19.85	−24 42.9	3.161	2.200	4.9	21.1	11 W	—	2*
2 21	21 40.11	−22 24.8	3.110	2.164	6.4	21.1	14 W	—	6*
3 2	22 0.09	−19 58.1	3.049	2.128	8.2	21.1	18 W	—	11*
3 12	22 19.80	−17 23.2	2.979	2.092	10.3	21.1	22 W	—	15*
3 22	22 39.28	−14 40.2	2.901	2.056	12.4	21.1	26 W	—	20*
4 1	22 58.56	−11 49.5	2.816	2.020	14.5	21.1	31 W	—	24*
4 11	23 17.70	− 8 51.4	2.724	1.984	16.7	21.1	35 W	3*	29*
4 21	23 36.77	− 5 45.8	2.628	1.949	18.8	21.0	39 W	5*	33*
5 1	23 55.83	− 2 33.0	2.526	1.914	21.0	21.0	43 W	8*	37*
5 11	0 14.96	+ 0 46.9	2.422	1.880	23.0	20.9	47 W	12*	40*
5 21	0 34.26	+ 4 14.0	2.315	1.847	25.1	20.8	51 W	15*	43*
5 31	0 53.82	+ 7 48.0	2.208	1.815	27.0	20.7	54 W	20*	45*
6 10	1 13.77	+11 28.8	2.100	1.784	28.9	20.6	58 W	25*	45*
6 20	1 34.25	+15 16.2	1.994	1.755	30.6	20.5	62 W	31*	44*
6 30	1 55.37	+19 9.3	1.890	1.727	32.2	20.4	65 W	37*	43*
7 10	2 17.33	+23 7.4	1.789	1.702	33.7	20.3	68 W	44*	40*
7 20	2 40.31	+27 9.1	1.693	1.679	35.1	20.2	72 W	52*	36*
7 25	2 52.23	+29 10.7	1.646	1.669	35.7	20.2	73 W	55*	35*
7 30	3 4.47	+31 12.3	1.601	1.659	36.2	20.1	75 W	59*	33*
8 4	3 17.06	+33 13.6	1.558	1.650	36.7	20.0	77 W	62*	31*
8 9	3 30.03	+35 14.2	1.515	1.641	37.2	20.0	78 W	66*	29*
8 14	3 43.39	+37 13.8	1.475	1.634	37.6	19.9	80 W	69*	27*
8 19	3 57.15	+39 11.7	1.436	1.627	37.9	19.9	81 W	72*	25*
8 24	4 11.33	+41 7.4	1.398	1.621	38.2	19.8	83 W	75*	23*
8 29	4 25.93	+43 0.5	1.362	1.615	38.5	19.8	84 W	77*	21*
9 3	4 40.94	+44 50.2	1.328	1.611	38.7	19.7	86 W	80*	19*
9 8	4 56.37	+46 36.3	1.295	1.607	38.8	19.6	88 W	82*	17*
9 13	5 12.16	+48 18.1	1.263	1.605	38.8	19.6	89 W	83*	16*
9 18	5 28.26	+49 55.2	1.233	1.603	38.8	19.5	91 W	83*	14*
9 23	5 44.60	+51 27.2	1.205	1.602	38.7	19.5	93 W	83*	13*
9 28	6 1.07	+52 53.9	1.178	1.601	38.6	19.4	94 W	82*	11*
10 3	6 17.58	+54 15.2	1.151	1.602	38.4	19.4	96 W	81	10*
10 8	6 33.99	+55 31.1	1.127	1.604	38.1	19.3	98 W	79	8*
10 13	6 50.11	+56 41.8	1.103	1.606	37.8	19.3	100 W	78	7*
10 18	7 5.74	+57 47.8	1.080	1.610	37.3	19.2	102 W	77	6*
10 23	7 20.68	+58 49.3	1.058	1.614	36.8	19.2	104 W	76	5*
10 28	7 34.71	+59 46.9	1.037	1.619	36.2	19.1	106 W	75	4*
11 2	7 47.61	+60 41.2	1.017	1.625	35.5	19.0	108 W	74	3*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
