2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
276888 2004 RM_{323}									
3 2	17 33.97	−25 25.0	1.865	1.913	30.4	21.4	77 W	19*	71*
3 12	17 57.84	−25 16.0	1.727	1.870	31.7	21.2	82 W	19*	76*
3 22	18 21.67	−24 49.9	1.593	1.829	33.0	21.0	87 W	19*	81*
4 1	18 45.24	−24 6.2	1.464	1.789	34.0	20.8	91 W	20*	85*
4 11	19 8.35	−23 4.5	1.340	1.750	34.7	20.6	96 W	21*	87*
4 21	19 30.75	−21 45.0	1.224	1.714	35.3	20.4	100 W	22*	86
5 1	19 52.14	−20 8.3	1.115	1.681	35.5	20.1	105 W	24*	84
5 11	20 12.24	−18 15.8	1.014	1.650	35.3	19.9	109 W	26*	82
5 21	20 30.71	−16 9.3	0.921	1.623	34.7	19.6	114 W	28*	80
5 31	20 47.14	−13 51.9	0.837	1.599	33.6	19.3	119 W	31*	78
6 10	21 1.13	−11 27.4	0.763	1.580	31.9	19.1	125 W	33*	75
6 20	21 12.22	− 9 1.1	0.698	1.564	29.5	18.8	131 W	36	73
6 25	21 16.54	− 7 49.4	0.670	1.558	28.0	18.6	134 W	37	72
6 30	21 19.98	− 6 40.1	0.644	1.553	26.3	18.5	137 W	38	71
7 5	21 22.54	− 5 34.1	0.621	1.550	24.4	18.4	141 W	39	70
7 10	21 24.21	− 4 32.6	0.602	1.547	22.3	18.2	145 W	40	69
7 15	21 25.00	− 3 36.7	0.585	1.546	20.1	18.1	148 W	41	68
7 20	21 24.95	− 2 47.6	0.572	1.546	17.8	18.0	152 W	42	67
7 25	21 24.17	− 2 6.2	0.562	1.547	15.4	17.8	156 W	43	66
7 30	21 22.81	− 1 33.4	0.556	1.549	13.1	17.7	160 W	43	66
8 9	21 19.07	− 0 54.0	0.556	1.557	9.7	17.6	165 W	44	65
8 19	21 15.30	− 0 48.0	0.571	1.570	9.8	17.7	165 E	44	65
8 29	21 13.14	− 1 7.6	0.603	1.587	13.1	18.0	159 E	44	65
9 3	21 13.06	− 1 23.3	0.624	1.598	15.2	18.1	155 E	44	65
9 8	21 13.75	− 1 41.0	0.650	1.609	17.4	18.3	152 E	43	66
9 13	21 15.24	− 1 59.4	0.679	1.621	19.4	18.5	148 E	43	66
9 18	21 17.56	− 2 17.2	0.712	1.634	21.3	18.7	144 E	43	66
9 23	21 20.69	− 2 33.4	0.748	1.648	23.1	18.8	140 E	42	67
9 28	21 24.59	− 2 47.0	0.788	1.663	24.6	19.0	136 E	42	67
10 8	21 34.45	− 3 4.6	0.876	1.695	27.2	19.4	129 E	42	67
10 18	21 46.62	− 3 7.2	0.976	1.729	29.1	19.7	122 E	42	67
10 28	22 0.61	− 2 53.7	1.087	1.766	30.3	20.0	116 E	42	67
11 7	22 15.94	− 2 24.7	1.207	1.805	31.0	20.3	110 E	43	66
11 17	22 32.25	− 1 41.5	1.336	1.846	31.3	20.6	104 E	43	66*
11 27	22 49.25	− 0 45.7	1.472	1.888	31.1	20.9	98 E	44	63*
12 7	23 6.71	+ 0 20.8	1.614	1.931	30.6	21.1	93 E	45	59*
12 17	23 24.47	+ 1 36.0	1.761	1.976	29.8	21.3	87 E	47	54*
12 27	23 42.44	+ 2 58.1	1.911	2.021	28.8	21.5	82 E	48	49*
4947 Ninkasi									
3 2	17 53.73	−18 47.4	1.576	1.600	36.4	21.5	73 W	24*	65*
3 12	18 16.62	−17 13.3	1.480	1.597	37.4	21.4	78 W	26*	69*
3 22	18 38.41	−15 16.4	1.383	1.592	38.3	21.2	82 W	28*	73*
4 1	18 58.91	−12 56.7	1.286	1.586	39.0	21.1	87 W	30*	75*
4 11	19 17.96	−10 14.1	1.189	1.577	39.4	20.9	92 W	33*	74*
4 21	19 35.39	− 7 8.6	1.095	1.567	39.6	20.7	96 W	36*	71
5 1	19 50.93	− 3 40.6	1.003	1.554	39.5	20.5	101 W	40*	68
5 11	20 4.34	+ 0 9.1	0.916	1.540	39.1	20.3	106 W	44*	64
5 21	20 15.26	+ 4 19.1	0.835	1.525	38.3	20.1	111 W	49*	60
5 31	20 23.23	+ 8 45.6	0.760	1.507	37.3	19.8	116 W	54*	55
6 5	20 25.96	+11 3.2	0.725	1.498	36.8	19.7	118 W	56	53
6 10	20 27.77	+13 22.3	0.692	1.489	36.1	19.5	120 W	58	51
6 15	20 28.58	+15 41.7	0.661	1.479	35.5	19.4	122 W	61	48
6 20	20 28.30	+17 59.3	0.633	1.468	34.9	19.3	124 W	63	46
6 25	20 26.89	+20 13.1	0.606	1.458	34.4	19.2	126 W	65	44
6 30	20 24.31	+22 20.3	0.582	1.447	33.9	19.0	127 W	67	42
7 5	20 20.58	+24 18.5	0.560	1.436	33.5	18.9	129 W	69	40
7 10	20 15.74	+26 4.6	0.541	1.424	33.3	18.8	130 W	71	38
7 15	20 9.87	+27 35.7	0.523	1.413	33.3	18.7	130 W	73	36
7 20	20 3.16	+28 48.6	0.508	1.401	33.5	18.7	131 W	74	35
7 25	19 55.86	+29 40.7	0.495	1.389	33.9	18.6	130 E	75	34
7 30	19 48.33	+30 10.4	0.484	1.376	34.5	18.5	130 E	75	34
8 4	19 40.92	+30 16.9	0.474	1.364	35.3	18.5	129 E	75	34
8 9	19 33.98	+30 0.1	0.466	1.351	36.3	18.5	128 E	75	34
8 14	19 27.87	+29 20.8	0.460	1.339	37.4	18.5	127 E	74	35
8 19	19 22.88	+28 20.2	0.455	1.326	38.7	18.4	125 E	73	36
8 24	19 19.28	+27 0.6	0.451	1.314	40.0	18.4	123 E	72	37
8 29	19 17.24	+25 24.7	0.448	1.301	41.4	18.4	122 E	70	39
9 3	19 16.83	+23 35.1	0.446	1.289	42.9	18.5	120 E	69	40
9 8	19 18.07	+21 34.3	0.445	1.277	44.3	18.5	118 E	67	42
9 13	19 20.96	+19 24.6	0.445	1.265	45.7	18.5	116 E	64	45
9 18	19 25.47	+17 8.1	0.445	1.253	47.2	18.5	114 E	62	47
9 23	19 31.57	+14 47.2	0.446	1.241	48.6	18.5	112 E	60	49
9 28	19 39.18	+12 24.0	0.448	1.230	49.9	18.6	110 E	57	52
10 3	19 48.22	+10 0.4	0.451	1.220	51.2	18.6	108 E	55	54
10 8	19 58.59	+ 7 37.9	0.454	1.209	52.4	18.6	107 E	53	56
10 13	20 10.22	+ 5 18.2	0.458	1.199	53.5	18.7	105 E	50	59
10 18	20 23.05	+ 3 2.9	0.463	1.190	54.6	18.7	103 E	48	61
10 23	20 36.98	+ 0 53.7	0.469	1.182	55.6	18.7	102 E	46	63*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4947 Ninkasi *(continuation)*									
10 28	20 51.92	− 1 7.9	0.476	1.174	56.5	18.8	100 E	44	65*
11 2	21 7.75	− 3 0.6	0.484	1.167	57.3	18.8	98 E	42	67*
11 7	21 24.35	− 4 43.2	0.493	1.160	58.0	18.9	97 E	40	68*
11 12	21 41.62	− 6 14.9	0.503	1.154	58.6	18.9	96 E	39	69*
11 17	21 59.45	− 7 34.7	0.515	1.150	59.0	19.0	94 E	37	69*
11 27	22 36.34	− 9 36.7	0.540	1.143	59.6	19.1	92 E	35	70*
12 7	23 14.02	−10 48.5	0.570	1.140	59.8	19.2	90 E	34	70*
12 17	23 51.76	−11 12.6	0.604	1.140	59.6	19.3	88 E	34	68*
12 22	0 10.49	−11 8.1	0.622	1.142	59.4	19.4	88 E	34	68*
12 27	0 29.04	−10 53.9	0.641	1.145	59.1	19.4	87 E	34	67*
1 1	0 47.38	−10 30.9	0.660	1.148	58.7	19.5	86 E	34	66*
1 6	1 5.48	− 9 59.9	0.680	1.153	58.3	19.6	86 E	35	65*
1 11	1 23.36	− 9 21.9	0.701	1.158	57.8	19.6	85 E	36	65*
1 16	1 41.01	− 8 37.6	0.723	1.164	57.2	19.7	85 E	36	64*
510421 2011 UX_{280}									
3 2	18 3.63	−19 2.5	2.070	1.979	28.2	21.4	71 W	24*	63*
3 12	18 26.71	−18 13.8	1.926	1.930	29.9	21.2	75 W	24*	68*
3 22	18 49.84	−17 7.3	1.785	1.882	31.4	21.1	80 W	25*	72*
4 1	19 12.87	−15 42.6	1.650	1.835	32.8	20.9	84 W	26*	75*
4 11	19 35.69	−13 59.6	1.520	1.790	34.0	20.7	88 W	28*	76*
4 21	19 58.21	−11 58.8	1.398	1.748	35.1	20.5	92 W	30*	76*
5 1	20 20.25	− 9 41.4	1.283	1.708	36.0	20.3	96 W	32*	74
5 11	20 41.70	− 7 9.1	1.176	1.671	36.6	20.1	99 W	35*	71
5 21	21 2.41	− 4 24.5	1.078	1.637	37.0	19.8	103 W	38*	68
5 31	21 22.15	− 1 31.7	0.988	1.608	37.1	19.6	107 W	41*	66
6 10	21 40.74	+ 1 24.4	0.908	1.583	36.9	19.4	111 W	45*	63
6 15	21 49.51	+ 2 51.9	0.870	1.572	36.6	19.3	113 W	47*	61
6 20	21 57.87	+ 4 17.7	0.835	1.562	36.2	19.2	115 W	49*	60
6 25	22 5.77	+ 5 40.9	0.802	1.554	35.7	19.0	117 W	51*	58
6 30	22 13.17	+ 7 0.3	0.772	1.547	35.1	18.9	119 W	52*	57
7 5	22 20.03	+ 8 14.8	0.743	1.541	34.2	18.8	121 W	53	56
7 10	22 26.29	+ 9 23.4	0.716	1.536	33.3	18.7	124 W	54	55
7 15	22 31.90	+10 24.6	0.691	1.534	32.1	18.6	127 W	55	54
7 20	22 36.79	+11 17.2	0.669	1.532	30.7	18.5	130 W	56	53
7 25	22 40.92	+11 59.9	0.649	1.532	29.2	18.4	133 W	57	52
7 30	22 44.30	+12 31.3	0.631	1.533	27.4	18.3	136 W	58	51
8 4	22 46.91	+12 50.6	0.616	1.536	25.4	18.1	139 W	58	51
8 9	22 48.77	+12 56.9	0.603	1.540	23.2	18.0	143 W	58	51
8 19	22 50.46	+12 28.5	0.587	1.552	18.4	17.8	151 W	57	52
8 29	22 50.20	+11 7.4	0.584	1.569	13.4	17.7	159 W	56	53
9 8	22 49.29	+ 9 5.4	0.598	1.592	9.7	17.6	165 E	54	55
9 13	22 49.00	+ 7 54.9	0.611	1.605	9.2	17.7	165 E	53	56
9 18	22 49.02	+ 6 41.7	0.629	1.619	9.8	17.8	164 E	52	57
9 23	22 49.51	+ 5 28.7	0.651	1.634	11.3	17.9	161 E	50	59
9 28	22 50.56	+ 4 18.4	0.678	1.650	13.2	18.1	158 E	49	60
10 3	22 52.21	+ 3 13.0	0.709	1.667	15.3	18.3	154 E	48	61
10 8	22 54.49	+ 2 13.9	0.745	1.685	17.4	18.5	150 E	47	62
10 13	22 57.39	+ 1 22.2	0.784	1.703	19.3	18.7	146 E	46	63
10 18	23 0.90	+ 0 38.5	0.828	1.723	21.1	18.9	141 E	46	63
10 28	23 9.65	− 0 24.0	0.927	1.764	24.2	19.3	133 E	45	64
11 7	23 20.35	− 0 54.9	1.040	1.807	26.4	19.7	126 E	44	65
11 17	23 32.60	− 0 58.1	1.165	1.853	28.0	20.0	119 E	44	65
11 27	23 46.09	− 0 37.8	1.300	1.900	28.9	20.3	112 E	44	65
12 7	0 0.50	+ 0 1.3	1.445	1.949	29.2	20.6	105 E	45	64*
12 17	0 15.60	+ 0 54.9	1.597	1.998	29.1	20.9	99 E	46	61*
12 27	0 31.24	+ 1 59.7	1.754	2.049	28.7	21.1	93 E	47	57*
1 6	0 47.26	+ 3 12.3	1.916	2.100	27.9	21.4	87 E	48	53*
250315 2003 QZ_{107}									
3 2	18 4.81	−16 49.4	2.178	2.071	26.8	21.4	71 W	26*	62*
3 12	18 24.79	−16 37.1	2.035	2.032	28.3	21.2	76 W	26*	67*
3 22	18 44.49	−16 15.9	1.892	1.994	29.6	21.1	81 W	26*	72*
4 1	19 3.79	−15 47.0	1.751	1.955	30.7	20.9	86 W	27*	76*
4 11	19 22.56	−15 12.0	1.613	1.917	31.5	20.7	91 W	28*	79*
4 21	19 40.69	−14 32.6	1.478	1.880	32.1	20.5	97 W	28*	79
5 1	19 57.99	−13 51.6	1.348	1.843	32.3	20.2	102 W	29*	78
5 11	20 14.29	−13 12.0	1.224	1.807	32.2	20.0	108 W	30*	77
5 21	20 29.39	−12 38.0	1.107	1.772	31.6	19.7	113 W	32*	77
5 31	20 42.99	−12 14.3	0.997	1.739	30.4	19.4	120 W	32*	76
6 10	20 54.81	−12 6.8	0.896	1.707	28.6	19.1	126 W	33*	76
6 15	20 59.93	−12 11.1	0.849	1.692	27.4	18.9	130 W	33	76
6 20	21 4.45	−12 21.9	0.805	1.677	25.9	18.7	134 W	33	76
6 25	21 8.33	−12 40.1	0.764	1.663	24.2	18.5	138 W	32	77
6 30	21 11.51	−13 6.5	0.725	1.650	22.3	18.4	142 W	32	77

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
250315 2003 QZ_{107} *(continuation)*									
7 10	21 15.72	−14 25.4	0.659	1.625	17.7	18.0	151 W	31	78
7 20	21 16.93	−16 19.7	0.608	1.603	12.0	17.6	161 W	29	80
7 30	21 15.51	−18 42.8	0.573	1.584	5.7	17.1	171 W	26	83
8 4	21 14.11	−20 0.6	0.562	1.576	3.2	17.0	175 W	25	84
8 9	21 12.49	−21 19.1	0.556	1.568	3.6	16.9	174 E	24	85
8 14	21 10.83	−22 35.7	0.554	1.562	6.5	17.1	170 E	22	87
8 19	21 9.37	−23 47.5	0.557	1.556	9.8	17.2	165 E	21	88
8 24	21 8.36	−24 52.3	0.564	1.552	13.2	17.4	160 E	20	89
8 29	21 8.01	−25 48.0	0.575	1.548	16.3	17.5	154 E	19	90
9 3	21 8.46	−26 33.6	0.589	1.546	19.3	17.7	150 E	18	89
9 8	21 9.82	−27 8.2	0.607	1.544	22.0	17.8	145 E	18	89
9 18	21 15.46	−27 44.5	0.652	1.544	26.7	18.1	136 E	17	88
9 28	21 24.98	−27 38.6	0.708	1.547	30.3	18.4	129 E	17	88
10 8	21 37.85	−26 55.4	0.773	1.555	32.9	18.7	122 E	18	89
10 13	21 45.31	−26 21.5	0.808	1.560	34.0	18.8	119 E	19	90
10 18	21 53.34	−25 40.2	0.846	1.566	34.8	18.9	116 E	19	90
10 23	22 1.86	−24 52.3	0.885	1.573	35.4	19.1	113 E	20	89
10 28	22 10.78	−23 58.4	0.927	1.581	36.0	19.2	111 E	21	88
11 2	22 20.02	−22 59.2	0.969	1.590	36.3	19.3	108 E	22	87
11 7	22 29.52	−21 55.2	1.014	1.600	36.6	19.4	106 E	23	86
11 12	22 39.22	−20 47.1	1.060	1.610	36.7	19.6	103 E	24	85
11 17	22 49.08	−19 35.3	1.108	1.621	36.7	19.7	101 E	25	84
11 22	22 59.07	−18 20.4	1.158	1.633	36.7	19.8	99 E	27	82*
11 27	23 9.15	−17 2.9	1.209	1.646	36.5	19.9	97 E	28	80*
12 2	23 19.29	−15 43.3	1.261	1.659	36.3	20.0	94 E	29	78*
12 7	23 29.46	−14 22.0	1.315	1.673	36.0	20.1	92 E	31	75*
12 12	23 39.66	−12 59.4	1.370	1.687	35.7	20.2	90 E	32	72*
12 17	23 49.88	−11 35.9	1.427	1.702	35.3	20.3	88 E	33	68*
12 22	0 0.11	−10 11.9	1.484	1.718	34.8	20.4	86 E	35	65*
12 27	0 10.34	− 8 47.6	1.543	1.734	34.3	20.5	84 E	36	62*
1 1	0 20.56	− 7 23.5	1.603	1.750	33.7	20.5	81 E	38	59*
1 6	0 30.78	− 5 59.8	1.664	1.767	33.1	20.6	79 E	39	56*
1 11	0 41.00	− 4 36.7	1.725	1.784	32.5	20.7	77 E	40	54*
1 16	0 51.21	− 3 14.4	1.788	1.802	31.8	20.8	75 E	42*	51*
16588 Johngee									
3 2	18 13.94	−28 52.8	3.508	3.280	16.3	21.5	69 W	14*	63*
3 12	18 24.36	−29 9.6	3.346	3.257	17.2	21.4	76 W	14*	70*
3 22	18 33.60	−29 27.3	3.178	3.233	17.9	21.3	84 W	14*	78*
4 1	18 41.42	−29 47.1	3.008	3.209	18.1	21.2	92 W	14*	85*
4 11	18 47.57	−30 10.1	2.838	3.183	18.0	21.0	101 W	14*	86
4 21	18 51.77	−30 37.3	2.673	3.157	17.4	20.8	110 W	14*	85
5 1	18 53.71	−31 9.1	2.516	3.129	16.4	20.7	119 W	14*	85
5 11	18 53.14	−31 45.4	2.369	3.101	14.8	20.5	129 W	13	84
5 21	18 49.85	−32 25.0	2.239	3.072	12.6	20.2	139 W	13	84
5 31	18 43.76	−33 5.2	2.128	3.042	9.9	20.0	149 W	12	83
6 10	18 35.11	−33 42.5	2.040	3.011	6.9	19.8	159 W	11	82
6 15	18 29.98	−33 58.5	2.006	2.995	5.4	19.6	164 W	11	82
6 20	18 24.44	−34 12.2	1.978	2.979	4.2	19.5	167 W	11	82
6 25	18 18.63	−34 23.0	1.958	2.962	3.8	19.5	169 W	11	82
6 30	18 12.68	−34 30.6	1.945	2.946	4.3	19.5	168 E	10	81
7 5	18 6.76	−34 34.9	1.939	2.929	5.5	19.5	164 E	10	81
7 10	18 1.01	−34 35.8	1.939	2.912	7.1	19.6	159 E	10	81
7 15	17 55.58	−34 33.5	1.947	2.895	8.8	19.7	154 E	10	81
7 20	17 50.61	−34 28.3	1.960	2.878	10.6	19.7	149 E	11	82
7 25	17 46.20	−34 20.6	1.980	2.860	12.2	19.8	143 E	11	82
7 30	17 42.46	−34 10.9	2.004	2.842	13.8	19.9	138 E	11	82
8 9	17 37.20	−33 47.6	2.067	2.806	16.6	20.0	128 E	11	82
8 19	17 35.07	−33 21.7	2.145	2.769	18.8	20.1	118 E	12	83
8 29	17 36.09	−32 55.8	2.232	2.731	20.5	20.2	109 E	12*	83
9 8	17 40.05	−32 31.1	2.326	2.692	21.6	20.3	100 E	12*	83
9 18	17 46.70	−32 7.7	2.422	2.652	22.3	20.4	92 E	12*	83*
9 28	17 55.76	−31 44.9	2.517	2.612	22.4	20.5	84 E	12*	77*
10 8	18 6.93	−31 21.7	2.609	2.571	22.2	20.5	77 E	12*	70*
10 18	18 19.96	−30 56.5	2.696	2.530	21.7	20.5	70 E	13*	64*
10 28	18 34.61	−30 27.9	2.775	2.487	20.9	20.5	63 E	13*	57*
11 7	18 50.66	−29 54.4	2.846	2.444	19.8	20.5	57 E	13*	50*
11 17	19 7.91	−29 14.5	2.908	2.401	18.5	20.5	50 E	12*	44*
11 27	19 26.18	−28 26.9	2.959	2.357	17.0	20.4	44 E	12*	37*
12 7	19 45.30	−27 30.6	2.999	2.313	15.4	20.4	39 E	12*	31*
12 17	20 5.13	−26 24.6	3.028	2.268	13.7	20.3	33 E	11*	25*
12 27	20 25.54	−25 8.4	3.046	2.224	11.9	20.2	28 E	9*	20*
1 6	20 46.39	−23 41.4	3.052	2.179	10.0	20.1	23 E	7*	15*
1 16	21 7.62	−22 3.4	3.049	2.134	8.1	19.9	18 E	5*	10*
16474 1990 QG_3									
3 2	18 15.09	−24 19.0	2.427	2.254	24.1	21.4	68 W	18*	62*
3 12	18 33.56	−24 14.7	2.278	2.220	25.5	21.3	74 W	18*	68*
3 22	18 51.50	−24 3.9	2.128	2.184	26.7	21.1	80 W	18*	74*
4 1	19 8.75	−23 47.5	1.977	2.149	27.6	21.0	86 W	19*	80*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
16474 1990 QG_3 *(continuation)*									
4 11	19 25.13	−23 26.9	1.828	2.113	28.3	20.8	92 W	19*	85*
4 21	19 40.45	−23 3.8	1.681	2.076	28.6	20.6	98 W	20*	87
5 1	19 54.45	−22 40.3	1.538	2.040	28.6	20.3	105 W	21*	87
5 11	20 6.86	−22 18.5	1.401	2.003	28.0	20.1	111 W	22*	86
5 21	20 17.32	−22 1.3	1.271	1.967	26.9	19.8	119 W	23*	86
5 31	20 25.42	−21 51.4	1.149	1.931	25.0	19.5	126 W	23*	86
6 10	20 30.71	−21 51.3	1.039	1.895	22.4	19.1	135 W	23	86
6 20	20 32.75	−22 3.2	0.941	1.860	18.9	18.8	144 W	23	86
6 30	20 31.17	−22 27.3	0.858	1.826	14.3	18.4	154 W	23	86
7 10	20 26.04	−23 1.3	0.793	1.793	8.9	18.0	164 W	22	87
7 15	20 22.29	−23 20.3	0.767	1.776	5.9	17.7	170 W	22	87
7 20	20 17.93	−23 39.5	0.746	1.761	3.2	17.5	175 W	21	88
7 25	20 13.17	−23 57.7	0.731	1.745	2.6	17.4	176 E	21	88
7 30	20 8.27	−24 14.0	0.720	1.730	5.2	17.5	171 E	21	88
8 4	20 3.48	−24 27.3	0.714	1.715	8.5	17.6	166 E	21	88
8 9	19 59.08	−24 37.2	0.713	1.701	11.8	17.7	160 E	20	89
8 14	19 55.30	−24 43.1	0.716	1.688	15.0	17.8	154 E	20	89
8 19	19 52.37	−24 44.8	0.724	1.674	18.1	18.0	149 E	20	89
8 24	19 50.48	−24 42.3	0.735	1.662	21.1	18.1	144 E	20	89
8 29	19 49.74	−24 35.7	0.750	1.650	23.7	18.2	139 E	20	89
9 8	19 51.86	−24 11.2	0.787	1.628	28.4	18.4	130 E	21	88
9 18	19 58.69	−23 32.3	0.834	1.609	32.1	18.6	122 E	21	88
9 28	20 9.83	−22 39.2	0.888	1.592	34.9	18.8	115 E	22	87
10 8	20 24.55	−21 31.7	0.948	1.579	36.9	19.0	108 E	23	86
10 18	20 42.16	−20 9.3	1.012	1.570	38.2	19.1	103 E	25	84
10 28	21 2.00	−18 31.6	1.080	1.564	39.0	19.3	98 E	26	83*
11 7	21 23.47	−16 38.9	1.151	1.561	39.3	19.4	93 E	28	79*
11 17	21 46.09	−14 32.1	1.226	1.562	39.3	19.6	89 E	30	73*
11 27	22 9.49	−12 12.5	1.305	1.567	38.8	19.7	85 E	33	68*
12 7	22 33.35	− 9 42.4	1.387	1.576	38.2	19.8	81 E	35	62*
12 17	22 57.48	− 7 4.0	1.473	1.588	37.3	20.0	78 E	38	56*
12 27	23 21.76	− 4 19.8	1.563	1.603	36.2	20.1	74 E	41	50*
1 6	23 46.06	− 1 32.7	1.656	1.621	34.9	20.2	71 E	43*	45*
1 16	0 10.38	+ 1 14.7	1.752	1.642	33.5	20.3	67 E	45*	40*
240570 2004 TZ_9									
3 2	18 22.97	−24 46.9	1.967	1.814	30.0	21.5	66 W	17*	60*
3 12	18 49.00	−24 56.0	1.854	1.788	31.6	21.3	71 W	16*	64*
3 22	19 15.05	−24 52.7	1.743	1.763	33.0	21.2	75 W	16*	69*
4 1	19 40.91	−24 37.9	1.634	1.740	34.3	21.1	79 W	16*	73*
4 11	20 6.43	−24 13.0	1.529	1.718	35.3	20.9	83 W	16*	77*
4 21	20 31.45	−23 40.0	1.427	1.698	36.2	20.8	87 W	16*	81*
5 1	20 55.73	−23 1.2	1.330	1.681	36.8	20.6	91 W	17*	85*
5 11	21 19.09	−22 19.5	1.236	1.666	37.2	20.5	95 W	17*	86
5 21	21 41.27	−21 38.1	1.148	1.653	37.1	20.3	100 W	18*	86
5 31	22 1.98	−21 0.8	1.065	1.642	36.7	20.1	104 W	20*	85
6 10	22 20.87	−20 31.2	0.987	1.635	35.8	19.9	109 W	21*	85
6 20	22 37.54	−20 13.2	0.915	1.630	34.4	19.7	115 W	23*	84
6 30	22 51.44	−20 10.5	0.849	1.628	32.3	19.5	121 W	24*	84
7 10	23 2.03	−20 25.1	0.792	1.628	29.5	19.2	128 W	25*	84
7 20	23 8.73	−20 57.5	0.743	1.632	25.8	19.0	136 W	24	85
7 25	23 10.44	−21 19.5	0.722	1.635	23.7	18.9	140 W	24	85
7 30	23 11.04	−21 44.3	0.705	1.639	21.4	18.8	144 W	23	86
8 4	23 10.52	−22 10.7	0.691	1.643	19.0	18.6	148 W	23	86
8 9	23 8.94	−22 37.3	0.680	1.648	16.5	18.5	153 W	22	87
8 14	23 6.37	−23 2.4	0.673	1.653	14.0	18.4	157 W	22	87
8 19	23 2.96	−23 24.3	0.671	1.659	11.8	18.3	160 W	22	87
8 24	22 58.93	−23 41.2	0.672	1.666	10.1	18.3	163 W	21	88
8 29	22 54.52	−23 51.3	0.679	1.674	9.3	18.3	164 W	21	88
9 3	22 50.02	−23 53.7	0.690	1.682	9.7	18.4	164 W	21	88
9 8	22 45.68	−23 47.8	0.705	1.690	11.1	18.5	161 E	21	88
9 13	22 41.72	−23 33.4	0.725	1.699	13.0	18.6	158 E	21	88
9 18	22 38.37	−23 10.8	0.749	1.709	15.1	18.8	154 E	22	87
9 23	22 35.79	−22 40.5	0.778	1.719	17.3	18.9	149 E	22	87
9 28	22 34.08	−22 3.4	0.811	1.730	19.4	19.1	145 E	23	86
10 3	22 33.29	−21 20.4	0.847	1.741	21.4	19.3	141 E	24	85
10 8	22 33.41	−20 32.4	0.888	1.752	23.2	19.5	136 E	24	85
10 13	22 34.42	−19 40.3	0.931	1.764	24.7	19.6	132 E	25	84
10 18	22 36.27	−18 44.8	0.978	1.776	26.1	19.8	128 E	26	83
10 23	22 38.93	−17 46.3	1.027	1.789	27.3	19.9	124 E	27	82
10 28	22 42.31	−16 45.6	1.079	1.802	28.3	20.1	121 E	28	81
11 7	22 50.95	−14 38.7	1.191	1.829	29.8	20.4	114 E	30	79
11 17	23 1.67	−12 26.7	1.310	1.856	30.6	20.6	107 E	33	76
11 27	23 14.04	−10 11.1	1.436	1.885	31.0	20.9	101 E	35	74*
12 7	23 27.68	− 7 53.4	1.567	1.914	30.9	21.1	94 E	37	69*
12 17	23 42.29	− 5 34.4	1.702	1.944	30.4	21.3	89 E	39	63*
12 27	23 57.70	− 3 15.0	1.840	1.974	29.6	21.5	83 E	42	56*