380152 1999 YO_4 *(continuation)*									
11 7	7 59.11	+61 32.7	0.998	1.631	34.8	19.0	110 W	73	2*
11 12	8 8.95	+62 22.1	0.980	1.639	33.9	18.9	113 W	73	2*
11 17	8 16.85	+63 9.5	0.963	1.647	32.9	18.9	115 W	72	1
11 22	8 22.51	+63 54.6	0.947	1.656	31.9	18.8	118 W	71	—
11 27	8 25.70	+64 36.9	0.933	1.665	30.8	18.8	120 W	70	—
12 2	8 26.18	+65 15.2	0.921	1.675	29.6	18.7	123 W	70	—
12 7	8 23.78	+65 48.0	0.910	1.686	28.3	18.7	126 W	69	—
12 12	8 18.42	+66 12.7	0.902	1.698	27.1	18.6	128 W	69	—
12 17	8 10.24	+66 26.4	0.896	1.710	25.8	18.6	131 W	69	—
12 19	8 6.26	+66 28.1	0.895	1.715	25.3	18.6	132 W	69	—
12 21	8 1.95	+66 27.4	0.894	1.720	24.9	18.6	133 W	69	—
12 23	7 57.34	+66 24.0	0.893	1.725	24.4	18.6	134 W	69	—
12 25	7 52.48	+66 17.8	0.894	1.731	24.0	18.6	134 W	69	—
12 27	7 47.45	+66 8.7	0.894	1.736	23.6	18.6	135 W	69	—
12 29	7 42.29	+65 56.6	0.895	1.741	23.2	18.6	136 W	69	—
12 31	7 37.06	+65 41.5	0.897	1.747	22.8	18.6	136 W	69	—
1 2	7 31.84	+65 23.2	0.900	1.752	22.5	18.6	137 W	70	—
1 4	7 26.68	+65 1.9	0.903	1.758	22.2	18.6	137 W	70	—
1 6	7 21.63	+64 37.6	0.907	1.764	22.0	18.6	138 W	70	—
1 8	7 16.74	+64 10.3	0.911	1.770	21.8	18.6	138 W	71	—
1 10	7 12.07	+63 40.1	0.916	1.775	21.6	18.6	138 E	71	—
1 12	7 7.65	+63 7.3	0.922	1.781	21.5	18.6	138 E	72	1
1 14	7 3.51	+62 32.0	0.929	1.787	21.5	18.6	138 E	72	1
1 16	6 59.68	+61 54.3	0.936	1.793	21.5	18.7	138 E	73	2
374684 2006 QD_{64}									
1 2	19 58.40	−17 0.5	2.558	1.649	10.5	21.5	18 E	9*	6*
1 12	20 27.48	−15 53.6	2.582	1.649	8.7	21.4	15 E	7*	3*
1 22	20 56.18	−14 30.1	2.605	1.652	6.8	21.4	12 E	5*	—
2 1	21 24.40	−12 52.2	2.626	1.658	5.0	21.3	8 E	2*	—
2 11	21 52.04	−11 2.4	2.647	1.666	3.1	21.2	5 E	—	—
2 21	22 19.08	− 9 3.2	2.665	1.678	1.3	21.1	2 E	—	—
3 2	22 45.50	− 6 57.4	2.682	1.691	1.0	21.1	2 W	—	—
3 12	23 11.33	− 4 47.5	2.696	1.708	2.7	21.3	5 W	—	—
3 22	23 36.59	− 2 36.2	2.707	1.726	4.6	21.4	8 W	—	2*
468727 2010 JE_{87}									
1 2	20 0.66	−23 50.2	1.391	0.534	32.5	21.4	17 E	4*	9*
1 7	20 34.42	−23 31.3	1.321	0.516	40.0	21.4	20 E	6*	12*
1 12	21 8.72	−22 41.9	1.247	0.509	48.2	21.5	23 E	8*	15*
1 17	21 42.98	−21 19.3	1.171	0.515	56.3	21.6	26 E	10*	17*