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20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 2	18 53.26	− 8 18.0	3.539	3.147	15.7	21.5	59 W	30*	48*
3 12	19 3.54	− 7 58.6	3.409	3.142	16.8	21.4	66 W	31*	55*
3 22	19 12.77	− 7 36.7	3.271	3.137	17.7	21.4	73 W	32*	61*
4 1	19 20.78	− 7 13.6	3.126	3.130	18.4	21.3	81 W	34*	67*
4 11	19 27.38	− 6 51.2	2.977	3.122	18.7	21.2	89 W	35*	70*
4 21	19 32.38	− 6 31.1	2.827	3.114	18.7	21.1	97 W	37*	71
5 1	19 35.56	− 6 15.7	2.678	3.105	18.2	20.9	106 W	38*	70
5 11	19 36.72	− 6 7.3	2.535	3.094	17.3	20.8	115 W	39*	70
5 21	19 35.69	− 6 8.5	2.401	3.083	15.8	20.6	124 W	39	70
5 31	19 32.34	− 6 21.8	2.280	3.071	13.8	20.4	134 W	39	70
6 10	19 26.72	− 6 49.3	2.177	3.058	11.2	20.2	144 W	38	71
6 20	19 19.06	− 7 32.3	2.096	3.044	8.3	20.0	154 W	37	72
6 30	19 9.81	− 8 30.7	2.041	3.029	5.5	19.8	163 W	36	73
7 10	18 59.73	− 9 42.4	2.015	3.013	4.4	19.7	167 E	35	74
7 20	18 49.67	−11 4.0	2.018	2.997	6.3	19.8	161 E	34	75
7 25	18 44.94	−11 47.1	2.030	2.988	7.9	19.9	156 E	33	76
7 30	18 40.56	−12 31.1	2.049	2.979	9.4	20.0	151 E	32	77
8 4	18 36.61	−13 15.5	2.075	2.970	11.0	20.0	146 E	32	77
8 9	18 33.17	−13 59.6	2.106	2.961	12.5	20.1	141 E	31	78
8 19	18 28.02	−15 25.8	2.185	2.941	15.2	20.3	130 E	30	79
8 29	18 25.42	−16 47.3	2.281	2.921	17.4	20.4	120 E	28	81
9 8	18 25.44	−18 2.5	2.390	2.900	19.0	20.6	110 E	27	82
9 18	18 27.97	−19 10.5	2.506	2.878	20.0	20.7	101 E	26	83
9 28	18 32.87	−20 10.9	2.627	2.855	20.5	20.8	93 E	25*	83*
10 8	18 39.89	−21 3.2	2.748	2.831	20.6	20.9	84 E	24*	77*
10 18	18 48.81	−21 47.4	2.866	2.806	20.2	20.9	77 E	23*	69*
10 28	18 59.42	−22 23.3	2.978	2.781	19.5	21.0	69 E	22*	61*
11 7	19 11.48	−22 50.6	3.083	2.755	18.5	21.0	62 E	21*	54*
11 17	19 24.82	−23 9.4	3.178	2.727	17.2	21.0	55 E	19*	46*
11 27	19 39.26	−23 19.4	3.262	2.699	15.7	21.0	48 E	18*	39*
12 7	19 54.63	−23 20.7	3.333	2.671	14.1	20.9	41 E	16*	32*
12 17	20 10.80	−23 13.5	3.390	2.641	12.3	20.9	35 E	14*	26*
12 27	20 27.63	−22 57.8	3.433	2.611	10.3	20.8	28 E	11*	19*
1 6	20 45.01	−22 33.9	3.461	2.580	8.4	20.7	22 E	8*	14*
1 16	21 2.86	−22 2.3	3.475	2.548	6.4	20.6	17 E	4*	9*

283729 2002 UX

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 2	19 18.89	−25 2.1	1.797	1.453	33.4	21.5	54 W	12*	48*
3 12	19 49.36	−22 21.5	1.713	1.429	35.4	21.4	56 W	13*	50*
3 22	20 19.17	−19 9.3	1.631	1.406	37.4	21.3	59 W	15*	53*
4 1	20 48.29	−15 26.5	1.551	1.383	39.3	21.2	61 W	17*	55*
4 11	21 16.81	−11 14.8	1.475	1.360	41.1	21.1	63 W	20*	56*
4 21	21 44.88	− 6 36.4	1.404	1.338	42.9	21.0	65 W	23*	57*
5 1	22 12.69	− 1 34.8	1.340	1.318	44.6	20.9	67 W	26*	56*
5 11	22 40.49	+ 3 45.5	1.282	1.299	46.1	20.9	68 W	30*	54*
5 21	23 8.58	+ 9 18.4	1.231	1.282	47.4	20.8	69 W	34*	51*
5 31	23 37.26	+14 56.4	1.189	1.267	48.6	20.7	70 W	38*	47*
6 10	0 6.89	+20 30.8	1.153	1.254	49.7	20.7	70 W	43*	43*
6 20	0 37.84	+25 52.5	1.123	1.244	50.5	20.6	71 W	48*	38*
6 30	1 10.39	+30 51.8	1.099	1.237	51.2	20.6	71 W	53*	33*
7 10	1 44.77	+35 19.7	1.078	1.234	51.6	20.5	72 W	57*	29*
7 20	2 21.05	+39 8.4	1.060	1.233	52.0	20.5	73 W	61*	25*
7 25	2 39.81	+40 46.0	1.050	1.234	52.1	20.5	73 W	63*	23*
7 30	2 58.93	+42 11.5	1.041	1.235	52.1	20.5	74 W	65*	22*
8 4	3 18.31	+43 24.5	1.031	1.238	52.2	20.5	74 W	66*	21*
8 9	3 37.85	+44 24.8	1.021	1.241	52.2	20.4	75 W	68*	19*
8 14	3 57.42	+45 12.3	1.010	1.245	52.1	20.4	76 W	69*	19*
8 19	4 16.88	+45 47.0	0.998	1.249	52.1	20.4	77 W	70*	18*
8 24	4 36.06	+46 9.3	0.985	1.255	52.0	20.4	78 W	72*	18*
8 29	4 54.81	+46 19.4	0.970	1.261	51.9	20.4	79 W	73*	17*
9 3	5 12.99	+46 18.0	0.955	1.267	51.7	20.3	80 W	74*	17*
9 8	5 30.48	+46 5.8	0.938	1.275	51.5	20.3	82 W	76*	17*
9 13	5 47.15	+45 43.5	0.920	1.282	51.2	20.3	83 W	77*	18*
9 18	6 2.87	+45 11.8	0.901	1.291	50.9	20.2	85 W	79*	18*
9 23	6 17.54	+44 31.6	0.880	1.300	50.4	20.2	87 W	81*	19*
9 28	6 31.10	+43 43.4	0.858	1.309	49.9	20.1	89 W	83*	20*
10 3	6 43.48	+42 47.9	0.834	1.319	49.3	20.0	91 W	85*	21*
10 8	6 54.62	+41 45.7	0.810	1.329	48.6	20.0	94 W	86*	22*
10 13	7 4.45	+40 37.4	0.784	1.339	47.7	19.9	97 W	86	23*
10 18	7 12.89	+39 23.0	0.758	1.350	46.7	19.8	100 W	84	24*
10 23	7 19.87	+38 2.9	0.731	1.361	45.4	19.7	103 W	83	26*
10 28	7 25.31	+36 36.8	0.704	1.372	43.9	19.6	107 W	82	27*
11 2	7 29.14	+35 4.7	0.676	1.383	42.2	19.5	111 W	80	29
11 7	7 31.28	+33 26.2	0.649	1.395	40.1	19.4	115 W	78	31
11 12	7 31.62	+31 40.7	0.623	1.407	37.7	19.2	120 W	77	32
11 17	7 30.07	+29 47.7	0.598	1.418	34.9	19.1	125 W	75	34
11 27	7 21.27	+25 37.1	0.556	1.442	28.1	18.8	137 W	71	38
12 7	7 5.48	+20 55.2	0.527	1.465	19.8	18.4	150 W	66	43
12 17	6 44.74	+15 57.1	0.519	1.488	11.2	18.1	163 W	61	48

283729 2002 UX *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 22	6 33.66	+13 31.6	0.524	1.500	8.2	18.0	167 W	59	50
12 27	6 22.83	+11 14.9	0.535	1.511	7.8	18.1	168 E	56	53
1 1	6 12.72	+ 9 11.0	0.552	1.522	10.2	18.3	164 E	54	55
1 6	6 3.71	+ 7 22.8	0.575	1.533	13.7	18.5	158 E	52	57
1 11	5 56.05	+ 5 51.7	0.603	1.543	17.2	18.8	152 E	51	58
1 16	5 49.92	+ 4 37.8	0.636	1.554	20.5	19.0	146 E	50	59

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20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 2	19 20.00	−17 51.0	1.986	1.593	29.6	21.5	53 W	18*	46*
3 12	19 51.20	−16 6.1	1.902	1.561	31.4	21.4	55 W	19*	48*
3 22	20 22.19	−13 58.8	1.824	1.534	33.1	21.3	57 W	19*	50*
4 1	20 52.74	−11 31.7	1.754	1.511	34.6	21.2	59 W	20*	52*
4 11	21 22.66	− 8 48.9	1.691	1.494	36.0	21.2	61 W	21*	54*
4 21	21 51.83	− 5 54.7	1.635	1.484	37.2	21.1	63 W	22*	55*
5 1	22 20.12	− 2 54.1	1.585	1.479	38.2	21.1	65 W	24*	56*
5 11	22 47.45	+ 0 7.9	1.539	1.481	39.0	21.0	67 W	26*	56*
5 21	23 13.74	+ 3 6.5	1.497	1.488	39.6	21.0	70 W	28*	56*
5 31	23 38.88	+ 5 57.4	1.458	1.502	40.0	21.0	72 W	31*	56*
6 10	0 2.77	+ 8 36.9	1.419	1.522	40.2	21.0	75 W	35*	55*
6 20	0 25.25	+11 2.1	1.381	1.547	40.1	20.9	79 W	39*	53*
6 30	0 46.11	+13 10.4	1.342	1.577	39.7	20.9	83 W	44*	51
7 10	1 5.10	+14 59.7	1.302	1.612	39.0	20.9	87 W	50*	49
7 20	1 21.89	+16 28.9	1.259	1.651	38.0	20.8	92 W	55*	48
7 30	1 36.09	+17 36.1	1.216	1.692	36.4	20.7	98 W	60*	46
8 9	1 47.28	+18 20.2	1.172	1.737	34.3	20.7	105 W	63*	46
8 19	1 55.02	+18 39.7	1.129	1.784	31.5	20.6	113 W	64	45
8 29	1 58.90	+18 32.7	1.091	1.834	28.0	20.4	122 W	64	45
9 8	1 58.78	+17 58.0	1.060	1.884	23.6	20.3	131 W	63	46
9 18	1 54.80	+16 55.6	1.041	1.936	18.5	20.2	142 W	62	47
9 23	1 51.55	+16 14.7	1.037	1.963	15.6	20.1	148 W	61	48
9 28	1 47.64	+15 28.3	1.039	1.989	12.6	20.0	154 W	60	49
10 3	1 43.25	+14 37.5	1.045	2.016	9.6	19.9	160 W	60	49
10 8	1 38.56	+13 43.6	1.058	2.043	6.5	19.9	167 W	59	50
10 13	1 33.77	+12 48.2	1.076	2.070	3.4	19.8	173 W	58	51
10 18	1 29.07	+11 52.8	1.101	2.097	1.1	19.7	178 E	57	52
10 23	1 24.65	+10 59.0	1.133	2.124	3.0	19.9	174 E	56	53
10 28	1 20.67	+10 8.5	1.170	2.151	5.7	20.2	168 E	55	54
11 2	1 17.25	+ 9 22.3	1.215	2.179	8.3	20.4	162 E	54	55
11 7	1 14.47	+ 8 41.3	1.265	2.206	10.7	20.6	156 E	54	55
11 12	1 12.37	+ 8 6.0	1.320	2.233	12.8	20.8	150 E	53	56
11 17	1 11.00	+ 7 36.9	1.381	2.260	14.7	21.0	144 E	53	56
11 22	1 10.34	+ 7 13.9	1.447	2.287	16.4	21.2	139 E	52	57
11 27	1 10.40	+ 6 57.0	1.517	2.314	17.9	21.4	134 E	52	57