1 22	22 16.73	−19 22.6	1.097	0.532	63.7	21.8	29 E	13*	20*
120482 1992 TA									
1 2	20 8.06	−34 58.3	3.012	2.126	9.7	21.5	21 E	—	15*
1 12	20 31.19	−33 1.7	3.015	2.098	8.1	21.4	17 E	—	11*
1 22	20 53.90	−30 54.8	3.008	2.069	6.7	21.3	14 E	—	7*
2 1	21 16.17	−28 37.8	2.991	2.039	5.9	21.2	12 E	—	4*
2 11	21 37.99	−26 11.4	2.962	2.007	5.8	21.1	12 E	—	—
2 21	21 59.39	−23 35.8	2.924	1.974	6.5	21.1	13 W	—	3*
3 2	22 20.41	−20 51.5	2.876	1.940	7.9	21.1	16 W	—	7*
3 12	22 41.11	−17 58.8	2.819	1.905	9.7	21.1	19 W	—	11*
3 22	23 1.57	−14 58.0	2.754	1.870	11.6	21.1	22 W	—	15*
4 1	23 21.87	−11 49.2	2.680	1.833	13.7	21.0	26 W	—	19*
4 11	23 42.11	− 8 32.7	2.601	1.796	15.9	21.0	29 W	—	23*
4 21	0 2.41	− 5 8.2	2.515	1.758	18.1	21.0	33 W	1*	27*
5 1	0 22.90	− 1 36.0	2.425	1.720	20.3	20.9	36 W	4*	30*
5 11	0 43.75	+ 2 4.2	2.331	1.682	22.5	20.8	40 W	8*	33*
5 21	1 5.15	+ 5 52.3	2.234	1.644	24.8	20.8	43 W	11*	36*
5 31	1 27.32	+ 9 48.2	2.137	1.606	27.0	20.7	46 W	15*	37*
6 10	1 50.52	+13 51.2	2.040	1.569	29.1	20.6	49 W	20*	38*
6 20	2 15.11	+18 0.4	1.945	1.533	31.2	20.5	51 W	26*	37*
6 30	2 41.46	+22 13.6	1.853	1.498	33.2	20.4	54 W	31*	35*
7 5	2 55.44	+24 20.6	1.809	1.481	34.2	20.4	55 W	34*	34*
7 10	3 10.05	+26 27.2	1.766	1.465	35.1	20.3	56 W	37*	33*
7 15	3 25.35	+28 32.6	1.725	1.449	36.0	20.3	57 W	40*	31*
7 20	3 41.42	+30 36.0	1.685	1.434	36.9	20.2	58 W	43*	29*
7 25	3 58.32	+32 36.2	1.648	1.420	37.8	20.2	59 W	46*	28*
7 30	4 16.10	+34 32.1	1.612	1.406	38.6	20.1	60 W	48*	26*
8 4	4 34.82	+36 22.3	1.579	1.393	39.3	20.1	60 W	50*	24*
8 9	4 54.51	+38 5.2	1.548	1.381	40.0	20.0	61 W	52*	22*
8 14	5 15.19	+39 39.4	1.519	1.369	40.7	20.0	62 W	54*	20*
8 19	5 36.81	+41 3.1	1.492	1.359	41.3	20.0	62 W	55*	19*
8 24	5 59.29	+42 14.9	1.468	1.350	41.8	19.9	63 W	56*	17*
8 29	6 22.49	+43 13.2	1.446	1.341	42.3	19.9	63 W	57*	15*
9 3	6 46.25	+43 56.9	1.426	1.334	42.7	19.9	64 W	58*	14*
9 8	7 10.35	+44 25.2	1.407	1.328	43.1	19.8	64 W	58*	13*
9 13	7 34.52	+44 37.8	1.391	1.323	43.4	19.8	65 W	59*	12*
9 18	7 58.50	+44 34.9	1.376	1.319	43.7	19.8	65 W	59*	11*
9 23	8 22.02	+44 17.0	1.363	1.317	43.9	19.8	66 W	59*	10*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
120482 1992 TA *(continuation)*									