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20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 2	19 23.68	+ 2 43.4	1.902	1.526	31.2	21.4	53 W	36*	35*
3 12	19 51.57	+ 6 59.0	1.809	1.487	33.3	21.3	55 W	38*	36*
3 22	20 20.62	+11 39.4	1.726	1.447	35.2	21.2	57 W	41*	36*
4 1	20 51.10	+16 38.4	1.655	1.406	37.0	21.1	58 W	43*	34*
4 11	21 23.35	+21 46.0	1.598	1.365	38.5	21.0	58 W	44*	32*
4 21	21 57.76	+26 50.1	1.554	1.324	39.9	20.9	58 W	45*	29*
5 1	22 34.66	+31 36.4	1.524	1.283	41.0	20.9	57 W	46*	26*
5 11	23 14.31	+35 49.9	1.504	1.243	41.8	20.8	55 W	45*	23*
5 21	23 56.73	+39 17.3	1.491	1.205	42.5	20.7	53 W	44*	20*
5 31	0 41.54	+41 47.2	1.483	1.170	42.9	20.7	52 W	43*	17*
6 10	1 27.92	+43 11.4	1.476	1.138	43.3	20.6	50 W	42*	16*
6 20	2 14.69	+43 26.3	1.468	1.111	43.8	20.5	49 W	41*	15*
6 30	3 0.54	+42 31.7	1.455	1.089	44.3	20.5	48 W	40*	16*
7 5	3 22.76	+41 39.0	1.446	1.080	44.6	20.5	48 W	39*	16*
7 10	3 44.39	+40 30.1	1.437	1.073	45.0	20.5	48 W	39*	17*
7 15	4 5.36	+39 5.6	1.425	1.068	45.4	20.4	48 W	39*	18*
7 20	4 25.63	+37 26.1	1.413	1.064	45.8	20.4	49 W	39*	19*
7 30	5 4.03	+33 24.6	1.384	1.063	46.8	20.4	50 W	39*	22*
8 9	5 39.68	+28 30.5	1.353	1.068	47.7	20.4	51 W	39*	26*
8 19	6 12.90	+22 49.4	1.321	1.081	48.6	20.4	53 W	39*	30*
8 24	6 28.68	+19 43.1	1.306	1.090	48.9	20.4	54 W	39*	33*
8 29	6 43.96	+16 27.5	1.292	1.100	49.1	20.4	55 W	38*	35*
9 3	6 58.79	+13 3.8	1.279	1.112	49.3	20.4	57 W	38*	38*
9 8	7 13.20	+ 9 33.1	1.268	1.125	49.3	20.4	58 W	37*	40*
9 13	7 27.22	+ 5 56.9	1.259	1.140	49.3	20.4	59 W	36*	43*
9 18	7 40.87	+ 2 16.5	1.253	1.155	49.1	20.4	60 W	35*	46*
9 23	7 54.17	− 1 26.5	1.248	1.172	48.9	20.5	62 W	33*	48*
9 28	8 7.14	− 5 10.4	1.246	1.189	48.5	20.5	63 W	32*	51*
10 3	8 19.79	− 8 53.8	1.246	1.207	48.1	20.5	64 W	30*	53*
10 8	8 32.15	−12 35.1	1.248	1.226	47.6	20.5	65 W	27*	55*
10 13	8 44.21	−16 13.2	1.253	1.245	47.1	20.5	66 W	25*	58*
10 18	8 55.97	−19 46.7	1.259	1.265	46.5	20.6	67 W	23*	59*
10 23	9 7.44	−23 14.8	1.267	1.285	45.9	20.6	68 W	20*	61*
10 28	9 18.59	−26 36.4	1.275	1.306	45.3	20.6	69 W	17*	63*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	54660 2000 UJ_1							*(continuation)*	
	h m	° ′			°	m	°	°	°
11 2	9 29.45	−29 51.2	1.285	1.326	44.6	20.7	70 W	15*	64*
11 7	9 39.98	−32 58.6	1.295	1.347	44.0	20.7	71 W	12*	65*
11 12	9 50.18	−35 58.5	1.306	1.368	43.4	20.7	72 W	9*	65*
11 17	10 0.00	−38 50.7	1.316	1.388	42.8	20.8	73 W	6	66*
11 22	10 9.42	−41 35.2	1.326	1.409	42.2	20.8	73 W	3	66*
11 27	10 18.39	−44 12.0	1.334	1.429	41.7	20.8	74 W	1	66*
12 2	10 26.88	−46 41.1	1.342	1.450	41.1	20.9	75 W	—	65*
12 7	10 34.82	−49 2.9	1.349	1.470	40.6	20.9	76 W	—	64*
12 12	10 42.13	−51 17.5	1.353	1.490	40.2	20.9	77 W	—	63*
12 17	10 48.72	−53 24.9	1.356	1.509	39.7	20.9	79 W	—	62*
12 22	10 54.48	−55 25.1	1.357	1.528	39.3	20.9	80 W	—	60*
12 27	10 59.30	−57 18.1	1.356	1.547	38.9	21.0	81 W	—	59
1 1	11 3.04	−59 3.7	1.353	1.566	38.5	21.0	82 W	—	57
1 6	11 5.55	−60 41.7	1.348	1.584	38.1	21.0	84 W	—	55
1 11	11 6.63	−62 11.7	1.341	1.601	37.8	21.0	86 W	—	54
1 16	11 6.12	−63 32.9	1.332	1.619	37.4	21.0	87 W	—	52
	466419 2013 TL_7								
3 2	19 30.60	− 5 18.8	2.250	1.784	25.2	21.5	50 W	28*	38*
3 12	19 55.98	− 3 21.9	2.162	1.757	26.9	21.4	53 W	29*	41*
3 22	20 21.21	− 1 11.8	2.077	1.733	28.5	21.3	56 W	30*	44*
4 1	20 46.20	+ 1 9.2	1.995	1.710	30.1	21.3	59 W	31*	46*
4 11	21 10.91	+ 3 38.3	1.916	1.690	31.5	21.2	62 W	33*	48*
4 21	21 35.32	+ 6 12.5	1.839	1.673	32.8	21.1	64 W	34*	49*
5 1	21 59.38	+ 8 48.4	1.766	1.658	34.0	21.0	67 W	36*	50*
5 11	22 23.07	+11 22.3	1.694	1.647	35.2	21.0	70 W	38*	50*
5 21	22 46.36	+13 51.1	1.624	1.638	36.1	20.9	73 W	41*	49*
5 31	23 9.16	+16 11.0	1.555	1.633	37.0	20.8	76 W	44*	48*
6 10	23 31.40	+18 18.5	1.486	1.632	37.6	20.7	79 W	47*	46
6 20	23 52.93	+20 10.4	1.417	1.633	38.1	20.7	83 W	51*	44
6 30	0 13.53	+21 42.9	1.347	1.638	38.3	20.6	87 W	56*	42
7 10	0 32.96	+22 52.6	1.276	1.646	38.1	20.4	91 W	61*	41
7 15	0 42.12	+23 17.8	1.241	1.652	37.9	20.4	94 W	63*	41
7 20	0 50.85	+23 35.9	1.206	1.658	37.6	20.3	96 W	65*	40
7 25	0 59.07	+23 46.2	1.170	1.665	37.1	20.2	99 W	67*	40
7 30	1 6.73	+23 48.2	1.135	1.672	36.4	20.2	102 W	68*	40
8 4	1 13.78	+23 41.4	1.100	1.680	35.6	20.1	105 W	69*	40
8 9	1 20.14	+23 25.2	1.066	1.689	34.7	20.0	109 W	68	41
8 14	1 25.73	+22 58.8	1.032	1.699	33.5	19.9	112 W	68	41
8 19	1 30.49	+22 21.7	1.000	1.709	32.1	19.8	116 W	67	42
8 24	1 34.35	+21 33.0	0.969	1.720	30.4	19.7	121 W	67	42
8 29	1 37.27	+20 32.3	0.940	1.732	28.5	19.6	125 W	66	43
9 8	1 40.20	+17 54.0	0.890	1.756	23.8	19.4	135 W	63	46
9 18	1 39.26	+14 28.1	0.855	1.783	18.0	19.1	147 W	59	50
9 28	1 35.05	+10 24.7	0.839	1.811	11.3	18.9	159 W	55	54
10 3	1 32.08	+ 8 15.4	0.840	1.826	7.9	18.8	166 W	53	56
10 8	1 28.76	+ 6 5.4	0.847	1.841	4.6	18.7	172 W	51	58
10 13	1 25.30	+ 3 58.3	0.860	1.857	2.6	18.6	175 W	49	60
10 18	1 21.89	+ 1 57.6	0.881	1.872	4.3	18.8	172 E	47	62
10 23	1 18.74	+ 0 6.3	0.907	1.888	7.2	19.0	166 E	45	64
10 28	1 16.01	− 1 33.3	0.940	1.905	10.2	19.2	160 E	43	66
11 2	1 13.83	− 2 59.9	0.979	1.921	13.0	19.4	154 E	42	67
11 7	1 12.26	− 4 13.0	1.023	1.938	15.5	19.6	148 E	41	68
11 17	1 11.19	− 5 59.1	1.125	1.972	19.7	20.0	138 E	39	70
11 27	1 12.96	− 6 56.8	1.244	2.007	22.8	20.4	128 E	38	71
12 7	1 17.35	− 7 14.7	1.374	2.042	25.0	20.7	119 E	38	71
12 17	1 24.05	− 7 1.7	1.514	2.077	26.3	21.0	111 E	38	71
12 27	1 32.71	− 6 25.5	1.660	2.113	27.0	21.2	103 E	39	70*
1 6	1 42.99	− 5 32.6	1.811	2.149	27.1	21.5	96 E	39	67*
	19877 9086 *P–L*								
3 2	19 39.22	−18 6.1	2.658	2.128	20.3	21.5	48 W	16*	41*
3 12	20 0.32	−16 56.8	2.533	2.091	22.3	21.4	53 W	17*	46*
3 22	20 21.25	−15 36.4	2.405	2.054	24.2	21.3	58 W	18*	51*
4 1	20 41.96	−14 5.6	2.275	2.016	26.1	21.2	62 W	19*	56*
4 11	21 2.43	−12 24.9	2.143	1.978	27.8	21.1	67 W	21*	60*
4 21	21 22.64	−10 35.1	2.011	1.941	29.4	20.9	71 W	22*	64*
5 1	21 42.55	− 8 37.3	1.880	1.904	30.9	20.8	76 W	24*	67*
5 11	22 2.17	− 6 32.5	1.751	1.867	32.2	20.6	80 W	27*	68*
5 21	22 21.48	− 4 22.0	1.625	1.831	33.4	20.5	85 W	30*	68*
5 31	22 40.44	− 2 7.2	1.502	1.796	34.4	20.3	89 W	33*	66
6 10	22 59.03	+ 0 10.0	1.384	1.762	35.1	20.1	93 W	37*	64
6 20	23 17.17	+ 2 27.8	1.270	1.730	35.6	19.9	98 W	41*	62
6 30	23 34.73	+ 4 43.5	1.162	1.699	35.8	19.6	102 W	46*	59
7 10	23 51.58	+ 6 54.3	1.061	1.670	35.6	19.4	107 W	50*	57
7 20	0 7.47	+ 8 56.8	0.965	1.643	35.0	19.1	112 W	54*	55
7 25	0 14.95	+ 9 53.6	0.920	1.630	34.5	19.0	115 W	55*	54
7 30	0 22.06	+10 46.6	0.877	1.618	33.8	18.9	117 W	56	53

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	19877 9086 *P–L*							*(continuation)*	
	h m	° ′			°	m	°	°	°
8 4	0 28.75	+11 35.3	0.836	1.607	33.0	18.7	120 W	57	52
8 9	0 34.95	+12 19.0	0.796	1.597	32.0	18.6	123 W	57	52
8 14	0 40.60	+12 56.9	0.759	1.587	30.8	18.4	127 W	58	51
8 19	0 45.61	+13 28.1	0.724	1.578	29.4	18.3	130 W	58	51
8 24	0 49.92	+13 52.0	0.692	1.570	27.8	18.1	134 W	59	50
8 29	0 53.47	+14 7.6	0.662	1.563	25.9	18.0	137 W	59	50
9 3	0 56.23	+14 14.5	0.635	1.557	23.8	17.8	142 W	59	50
9 8	0 58.15	+14 11.9	0.610	1.551	21.3	17.6	146 W	59	50
9 18	0 59.48	+13 37.0	0.572	1.543	15.7	17.3	155 W	59	50
9 28	0 57.96	+12 24.2	0.548	1.539	9.2	16.9	166 W	57	52
10 8	0 54.84	+10 43.4	0.541	1.539	3.2	16.6	175 W	56	53
10 13	0 53.17	+ 9 47.6	0.544	1.540	3.5	16.6	175 E	55	54
10 18	0 51.73	+ 8 51.6	0.551	1.542	6.4	16.8	170 E	54	55
10 23	0 50.74	+ 7 57.9	0.563	1.545	9.7	17.0	165 E	53	56
10 28	0 50.37	+ 7 9.0	0.579	1.549	12.9	17.2	160 E	52	57
11 2	0 50.72	+ 6 26.7	0.599	1.554	16.0	17.4	154 E	51	58
11 7	0 51.88	+ 5 52.0	0.623	1.560	18.8	17.6	149 E	51	58
11 17	0 56.67	+ 5 8.1	0.682	1.575	23.7	18.0	140 E	50	59
11 27	1 4.71	+ 4 58.4	0.754	1.593	27.5	18.3	132 E	50	59
12 7	1 15.58	+ 5 18.8	0.838	1.614	30.3	18.7	124 E	50	59
12 12	1 21.91	+ 5 38.4	0.883	1.625	31.3	18.8	121 E	51	58
12 17	1 28.78	+ 6 3.3	0.931	1.637	32.2	19.0	118 E	51	58
12 22	1 36.13	+ 6 32.8	0.981	1.650	32.9	19.1	114 E	52	57
12 27	1 43.90	+ 7 6.0	1.032	1.664	33.4	19.3	111 E	52	57
1 1	1 52.05	+ 7 42.4	1.086	1.678	33.8	19.4	108 E	53	56*
1 6	2 0.53	+ 8 21.1	1.142	1.692	34.1	19.5	105 E	53	55*
1 11	2 9.30	+ 9 1.6	1.199	1.707	34.2	19.7	103 E	54	54*
1 16	2 18.35	+ 9 43.5	1.257	1.723	34.2	19.8	100 E	55	53*
	249772 2000 VF_{62}								
3 2	19 44.66	−42 40.4	3.514	3.044	15.3	21.5	54 W	—	44*
3 12	20 0.89	−42 34.0	3.405	3.042	16.5	21.5	61 W	—	49*
3 22	20 16.05	−42 30.1	3.286	3.039	17.6	21.4	67 W	—	54*
4 1	20 30.00	−42 30.4	3.160	3.036	18.4	21.4	74 W	—	59*
4 11	20 42.54	−42 36.3	3.028	3.031	19.0	21.3	81 W	—	65*
4 21	20 53.49	−42 49.8	2.893	3.025	19.4	21.2	88 W	—	69*
5 1	21 2.58	−43 12.2	2.757	3.018	19.4	21.1	95 W	—	72*
5 11	21 9.52	−43 44.6	2.622	3.010	19.1	21.0	103 W	—	72
5 21	21 13.95	−44 27.5	2.492	3.001	18.4	20.8	111 W	—	72
5 31	21 15.44	−45 20.1	2.369	2.991	17.3	20.7	119 W	—	71
6 10	21 13.60	−46 19.9	2.258	2.980	15.8	20.5	127 W	—	70
6 20	21 8.08	−47 22.3	2.162	2.969	14.0	20.3	135 W	—	69
6 25	21 3.87	−47 52.2	2.121	2.962	13.1	20.3	139 W	—	68
6 30	20 58.74	−48 19.7	2.085	2.955	12.1	20.2	142 W	—	68
7 5	20 52.73	−48 43.6	2.054	2.949	11.3	20.1	145 W	—	67
7 10	20 45.95	−49 2.8	2.030	2.941	10.6	20.0	148 W	—	67
7 15	20 38.52	−49 16.1	2.011	2.934	10.0	20.0	150 W	—	67
7 20	20 30.63	−49 22.5	1.998	2.926	9.8	20.0	151 W	—	67
7 25	20 22.49	−49 21.2	1.992	2.918	9.9	20.0	150 W	—	67
7 30	20 14.34	−49 11.9	1.993	2.910	10.4	20.0	149 E	—	67
8 4	20 6.42	−48 54.6	2.000	2.902	11.1	20.0	147 E	—	67
8 9	19 58.92	−48 29.6	2.013	2.893	12.0	20.0	144 E	—	68
8 14	19 52.05	−47 57.5	2.032	2.884	13.0	20.1	140 E	—	68
8 19	19 45.95	−47 19.1	2.057	2.875	14.1	20.2	136 E	—	69
8 24	19 40.73	−46 35.5	2.086	2.866	15.1	20.2	132 E	—	69
8 29	19 36.46	−45 47.7	2.121	2.856	16.2	20.3	128 E	—	70
9 3	19 33.17	−44 56.7	2.160	2.846	17.2	20.4	124 E	—	71
9 8	19 30.83	−44 3.3	2.203	2.836	18.0	20.4	119 E	1	72
9 13	19 29.44	−43 8.3	2.249	2.825	18.8	20.5	115 E	2	73
9 18	19 28.94	−42 12.4	2.298	2.815	19.5	20.5	111 E	3	74
9 23	19 29.30	−41 16.0	2.349	2.804	20.1	20.6	106 E	4	75
9 28	19 30.44	−40 19.6	2.402	2.793	20.5	20.6	102 E	5	76
10 3	19 32.31	−39 23.3	2.457	2.781	20.9	20.7	98 E	6	77
10 8	19 34.84	−38 27.4	2.512	2.769	21.1	20.7	94 E	7	78
10 13	19 37.97	−37 31.9	2.568	2.758	21.2	20.8	90 E	7	78*
10 18	19 41.66	−36 36.7	2.624	2.745	21.2	20.8	86 E	8	77*
10 23	19 45.85	−35 42.0	2.680	2.733	21.2	20.9	82 E	9	75*
10 28	19 50.49	−34 47.5	2.736	2.720	21.0	20.9	79 E	10*	72*
11 2	19 55.53	−33 53.3	2.790	2.707	20.7	20.9	75 E	11*	69*
11 7	20 0.93	−32 59.2	2.843	2.694	20.4	20.9	71 E	12*	65*
11 12	20 6.66	−32 5.0	2.895	2.681	20.0	20.9	68 E	13*	62*
11 17	20 12.69	−31 10.7	2.945	2.667	19.5	21.0	64 E	13*	58*
11 22	20 18.97	−30 16.2	2.993	2.653	18.9	21.0	61 E	14*	54*
11 27	20 25.49	−29 21.2	3.039	2.639	18.3	21.0	57 E	15*	50*
12 2	20 32.21	−28 25.8	3.082	2.625	17.7	21.0	54 E	15*	47*
12 7	20 39.11	−27 29.8	3.123	2.610	16.9	21.0	51 E	15*	43*
12 12	20 46.18	−26 33.0	3.161	2.596	16.2	20.9	47 E	16*	39*
12 17	20 53.38	−25 35.5	3.196	2.581	15.4	20.9	44 E	16*	35*
12 22	21 0.72	−24 37.1	3.228	2.565	14.5	20.9	41 E	15*	32*

249772 2000 VF_{62} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 27	21 8.16	−23 37.8	3.257	2.550	13.6	20.9	38 E	15*	28*
1 1	21 15.69	−22 37.5	3.283	2.534	12.7	20.9	34 E	14*	25*
1 6	21 23.31	−21 36.2	3.305	2.518	11.7	20.8	31 E	13*	22*
1 11	21 30.99	−20 33.7	3.324	2.502	10.7	20.8	28 E	12*	19*
1 16	21 38.75	−19 30.1	3.340	2.486	9.7	20.7	25 E	11*	16*

143257 2003 *AE*

3 2	19 49.00	−15 55.4	2.828	2.249	18.3	21.5	46 W	16*	38*
3 12	20 8.81	−15 40.3	2.698	2.208	20.4	21.4	51 W	17*	44*
3 22	20 28.70	−15 20.9	2.562	2.166	22.4	21.3	56 W	17*	49*
4 1	20 48.66	−14 58.5	2.421	2.125	24.3	21.2	61 W	18*	55*
4 11	21 8.67	−14 34.9	2.277	2.083	26.1	21.1	66 W	18*	60*
4 21	21 28.79	−14 11.9	2.132	2.041	27.8	20.9	71 W	18*	64*
5 1	21 49.02	−13 51.8	1.986	1.999	29.3	20.8	76 W	19*	69*
5 11	22 9.39	−13 37.3	1.842	1.958	30.6	20.6	81 W	20*	73*
5 21	22 29.98	−13 31.4	1.701	1.917	31.8	20.4	86 W	21*	76*
5 31	22 50.78	−13 37.7	1.563	1.877	32.7	20.2	91 W	22*	78*
6 10	23 11.85	−13 59.9	1.432	1.837	33.4	20.0	96 W	23*	78
6 20	23 33.20	−14 42.6	1.308	1.799	33.7	19.8	101 W	24*	79
6 30	23 54.76	−15 50.3	1.192	1.762	33.8	19.5	106 W	25*	80
7 10	0 16.46	−17 27.2	1.087	1.727	33.5	19.3	110 W	25*	81
7 20	0 38.08	−19 36.4	0.993	1.693	33.0	19.0	115 W	24*	84
7 30	0 59.26	−22 19.1	0.913	1.662	32.3	18.8	119 W	23*	86
8 4	1 9.54	−23 52.2	0.877	1.648	31.9	18.7	121 W	21*	88
8 9	1 19.51	−25 32.2	0.846	1.634	31.5	18.5	123 W	19	90
8 14	1 29.07	−27 18.2	0.817	1.621	31.1	18.4	124 W	18	89
8 19	1 38.11	−29 8.6	0.793	1.609	30.7	18.3	126 W	16	87
8 24	1 46.51	−31 1.6	0.772	1.597	30.5	18.3	127 W	14	85
8 29	1 54.16	−32 55.1	0.754	1.587	30.3	18.2	128 W	12	83
9 3	2 0.95	−34 46.9	0.739	1.577	30.2	18.1	128 W	10	81
9 8	2 6.75	−36 34.6	0.728	1.568	30.1	18.1	129 W	8	79
9 13	2 11.46	−38 15.9	0.719	1.561	30.2	18.1	129 W	7	78
9 18	2 14.98	−39 48.2	0.713	1.554	30.3	18.0	129 W	5	76
9 23	2 17.29	−41 9.0	0.710	1.548	30.5	18.0	128 W	4	75
9 28	2 18.39	−42 16.0	0.708	1.543	30.7	18.0	128 W	3	74
10 3	2 18.36	−43 7.2	0.709	1.540	31.0	18.0	128 W	2	73
10 8	2 17.31	−43 41.0	0.712	1.537	31.2	18.0	127 W	1	72
10 13	2 15.42	−43 56.0	0.717	1.536	31.5	18.1	126 W	1	72
10 18	2 12.90	−43 51.2	0.723	1.535	31.8	18.1	126 W	1	72
10 23	2 10.04	−43 25.9	0.731	1.536	32.0	18.1	125 W	2	73
10 28	2 7.14	−42 40.3	0.741	1.538	32.3	18.1	124 E	2	73
11 2	2 4.43	−41 35.2	0.753	1.541	32.5	18.2	123 E	3	74
11 7	2 2.14	−40 11.7	0.767	1.545	32.8	18.2	122 E	5	76
11 12	2 0.42	−38 31.4	0.782	1.550	33.0	18.3	122 E	6	77
11 17	1 59.41	−36 35.7	0.800	1.556	33.2	18.4	120 E	8	79
11 22	1 59.19	−34 27.0	0.820	1.563	33.4	18.4	119 E	11	82
11 27	1 59.81	−32 7.3	0.843	1.571	33.6	18.5	118 E	13	84
12 2	2 1.24	−29 39.1	0.868	1.580	33.9	18.6	117 E	15	86
12 7	2 3.46	−27 4.4	0.896	1.590	34.1	18.7	115 E	18	89
12 12	2 6.43	−24 25.4	0.927	1.601	34.3	18.8	114 E	21	88
12 17	2 10.11	−21 43.8	0.960	1.612	34.4	18.9	112 E	23	86
12 22	2 14.46	−19 1.4	0.997	1.625	34.6	19.0	110 E	26	83
12 27	2 19.41	−16 19.9	1.036	1.638	34.7	19.1	108 E	29	80
1 1	2 24.91	−13 40.5	1.079	1.652	34.8	19.2	106 E	31	78
1 6	2 30.92	−11 4.4	1.124	1.667	34.8	19.3	104 E	34	75
1 11	2 37.38	− 8 32.4	1.172	1.682	34.8	19.4	102 E	36	72*
1 16	2 44.28	− 6 5.2	1.222	1.698	34.8	19.5	100 E	39	70*

249103 2007 VO_{244}

3 2	20 8.21	−17 8.5	2.331	1.714	22.4	21.5	41 W	13*	35*
3 12	20 35.14	−15 14.8	2.256	1.696	24.2	21.4	44 W	14*	38*
3 22	21 1.61	−13 6.1	2.181	1.679	26.0	21.4	48 W	15*	41*
4 1	21 27.56	−10 44.5	2.107	1.666	27.7	21.4	51 W	16*	44*
4 11	21 52.95	− 8 12.3	2.034	1.654	29.3	21.3	54 W	17*	47*
4 21	22 17.79	− 5 32.2	1.963	1.646	30.8	21.3	57 W	19*	50*
5 1	22 42.05	− 2 46.8	1.892	1.640	32.1	21.2	60 W	20*	52*
5 11	23 5.73	+ 0 1.1	1.824	1.637	33.4	21.2	63 W	23*	54*
5 21	23 28.84	+ 2 48.9	1.756	1.637	34.5	21.1	66 W	25*	55*
5 31	23 51.33	+ 5 33.7	1.689	1.639	35.4	21.1	70 W	29*	55*
6 10	0 13.16	+ 8 12.9	1.622	1.645	36.2	21.0	73 W	33*	54*
6 20	0 34.25	+10 44.4	1.555	1.653	36.8	20.9	77 W	38*	53*
6 30	0 54.45	+13 5.6	1.489	1.664	37.1	20.9	81 W	43*	51
7 10	1 13.57	+15 14.7	1.422	1.677	37.2	20.8	85 W	49*	49
7 20	1 31.37	+17 9.9	1.354	1.693	36.9	20.7	90 W	55*	47
7 30	1 47.46	+18 49.4	1.287	1.711	36.2	20.6	95 W	60*	45
8 9	2 1.46	+20 11.5	1.220	1.732	35.0	20.5	101 W	64*	44
8 19	2 12.85	+21 14.6	1.155	1.754	33.3	20.3	108 W	66	43
8 29	2 21.06	+21 56.4	1.092	1.777	30.9	20.2	115 W	67	42
9 8	2 25.60	+22 14.8	1.035	1.803	27.6	20.0	124 W	67	42
9 18	2 26.05	+22 6.9	0.986	1.829	23.5	19.8	133 W	67	42
9 28	2 22.39	+21 30.1	0.950	1.857	18.4	19.6	144 W	67	42

249103 2007 VO_{244} *(continuation)*

10 3	2 19.19	+21 0.9	0.937	1.871	15.6	19.5	150 W	66	43
10 8	2 15.23	+20 24.7	0.930	1.885	12.6	19.4	156 W	65	44
10 13	2 10.69	+19 42.4	0.927	1.900	9.5	19.3	162 W	65	44
10 18	2 5.78	+18 55.0	0.930	1.915	6.4	19.1	168 W	64	45
10 23	2 0.74	+18 3.9	0.938	1.930	3.7	19.0	173 W	63	46
10 28	1 55.81	+17 11.0	0.953	1.945	2.7	19.0	175 E	62	47
11 2	1 51.21	+16 18.0	0.974	1.960	4.7	19.2	171 E	61	48
11 7	1 47.11	+15 26.7	1.001	1.975	7.4	19.4	165 E	60	49
11 12	1 43.65	+14 38.6	1.034	1.991	10.2	19.6	159 E	60	49
11 17	1 40.96	+13 54.9	1.072	2.006	12.7	19.8	153 E	59	50
11 22	1 39.09	+13 16.8	1.116	2.021	15.1	20.0	148 E	58	51
11 27	1 38.07	+12 44.7	1.164	2.037	17.2	20.2	142 E	58	51
12 7	1 38.52	+11 59.4	1.274	2.068	20.7	20.5	132 E	57	52
12 17	1 42.05	+11 38.1	1.398	2.099	23.3	20.8	123 E	57	52
12 27	1 48.29	+11 38.2	1.533	2.130	25.0	21.1	114 E	57	52
1 6	1 56.79	+11 55.7	1.675	2.161	26.0	21.4	106 E	57	51*

434313 2004 *GP*

3 2	20 24.49	−13 47.5	1.362	0.822	46.3	21.4	37 W	13*	30*
3 7	20 50.96	−12 59.5	1.340	0.781	47.3	21.3	35 W	12*	28*
3 12	21 18.85	−11 57.4	1.321	0.735	48.0	21.1	33 W	10*	27*
3 17	21 48.23	−10 39.3	1.308	0.686	48.4	21.0	31 W	8*	25*
3 22	22 19.18	− 9 3.5	1.301	0.633	48.1	20.8	28 W	6*	22*
3 27	22 51.75	− 7 8.1	1.300	0.578	46.8	20.5	25 W	3*	19*
4 1	23 26.03	− 4 51.2	1.306	0.520	44.0	20.3	21 W	1*	15*
4 6	0 2.13	− 2 10.8	1.318	0.463	38.9	19.9	17 W	—	11*
4 11	0 40.15	+ 0 55.0	1.334	0.412	30.7	19.4	12 W	—	6*
4 21	2 1.42	+ 8 20.0	1.353	0.357	10.7	18.5	4 E	—	—
5 1	3 23.89	+16 12.8	1.326	0.402	31.9	19.4	12 E	3*	4*
5 11	4 41.88	+22 33.7	1.286	0.508	46.9	20.2	22 E	12*	10*
5 16	5 19.11	+24 51.5	1.274	0.565	50.3	20.6	25 E	15*	12*
5 21	5 55.15	+26 32.2	1.268	0.621	52.0	20.8	29 E	18*	15*
5 26	6 29.83	+27 37.3	1.270	0.675	52.6	21.0	32 E	20*	17*
5 31	7 2.92	+28 9.4	1.277	0.725	52.5	21.2	35 E	22*	19*
6 5	7 34.24	+28 12.5	1.289	0.771	51.9	21.3	37 E	23*	21*
6 10	8 3.66	+27 50.7	1.306	0.814	51.0	21.4	39 E	24*	22*

364639 2007 TY_{109}

3 2	20 29.57	−22 51.1	2.384	1.710	20.7	21.5	38 W	5*	32*
3 12	20 58.17	−21 27.1	2.314	1.693	22.6	21.4	41 W	5*	35*
3 22	21 26.36	−19 47.9	2.244	1.677	24.4	21.4	44 W	6*	38*
4 1	21 54.03	−17 55.7	2.174	1.664	26.1	21.4	47 W	6*	41*
4 11	22 21.12	−15 52.6	2.105	1.654	27.7	21.3	50 W	7*	44*
4 21	22 47.59	−13 41.4	2.038	1.646	29.3	21.3	53 W	8*	47*
5 1	23 13.40	−11 24.7	1.971	1.640	30.7	21.3	56 W	9*	50*
5 11	23 38.53	− 9 5.3	1.906	1.638	32.0	21.2	59 W	10*	53*
5 21	0 2.98	− 6 45.6	1.841	1.638	33.2	21.2	62 W	13*	56*
5 31	0 26.70	− 4 28.4	1.776	1.641	34.2	21.1	66 W	16*	58*
6 10	0 49.65	− 2 15.9	1.712	1.647	35.1	21.1	69 W	19*	60*
6 20	1 11.76	− 0 10.1	1.647	1.655	35.8	21.0	73 W	23*	61*
6 30	1 32.90	+ 1 47.0	1.582	1.667	36.4	21.0	76 W	28*	61*
7 10	1 52.93	+ 3 34.1	1.516	1.680	36.6	20.9	80 W	34*	60*
7 20	2 11.66	+ 5 9.9	1.449	1.696	36.7	20.8	85 W	39*	59
7 30	2 28.79	+ 6 33.8	1.381	1.714	36.3	20.7	90 W	45*	57
8 9	2 44.02	+ 7 45.3	1.312	1.734	35.6	20.6	96 W	50*	56
8 19	2 56.93	+ 8 44.5	1.244	1.756	34.4	20.5	102 W	53*	55
8 29	3 7.02	+ 9 31.7	1.177	1.779	32.5	20.4	109 W	55	54
9 8	3 13.80	+10 7.7	1.113	1.804	30.0	20.2	116 W	55	54
9 18	3 16.74	+10 33.4	1.055	1.830	26.6	20.0	125 W	56	53
9 28	3 15.43	+10 49.9	1.006	1.857	22.3	19.8	135 W	56	53
10 8	3 9.88	+10 59.0	0.971	1.885	17.1	19.6	146 W	56	53
10 18	3 0.59	+11 2.5	0.953	1.914	11.2	19.4	158 W	56	53
10 23	2 54.92	+11 3.2	0.952	1.929	8.0	19.3	164 W	56	53
10 28	2 48.84	+11 3.8	0.957	1.943	5.0	19.2	170 W	56	53
11 2	2 42.62	+11 4.8	0.968	1.958	2.5	19.1	175 W	56	53
11 7	2 36.48	+11 6.8	0.985	1.973	3.0	19.1	174 E	56	53
11 12	2 30.66	+11 10.2	1.008	1.988	5.6	19.4	169 E	56	53
11 17	2 25.37	+11 15.6	1.038	2.003	8.5	19.6	163 E	56	53
11 27	2 17.01	+11 34.0	1.114	2.034	13.6	20.0	151 E	57	52
12 7	2 12.15	+12 3.6	1.211	2.064	17.9	20.3	140 E	57	52
12 17	2 10.93	+12 44.4	1.325	2.094	21.2	20.7	130 E	58	51
12 27	2 13.14	+13 35.5	1.452	2.124	23.6	21.0	120 E	59	50
1 6	2 18.32	+14 34.8	1.589	2.154	25.1	21.2	112 E	60	49*
1 16	2 26.04	+15 40.1	1.734	2.184	26.0	21.5	103 E	61	47*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
471956 2013 SC_{25}									
3 2	20 41.17	−29 15.7	0.597	0.636	106.9	21.1	38 W	—	31*
3 4	20 39.30	−29 0.9	0.620	0.653	102.3	21.0	40 W	—	33*
3 6	20 38.26	−28 42.4	0.643	0.671	98.0	20.9	42 W	1*	35*
3 8	20 37.93	−28 21.0	0.665	0.690	94.2	20.9	44 W	1*	37*
3 10	20 38.20	−27 57.5	0.687	0.710	90.6	20.8	46 W	2*	39*
3 12	20 38.94	−27 32.5	0.708	0.730	87.4	20.8	47 W	3*	41*
3 14	20 40.07	−27 6.3	0.728	0.752	84.4	20.8	49 W	4*	42*
3 16	20 41.51	−26 39.4	0.747	0.773	81.7	20.9	50 W	5*	44*
3 18	20 43.20	−26 12.0	0.765	0.795	79.2	20.9	52 W	5*	45*
3 20	20 45.07	−25 44.3	0.783	0.818	76.9	20.9	53 W	6*	47*
3 22	20 47.07	−25 16.5	0.799	0.841	74.8	20.9	55 W	7*	48*
3 27	20 52.43	−24 7.2	0.834	0.898	70.2	21.0	58 W	8*	52*
4 1	20 57.93	−22 59.2	0.864	0.956	66.4	21.1	61 W	10*	55*
4 6	21 3.26	−21 53.4	0.887	1.013	63.1	21.2	65 W	11*	58*
4 11	21 8.22	−20 50.3	0.905	1.070	60.3	21.3	68 W	13*	62*
4 16	21 12.65	−19 50.2	0.918	1.126	57.7	21.4	72 W	14*	66*
4 21	21 16.43	−18 53.4	0.925	1.182	55.4	21.4	75 W	16*	69*
4 26	21 19.46	−18 0.2	0.928	1.236	53.1	21.4	79 W	18*	73*
5 1	21 21.63	−17 10.8	0.927	1.288	51.0	21.5	83 W	19*	76*
5 6	21 22.87	−16 25.4	0.923	1.340	48.8	21.5	88 W	21*	79*
5 11	21 23.09	−15 44.2	0.916	1.390	46.5	21.5	92 W	23*	80*
5 16	21 22.21	−15 7.4	0.907	1.439	44.2	21.5	97 W	25*	79
5 21	21 20.14	−14 35.3	0.896	1.487	41.7	21.5	102 W	27*	79
5 26	21 16.79	−14 8.1	0.884	1.534	39.0	21.4	108 W	28*	78
5 31	21 12.10	−13 45.9	0.873	1.579	36.1	21.4	113 W	30*	78
6 5	21 6.04	−13 28.7	0.862	1.623	32.9	21.3	120 W	31*	77
6 10	20 58.64	−13 16.4	0.853	1.666	29.6	21.3	126 W	32*	77
6 15	20 49.94	−13 8.8	0.847	1.708	25.9	21.2	133 W	32	77
6 20	20 40.07	−13 5.6	0.845	1.748	22.1	21.1	140 W	32	77
6 25	20 29.24	−13 6.3	0.848	1.788	18.1	21.0	147 W	32	77
6 30	20 17.74	−13 10.2	0.857	1.826	14.1	21.0	154 W	32	77
7 5	20 5.93	−13 16.6	0.872	1.863	10.2	20.9	161 W	32	77
7 10	19 54.17	−13 24.7	0.894	1.900	6.6	20.8	168 W	32	77
7 15	19 42.81	−13 33.9	0.923	1.935	4.2	20.8	172 W	31	78
7 20	19 32.17	−13 43.8	0.959	1.969	4.8	21.0	171 E	31	78
7 25	19 22.52	−13 54.1	1.002	2.002	7.3	21.2	166 E	31	78
7 30	19 14.02	−14 4.4	1.052	2.034	10.1	21.5	159 E	31	78
8 4	19 6.79	−14 14.6	1.108	2.065	12.7	21.7	153 E	31	78
8 9	19 0.83	−14 24.7	1.169	2.095	15.1	22.0	147 E	31	78
8 14	18 56.13	−14 34.4	1.236	2.125	17.2	22.2	142 E	30	79
162825 2001 BO_{61}									
3 2	21 15.35	−11 45.1	0.532	0.551	132.3	21.3	24 W	7*	17*
3 4	21 19.97	−11 3.5	0.576	0.529	127.5	20.9	25 W	8*	18*
3 6	21 24.95	−10 25.3	0.622	0.509	122.3	20.5	26 W	8*	19*
3 8	21 30.37	− 9 49.6	0.670	0.491	116.7	20.2	26 W	8*	19*
3 10	21 36.27	− 9 15.4	0.719	0.477	110.7	19.9	27 W	8*	20*
3 12	21 42.68	− 8 42.2	0.769	0.466	104.4	19.6	27 W	9*	20*
3 17	22 0.83	− 7 19.6	0.898	0.456	88.2	19.2	27 W	8*	21*
3 22	22 21.27	− 5 54.2	1.027	0.471	72.9	19.0	27 W	8*	20*
3 27	22 42.65	− 4 25.7	1.149	0.509	60.0	19.0	26 W	7*	20*
4 1	23 3.76	− 2 56.4	1.261	0.563	50.2	19.1	26 W	6*	19*
4 6	23 23.90	− 1 29.1	1.363	0.627	43.1	19.3	25 W	5*	19*
4 11	23 42.81	− 0 5.6	1.455	0.696	38.0	19.6	25 W	5*	19*
4 21	0 16.91	+ 2 27.2	1.614	0.839	31.9	20.0	26 W	4*	20*
5 1	0 46.68	+ 4 39.5	1.744	0.980	29.1	20.4	28 W	5*	22*
5 11	1 12.97	+ 6 32.1	1.850	1.116	28.0	20.8	31 W	6*	25*
5 21	1 36.45	+ 8 6.7	1.932	1.245	27.7	21.1	35 W	7*	28*
5 31	1 57.59	+ 9 24.9	1.994	1.367	27.9	21.4	39 W	10*	32*
66146 1998 TU_3									
3 2	21 18.96	−12 45.4	0.779	0.417	108.1	16.1	24 W	6*	17*
3 4	21 21.10	−12 51.0	0.824	0.427	100.0	15.9	25 W	6*	19*
3 6	21 24.57	−12 50.8	0.869	0.439	92.7	15.7	26 W	6*	20*
3 8	21 29.09	−12 45.5	0.913	0.454	86.2	15.6	27 W	6*	21*
3 10	21 34.42	−12 35.8	0.957	0.471	80.3	15.6	28 W	6*	22*
3 12	21 40.35	−12 22.1	0.999	0.489	75.1	15.6	28 W	6*	22*
3 14	21 46.71	−12 5.2	1.040	0.508	70.6	15.6	29 W	6*	23*
3 16	21 53.37	−11 45.4	1.079	0.528	66.5	15.6	29 W	6*	23*
3 18	22 0.22	−11 23.2	1.116	0.549	63.0	15.7	29 W	6*	23*
3 20	22 7.18	−10 59.1	1.151	0.570	59.9	15.7	30 W	6*	24*
3 22	22 14.20	−10 33.2	1.185	0.591	57.1	15.8	30 W	5*	24*
3 27	22 31.70	− 9 23.1	1.261	0.645	51.6	16.0	30 W	5*	24*
4 1	22 48.87	− 8 7.8	1.328	0.697	47.5	16.1	31 W	5*	25*
4 6	23 5.54	− 6 49.4	1.386	0.747	44.5	16.3	32 W	5*	26*
4 11	23 21.68	− 5 29.6	1.436	0.795	42.3	16.4	32 W	5*	26*
4 16	23 37.30	− 4 9.2	1.478	0.840	40.7	16.6	33 W	5*	27*
4 21	23 52.47	− 2 49.1	1.514	0.882	39.5	16.7	34 W	5*	28*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
66146 1998 TU_3 *(continuation)*									
5 1	0 21.61	− 0 11.6	1.567	0.957	38.2	16.9	36 W	6*	30*
5 11	0 49.57	+ 2 20.7	1.599	1.020	37.8	17.1	38 W	7*	32*
5 21	1 16.81	+ 4 46.4	1.612	1.072	38.0	17.2	41 W	8*	34*
5 31	1 43.73	+ 7 4.7	1.607	1.112	38.6	17.3	43 W	11*	36*
6 10	2 10.70	+ 9 15.0	1.587	1.141	39.6	17.4	46 W	13*	38*
6 20	2 38.11	+11 16.9	1.553	1.160	40.8	17.4	48 W	17*	39*
6 30	3 6.36	+13 9.5	1.508	1.168	42.3	17.4	51 W	21*	40*
7 10	3 35.86	+14 51.5	1.452	1.165	44.0	17.3	53 W	25*	40*
7 20	4 7.16	+16 21.4	1.388	1.152	46.0	17.3	55 W	29*	39*
7 25	4 23.66	+17 0.8	1.354	1.142	47.1	17.2	55 W	31*	39*
7 30	4 40.82	+17 36.1	1.318	1.128	48.3	17.2	56 W	33*	38*
8 4	4 58.76	+18 6.5	1.282	1.112	49.5	17.1	57 W	35*	38*
8 9	5 17.57	+18 31.4	1.246	1.094	50.8	17.1	57 W	37*	37*
8 14	5 37.37	+18 49.8	1.210	1.072	52.3	17.0	57 W	38*	36*
8 19	5 58.24	+19 0.6	1.174	1.048	53.8	16.9	57 W	39*	36*
8 24	6 20.29	+19 2.4	1.139	1.021	55.5	16.8	56 W	40*	35*
8 29	6 43.62	+18 53.5	1.107	0.991	57.2	16.8	56 W	40*	33*
9 3	7 8.31	+18 32.3	1.077	0.958	59.1	16.7	55 W	40*	32*
9 8	7 34.40	+17 56.6	1.051	0.922	61.0	16.6	53 W	40*	31*
9 13	8 1.89	+17 4.6	1.030	0.883	62.9	16.5	51 W	39*	29*
9 18	8 30.74	+15 54.3	1.014	0.841	64.8	16.4	49 W	37*	27*
9 28	9 31.96	+12 34.5	1.004	0.749	67.9	16.3	44 W	33*	23*
10 8	10 36.75	+ 7 55.9	1.031	0.646	68.8	16.0	37 W	28*	18*
10 18	11 44.04	+ 2 10.4	1.100	0.540	64.6	15.7	29 W	21*	13*
10 23	12 18.68	− 1 1.6	1.150	0.490	59.4	15.4	25 W	17*	10*
10 28	12 54.23	− 4 23.0	1.209	0.447	51.4	15.1	21 W	13*	7*
11 2	13 30.89	− 7 49.8	1.271	0.418	40.6	14.7	16 W	9*	4*
11 7	14 8.62	−11 15.0	1.332	0.407	27.8	14.4	11 W	4*	—
11 12	14 46.90	−14 28.1	1.386	0.417	15.0	14.1	6 W	—	—
11 17	15 24.98	−17 18.4	1.432	0.445	4.5	13.9	2 W	—	—
11 22	16 2.17	−19 38.7	1.472	0.487	5.6	14.2	3 E	—	—
11 27	16 38.03	−21 26.4	1.508	0.537	11.3	14.7	6 E	—	—
12 2	17 12.29	−22 42.2	1.543	0.590	15.2	15.1	9 E	—	2*
12 7	17 44.83	−23 28.7	1.578	0.643	17.7	15.5	11 E	1*	4*
12 12	18 15.59	−23 49.5	1.615	0.696	19.2	15.7	13 E	2*	6*
12 17	18 44.56	−23 48.3	1.652	0.746	19.9	16.0	15 E	3*	7*
12 22	19 11.78	−23 28.7	1.690	0.794	20.2	16.1	16 E	4*	8*
12 27	19 37.32	−22 53.9	1.729	0.839	20.0	16.3	17 E	5*	9*
1 1	20 1.30	−22 6.8	1.768	0.881	19.6	16.4	17 E	6*	9*
1 6	20 23.85	−21 9.9	1.807	0.920	19.0	16.6	18 E	6*	9*
1 11	20 45.09	−20 5.1	1.845	0.956	18.3	16.7	18 E	7*	9*
1 16	21 5.17	−18 54.1	1.882	0.989	17.4	16.8	18 E	7*	8*
363116 2001 GQ_2									
3 2	21 33.36	−23 50.1	1.392	0.650	40.4	21.5	25 W	—	18*
3 7	22 6.73	−21 17.9	1.418	0.625	37.0	21.3	22 W	—	15*
3 12	22 38.59	−18 14.9	1.450	0.610	32.7	21.2	19 W	—	12*
3 17	23 8.71	−14 48.0	1.487	0.603	27.9	21.1	16 W	—	8*
3 22	23 37.03	−11 4.8	1.528	0.607	22.8	21.0	14 W	—	6*
3 27	0 3.62	− 7 13.3	1.571	0.621	17.9	21.0	11 W	—	3*
4 1	0 28.65	− 3 20.6	1.615	0.644	13.3	21.0	9 W	—	—
4 6	0 52.31	+ 0 27.7	1.659	0.674	9.4	21.0	6 W	—	—
4 11	1 14.83	+ 4 7.3	1.705	0.709	6.1	21.0	4 W	—	—
4 16	1 36.39	+ 7 35.2	1.750	0.749	3.4	21.0	3 W	—	—
4 21	1 57.19	+10 49.8	1.796	0.791	1.4	21.1	1 E	—	—
4 26	2 17.37	+13 50.1	1.842	0.836	0.9	21.2	1 E	—	—
5 1	2 37.04	+16 35.7	1.887	0.881	2.0	21.4	2 E	—	—
207945 1991 JW									
3 2	21 50.79	−17 34.1	1.842	0.952	18.9	21.5	18 W	—	12*
3 7	22 11.95	−15 47.5	1.839	0.945	18.8	21.5	18 W	—	12*
3 12	22 32.83	−13 52.7	1.837	0.938	18.5	21.4	17 W	—	11*
3 17	22 53.43	−11 50.7	1.837	0.932	18.2	21.4	17 W	—	11*
3 22	23 13.76	− 9 42.6	1.838	0.927	17.8	21.4	17 W	—	10*
3 27	23 33.86	− 7 29.7	1.840	0.923	17.4	21.4	16 W	—	10*
4 1	23 53.75	− 5 13.2	1.843	0.920	16.9	21.3	16 W	—	9*
4 6	0 13.46	− 2 54.3	1.847	0.917	16.4	21.3	15 W	—	9*
4 11	0 33.05	− 0 34.1	1.852	0.916	15.8	21.3	14 W	—	8*
4 16	0 52.56	+ 1 46.1	1.858	0.916	15.2	21.3	14 W	—	8*
4 21	1 12.05	+ 4 5.3	1.865	0.917	14.6	21.3	13 W	—	7*
4 26	1 31.54	+ 6 22.1	1.873	0.919	14.0	21.3	13 W	—	7*
5 1	1 51.09	+ 8 35.6	1.881	0.921	13.4	21.3	12 W	—	6*
5 6	2 10.73	+10 44.6	1.890	0.925	12.8	21.3	12 W	—	6*
5 11	2 30.49	+12 48.1	1.899	0.930	12.2	21.3	11 W	—	5*
5 16	2 50.42	+14 45.2	1.909	0.936	11.7	21.3	11 W	—	5*
5 21	3 10.52	+16 34.9	1.920	0.942	11.2	21.3	10 W	—	4*
5 26	3 30.81	+18 16.5	1.930	0.949	10.8	21.3	10 W	—	4*
5 31	3 51.29	+19 49.0	1.941	0.957	10.4	21.3	10 W	—	3*
6 5	4 11.95	+21 11.7	1.951	0.966	10.1	21.3	10 W	—	3*
6 10	4 32.76	+22 24.3	1.962	0.974	9.8	21.3	9 W	—	3*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
207945 1991 *JW* *(continuation)*									
6 15	4 53.71	+23 26.0	1.972	0.984	9.6	21.4	9 W	—	2*
6 20	5 14.75	+24 16.7	1.983	0.993	9.5	21.4	9 W	—	2*
6 25	5 35.83	+24 56.0	1.993	1.003	9.4	21.4	9 W	1*	1*
6 30	5 56.89	+25 23.9	2.003	1.013	9.3	21.5	9 W	1*	1*
7 5	6 17.88	+25 40.3	2.013	1.023	9.4	21.5	9 W	2*	1*
396730 2003 KX_{16}									
3 2	22 3.77	+19 18.4	0.478	0.618	128.8	21.5	29 W	21*	—
3 4	21 52.77	+20 2.0	0.478	0.633	125.8	21.2	31 W	24*	—
3 6	21 42.20	+20 32.4	0.479	0.649	122.5	21.0	33 W	27*	1*
3 8	21 32.22	+20 51.0	0.482	0.666	118.9	20.8	36 W	30*	5*
3 10	21 22.94	+20 59.4	0.485	0.683	115.3	20.6	38 W	32*	8*
3 12	21 14.42	+20 59.4	0.490	0.702	111.8	20.5	41 W	35*	12*
3 14	21 6.68	+20 52.5	0.495	0.721	108.3	20.3	44 W	37*	15*
3 16	20 59.70	+20 40.3	0.500	0.741	104.9	20.2	46 W	38*	18*
3 18	20 53.43	+20 24.0	0.505	0.761	101.7	20.1	48 W	40*	21*
3 20	20 47.81	+20 4.7	0.511	0.781	98.7	20.1	51 W	42*	24*
3 22	20 42.77	+19 43.2	0.516	0.802	95.8	20.0	53 W	43*	26*
3 27	20 32.27	+18 43.9	0.527	0.854	89.2	19.9	59 W	46*	32*
4 1	20 23.95	+17 41.1	0.535	0.907	83.4	19.9	64 W	48*	38*
4 6	20 16.91	+16 37.6	0.540	0.960	78.2	19.8	70 W	50*	42*
4 11	20 10.46	+15 33.9	0.541	1.012	73.4	19.8	75 W	51*	46*
4 16	20 3.99	+14 29.4	0.539	1.063	68.8	19.7	81 W	52*	49*
4 21	19 57.01	+13 22.3	0.534	1.113	64.4	19.7	87 W	53*	51*
4 26	19 49.08	+12 10.3	0.527	1.162	59.8	19.6	93 W	54*	52
5 1	19 39.87	+10 50.7	0.519	1.210	55.2	19.5	100 W	54*	53
5 6	19 29.13	+ 9 20.9	0.510	1.256	50.2	19.4	107 W	54*	55
5 11	19 16.69	+ 7 38.5	0.502	1.301	45.0	19.3	115 W	53	56
5 16	19 2.52	+ 5 42.0	0.496	1.344	39.4	19.2	123 W	51	58
5 21	18 46.73	+ 3 31.0	0.493	1.386	33.4	19.1	131 W	49	60
5 26	18 29.67	+ 1 6.9	0.495	1.427	27.4	19.0	140 W	46	63
5 31	18 11.88	− 1 26.5	0.504	1.466	21.3	18.9	148 W	44	65
6 5	17 54.06	− 4 3.6	0.519	1.504	15.7	18.8	156 W	41	68
6 10	17 36.88	− 6 38.2	0.542	1.541	11.3	18.8	163 W	38	71
6 15	17 20.93	− 9 5.1	0.572	1.576	9.3	18.9	165 E	36	73
6 20	17 6.69	−11 20.6	0.610	1.610	10.4	19.1	163 E	34	75
6 25	16 54.44	−13 23.0	0.655	1.643	13.2	19.4	158 E	32	77
6 30	16 44.27	−15 12.0	0.706	1.675	16.4	19.7	152 E	30	79
7 5	16 36.16	−16 48.6	0.763	1.705	19.3	20.0	146 E	28	81
7 10	16 29.97	−18 14.1	0.824	1.734	21.9	20.3	141 E	27	82
7 15	16 25.54	−19 30.0	0.889	1.762	24.1	20.6	135 E	25	84
7 20	16 22.69	−20 38.0	0.958	1.788	25.9	20.8	130 E	24	85
7 25	16 21.26	−21 39.2	1.030	1.814	27.3	21.1	125 E	23*	86
7 30	16 21.09	−22 34.8	1.104	1.838	28.5	21.3	120 E	22*	87
8 4	16 22.01	−23 25.7	1.180	1.861	29.4	21.5	116 E	21*	87
481965 2009 EB_1									
3 2	22 20.98	− 9 19.2	1.579	0.614	12.9	21.4	8 W	—	2*
3 7	22 51.75	− 7 23.9	1.586	0.605	8.5	21.2	5 W	—	—
3 12	23 22.23	− 5 20.0	1.596	0.605	4.3	21.0	3 W	—	—
3 17	23 52.21	− 3 10.3	1.608	0.615	3.5	21.0	2 E	—	—
3 22	0 21.54	− 0 57.9	1.622	0.632	6.7	21.3	4 E	—	—
393569 2003 JC_{13}									
3 2	22 37.95	− 5 31.5	1.765	0.779	5.0	21.4	4 W	—	—
3 7	23 2.29	− 3 28.3	1.752	0.762	3.6	21.3	3 W	—	—
3 12	23 26.90	− 1 21.5	1.740	0.748	2.7	21.2	2 W	—	—
3 17	23 51.78	+ 0 47.0	1.731	0.738	3.2	21.2	2 E	—	—
3 22	0 16.91	+ 2 55.5	1.724	0.732	4.9	21.2	4 E	—	—
3 27	0 42.24	+ 5 1.8	1.718	0.730	7.1	21.3	5 E	—	—
4 1	1 7.74	+ 7 4.1	1.715	0.733	9.4	21.4	7 E	—	—
237566 2001 BW_1									
3 2	22 44.78	+10 47.6	4.451	3.522	5.0	21.5	18 W	8*	—
3 12	22 56.14	+12 14.7	4.471	3.537	4.9	21.5	18 W	11*	—
3 22	23 7.35	+13 45.7	4.473	3.550	5.4	21.5	20 W	14*	1*
4 1	23 18.36	+15 20.0	4.459	3.562	6.4	21.6	23 W	16*	7*
4 11	23 29.09	+16 57.1	4.427	3.574	7.6	21.6	28 W	19*	13*
452773 2006 DM_{14}									
3 2	22 48.46	− 3 51.6	3.003	2.015	1.7	21.3	3 W	—	—
3 12	23 9.07	− 1 16.7	2.940	1.953	2.8	21.3	5 W	—	—
3 22	23 30.42	+ 1 27.2	2.870	1.892	4.7	21.3	9 W	1*	2*
4 1	23 52.61	+ 4 19.3	2.796	1.832	6.7	21.3	12 W	3*	5*
4 11	0 15.78	+ 7 18.1	2.718	1.773	8.7	21.2	16 W	4*	8*
4 21	0 40.11	+10 22.2	2.638	1.716	10.8	21.2	19 W	6*	11*
5 1	1 5.78	+13 29.2	2.559	1.661	12.7	21.1	21 W	7*	13*
5 11	1 33.00	+16 35.8	2.482	1.610	14.6	21.0	24 W	9*	15*
5 21	2 1.99	+19 38.0	2.409	1.561	16.4	21.0	26 W	11*	16*
5 31	2 32.91	+22 30.8	2.341	1.517	18.0	20.9	28 W	13*	17*
6 10	3 5.88	+25 7.9	2.280	1.478	19.5	20.8	29 W	15*	17*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
452773 2006 DM_{14} *(continuation)*									
6 20	3 40.88	+27 22.7	2.226	1.445	20.9	20.8	30 W	17*	17*
6 30	4 17.69	+29 8.5	2.180	1.418	22.1	20.7	32 W	19*	17*
7 10	4 55.85	+30 19.2	2.142	1.399	23.1	20.7	33 W	21*	16*
7 20	5 34.75	+30 50.7	2.113	1.387	24.0	20.7	34 W	24*	15*
7 30	6 13.54	+30 41.4	2.090	1.383	24.7	20.7	35 W	26*	15*
8 9	6 51.44	+29 52.5	2.073	1.387	25.4	20.7	36 W	27*	15*
8 19	7 27.76	+28 28.1	2.061	1.399	26.1	20.7	37 W	29*	15*
8 29	8 2.01	+26 33.9	2.052	1.419	26.7	20.7	39 W	31*	15*
9 8	8 33.93	+24 16.4	2.045	1.446	27.3	20.8	41 W	33*	16*
9 18	9 3.45	+21 42.1	2.037	1.479	27.9	20.8	43 W	36*	18*
9 28	9 30.59	+18 57.0	2.027	1.518	28.5	20.9	46 W	38*	20*
10 8	9 55.46	+16 6.1	2.014	1.562	29.1	21.0	50 W	41*	22*
10 18	10 18.20	+13 13.6	1.996	1.610	29.7	21.0	53 W	43*	25*
10 28	10 38.89	+10 22.9	1.972	1.662	30.2	21.1	57 W	46*	29*
11 7	10 57.60	+ 7 36.5	1.942	1.717	30.6	21.1	62 W	47*	33*
11 17	11 14.34	+ 4 56.5	1.904	1.774	30.9	21.2	67 W	48*	38*
11 27	11 29.05	+ 2 24.8	1.860	1.833	31.0	21.2	73 W	47*	44*
12 7	11 41.63	+ 0 2.7	1.810	1.893	30.8	21.2	79 W	45	50*
12 17	11 51.87	− 2 8.3	1.754	1.954	30.2	21.2	86 W	43	58*
12 27	11 59.53	− 4 6.8	1.695	2.016	29.1	21.1	94 W	41	64*
1 6	12 4.33	− 5 51.0	1.634	2.078	27.5	21.1	102 W	39	70*
1 16	12 5.95	− 7 18.8	1.575	2.140	25.3	21.0	111 W	38	71
380091 2013 SH_{57}									
3 2	22 52.86	− 2 48.7	2.631	1.645	2.7	21.5	4 E	—	—
3 12	23 18.85	− 0 6.9	2.637	1.647	2.5	21.5	4 W	—	—
3 22	23 44.65	+ 2 36.2	2.641	1.652	3.4	21.5	6 W	—	—
4 1	0 10.32	+ 5 17.9	2.644	1.660	4.8	21.6	8 W	—	1*
4 11	0 35.89	+ 7 55.8	2.645	1.670	6.3	21.7	11 W	1*	4*
4503 Cleobulus									
3 2	22 55.83	− 8 42.6	4.279	3.288	0.5	21.4	2 E	—	—
3 12	23 8.21	− 7 24.4	4.231	3.246	2.0	21.5	7 W	—	—
3 22	23 20.71	− 6 4.4	4.166	3.204	4.0	21.6	13 W	—	7*
4 1	23 33.28	− 4 43.2	4.084	3.160	6.1	21.6	20 W	—	14*
4 11	23 45.88	− 3 21.4	3.985	3.115	8.1	21.6	26 W	2*	20*
265962 2006 CG									
3 2	22 59.13	− 4 5.6	2.205	1.217	2.9	21.4	4 E	—	—
3 7	23 16.20	− 2 23.2	2.205	1.215	2.6	21.4	3 E	—	—
3 12	23 33.21	− 0 39.9	2.207	1.215	2.3	21.4	3 E	—	—
3 17	23 50.17	+ 1 3.7	2.210	1.217	2.1	21.4	3 E	—	—
3 22	0 7.10	+ 2 46.7	2.215	1.220	1.8	21.4	2 E	—	—
3 27	0 23.98	+ 4 28.5	2.222	1.225	1.5	21.4	2 E	—	—
4 1	0 40.83	+ 6 8.4	2.230	1.232	1.3	21.4	2 W	—	—
4 6	0 57.65	+ 7 45.6	2.240	1.240	1.2	21.4	1 W	—	—
4 11	1 14.42	+ 9 19.5	2.251	1.249	1.2	21.4	1 W	—	—
4 16	1 31.17	+10 49.7	2.263	1.260	1.3	21.5	2 W	—	—
164714 1998 FN_{91}									
3 2	23 10.94	−10 28.9	3.155	2.171	2.6	21.5	6 E	—	—
3 12	23 29.49	− 8 15.8	3.159	2.171	2.3	21.4	5 E	—	—
3 22	23 47.85	− 6 1.8	3.152	2.170	3.7	21.5	8 W	—	1*
4 1	0 6.05	− 3 47.9	3.134	2.168	5.6	21.6	12 W	—	6*
4 11	0 24.13	− 1 34.8	3.105	2.165	7.7	21.7	17 W	—	11*
494710 2005 MO_{13}									
3 2	23 30.86	− 3 43.6	1.536	0.588	17.5	21.5	10 E	3*	1*
3 7	23 58.54	− 1 16.2	1.480	0.555	22.9	21.5	13 E	5*	3*
3 12	0 27.25	+ 1 18.3	1.420	0.530	29.5	21.5	15 E	8*	5*
3 17	0 56.86	+ 3 57.1	1.356	0.514	37.1	21.5	18 E	10*	7*
3 22	1 27.24	+ 6 36.8	1.288	0.509	45.1	21.6	21 E	13*	10*
326683 2002 WP									
3 2	23 46.96	−13 13.3	2.260	1.326	11.0	21.5	15 E	—	9*
3 12	0 16.47	− 9 26.8	2.242	1.295	10.1	21.4	13 E	—	7*
3 22	0 46.15	− 5 30.1	2.225	1.266	9.3	21.3	12 E	—	6*
4 1	1 16.17	− 1 26.5	2.208	1.238	8.4	21.2	10 E	—	4*
4 11	1 46.73	+ 2 39.8	2.193	1.213	7.4	21.1	9 E	—	3*
4 21	2 18.07	+ 6 44.4	2.179	1.190	6.3	21.0	8 E	—	1*
5 1	2 50.41	+10 42.3	2.168	1.171	5.2	20.9	6 E	—	—
5 11	3 23.96	+14 28.0	2.160	1.156	3.9	20.7	4 E	—	—
5 21	3 58.90	+17 55.7	2.155	1.145	2.5	20.6	3 E	—	—
5 31	4 35.31	+20 59.2	2.152	1.138	1.0	20.5	1 E	—	—
6 10	5 13.16	+23 32.4	2.152	1.137	0.5	20.4	1 W	—	—
6 20	5 52.27	+25 30.1	2.155	1.140	1.9	20.6	2 W	—	—
6 30	6 32.27	+26 48.1	2.161	1.149	3.3	20.7	4 W	—	—
7 10	7 12.63	+27 24.0	2.170	1.162	4.6	20.8	5 W	—	—
7 20	7 52.78	+27 17.8	2.182	1.179	5.8	20.9	7 W	—	—
7 30	8 32.13	+26 31.6	2.196	1.199	6.9	21.0	8 W	1*	—
8 9	9 10.17	+25 9.6	2.212	1.223	7.8	21.1	9 W	2*	—