9 28	8 44.85	+43 45.3	1.351	1.315	44.1	19.7	66 W	60*	9*
10 3	9 6.83	+43 1.0	1.340	1.315	44.3	19.7	67 W	60*	9*
10 8	9 27.83	+42 5.7	1.329	1.316	44.4	19.7	67 W	61*	9*
10 13	9 47.75	+41 1.1	1.318	1.319	44.5	19.7	68 W	61*	9*
10 18	10 6.56	+39 48.9	1.308	1.322	44.5	19.7	68 W	62*	9*
10 28	10 40.80	+37 7.7	1.286	1.333	44.5	19.7	70 W	64*	11*
11 7	11 10.78	+34 13.2	1.262	1.348	44.5	19.7	72 W	66*	13*
11 17	11 36.86	+31 14.2	1.233	1.368	44.3	19.6	75 W	69*	16*
11 27	11 59.33	+28 17.0	1.198	1.391	44.0	19.6	78 W	70*	21*
12 7	12 18.43	+25 25.7	1.157	1.417	43.5	19.6	82 W	70*	26*
12 17	12 34.23	+22 43.2	1.110	1.447	42.8	19.5	87 W	68	31*
12 27	12 46.55	+20 10.9	1.056	1.479	41.6	19.4	93 W	65	38*
1 6	12 55.08	+17 48.7	0.998	1.513	39.9	19.3	100 W	63	44*
1 16	12 59.27	+15 36.2	0.938	1.548	37.3	19.1	107 W	61	48*
469449 2002 OW_{19}									
1 2	20 14.43	−17 33.5	2.857	1.973	10.4	21.4	21 E	11*	10*
1 12	20 35.92	−15 31.7	2.847	1.926	8.4	21.3	17 E	9*	5*
1 22	20 57.76	−13 16.9	2.828	1.879	6.5	21.1	13 E	6*	—
2 1	21 19.94	−10 48.8	2.800	1.833	4.8	21.0	9 E	3*	—
2 11	21 42.47	− 8 7.6	2.764	1.787	3.6	20.8	6 E	—	—
2 21	22 5.39	− 5 13.5	2.722	1.742	3.5	20.7	6 W	—	—
3 2	22 28.77	− 2 7.3	2.676	1.699	4.5	20.7	8 W	2*	—
3 12	22 52.69	+ 1 9.9	2.626	1.657	6.1	20.7	10 W	4*	—
3 22	23 17.30	+ 4 36.6	2.574	1.617	7.8	20.7	13 W	5*	3*
4 1	23 42.74	+ 8 10.5	2.522	1.580	9.5	20.6	15 W	7*	6*
4 11	0 9.19	+11 48.7	2.472	1.545	11.2	20.6	17 W	8*	8*
4 21	0 36.84	+15 27.7	2.424	1.514	12.8	20.6	20 W	10*	9*
5 1	1 5.88	+19 2.8	2.380	1.487	14.3	20.6	21 W	11*	11*
5 11	1 36.49	+22 28.6	2.341	1.464	15.6	20.5	23 W	13*	11*
5 21	2 8.78	+25 39.2	2.307	1.446	16.7	20.5	24 W	14*	12*
5 31	2 42.78	+28 28.1	2.279	1.433	17.8	20.5	26 W	15*	12*
6 5	3 0.37	+29 42.5	2.267	1.428	18.3	20.5	26 W	16*	12*
6 10	3 18.32	+30 49.1	2.257	1.425	18.7	20.5	27 W	17*	12*
6 15	3 36.58	+31 47.4	2.247	1.423	19.1	20.5	27 W	17*	11*
6 20	3 55.10	+32 36.8	2.239	1.423	19.5	20.5	28 W	18*	11*
6 25	4 13.80	+33 16.9	2.232	1.424	19.9	20.5	28 W	19*	11*
6 30	4 32.60	+33 47.3	2.226	1.426	20.3	20.5	29 W	20*	11*
7 5	4 51.40	+34 8.0	2.221	1.430	20.6	20.5	30 W	21*	11*
7 10	5 10.13	+34 18.8	2.217	1.435	21.0	20.5	30 W	22*	11*