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		326683 2002 *WP*						*(continuation)*	
	h m	° ′			°	m	°	°	°
8 19	9 46.62	+23 17.3	2.230	1.250	8.6	21.2	11 W	3*	—
8 29	10 21.32	+21 0.7	2.250	1.278	9.3	21.3	12 W	4*	—
9 8	10 54.26	+18 26.3	2.269	1.308	10.0	21.4	13 W	5*	—
		163818 2003 RX_7							
3 2	23 49.68	+ 3 47.9	2.162	1.258	14.2	21.5	18 E	12*	2*
3 12	0 19.51	+ 6 21.3	2.128	1.204	13.1	21.3	16 E	10*	1*
3 22	0 51.05	+ 8 56.9	2.088	1.147	12.2	21.1	14 E	8*	—
4 1	1 24.64	+11 30.8	2.041	1.088	11.6	20.9	13 E	6*	—
4 11	2 0.65	+13 57.5	1.990	1.029	11.4	20.8	12 E	5*	1*
4 21	2 39.45	+16 10.7	1.936	0.972	11.8	20.6	11 E	4*	2*
5 1	3 21.29	+18 1.9	1.881	0.918	13.0	20.4	12 E	4*	3*
5 6	3 43.39	+18 46.4	1.853	0.893	13.9	20.4	12 E	4*	4*
5 11	4 6.24	+19 21.8	1.825	0.870	15.0	20.3	13 E	4*	5*
5 16	4 29.83	+19 47.0	1.797	0.849	16.4	20.3	14 E	3*	6*
5 21	4 54.09	+20 0.9	1.770	0.831	17.9	20.3	15 E	3*	7*
5 26	5 18.93	+20 2.4	1.744	0.816	19.6	20.3	16 E	3*	8*
5 31	5 44.23	+19 51.1	1.719	0.805	21.5	20.3	17 E	3*	10*
6 5	6 9.87	+19 26.3	1.695	0.797	23.5	20.3	18 E	3*	11*
6 10	6 35.70	+18 48.2	1.673	0.794	25.5	20.3	20 E	3*	13*
6 15	7 1.60	+17 57.2	1.653	0.794	27.4	20.3	21 E	3*	14*
6 20	7 27.43	+16 53.8	1.635	0.799	29.3	20.4	23 E	3*	16*
6 25	7 53.06	+15 39.1	1.620	0.808	31.0	20.4	24 E	3*	18*
6 30	8 18.38	+14 14.5	1.608	0.820	32.5	20.5	26 E	3*	19*
7 5	8 43.30	+12 41.4	1.600	0.836	33.7	20.5	27 E	3*	21*
7 10	9 7.76	+11 1.4	1.596	0.855	34.7	20.6	29 E	3*	22*
7 15	9 31.71	+ 9 16.1	1.596	0.876	35.4	20.7	30 E	3*	24*
7 20	9 55.11	+ 7 27.2	1.599	0.900	35.8	20.8	31 E	3*	25*
7 25	10 17.94	+ 5 36.2	1.607	0.926	36.0	20.8	32 E	3*	26*
7 30	10 40.21	+ 3 44.6	1.619	0.952	35.9	20.9	33 E	4*	27*
8 4	11 1.89	+ 1 53.6	1.635	0.980	35.7	21.0	34 E	4*	28*
8 9	11 23.01	+ 0 4.6	1.654	1.009	35.2	21.1	35 E	4*	29*
8 14	11 43.59	− 1 41.7	1.677	1.038	34.7	21.1	36 E	4*	30*
8 19	12 3.64	− 3 24.5	1.703	1.067	34.0	21.2	36 E	5*	30*
8 24	12 23.20	− 5 3.0	1.733	1.097	33.1	21.3	36 E	5*	30*
8 29	12 42.29	− 6 36.9	1.764	1.126	32.2	21.4	37 E	5*	31*
9 3	13 0.92	− 8 5.7	1.798	1.155	31.3	21.4	36 E	6*	30*
9 8	13 19.14	− 9 29.1	1.834	1.184	30.3	21.5	36 E	6*	30*
		470007 2006 OQ_{21}							
3 2	23 53.09	+ 0 46.7	2.516	1.596	10.6	21.5	17 E	10*	4*
3 12	0 18.88	+ 4 1.2	2.548	1.605	8.9	21.5	14 E	8*	2*
3 22	0 44.68	+ 7 11.8	2.580	1.617	7.2	21.4	12 E	6*	—
4 1	1 10.56	+10 15.8	2.611	1.632	5.6	21.4	9 E	3*	—
4 11	1 36.55	+13 10.9	2.641	1.650	4.0	21.4	7 E	1*	—
4 21	2 2.73	+15 54.7	2.670	1.670	2.6	21.3	4 E	—	—
5 1	2 29.09	+18 25.5	2.697	1.693	2.1	21.3	4 W	—	—
5 11	2 55.63	+20 41.4	2.722	1.718	2.8	21.4	5 W	—	—
		250008 2002 AO_{31}							
3 12	0 3.37	+ 1 14.6	2.677	1.705	5.6	21.4	10 E	3*	—
3 22	0 27.68	+ 4 3.0	2.671	1.684	3.8	21.3	6 E	—	—
4 1	0 52.50	+ 6 51.4	2.662	1.666	2.1	21.2	3 E	—	—
4 11	1 17.89	+ 9 37.3	2.651	1.649	0.8	21.0	1 W	—	—
4 21	1 43.92	+12 18.3	2.637	1.635	1.8	21.1	3 W	—	—
5 1	2 10.67	+14 51.7	2.623	1.623	3.4	21.2	6 W	—	—
5 11	2 38.15	+17 14.8	2.607	1.613	5.1	21.2	8 W	—	2*
5 21	3 6.39	+19 24.8	2.590	1.607	6.7	21.3	11 W	—	4*
5 31	3 35.33	+21 19.1	2.573	1.603	8.3	21.4	13 W	2*	6*
6 10	4 4.89	+22 55.2	2.556	1.603	9.9	21.4	16 W	4*	8*
6 20	4 34.94	+24 11.2	2.537	1.605	11.5	21.5	18 W	6*	10*
		139345 2001 KA_{67}							
3 12	0 11.04	−14 47.0	3.131	2.189	6.9	21.4	15 E	—	8*
3 22	0 28.16	−12 53.4	3.065	2.116	6.8	21.3	15 E	—	5*
4 1	0 46.06	−10 57.0	2.985	2.040	7.5	21.2	16 E	—	2*
4 11	1 4.81	− 8 57.7	2.891	1.960	8.9	21.1	18 W	—	5*
4 21	1 24.57	− 6 55.3	2.785	1.876	10.7	21.0	20 W	—	9*
5 1	1 45.51	− 4 49.5	2.669	1.787	12.8	20.8	23 W	—	13*
5 11	2 7.86	− 2 39.9	2.544	1.694	15.1	20.7	26 W	—	17*
5 21	2 31.95	− 0 26.2	2.412	1.596	17.6	20.5	28 W	—	21*
5 31	2 58.16	+ 1 52.1	2.277	1.493	20.1	20.4	30 W	—	24*
6 10	3 27.00	+ 4 15.3	2.140	1.385	22.7	20.1	32 W	—	26*
6 20	3 59.12	+ 6 43.3	2.007	1.272	25.4	19.9	32 W	—	26*
6 30	4 35.33	+ 9 14.6	1.880	1.154	28.0	19.6	32 W	2*	26*
7 5	4 55.25	+10 30.5	1.821	1.093	29.2	19.5	32 W	4*	25*
7 10	5 16.57	+11 45.5	1.765	1.031	30.2	19.3	31 W	5*	24*
7 15	5 39.41	+12 58.6	1.713	0.969	31.1	19.1	30 W	6*	23*
7 20	6 3.90	+14 8.0	1.667	0.905	31.8	18.9	28 W	7*	21*
7 25	6 30.15	+15 11.9	1.627	0.842	32.0	18.7	26 W	8*	18*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		139345 2001 KA_{67}						*(continuation)*	
	h m	° ′			°	m	°	°	°
7 30	6 58.24	+16 7.4	1.592	0.780	31.7	18.5	24 W	8*	16*
8 4	7 28.19	+16 51.3	1.565	0.720	30.7	18.3	21 W	8*	13*
8 9	7 59.98	+17 19.8	1.546	0.664	28.6	18.0	18 W	7*	9*
8 14	8 33.45	+17 28.4	1.533	0.615	25.5	17.7	15 W	6*	6*
8 19	9 8.32	+17 12.5	1.527	0.575	21.1	17.5	12 W	5*	2*
8 24	9 44.12	+16 28.3	1.526	0.548	16.1	17.2	9 W	3*	—
8 29	10 20.18	+15 13.5	1.529	0.537	12.0	17.0	6 W	—	—
9 3	10 55.76	+13 28.8	1.537	0.545	11.5	17.0	6 E	—	—
9 8	11 30.16	+11 18.6	1.548	0.569	14.4	17.2	8 E	2*	—
9 13	12 2.91	+ 8 49.6	1.565	0.607	18.0	17.5	11 E	4*	—
9 18	12 33.78	+ 6 9.6	1.589	0.655	20.9	17.8	13 E	6*	4*
9 23	13 2.73	+ 3 25.8	1.619	0.710	22.8	18.1	16 E	7*	6*
9 28	13 29.83	+ 0 44.0	1.657	0.769	23.8	18.3	18 E	9*	9*
10 3	13 55.22	− 1 51.4	1.701	0.831	24.0	18.6	20 E	9*	11*
10 8	14 19.07	− 4 17.7	1.751	0.894	23.7	18.8	21 E	10*	12*
10 13	14 41.51	− 6 33.1	1.807	0.957	22.9	19.0	22 E	10*	13*
10 18	15 2.70	− 8 36.8	1.867	1.020	21.9	19.2	22 E	10*	14*
10 28	15 41.81	−12 8.6	1.996	1.143	19.4	19.5	22 E	10*	14*
11 7	16 17.24	−14 56.1	2.133	1.261	16.5	19.7	21 E	9*	12*
11 17	16 49.67	−17 4.9	2.271	1.375	13.6	20.0	19 E	8*	10*
11 22	17 4.92	−17 56.7	2.339	1.430	12.1	20.1	18 E	7*	9*
11 27	17 19.60	−18 41.0	2.406	1.483	10.6	20.1	16 E	6*	7*
12 2	17 33.75	−19 18.5	2.471	1.536	9.2	20.2	14 E	5*	5*
12 7	17 47.40	−19 49.8	2.534	1.587	7.7	20.3	12 E	4*	3*
12 17	18 13.37	−20 36.2	2.652	1.685	4.9	20.4	8 E	1*	—
12 27	18 37.71	−21 4.3	2.758	1.779	2.2	20.4	4 E	—	—
1 6	19 0.59	−21 17.3	2.850	1.868	1.1	20.5	2 W	—	—
1 16	19 22.13	−21 18.4	2.926	1.952	3.4	20.8	7 W	—	—
		480880 2001 XA_{20}							
3 12	0 16.42	+ 4 15.1	2.606	1.660	8.4	21.5	14 E	8*	1*
3 22	0 41.94	+ 7 6.8	2.608	1.642	6.7	21.4	11 E	5*	—
4 1	1 8.08	+ 9 56.3	2.609	1.627	5.2	21.3	8 E	2*	—
4 11	1 34.88	+12 40.8	2.610	1.616	3.7	21.2	6 E	—	—
4 21	2 2.38	+15 17.1	2.610	1.609	2.4	21.1	4 E	—	—
5 1	2 30.61	+17 42.2	2.611	1.605	1.7	21.0	3 W	—	—
5 11	2 59.51	+19 53.1	2.612	1.605	2.3	21.1	4 W	—	—
5 21	3 29.03	+21 47.0	2.613	1.609	3.5	21.2	6 W	—	—
5 31	3 59.05	+23 21.5	2.615	1.617	4.9	21.2	8 W	—	—
6 10	4 29.36	+24 34.8	2.617	1.628	6.3	21.3	10 W	1*	2*
6 20	4 59.78	+25 25.9	2.619	1.643	7.8	21.4	13 W	3*	4*
		303250 2004 RU_{10}							
3 12	0 20.85	− 7 38.1	2.434	1.486	9.0	21.5	14 E	—	7*
3 22	0 42.79	− 5 19.4	2.433	1.468	7.4	21.4	11 E	—	5*
4 1	1 5.03	− 2 59.8	2.416	1.440	6.5	21.3	9 E	—	2*
4 11	1 27.83	− 0 39.2	2.383	1.403	6.6	21.2	9 E	—	—
4 21	1 51.49	+ 1 42.5	2.334	1.357	7.5	21.1	10 W	—	—
5 1	2 16.36	+ 4 5.4	2.271	1.301	9.1	21.1	12 W	—	3*
5 11	2 42.86	+ 6 29.7	2.193	1.234	11.0	20.9	13 W	—	5*
5 21	3 11.57	+ 8 55.4	2.104	1.155	13.0	20.8	15 W	—	8*
5 31	3 43.25	+11 22.0	2.004	1.065	15.0	20.6	16 W	—	9*
6 10	4 18.92	+13 48.4	1.896	0.961	16.8	20.3	16 W	—	10*
6 15	4 38.69	+15 0.5	1.840	0.903	17.5	20.1	15 W	—	9*
6 20	5 0.05	+16 10.9	1.783	0.842	18.0	19.9	15 W	—	9*
6 25	5 23.26	+17 18.6	1.725	0.776	18.1	19.7	14 W	—	8*
6 30	5 48.66	+18 21.6	1.667	0.707	17.7	19.4	12 W	—	6*
7 5	6 16.62	+19 17.5	1.608	0.633	16.3	19.0	10 W	—	4*
7 10	6 47.60	+20 2.6	1.549	0.556	13.5	18.6	7 W	—	1*
7 15	7 22.10	+20 31.3	1.487	0.477	8.2	17.9	4 W	—	—
7 20	8 0.53	+20 35.3	1.418	0.402	1.4	17.1	1 E	—	—
7 22	8 17.03	+20 27.5	1.387	0.374	7.0	17.2	3 E	—	—
7 24	8 34.09	+20 13.0	1.353	0.350	13.8	17.3	5 E	—	—
7 26	8 51.59	+19 50.9	1.315	0.331	22.0	17.4	7 E	—	—
7 28	9 9.34	+19 20.3	1.273	0.317	31.3	17.5	9 E	—	2*
7 30	9 27.05	+18 40.7	1.227	0.311	41.5	17.6	12 E	2*	4*
8 1	9 44.43	+17 52.0	1.177	0.312	52.0	17.8	14 E	3*	7*
8 3	10 1.25	+16 54.4	1.125	0.322	62.0	18.1	16 E	4*	9*
8 5	10 17.35	+15 48.6	1.072	0.338	71.1	18.4	18 E	5*	11*
8 7	10 32.75	+14 35.0	1.020	0.359	78.9	18.7	20 E	6*	13*
8 9	10 47.52	+13 13.9	0.970	0.385	85.3	19.0	22 E	7*	15*
8 11	11 1.79	+11 45.7	0.922	0.413	90.5	19.2	24 E	8*	17*
8 13	11 15.71	+10 10.2	0.877	0.443	94.5	19.4	26 E	8*	19*
8 15	11 29.43	+ 8 27.6	0.835	0.474	97.5	19.6	28 E	9*	20*
8 17	11 43.07	+ 6 37.7	0.797	0.506	99.6	19.7	30 E	9*	22*
8 19	11 56.74	+ 4 40.7	0.762	0.537	100.9	19.8	31 E	9*	25*

303250 2004 RU_{10} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
8 24	12 31.63	− 0 41.5	0.690	0.615	101.4	19.9	37 E	10*	30*
8 29	13 8.24	− 6 37.2	0.640	0.689	98.8	19.9	42 E	10*	36*
9 3	13 46.89	−12 46.2	0.610	0.760	94.2	19.8	49 E	10*	43*
9 8	14 27.25	−18 40.3	0.601	0.827	88.3	19.7	55 E	9*	49*
9 10	14 43.68	−20 51.1	0.603	0.852	85.8	19.7	58 E	9*	51*
9 12	15 0.16	−22 53.5	0.607	0.877	83.3	19.6	60 E	9*	54*
9 14	15 16.60	−24 46.3	0.615	0.901	80.8	19.6	62 E	9*	56*
9 16	15 32.91	−26 28.8	0.624	0.924	78.3	19.6	64 E	9*	58*
9 18	15 49.01	−28 0.6	0.636	0.947	76.0	19.7	66 E	9*	60*
9 23	16 27.82	−31 4.2	0.674	1.002	70.5	19.7	70 E	9*	63*
9 28	17 3.87	−33 7.9	0.721	1.053	65.7	19.8	73 E	9*	66*
10 3	17 36.67	−34 22.9	0.775	1.101	61.6	20.0	75 E	9*	68*
10 8	18 6.18	−35 0.8	0.835	1.145	58.1	20.1	77 E	9*	69*
10 10	18 17.11	−35 7.9	0.860	1.162	56.8	20.2	77 E	9*	70*
10 12	18 27.58	−35 11.1	0.886	1.179	55.7	20.2	77 E	9*	70*
10 14	18 37.59	−35 11.0	0.912	1.195	54.6	20.3	77 E	9*	70*
10 16	18 47.19	−35 8.0	0.938	1.210	53.5	20.3	77 E	9*	70*
10 18	18 56.40	−35 2.5	0.965	1.225	52.5	20.4	77 E	10*	70*
10 23	19 17.85	−34 39.5	1.033	1.260	50.2	20.5	77 E	10*	70*
10 28	19 37.36	−34 6.4	1.101	1.293	48.2	20.7	76 E	11*	70*
11 2	19 55.24	−33 25.9	1.170	1.323	46.4	20.8	75 E	12*	69*
11 7	20 11.78	−32 40.0	1.239	1.351	44.7	20.9	74 E	12*	68*
11 12	20 27.20	−31 49.9	1.308	1.376	43.2	21.0	72 E	13*	66*
11 17	20 41.71	−30 56.5	1.375	1.398	41.8	21.2	70 E	14*	64*
11 22	20 55.45	−30 0.5	1.442	1.418	40.4	21.2	69 E	15*	62*
11 27	21 8.56	−29 2.4	1.507	1.436	39.1	21.3	67 E	16*	60*
12 2	21 21.12	−28 2.5	1.570	1.452	37.8	21.4	65 E	17*	57*
12 7	21 33.23	−27 1.1	1.631	1.465	36.6	21.5	62 E	18*	55*

88188 2000 XH_{44}

3 12	0 24.09	+ 7 53.0	3.617	2.687	6.5	21.4	18 E	12*	1*
3 22	0 38.37	+ 9 34.2	3.635	2.669	4.5	21.3	12 E	6*	—
4 1	0 52.98	+11 16.6	3.637	2.649	2.7	21.2	7 E	1*	—
4 11	1 7.90	+12 59.8	3.623	2.627	2.1	21.1	5 W	—	—
4 21	1 23.12	+14 43.1	3.594	2.604	3.2	21.2	8 W	1*	—
5 1	1 38.66	+16 26.1	3.549	2.579	5.1	21.2	13 W	4*	5*
5 11	1 54.49	+18 8.0	3.491	2.553	7.2	21.3	18 W	7*	10*
5 21	2 10.65	+19 48.4	3.418	2.525	9.3	21.3	24 W	10*	15*
5 31	2 27.12	+21 26.9	3.333	2.496	11.4	21.3	29 W	13*	19*
6 10	2 43.91	+23 3.0	3.236	2.465	13.4	21.3	34 W	17*	22*
6 20	3 1.04	+24 36.2	3.128	2.433	15.4	21.3	40 W	22*	25*
6 30	3 18.48	+26 6.2	3.010	2.399	17.4	21.2	45 W	27*	28*
7 10	3 36.22	+27 32.6	2.884	2.364	19.3	21.1	50 W	33*	29*
7 20	3 54.26	+28 55.3	2.749	2.327	21.1	21.1	55 W	40*	30*
7 30	4 12.54	+30 14.0	2.608	2.289	22.8	21.0	61 W	46*	30*
8 9	4 31.01	+31 28.6	2.461	2.249	24.3	20.8	66 W	53*	30*
8 19	4 49.62	+32 39.5	2.310	2.208	25.8	20.7	71 W	60*	30*
8 29	5 8.24	+33 46.9	2.156	2.166	27.0	20.6	77 W	66*	29*
9 8	5 26.76	+34 51.4	2.001	2.122	28.1	20.4	83 W	72*	29*
9 18	5 45.02	+35 53.9	1.846	2.077	28.9	20.2	88 W	78*	28*
9 28	6 2.79	+36 55.8	1.691	2.030	29.5	20.0	94 W	82*	27*
10 8	6 19.81	+37 58.6	1.540	1.983	29.7	19.7	100 W	83	26*
10 13	6 27.93	+38 31.0	1.466	1.959	29.7	19.6	104 W	84	25
10 18	6 35.71	+39 4.5	1.393	1.934	29.5	19.4	107 W	84	25
10 23	6 43.09	+39 39.4	1.322	1.909	29.3	19.3	110 W	85	24
10 28	6 50.00	+40 15.8	1.252	1.884	28.9	19.1	114 W	85	24
11 2	6 56.36	+40 54.2	1.185	1.859	28.4	19.0	117 W	86	23
11 7	7 2.09	+41 34.7	1.119	1.834	27.7	18.8	121 W	87	22
11 12	7 7.05	+42 17.6	1.056	1.809	26.9	18.6	124 W	87	22
11 17	7 11.12	+43 3.0	0.995	1.783	25.9	18.4	128 W	88	21
11 22	7 14.15	+43 50.6	0.938	1.757	24.8	18.2	132 W	89	20
11 27	7 16.02	+44 40.0	0.883	1.732	23.5	18.0	136 W	90	19
12 2	7 16.57	+45 30.5	0.832	1.706	22.1	17.8	139 W	89	18
12 7	7 15.64	+46 21.0	0.785	1.680	20.6	17.6	143 W	89	18
12 12	7 13.08	+47 9.6	0.741	1.654	19.2	17.4	147 W	88	17
12 17	7 8.80	+47 54.1	0.701	1.628	17.8	17.2	150 W	87	16
12 22	7 2.83	+48 31.5	0.666	1.603	16.7	17.0	152 W	86	15
12 27	6 55.32	+48 58.5	0.635	1.577	16.1	16.9	154 W	86	15
1 1	6 46.57	+49 11.9	0.608	1.552	16.2	16.7	154 W	86	15
1 6	6 37.04	+49 8.9	0.585	1.527	17.2	16.7	153 E	86	15
1 8	6 33.13	+49 2.7	0.578	1.517	17.8	16.6	152 E	86	15
1 10	6 29.23	+48 53.4	0.570	1.508	18.5	16.6	151 E	86	15
1 12	6 25.38	+48 41.1	0.564	1.498	19.3	16.6	150 E	86	15
1 14	6 21.63	+48 25.7	0.558	1.488	20.2	16.6	148 E	87	16
1 16	6 18.03	+48 7.3	0.553	1.479	21.2	16.6	147 E	87	16

483533 2003 UQ_{24}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 12	0 51.64	−10 37.5	3.508	2.611	8.1	21.5	22 E	3*	16*
3 22	1 5.92	− 8 15.6	3.498	2.565	6.7	21.4	17 E	—	11*
4 1	1 20.66	− 5 54.4	3.475	2.519	5.6	21.3	14 E	—	7*
4 11	1 35.82	− 3 34.3	3.439	2.471	5.1	21.2	13 E	—	3*
4 21	1 51.42	− 1 15.5	3.391	2.423	5.4	21.1	13 W	—	1*
5 1	2 7.47	+ 1 1.9	3.331	2.375	6.5	21.1	15 W	—	6*
5 11	2 23.98	+ 3 17.6	3.259	2.326	8.0	21.1	19 W	—	11*
5 21	2 40.99	+ 5 31.5	3.177	2.276	9.8	21.0	23 W	—	16*
5 31	2 58.53	+ 7 43.6	3.086	2.227	11.8	21.0	27 W	—	21*
6 10	3 16.64	+ 9 53.6	2.985	2.177	13.8	21.0	31 W	2*	25*
6 20	3 35.38	+12 1.5	2.877	2.126	15.9	20.9	35 W	7*	28*
6 30	3 54.82	+14 7.4	2.762	2.076	18.0	20.8	39 W	13*	31*
7 10	4 15.01	+16 11.3	2.641	2.027	20.2	20.7	43 W	19*	33*
7 20	4 36.07	+18 13.2	2.516	1.977	22.3	20.7	48 W	25*	34*
7 30	4 58.08	+20 13.3	2.388	1.928	24.4	20.6	52 W	32*	34*
8 9	5 21.17	+22 11.7	2.257	1.881	26.4	20.4	56 W	38*	34*
8 19	5 45.48	+24 8.5	2.127	1.834	28.4	20.3	60 W	45*	33*
8 29	6 11.15	+26 3.7	1.997	1.789	30.3	20.2	63 W	50*	32*
9 8	6 38.38	+27 57.2	1.870	1.745	32.1	20.0	67 W	56*	30*
9 13	6 52.64	+28 53.1	1.808	1.724	33.0	20.0	69 W	58*	29*
9 18	7 7.35	+29 48.3	1.747	1.704	33.8	19.9	71 W	61*	29*
9 23	7 22.54	+30 42.8	1.688	1.684	34.6	19.8	73 W	63*	28*
9 28	7 38.23	+31 36.2	1.630	1.666	35.4	19.7	74 W	65*	27*
10 3	7 54.43	+32 28.4	1.575	1.647	36.1	19.6	76 W	68*	26*
10 8	8 11.17	+33 19.1	1.521	1.630	36.8	19.6	78 W	70*	25*
10 13	8 28.43	+34 8.0	1.470	1.614	37.4	19.5	79 W	71*	24*
10 18	8 46.20	+34 54.6	1.422	1.598	38.0	19.4	81 W	73*	23*
10 23	9 4.45	+35 38.6	1.376	1.584	38.5	19.3	82 W	75*	22*
10 28	9 23.16	+36 19.5	1.333	1.570	39.0	19.3	84 W	77*	21*
11 2	9 42.27	+36 57.0	1.292	1.558	39.4	19.2	85 W	78*	20*
11 7	10 1.70	+37 30.6	1.255	1.547	39.7	19.1	86 W	79*	19*
11 12	10 21.36	+38 0.0	1.221	1.536	40.1	19.0	87 W	80*	18*
11 17	10 41.13	+38 25.2	1.189	1.528	40.3	19.0	89 W	82*	18*
11 22	11 0.87	+38 46.0	1.161	1.520	40.5	18.9	90 W	83*	17*
11 27	11 20.46	+39 2.6	1.135	1.514	40.7	18.9	91 W	83*	17*
12 2	11 39.74	+39 15.1	1.112	1.509	40.8	18.8	92 W	84*	17*
12 7	11 58.58	+39 24.1	1.091	1.506	40.8	18.8	93 W	84*	17*
12 12	12 16.83	+39 30.3	1.073	1.503	40.8	18.7	94 W	85	17*
12 17	12 34.36	+39 34.4	1.056	1.503	40.7	18.7	95 W	85	17*
12 22	12 51.03	+39 37.2	1.041	1.503	40.6	18.7	96 W	85	18*
12 27	13 6.76	+39 39.3	1.028	1.505	40.4	18.6	97 W	85	18*
1 1	13 21.45	+39 41.6	1.015	1.509	40.2	18.6	98 W	85	19*
1 6	13 35.02	+39 44.9	1.004	1.514	39.9	18.6	99 W	85	20*
1 11	13 47.40	+39 49.9	0.993	1.520	39.5	18.6	101 W	85	21*
1 16	13 58.51	+39 57.0	0.982	1.527	39.1	18.5	102 W	85	21*

31221 1998 BP_{26}

3 12	1 4.69	+21 27.3	2.546	1.810	17.9	21.4	34 E	28*	4*
3 22	1 27.60	+23 36.1	2.565	1.779	16.5	21.4	30 E	24*	1*
4 1	1 51.84	+25 42.1	2.577	1.746	15.0	21.3	27 E	21*	—
4 11	2 17.51	+27 42.4	2.580	1.712	13.7	21.2	24 E	18*	—
4 21	2 44.71	+29 33.8	2.577	1.678	12.4	21.1	21 E	15*	—
5 1	3 13.52	+31 12.7	2.567	1.643	11.2	21.0	19 E	12*	—
5 11	3 43.94	+32 35.2	2.552	1.609	10.2	20.9	16 E	10*	—
5 21	4 15.93	+33 36.9	2.533	1.574	9.2	20.8	14 E	8*	—
5 31	4 49.31	+34 13.9	2.511	1.539	8.4	20.7	13 E	6*	—
6 10	5 23.79	+34 22.1	2.486	1.505	7.8	20.6	12 E	5*	—
6 20	5 58.98	+33 58.6	2.459	1.472	7.3	20.5	11 E	3*	—
6 30	6 34.45	+33 1.1	2.432	1.440	6.9	20.4	10 W	2*	—
7 10	7 9.70	+31 29.0	2.403	1.410	6.8	20.4	9 W	3*	—
7 20	7 44.36	+29 22.7	2.376	1.382	6.8	20.3	9 W	3*	—
7 30	8 18.12	+26 44.2	2.348	1.357	7.0	20.2	9 W	3*	—
8 9	8 50.80	+23 36.3	2.322	1.334	7.4	20.2	10 W	4*	—
8 19	9 22.36	+20 2.3	2.298	1.315	8.0	20.2	10 W	4*	—
8 29	9 52.87	+16 6.3	2.275	1.300	8.8	20.2	11 W	5*	—
9 8	10 22.45	+11 52.5	2.254	1.289	9.8	20.2	13 W	6*	1*
9 18	10 51.33	+ 7 25.2	2.235	1.282	10.9	20.2	14 W	7*	3*
9 28	11 19.73	+ 2 48.9	2.218	1.280	12.0	20.2	15 W	8*	5*
10 8	11 47.90	− 1 52.0	2.203	1.283	13.3	20.2	17 W	9*	7*
10 18	12 16.11	− 6 33.0	2.191	1.290	14.6	20.3	19 W	9*	9*
10 28	12 44.59	−11 9.4	2.180	1.301	15.8	20.3	21 W	10*	12*
11 7	13 13.59	−15 36.8	2.171	1.317	17.1	20.4	23 W	10*	14*
11 17	13 43.32	−19 50.5	2.164	1.337	18.3	20.5	25 W	9*	17*
11 22	13 58.50	−21 50.9	2.161	1.348	18.9	20.5	26 W	9*	18*
11 27	14 13.91	−23 46.3	2.158	1.359	19.5	20.5	27 W	9*	20*
12 2	14 29.55	−25 36.1	2.155	1.372	20.0	20.6	28 W	8*	21*
12 7	14 45.45	−27 19.9	2.152	1.385	20.6	20.6	30 W	8*	23*
12 12	15 1.58	−28 57.3	2.149	1.399	21.2	20.6	31 W	7*	24*
12 17	15 17.95	−30 27.9	2.146	1.413	21.7	20.7	32 W	7*	25*
12 22	15 34.52	−31 51.3	2.143	1.428	22.3	20.7	33 W	6*	27*
12 27	15 51.27	−33 7.3	2.139	1.444	22.8	20.7	35 W	5*	28*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
31221 1998 BP_{26} *(continuation)*									
1 1	16 8.16	−34 15.5	2.134	1.459	23.4	20.8	36 W	5*	30*
1 6	16 25.16	−35 16.0	2.129	1.475	23.9	20.8	37 W	4*	31*
1 11	16 42.22	−36 8.6	2.123	1.492	24.5	20.8	39 W	3*	33*
1 16	16 59.29	−36 53.4	2.117	1.509	25.0	20.9	40 W	3*	34*
329437 2002 OA_{22}									
3 12	1 14.42	+ 4 32.7	1.595	0.848	32.7	21.4	27 E	18*	14*
3 17	1 34.21	+ 6 19.2	1.565	0.826	34.1	21.4	28 E	18*	14*
3 22	1 54.58	+ 8 5.6	1.532	0.805	35.7	21.3	28 E	18*	15*
3 27	2 15.58	+ 9 51.1	1.498	0.785	37.6	21.3	29 E	19*	15*
4 1	2 37.25	+11 34.7	1.461	0.766	39.7	21.2	29 E	19*	16*
4 6	2 59.63	+13 15.1	1.422	0.750	42.1	21.2	30 E	20*	17*
4 11	3 22.74	+14 51.3	1.382	0.735	44.7	21.1	31 E	20*	17*
4 16	3 46.60	+16 22.0	1.340	0.724	47.4	21.1	32 E	21*	18*
4 21	4 11.21	+17 45.7	1.297	0.715	50.4	21.1	33 E	21*	19*
4 26	4 36.55	+19 1.1	1.253	0.710	53.4	21.1	34 E	22*	20*
5 1	5 2.57	+20 6.8	1.210	0.708	56.4	21.1	36 E	23*	22*
5 6	5 29.21	+21 1.4	1.166	0.710	59.3	21.1	37 E	23*	23*
5 11	5 56.40	+21 43.6	1.124	0.715	62.0	21.1	39 E	24*	24*
5 16	6 24.03	+22 12.3	1.083	0.724	64.5	21.2	40 E	24*	25*
5 21	6 52.03	+22 26.6	1.044	0.735	66.8	21.2	42 E	25*	27*
5 26	7 20.27	+22 25.6	1.008	0.750	68.6	21.2	44 E	25*	28*
5 31	7 48.61	+22 8.8	0.975	0.766	70.1	21.2	45 E	26*	30*
6 5	8 16.92	+21 35.9	0.945	0.785	71.1	21.2	47 E	26*	32*
6 10	8 45.05	+20 47.1	0.920	0.805	71.8	21.3	49 E	26*	34*
6 15	9 12.87	+19 43.0	0.898	0.826	72.1	21.3	51 E	27*	36*
6 20	9 40.25	+18 24.5	0.880	0.848	72.0	21.3	53 E	27*	37*
6 25	10 7.08	+16 52.8	0.866	0.870	71.7	21.3	54 E	27*	40*
6 30	10 33.24	+15 9.8	0.857	0.892	71.1	21.3	56 E	27*	42*
7 5	10 58.67	+13 17.5	0.851	0.914	70.2	21.3	58 E	27*	44*
7 10	11 23.32	+11 17.9	0.849	0.936	69.2	21.3	59 E	27*	46*
7 15	11 47.17	+ 9 13.3	0.851	0.958	68.1	21.4	61 E	27*	48*
7 20	12 10.25	+ 7 5.5	0.856	0.978	66.9	21.4	62 E	26*	50*
7 25	12 32.58	+ 4 56.6	0.864	0.998	65.6	21.4	64 E	26*	52*
7 30	12 54.19	+ 2 48.4	0.875	1.017	64.4	21.4	65 E	26*	53*
8 4	13 15.12	+ 0 42.2	0.889	1.035	63.1	21.5	66 E	26*	55*
8 9	13 35.45	− 1 20.6	0.905	1.052	61.9	21.5	66 E	25*	56*
162740 2000 WF_6									
3 12	1 23.73	+22 45.1	1.846	1.230	30.0	21.5	38 E	32*	7*
3 22	2 4.87	+22 36.9	1.872	1.222	28.9	21.5	36 E	30*	9*
4 1	2 45.31	+21 59.1	1.909	1.225	27.6	21.5	35 E	28*	12*
4 11	3 24.47	+20 53.4	1.953	1.237	26.1	21.5	33 E	25*	14*
4 21	4 1.98	+19 23.6	2.004	1.258	24.5	21.5	31 E	21*	17*
523775 2014 YB_{35}									
3 12	4 13.46	+35 18.8	1.057	1.273	49.4	21.5	77 E	69*	23*
3 22	4 40.76	+34 38.2	1.050	1.208	51.8	21.4	72 E	65*	24*
4 1	5 11.44	+33 39.2	1.032	1.146	54.3	21.3	69 E	60*	25*
4 11	5 45.04	+32 10.6	1.005	1.091	57.0	21.3	66 E	56*	27*
4 21	6 21.02	+30 1.4	0.971	1.043	59.7	21.2	64 E	52*	29*
5 1	6 58.77	+27 2.1	0.931	1.006	62.6	21.1	62 E	47*	32*
5 11	7 37.60	+23 5.2	0.887	0.981	65.2	21.0	62 E	43*	37*
5 21	8 17.04	+18 7.7	0.845	0.970	67.4	20.9	62 E	37*	42*
5 31	8 56.92	+12 12.2	0.807	0.975	68.6	20.9	64 E	31*	47*
6 10	9 37.31	+ 5 28.3	0.779	0.994	68.6	20.9	66 E	25*	53*
6 20	10 18.58	− 1 46.1	0.765	1.027	67.3	20.8	69 E	19*	60*
6 30	11 1.14	− 9 6.0	0.767	1.071	64.7	20.9	72 E	14*	65*
7 10	11 45.15	−16 2.4	0.788	1.123	61.3	20.9	76 E	10*	70*
7 20	12 30.46	−22 8.5	0.829	1.183	57.5	21.0	79 E	7*	73*
7 30	13 16.49	−27 6.8	0.889	1.247	53.6	21.2	81 E	5*	74*
8 9	14 2.28	−30 50.8	0.968	1.314	50.0	21.4	83 E	4*	74*
330759 2008 SO_{218}									
3 12	12 9.60	+ 1 25.9	11.589	12.568	0.8	23.8	170 W	46	63
3 22	12 5.87	+ 1 48.7	11.578	12.573	0.2	23.7	178 W	47	62
4 1	12 2.13	+ 2 11.0	11.599	12.578	0.9	23.8	168 E	47	62
4 11	11 58.52	+ 2 32.2	11.653	12.583	1.8	23.9	157 E	48	61
4 21	11 55.14	+ 2 51.5	11.737	12.588	2.5	23.9	147 E	48	61
330659 2008 GG_2									
3 12	12 10.88	−33 47.0	0.214	1.169	31.9	21.2	142 W	11	82
3 14	12 16.16	−33 0.2	0.206	1.166	30.7	21.1	143 W	12	83
3 16	12 21.63	−32 4.4	0.198	1.163	29.4	21.0	145 W	13	84
3 18	12 27.29	−30 58.8	0.191	1.160	27.9	20.9	147 W	14	85
3 20	12 33.12	−29 42.9	0.184	1.158	26.3	20.7	149 W	15	86
3 22	12 39.12	−28 16.1	0.178	1.155	24.5	20.6	151 W	17	88
3 27	12 54.75	−23 49.3	0.164	1.151	19.4	20.3	157 W	21	88
4 1	13 11.00	−18 12.5	0.153	1.148	13.4	19.9	165 W	27	82
4 6	13 27.44	−11 38.6	0.147	1.147	7.4	19.6	172 W	33	76
4 11	13 43.53	− 4 34.9	0.146	1.147	6.3	19.5	173 W	40	69