7 15	5 28.70	+34 20.0	2.213	1.442	21.4	20.6	31 W	23*	11*
7 20	5 47.02	+34 11.8	2.209	1.450	21.7	20.6	32 W	24*	11*
7 25	6 5.00	+33 54.7	2.206	1.459	22.1	20.6	33 W	25*	11*
7 30	6 22.58	+33 29.1	2.202	1.469	22.5	20.6	34 W	26*	12*
8 4	6 39.70	+32 55.6	2.198	1.480	22.9	20.7	35 W	27*	12*
8 9	6 56.32	+32 14.9	2.194	1.493	23.3	20.7	36 W	28*	12*
8 14	7 12.41	+31 27.5	2.190	1.506	23.8	20.7	37 W	29*	13*
8 19	7 27.94	+30 34.2	2.185	1.521	24.2	20.7	38 W	31*	13*
8 24	7 42.90	+29 35.6	2.178	1.536	24.6	20.8	39 W	32*	14*
8 29	7 57.27	+28 32.3	2.171	1.553	25.1	20.8	41 W	33*	15*
9 3	8 11.06	+27 25.1	2.163	1.570	25.6	20.8	42 W	35*	16*
9 8	8 24.29	+26 14.3	2.153	1.588	26.1	20.9	44 W	36*	17*
9 13	8 36.96	+25 0.7	2.142	1.606	26.5	20.9	46 W	38*	18*
9 18	8 49.08	+23 44.6	2.130	1.626	27.0	20.9	47 W	40*	19*
9 23	9 0.66	+22 26.5	2.115	1.645	27.5	20.9	49 W	41*	20*
9 28	9 11.71	+21 6.9	2.099	1.666	27.9	21.0	51 W	43*	22*
10 3	9 22.25	+19 46.0	2.082	1.687	28.4	21.0	53 W	45*	23*
10 8	9 32.29	+18 24.3	2.062	1.708	28.8	21.0	55 W	46*	25*
10 13	9 41.83	+17 2.0	2.041	1.730	29.2	21.0	58 W	48*	27*
10 18	9 50.89	+15 39.3	2.018	1.752	29.6	21.0	60 W	49*	29*
10 23	9 59.45	+14 16.6	1.993	1.774	29.9	21.0	63 W	51*	31*
10 28	10 7.51	+12 54.1	1.966	1.797	30.2	21.0	65 W	52*	33*
11 2	10 15.09	+11 32.0	1.937	1.820	30.4	21.0	68 W	52*	35*
11 7	10 22.16	+10 10.3	1.907	1.843	30.6	21.0	71 W	53*	38*
11 12	10 28.71	+ 8 49.4	1.875	1.866	30.7	21.0	74 W	53*	41*
11 17	10 34.72	+ 7 29.5	1.841	1.889	30.7	21.0	77 W	52*	44*
11 22	10 40.16	+ 6 10.6	1.806	1.912	30.6	21.0	81 W	51*	47*
11 27	10 45.02	+ 4 53.0	1.770	1.936	30.5	21.0	84 W	50	50*
12 2	10 49.26	+ 3 36.9	1.734	1.959	30.2	21.0	88 W	49	53*
12 7	10 52.84	+ 2 22.4	1.696	1.983	29.8	20.9	91 W	47	56*
12 12	10 55.73	+ 1 9.8	1.658	2.006	29.3	20.9	95 W	46	60*
12 17	10 57.87	− 0 0.6	1.621	2.029	28.6	20.8	99 W	45	62*
12 22	10 59.23	− 1 8.5	1.583	2.053	27.7	20.8	104 W	44	65*
12 27	10 59.77	− 2 13.6	1.547	2.076	26.7	20.7	108 W	43	66
1 1	10 59.44	− 3 15.4	1.512	2.099	25.6	20.7	113 W	42	67
1 6	10 58.23	− 4 13.5	1.479	2.122	24.2	20.6	118 W	41	68
1 11	10 56.10	− 5 7.3	1.448	2.145	22.7	20.5	123 W	40	69
1 16	10 53.06	− 5 56.1	1.420	2.168	21.0	20.5	128 W	39	70