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
330659 2008 GG_2 *(continuation)*									
4 13	13 49.74	− 1 44.9	0.146	1.147	8.2	19.6	171 W	43	66
4 15	13 55.78	+ 1 1.8	0.148	1.148	10.6	19.7	168 W	46	63
4 17	14 1.63	+ 3 43.0	0.150	1.149	13.2	19.8	165 W	49	60
4 19	14 7.26	+ 6 16.9	0.152	1.150	15.7	20.0	162 W	51	58
4 21	14 12.68	+ 8 42.1	0.156	1.152	18.2	20.1	159 W	54	55
4 23	14 17.87	+10 57.3	0.160	1.153	20.6	20.2	156 W	56	53
4 25	14 22.82	+13 2.0	0.164	1.155	22.8	20.4	154 W	58	51
4 27	14 27.55	+14 55.7	0.169	1.158	24.8	20.5	151 W	60	49
4 29	14 32.06	+16 38.4	0.175	1.160	26.7	20.6	149 W	62	47
5 1	14 36.34	+18 10.3	0.180	1.163	28.4	20.8	147 W	63	46
5 6	14 46.16	+21 15.6	0.197	1.170	31.9	21.1	142 E	66	43
5 11	14 54.81	+23 24.2	0.215	1.179	34.6	21.3	139 E	68	41
5 16	15 2.44	+24 45.0	0.234	1.190	36.5	21.6	136 E	70	39
5 21	15 9.28	+25 25.8	0.255	1.201	37.9	21.9	133 E	70	39
5 26	15 15.56	+25 33.7	0.277	1.214	38.8	22.1	131 E	71	38
5 31	15 21.51	+25 14.5	0.300	1.227	39.4	22.3	130 E	70	39
506437 2000 WL_{10}									
3 12	12 12.22	−13 50.4	4.438	5.381	3.7	25.2	160 W	31	78
3 22	12 5.82	−13 12.3	4.408	5.385	2.3	25.1	167 W	32	77
4 1	11 59.40	−12 28.2	4.410	5.388	2.4	25.1	167 E	33	76
4 11	11 53.37	−11 41.0	4.444	5.390	3.9	25.3	159 E	33	76
4 21	11 48.04	−10 53.3	4.507	5.391	5.6	25.4	149 E	34	75
487496 2014 SE_{288}									
3 12	12 13.26	+ 3 0.9	6.348	7.325	1.5	23.2	169 W	48	61
3 22	12 9.34	+ 3 31.1	6.336	7.330	0.6	23.1	176 W	49	60
4 1	12 5.40	+ 4 0.0	6.357	7.335	1.7	23.3	167 E	49	60
4 11	12 1.66	+ 4 26.2	6.407	7.340	3.1	23.4	157 E	49	60
4 21	11 58.34	+ 4 48.5	6.487	7.345	4.3	23.5	146 E	50	59
399632 2004 PL_2									
3 12	12 17.44	+ 8 18.5	2.106	3.082	4.2	22.9	167 W	53	56
3 17	12 12.76	+ 8 49.9	2.095	3.080	3.1	22.9	170 W	54	55
3 22	12 7.94	+ 9 19.7	2.093	3.079	3.2	22.9	170 W	54	55
3 27	12 3.10	+ 9 47.2	2.097	3.077	4.3	22.9	167 E	55	54
4 1	11 58.37	+10 11.7	2.110	3.075	5.9	23.0	162 E	55	54
4 6	11 53.84	+10 32.7	2.129	3.072	7.5	23.1	156 E	56	53
4 11	11 49.63	+10 49.8	2.156	3.069	9.2	23.2	151 E	56	53
442605 2012 HY_{33}									
3 12	12 19.16	+20 39.9	1.941	2.890	7.1	23.4	159 W	66	43
3 17	12 13.25	+21 17.3	1.925	2.876	7.1	23.3	159 W	66	43
3 22	12 7.10	+21 50.1	1.916	2.863	7.6	23.3	158 W	67	42
3 27	12 0.88	+22 17.4	1.915	2.848	8.7	23.4	154 E	67	42
4 1	11 54.72	+22 38.3	1.921	2.834	10.0	23.4	150 E	68	41
4 6	11 48.80	+22 52.5	1.934	2.819	11.5	23.5	146 E	68	41
4 11	11 43.23	+22 59.8	1.953	2.803	13.0	23.6	141 E	68	41
458122 2010 EW_{45}									
3 12	12 19.32	− 4 35.7	2.431	3.401	4.3	22.6	165 W	40	69
3 22	12 9.16	− 3 29.3	2.417	3.413	0.9	22.3	177 W	42	67
4 1	11 58.99	− 2 20.5	2.436	3.422	3.2	22.5	169 E	43	66
4 11	11 49.63	− 1 15.0	2.486	3.430	6.6	22.8	157 E	44	65
4 21	11 41.70	− 0 17.4	2.566	3.436	9.7	23.0	145 E	45	64
518847 2010 DM									
3 12	12 23.52	+ 2 12.2	2.854	3.827	3.5	24.5	166 W	47	62
3 22	12 13.57	+ 3 22.0	2.833	3.828	1.2	24.3	176 W	48	61
4 1	12 3.48	+ 4 29.2	2.847	3.827	3.4	24.5	167 E	49	60
4 11	11 53.97	+ 5 29.1	2.893	3.824	6.4	24.7	155 E	50	59
4 21	11 45.62	+ 6 18.3	2.969	3.819	9.1	24.9	143 E	51	58
396708 2002 UM_{74}									
3 12	12 24.02	+ 4 50.7	1.673	2.649	5.1	22.3	166 W	50	59
3 17	12 19.11	+ 5 22.8	1.656	2.644	3.3	22.1	171 W	50	59
3 22	12 13.97	+ 5 54.2	1.647	2.639	2.6	22.1	173 W	51	58
3 27	12 8.75	+ 6 24.1	1.645	2.634	3.7	22.1	170 E	51	58
4 1	12 3.59	+ 6 51.4	1.650	2.629	5.6	22.2	165 E	52	57
4 6	11 58.65	+ 7 15.3	1.662	2.623	7.7	22.3	159 E	52	57
4 11	11 54.05	+ 7 35.3	1.681	2.617	9.8	22.5	154 E	53	56
506427 2000 RE_{34}									
3 12	12 24.85	− 9 13.6	2.471	3.427	5.3	22.6	161 W	36	73
3 22	12 16.69	− 8 26.3	2.420	3.409	2.4	22.3	172 W	37	72
4 1	12 8.20	− 7 31.3	2.400	3.391	2.6	22.3	171 E	37	72
4 11	12 0.12	− 6 33.4	2.411	3.372	5.7	22.5	160 E	38	71
4 21	11 53.12	− 5 37.7	2.450	3.352	8.9	22.7	149 E	39	70

401840 1999 UH_{56}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 12	12 27.04	− 3 50.0	2.182	3.149	5.0	22.6	164 W	41	68
3 22	12 18.43	− 2 51.3	2.160	3.155	1.2	22.3	176 W	42	67
4 1	12 9.60	− 1 50.1	2.168	3.160	2.7	22.5	171 E	43	66
4 11	12 1.39	− 0 52.3	2.206	3.164	6.4	22.7	159 E	44	65
4 21	11 54.50	− 0 2.6	2.271	3.167	9.8	22.9	148 E	45	64

364273 2006 TW_{48}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 27.13	−10 41.4	1.924	2.877	6.8	22.3	160 W	34	75
3 22	12 18.57	− 9 32.2	1.865	2.852	3.3	22.1	171 W	35	74
4 1	12 9.46	− 8 10.5	1.835	2.826	3.1	22.0	171 E	37	72
4 11	12 0.77	− 6 43.4	1.834	2.799	6.8	22.2	161 E	38	71
4 21	11 53.38	− 5 18.8	1.861	2.772	10.7	22.3	149 E	40	69

468813 2012 OT_5

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 28.21	+ 9 6.7	0.593	1.573	9.9	22.2	164 W	54	55
3 17	12 23.30	+10 31.9	0.569	1.555	8.1	22.0	167 W	56	53
3 22	12 17.57	+11 58.3	0.549	1.537	8.3	21.9	167 W	57	52
3 27	12 11.28	+13 22.1	0.535	1.519	10.6	21.9	164 E	58	51
4 1	12 4.76	+14 39.6	0.525	1.500	14.0	22.0	159 E	60	49
4 6	11 58.37	+15 47.5	0.519	1.482	17.9	22.1	153 E	61	48
4 11	11 52.45	+16 43.2	0.517	1.464	21.8	22.2	147 E	62	47
4 16	11 47.31	+17 25.1	0.519	1.446	25.7	22.2	141 E	62	47
4 21	11 43.20	+17 52.4	0.523	1.428	29.4	22.3	136 E	63	46

366839 2005 PF

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 31.73	+12 56.7	2.738	3.695	4.8	22.6	162 W	58	51
3 17	12 27.77	+13 28.9	2.723	3.690	4.2	22.6	164 W	58	51
3 22	12 23.64	+13 59.3	2.715	3.685	4.1	22.6	165 W	59	50
3 27	12 19.44	+14 27.2	2.715	3.680	4.6	22.6	163 E	59	50
4 1	12 15.24	+14 52.0	2.722	3.675	5.5	22.6	159 E	60	49
4 6	12 11.14	+15 13.3	2.737	3.669	6.6	22.7	155 E	60	49
4 11	12 7.21	+15 30.8	2.759	3.663	7.8	22.8	150 E	61	48

404670 2014 HD_{151}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 34.35	− 6 27.4	1.408	2.370	7.8	22.5	161 W	39	70
3 22	12 24.70	− 5 25.9	1.353	2.346	2.9	22.1	173 W	40	69
4 1	12 14.09	− 4 13.9	1.326	2.321	3.0	22.0	173 E	41	68
4 11	12 3.88	− 3 0.4	1.326	2.296	8.3	22.3	161 E	42	67
4 21	11 55.31	− 1 54.4	1.351	2.269	13.4	22.5	149 E	43	66

402103 2003 WM_{109}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 36.24	−13 2.5	1.963	2.902	7.8	22.4	157 W	32	77
3 22	12 27.17	−12 11.6	1.944	2.925	4.3	22.3	167 W	33	76
4 1	12 17.81	−11 9.2	1.955	2.947	3.0	22.2	171 E	34	75
4 11	12 9.11	−10 1.8	1.996	2.968	5.7	22.4	163 E	35	74
4 21	12 1.87	− 8 56.3	2.064	2.988	9.1	22.7	152 E	36	73

267223 2001 DQ_8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 36.83	−12 7.2	2.174	3.114	7.1	22.8	157 W	33	76
3 22	12 23.05	−11 4.8	2.085	3.069	3.7	22.5	169 W	34	75
4 1	12 8.17	− 9 46.6	2.032	3.021	3.3	22.4	170 E	35	74
4 11	11 53.38	− 8 18.8	2.014	2.971	7.0	22.5	159 E	37	72
4 21	11 39.83	− 6 49.4	2.029	2.917	11.1	22.7	146 E	38	71

405398 2004 LJ_{28}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 37.25	− 3 11.7	1.642	2.604	6.9	22.3	162 W	42	67
3 17	12 32.98	− 2 33.3	1.612	2.593	4.6	22.1	168 W	42	67
3 22	12 28.36	− 1 52.5	1.589	2.582	2.2	21.9	174 W	43	66
3 27	12 23.53	− 1 10.3	1.573	2.571	0.5	21.7	179 E	44	65
4 1	12 18.62	− 0 27.8	1.565	2.559	2.8	21.9	173 E	45	64
4 6	12 13.80	+ 0 13.9	1.563	2.547	5.2	22.0	167 E	45	64
4 11	12 9.20	+ 0 53.6	1.569	2.535	7.6	22.1	160 E	46	63
4 16	12 4.93	+ 1 30.6	1.581	2.523	9.9	22.2	154 E	47	62
4 21	12 1.12	+ 2 3.8	1.599	2.510	12.1	22.3	148 E	47	62

162058 1997 AE_{12}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 39.43	−10 32.9	2.736	3.675	5.9	23.4	158 W	34	75
3 22	12 30.86	− 9 48.1	2.689	3.672	3.0	23.2	169 W	35	74
4 1	12 21.85	− 8 55.3	2.673	3.667	1.8	23.1	173 E	36	73
4 11	12 13.12	− 7 59.1	2.689	3.662	4.4	23.3	164 E	37	72
4 21	12 5.29	− 7 3.8	2.735	3.655	7.3	23.4	152 E	38	71

433961 1999 RL_{41}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 39.86	− 0 44.1	2.627	3.585	4.9	22.3	162 W	44	65
3 22	12 31.15	− 0 16.0	2.548	3.540	1.8	22.0	174 W	45	64
4 1	12 21.69	+ 0 13.3	2.500	3.494	2.0	21.9	173 E	45	64
4 11	12 12.24	+ 0 40.1	2.483	3.447	5.4	22.1	161 E	46	63
4 21	12 3.50	+ 1 0.7	2.496	3.399	8.7	22.2	149 E	46	63

523820 2011 GN_{44}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 12	12 47.81	+44 34.5	2.810	3.585	11.2	24.0	135 W	90	19
3 17	12 39.83	+44 51.5	2.812	3.586	11.3	24.0	135 W	90	19
3 22	12 31.64	+45 0.4	2.822	3.586	11.5	24.0	134 W	90	19
3 27	12 23.40	+45 0.6	2.837	3.587	11.9	24.1	132 E	90	19
4 1	12 15.29	+44 52.3	2.859	3.587	12.3	24.1	130 E	90	19
4 6	12 7.48	+44 35.4	2.887	3.586	12.8	24.1	128 E	90	19
4 11	12 0.10	+44 10.7	2.921	3.586	13.3	24.2	125 E	89	20

523592 2001 SK_{276}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 48.93	−33 52.3	2.986	3.786	10.1	23.4	138 W	11	82
3 17	12 44.50	−33 48.8	2.972	3.809	9.2	23.4	142 W	11	82
3 22	12 39.88	−33 39.8	2.965	3.831	8.4	23.4	146 W	11	82
3 27	12 35.17	−33 25.6	2.964	3.854	7.7	23.3	149 W	12	83
4 1	12 30.46	−33 6.4	2.969	3.876	7.1	23.3	151 E	12	83
4 6	12 25.86	−32 42.6	2.982	3.897	6.8	23.3	153 E	12	83
4 11	12 21.44	−32 14.9	3.002	3.919	6.8	23.4	153 E	13	84
4 16	12 17.30	−31 44.0	3.029	3.940	7.0	23.4	152 E	13	84

483472 2002 NX

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 49.11	−30 59.0	1.532	2.386	15.3	22.9	141 W	14	85
3 17	12 42.96	−31 4.4	1.490	2.375	13.9	22.7	145 W	14	85
3 22	12 36.16	−31 0.2	1.454	2.363	12.6	22.6	149 W	14	85
3 27	12 28.89	−30 45.9	1.424	2.351	11.6	22.5	152 W	14	85
4 1	12 21.37	−30 21.6	1.400	2.338	10.9	22.5	154 E	15	86
4 6	12 13.83	−29 47.5	1.383	2.325	10.8	22.4	154 E	15	86
4 11	12 6.49	−29 4.7	1.372	2.311	11.3	22.4	153 E	16	87
4 16	11 59.58	−28 14.4	1.368	2.297	12.3	22.4	151 E	17	88
4 21	11 53.28	−27 18.2	1.371	2.282	13.7	22.5	147 E	18	89

463387 2013 CT_{82}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 49.20	− 7 58.1	2.419	3.356	6.6	23.2	157 W	37	72
3 22	12 39.67	− 7 1.1	2.361	3.346	3.1	23.0	169 W	38	71
4 1	12 29.42	− 5 56.5	2.335	3.333	1.0	22.8	177 E	39	70
4 11	12 19.29	− 4 49.7	2.342	3.319	4.5	23.0	165 E	40	69
4 21	12 10.07	− 3 46.2	2.379	3.304	8.0	23.2	153 E	41	68

494836 2007 UR_9

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 51.16	− 2 0.6	1.957	2.906	7.1	22.5	159 W	43	66
3 17	12 47.25	− 1 23.2	1.927	2.899	5.2	22.4	165 W	44	65
3 22	12 43.00	− 0 44.1	1.904	2.892	3.2	22.2	171 W	44	65
3 27	12 38.52	− 0 4.1	1.888	2.884	1.5	22.1	176 W	45	64
4 1	12 33.93	+ 0 35.8	1.880	2.876	1.9	22.1	174 E	46	63
4 6	12 29.36	+ 1 14.7	1.880	2.869	3.8	22.2	169 E	46	63
4 11	12 24.91	+ 1 51.7	1.886	2.860	5.8	22.3	163 E	47	62
4 16	12 20.71	+ 2 26.0	1.900	2.852	7.8	22.4	157 E	47	62

496965 2002 PQ_{40}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 54.14	+ 0 2.2	3.198	4.139	5.0	23.5	159 W	45	64
3 22	12 47.76	+ 1 4.4	3.151	4.135	2.6	23.4	169 W	46	63
4 1	12 40.85	+ 2 6.9	3.136	4.130	1.6	23.3	173 E	47	62
4 11	12 33.95	+ 3 5.5	3.151	4.124	3.8	23.4	164 E	48	61
4 21	12 27.56	+ 3 56.8	3.197	4.118	6.4	23.6	153 E	49	60

411655 2011 WW_4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 54.86	−15 43.4	1.682	2.599	10.5	22.5	151 W	29	80
3 22	12 44.84	−15 22.5	1.595	2.563	6.8	22.2	162 W	30	79
4 1	12 33.17	−14 41.8	1.535	2.525	4.1	21.9	170 E	30	79
4 11	12 21.06	−13 45.1	1.504	2.485	6.0	21.9	165 E	31	78
4 21	12 9.82	−12 39.5	1.500	2.444	10.3	22.1	154 E	32	77

422757 2001 TL_7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 57.40	−17 9.1	2.561	3.458	8.2	22.4	150 W	28	81
3 22	12 49.94	−16 22.0	2.506	3.463	5.4	22.2	161 W	29	80
4 1	12 41.77	−15 21.6	2.480	3.466	3.1	22.1	169 E	30	79
4 11	12 33.63	−14 12.0	2.484	3.469	3.6	22.1	167 E	31	78
4 21	12 26.20	−12 58.8	2.519	3.471	6.2	22.3	158 E	32	77

376836 2001 QD_{61}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 12	12 59.32	+26 7.7	2.492	3.380	8.8	21.8	149 W	71	38
3 17	12 55.52	+27 0.0	2.493	3.389	8.5	21.8	150 W	72	37
3 22	12 51.45	+27 47.6	2.501	3.398	8.5	21.8	150 W	73	36
3 27	12 47.21	+28 29.7	2.516	3.407	8.8	21.9	148 W	73	36
4 1	12 42.90	+29 5.6	2.538	3.415	9.3	21.9	146 W	74	35
4 6	12 38.64	+29 34.9	2.566	3.423	10.0	22.0	144 E	75	34
4 11	12 34.51	+29 57.5	2.600	3.432	10.8	22.0	140 E	75	34
4 16	12 30.60	+30 13.3	2.640	3.439	11.6	22.1	137 E	75	34
4 21	12 27.00	+30 22.4	2.685	3.447	12.4	22.2	133 E	75	34
4 26	12 23.78	+30 25.3	2.736	3.454	13.2	22.2	129 E	75	34
5 1	12 20.98	+30 22.1	2.790	3.461	13.9	22.3	124 E	75	34

494696 2004 RN_{335}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 12	12 59.38	+ 7 59.5	1.555	2.501	8.9	23.1	157 W	53	56
3 17	12 54.84	+ 8 37.1	1.516	2.480	7.2	22.9	162 W	54	55
3 22	12 49.73	+ 9 14.5	1.483	2.460	5.9	22.8	165 W	54	55
3 27	12 44.18	+ 9 50.3	1.457	2.439	5.4	22.7	167 W	55	54
4 1	12 38.35	+10 23.3	1.438	2.417	6.1	22.7	165 E	55	54
4 6	12 32.39	+10 52.3	1.426	2.396	7.7	22.7	161 E	56	53
4 11	12 26.48	+11 16.3	1.421	2.374	9.7	22.8	157 E	56	53
4 16	12 20.79	+11 34.5	1.422	2.352	11.9	22.8	151 E	57	52

380785 2005 VW_5

3 12	13 1.56	− 5 28.8	1.494	2.433	9.8	21.9	155 W	40	69
3 22	12 53.07	− 4 16.9	1.418	2.401	5.1	21.6	168 W	41	68
4 1	12 42.87	− 2 53.6	1.369	2.368	0.7	21.2	178 W	42	67
4 11	12 32.18	− 1 27.7	1.348	2.335	5.7	21.4	167 E	44	65
4 21	12 22.28	− 0 8.9	1.354	2.300	11.0	21.7	154 E	45	64
5 1	12 14.35	+ 0 54.5	1.383	2.264	15.9	21.8	142 E	46	63

467835 2010 SS_3

3 12	13 3.54	−17 44.6	0.738	1.668	18.1	22.3	149 W	27	82
3 17	13 1.03	−15 31.0	0.696	1.653	14.6	22.0	155 W	29	80
3 22	12 57.61	−12 52.8	0.659	1.637	10.7	21.7	162 W	32	77
3 27	12 53.43	− 9 50.9	0.629	1.620	6.3	21.4	170 W	35	74
4 1	12 48.68	− 6 28.4	0.605	1.604	1.6	21.0	177 W	39	70
4 6	12 43.62	− 2 50.8	0.588	1.587	3.5	21.1	174 E	42	67
4 11	12 38.54	+ 0 54.6	0.579	1.571	8.6	21.3	166 E	46	63
4 16	12 33.70	+ 4 39.6	0.576	1.554	13.8	21.5	158 E	50	59
4 21	12 29.38	+ 8 16.0	0.580	1.537	18.7	21.6	151 E	53	56
4 26	12 25.84	+11 36.9	0.590	1.520	23.4	21.8	143 E	57	52
5 1	12 23.28	+14 37.8	0.604	1.503	27.6	21.9	136 E	60	49

459915 2014 MC_{27}

3 12	13 3.80	+22 20.0	1.918	2.824	10.1	21.7	150 W	67	42
3 17	12 59.67	+23 16.9	1.916	2.833	9.5	21.7	152 W	68	41
3 22	12 55.19	+24 8.8	1.920	2.841	9.3	21.7	152 W	69	40
3 27	12 50.49	+24 54.6	1.931	2.849	9.5	21.7	152 W	70	39
4 1	12 45.70	+25 33.3	1.948	2.857	10.1	21.8	150 W	71	38
4 6	12 40.95	+26 4.5	1.972	2.865	10.9	21.8	147 E	71	38
4 11	12 36.37	+26 27.8	2.002	2.872	11.9	21.9	144 E	71	38
4 16	12 32.08	+26 43.2	2.038	2.880	13.0	22.0	140 E	72	37
4 21	12 28.16	+26 50.8	2.079	2.887	14.0	22.1	136 E	72	37
4 26	12 24.71	+26 51.0	2.125	2.893	15.1	22.2	132 E	72	37
5 1	12 21.79	+26 44.3	2.176	2.900	16.0	22.3	127 E	72	37

377470 2004 XX_{161}

3 12	13 4.44	+ 1 12.4	2.853	3.783	6.1	21.4	156 W	46	63
3 22	12 57.08	+ 1 53.1	2.808	3.786	3.4	21.3	167 W	47	62
4 1	12 49.03	+ 2 33.0	2.795	3.788	1.9	21.2	173 W	48	61
4 11	12 40.92	+ 3 8.2	2.812	3.789	3.9	21.3	165 E	48	61
4 21	12 33.35	+ 3 35.7	2.859	3.790	6.6	21.5	154 E	49	60
5 1	12 26.86	+ 3 52.9	2.934	3.790	9.1	21.6	143 E	49	60

468462 2004 BS_{102}

3 12	13 5.06	+30 10.4	1.450	2.333	14.2	22.7	145 W	75	34
3 17	12 59.34	+31 30.4	1.450	2.339	14.0	22.6	145 W	77	32
3 22	12 53.10	+32 41.3	1.457	2.343	14.2	22.7	145 W	78	31
3 27	12 46.52	+33 41.2	1.470	2.348	14.7	22.7	143 W	79	30
4 1	12 39.82	+34 29.2	1.489	2.351	15.5	22.8	141 E	79	30
4 6	12 33.22	+35 4.7	1.514	2.355	16.5	22.8	138 E	80	29
4 11	12 26.93	+35 27.7	1.544	2.357	17.6	22.9	135 E	80	29
4 16	12 21.11	+35 38.7	1.578	2.360	18.8	23.0	131 E	81	28

313088 2000 UQ_{21}

3 12	13 7.64	− 5 43.0	2.020	2.944	8.6	22.2	154 W	39	70
3 22	12 59.89	− 4 40.3	1.959	2.935	4.8	21.9	166 W	40	69
4 1	12 50.99	− 3 30.6	1.926	2.925	0.8	21.6	178 W	41	68
4 11	12 41.83	− 2 20.2	1.924	2.914	3.7	21.8	169 E	43	66
4 21	12 33.31	− 1 15.7	1.950	2.902	7.8	22.0	157 E	44	65
5 1	12 26.23	− 0 22.5	2.003	2.889	11.5	22.2	145 E	45	64

280853 2005 UY_{282}

3 12	13 7.70	− 3 53.0	1.411	2.347	10.6	21.3	154 W	41	68
3 22	12 59.58	− 2 48.9	1.342	2.322	5.8	20.9	166 W	42	67
4 1	12 49.64	− 1 36.2	1.299	2.297	1.5	20.6	177 W	43	66
4 11	12 39.11	− 0 23.8	1.283	2.271	5.5	20.8	167 E	45	64
4 21	12 29.33	+ 0 39.3	1.293	2.245	10.8	21.0	155 E	46	63
5 1	12 21.52	+ 1 25.4	1.326	2.218	15.7	21.2	143 E	46	63
5 11	12 16.50	+ 1 50.1	1.378	2.190	19.9	21.4	132 E	47	62

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 12	13 9.21	+11 49.4	2.271	3.193	7.9	21.6	154 W	57	52
3 17	13 5.37	+12 21.7	2.243	3.186	6.8	21.5	158 W	57	52
3 22	13 1.17	+12 52.4	2.221	3.179	5.9	21.4	161 W	58	51
3 27	12 56.70	+13 20.8	2.207	3.172	5.5	21.4	162 W	58	51
4 1	12 52.06	+13 46.2	2.200	3.164	5.7	21.4	162 W	59	50
4 6	12 47.36	+14 7.7	2.201	3.156	6.5	21.4	159 E	59	50
4 11	12 42.72	+14 24.9	2.209	3.148	7.6	21.5	156 E	59	50
4 16	12 38.22	+14 37.4	2.223	3.140	8.8	21.5	151 E	60	49
4 21	12 33.97	+14 44.9	2.244	3.132	10.2	21.6	147 E	60	49
4 26	12 30.06	+14 47.4	2.271	3.123	11.5	21.7	142 E	60	49
5 1	12 26.56	+14 44.9	2.303	3.114	12.8	21.7	137 E	60	49

491015 2011 LS_{14}

3 12	13 10.22	−10 57.5	1.199	2.123	13.1	21.8	151 W	34	75
3 22	13 1.16	−10 53.0	1.106	2.079	8.1	21.4	163 W	34	75
4 1	12 49.25	−10 31.1	1.037	2.033	3.1	20.9	174 W	34	75
4 11	12 35.88	− 9 55.4	0.994	1.987	5.4	20.9	169 E	35	74
4 21	12 22.80	− 9 13.1	0.975	1.940	11.7	21.1	157 E	36	73
5 1	12 11.88	− 8 33.7	0.978	1.893	17.9	21.3	145 E	36	73
5 11	12 4.47	− 8 6.5	0.999	1.845	23.4	21.4	133 E	37	72

331963 2004 XK_{35}

3 12	13 11.00	−54 56.7	1.599	2.244	23.0	21.5	118 W	—	61
3 17	13 5.65	−55 35.6	1.542	2.223	22.6	21.4	121 W	—	60
3 22	12 59.11	−56 3.8	1.489	2.202	22.2	21.2	124 W	—	60
3 27	12 51.51	−56 19.5	1.439	2.180	21.7	21.1	126 W	—	60
4 1	12 43.08	−56 20.9	1.392	2.158	21.4	21.0	128 W	—	60
4 6	12 34.14	−56 6.7	1.349	2.135	21.0	20.9	130 E	—	60
4 11	12 25.06	−55 36.0	1.310	2.112	20.8	20.8	132 E	—	60
4 16	12 16.23	−54 48.4	1.275	2.088	20.7	20.7	133 E	—	61
4 21	12 8.03	−53 44.1	1.244	2.065	20.9	20.7	133 E	—	62
4 26	12 0.81	−52 24.2	1.218	2.040	21.2	20.6	133 E	—	64
5 1	11 54.83	−50 50.4	1.196	2.016	21.8	20.6	132 E	—	65
5 6	11 50.25	−49 5.0	1.179	1.991	22.5	20.5	131 E	—	67
5 11	11 47.13	−47 10.5	1.166	1.965	23.5	20.5	129 E	—	69
5 16	11 45.47	−45 9.3	1.157	1.940	24.7	20.5	127 E	—	71
5 21	11 45.25	−43 4.1	1.153	1.914	26.0	20.5	124 E	2*	73
5 26	11 46.38	−40 57.3	1.152	1.887	27.3	20.5	121 E	4*	75
5 31	11 48.77	−38 51.1	1.155	1.861	28.7	20.5	118 E	5*	77
6 5	11 52.32	−36 47.4	1.160	1.834	30.1	20.5	115 E	6*	79
6 10	11 56.90	−34 47.6	1.169	1.807	31.5	20.6	111 E	7*	81
6 15	12 2.43	−32 52.7	1.180	1.779	32.9	20.6	108 E	8*	83
6 20	12 8.81	−31 3.7	1.193	1.752	34.1	20.6	105 E	8*	85
6 25	12 15.97	−29 21.0	1.208	1.724	35.3	20.6	101 E	9*	87
6 30	12 23.84	−27 44.9	1.224	1.696	36.4	20.7	98 E	9*	88
7 5	12 32.34	−26 15.4	1.242	1.668	37.4	20.7	95 E	9*	88*
7 10	12 41.40	−24 52.4	1.260	1.640	38.3	20.7	92 E	10*	85*
7 15	12 51.00	−23 35.4	1.278	1.611	39.1	20.7	88 E	10*	82*
7 20	13 1.08	−22 24.2	1.297	1.583	39.8	20.7	85 E	10*	79*
7 25	13 11.61	−21 18.4	1.315	1.555	40.4	20.7	83 E	11*	77*
7 30	13 22.56	−20 17.3	1.334	1.527	40.9	20.8	80 E	11*	74*
8 4	13 33.91	−19 20.5	1.351	1.499	41.3	20.8	77 E	12*	71*
8 9	13 45.61	−18 27.3	1.368	1.472	41.6	20.7	75 E	13*	69*
8 14	13 57.67	−17 37.1	1.385	1.444	41.9	20.7	72 E	13*	66*
8 19	14 10.06	−16 49.4	1.400	1.417	42.1	20.7	70 E	14*	64*
8 24	14 22.78	−16 3.6	1.414	1.391	42.2	20.7	68 E	15*	62*
8 29	14 35.82	−15 19.2	1.427	1.365	42.3	20.7	66 E	16*	59*
9 3	14 49.15	−14 35.6	1.439	1.340	42.4	20.7	64 E	17*	57*
9 8	15 2.77	−13 52.2	1.449	1.316	42.4	20.6	62 E	18*	55*
9 13	15 16.69	−13 8.6	1.458	1.293	42.4	20.6	60 E	19*	53*
9 18	15 30.89	−12 24.3	1.465	1.271	42.4	20.6	58 E	21*	51*
9 23	15 45.39	−11 38.9	1.471	1.250	42.3	20.6	57 E	22*	49*
9 28	16 0.18	−10 52.0	1.475	1.230	42.3	20.5	56 E	23*	47*
10 3	16 15.25	−10 3.1	1.478	1.212	42.2	20.5	55 E	24*	46*
10 8	16 30.60	− 9 12.1	1.479	1.196	42.2	20.5	54 E	26*	44*
10 18	17 2.21	− 7 22.4	1.479	1.169	42.2	20.4	52 E	28*	40*
10 28	17 35.07	− 5 21.3	1.474	1.150	42.3	20.4	51 E	31*	36*
11 7	18 9.22	− 3 8.3	1.467	1.140	42.4	20.4	51 E	34*	32*
11 17	18 44.74	− 0 43.8	1.461	1.139	42.5	20.4	51 E	37*	29*
11 27	19 21.64	+ 1 50.6	1.458	1.148	42.4	20.4	52 E	40*	25*
12 7	19 59.83	+ 4 31.9	1.462	1.166	42.2	20.4	53 E	42*	22*
12 17	20 39.12	+ 7 15.8	1.477	1.193	41.6	20.5	54 E	45*	19*
12 27	21 19.14	+ 9 57.0	1.504	1.226	40.6	20.5	54 E	46*	17*
1 6	21 59.39	+12 30.0	1.547	1.266	39.4	20.6	55 E	47*	15*
1 16	22 39.33	+14 49.8	1.606	1.311	37.7	20.7	55 E	48*	14*

101931 1999 RZ_{20}

3 12	13 12.20	−12 34.3	2.071	2.973	9.7	21.3	150 W	32	77
3 22	13 4.02	−12 10.5	1.994	2.956	6.1	21.0	161 W	33	76
4 1	12 54.48	−11 34.2	1.945	2.938	2.6	20.8	172 W	33	76
4 11	12 44.46	−10 49.1	1.926	2.920	3.0	20.8	171 E	34	75

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
101931 1999 RZ_{20} *(continuation)*									
4 21	12 34.94	−10 0.6	1.935	2.900	6.8	21.0	160 E	35	74
5 1	12 26.81	− 9 14.4	1.972	2.880	10.5	21.1	149 E	36	73
5 11	12 20.71	− 8 35.8	2.033	2.859	13.8	21.3	137 E	36	73
5 21	12 16.99	− 8 8.5	2.112	2.837	16.6	21.5	127 E	37	72
284752 2008 VF_2									
3 12	13 17.79	−11 22.8	1.867	2.768	10.6	22.4	149 W	34	75
3 22	13 9.43	−10 44.5	1.816	2.778	6.6	22.2	161 W	34	75
4 1	12 59.75	− 9 54.5	1.793	2.788	2.5	22.0	173 W	35	74
4 11	12 49.76	− 8 57.9	1.799	2.796	2.6	22.0	173 E	36	73
4 21	12 40.48	− 8 1.0	1.834	2.804	6.7	22.3	161 E	37	72
455190 2000 QE_{25}									
3 12	13 19.18	− 0 44.7	2.129	3.044	8.8	21.5	152 W	44	65
3 17	13 15.35	− 0 3.2	2.113	3.059	7.0	21.4	158 W	45	64
3 22	13 11.18	+ 0 39.1	2.104	3.073	5.3	21.3	164 W	46	63
3 27	13 6.76	+ 1 21.4	2.103	3.087	3.7	21.2	169 W	46	63
4 1	13 2.21	+ 2 2.7	2.109	3.101	2.7	21.2	172 W	47	62
4 6	12 57.63	+ 2 42.2	2.123	3.115	2.9	21.2	171 E	48	61
4 11	12 53.13	+ 3 19.2	2.144	3.128	4.2	21.3	167 E	48	61
4 16	12 48.81	+ 3 53.1	2.173	3.141	5.8	21.4	162 E	49	60
4 21	12 44.76	+ 4 23.2	2.209	3.154	7.4	21.6	156 E	49	60
4 26	12 41.06	+ 4 49.2	2.252	3.166	9.0	21.7	150 E	50	59
5 1	12 37.79	+ 5 10.8	2.301	3.178	10.5	21.8	145 E	50	59
396810 2004 PS_{100}									
3 12	13 19.30	−18 3.2	2.074	2.947	11.0	22.4	145 W	27	82
3 22	13 11.06	−17 45.9	1.995	2.936	7.8	22.2	157 W	27	82
4 1	13 1.30	−17 11.4	1.944	2.925	4.6	22.0	166 W	28	81
4 11	12 50.96	−16 22.7	1.921	2.912	3.6	21.9	169 E	29	80
4 21	12 41.04	−15 24.7	1.928	2.898	6.3	22.0	162 E	30	79
5 1	12 32.47	−14 24.1	1.962	2.883	9.8	22.2	151 E	31	78
410186 2007 RH_{103}									
3 12	13 20.08	− 8 38.5	1.574	2.484	11.6	21.4	150 W	36	73
3 22	13 12.96	− 7 39.9	1.486	2.452	7.3	21.0	162 W	37	72
4 1	13 3.82	− 6 26.7	1.424	2.420	2.4	20.7	174 W	39	70
4 11	12 53.68	− 5 5.4	1.389	2.387	2.9	20.6	173 E	40	69
4 21	12 43.75	− 3 44.9	1.382	2.353	8.2	20.8	160 E	41	68
5 1	12 35.26	− 2 34.2	1.400	2.319	13.2	21.0	148 E	42	67
5 11	12 29.16	− 1 40.4	1.440	2.283	17.6	21.2	137 E	43	66
5 21	12 25.96	− 1 7.2	1.496	2.248	21.3	21.4	126 E	44	65
141670 2002 JS_{100}									
3 12	13 21.43	+ 5 55.3	2.161	3.073	8.8	21.5	152 W	51	58
3 17	13 18.00	+ 6 41.4	2.116	3.056	7.4	21.4	157 W	52	57
3 22	13 14.11	+ 7 28.2	2.079	3.039	6.1	21.3	161 W	52	57
3 27	13 9.83	+ 8 14.8	2.048	3.021	5.1	21.2	164 W	53	56
4 1	13 5.26	+ 9 0.1	2.026	3.003	4.8	21.1	165 W	54	55
4 6	13 0.51	+ 9 43.3	2.011	2.985	5.4	21.1	164 W	55	54
4 11	12 55.68	+10 23.2	2.003	2.966	6.5	21.2	160 E	55	54
4 16	12 50.90	+10 59.3	2.002	2.947	8.0	21.2	156 E	56	53
4 21	12 46.26	+11 30.6	2.008	2.928	9.6	21.3	151 E	57	52
4 26	12 41.89	+11 56.8	2.021	2.908	11.2	21.3	146 E	57	52
5 1	12 37.89	+12 17.4	2.040	2.888	12.8	21.4	140 E	57	52
5 6	12 34.34	+12 32.4	2.064	2.868	14.4	21.5	135 E	58	51
499517 2010 PX_{24}									
3 12	13 23.09	− 2 13.1	1.524	2.441	11.4	21.6	151 W	43	66
3 22	13 16.59	− 0 51.1	1.442	2.410	7.2	21.2	162 W	44	65
4 1	13 8.05	+ 0 39.3	1.386	2.379	3.5	20.9	172 W	46	63
4 11	12 58.46	+ 2 9.0	1.357	2.348	4.9	20.9	168 E	47	62
4 21	12 49.03	+ 3 28.2	1.355	2.315	9.6	21.1	157 E	48	61
5 1	12 40.96	+ 4 28.4	1.377	2.283	14.3	21.3	146 E	49	60
5 11	12 35.22	+ 5 4.6	1.419	2.249	18.5	21.5	135 E	50	59
416386 2003 UW_{19}									
3 12	13 23.25	+25 40.1	2.241	3.105	10.7	21.7	145 W	71	38
3 17	13 19.19	+26 20.4	2.219	3.099	10.2	21.6	147 W	71	38
3 22	13 14.69	+26 56.7	2.203	3.093	9.9	21.6	148 W	72	37
3 27	13 9.83	+27 27.7	2.194	3.086	9.9	21.6	148 W	72	37
4 1	13 4.74	+27 52.7	2.192	3.079	10.1	21.6	147 W	73	36
4 6	12 59.54	+28 10.9	2.196	3.073	10.7	21.6	145 E	73	36
4 11	12 54.36	+28 22.0	2.206	3.065	11.4	21.7	143 E	73	36
4 16	12 49.31	+28 25.8	2.222	3.058	12.2	21.7	140 E	73	36
4 21	12 44.51	+28 22.2	2.244	3.050	13.2	21.7	136 E	73	36
4 26	12 40.06	+28 11.4	2.271	3.042	14.1	21.8	132 E	73	36
5 1	12 36.06	+27 53.8	2.303	3.034	15.1	21.9	128 E	73	36

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
277473 2005 WD_1									
3 12	13 24.11	+52 22.3	2.479	3.161	14.8	22.2	125 W	83	12
3 17	13 16.51	+52 50.9	2.478	3.159	14.9	22.2	125 W	82	11
3 22	13 8.36	+53 10.4	2.481	3.156	15.1	22.2	125 W	82	11
3 27	12 59.84	+53 19.9	2.489	3.153	15.3	22.2	124 W	82	11
4 1	12 51.20	+53 18.8	2.502	3.149	15.6	22.2	122 W	82	11
4 6	12 42.67	+53 7.2	2.519	3.145	15.9	22.3	120 E	82	11
4 11	12 34.45	+52 45.3	2.540	3.141	16.3	22.3	118 E	82	11
4 16	12 26.74	+52 13.6	2.566	3.136	16.7	22.3	116 E	83	12
4 21	12 19.70	+51 32.8	2.595	3.131	17.1	22.4	113 E	83	12
4 26	12 13.43	+50 44.0	2.628	3.126	17.5	22.4	111 E	84	13
5 1	12 8.01	+49 48.0	2.663	3.120	17.9	22.4	108 E	85	14
408794 2000 GG_{186}									
3 12	13 24.88	− 2 6.6	1.681	2.593	10.9	21.5	151 W	43	66
3 22	13 16.81	− 1 26.6	1.600	2.567	6.8	21.2	162 W	44	65
4 1	13 6.75	− 0 42.1	1.545	2.540	2.8	20.9	173 W	44	65
4 11	12 55.73	+ 0 0.5	1.519	2.512	4.0	20.9	170 E	45	64
4 21	12 44.93	+ 0 35.0	1.521	2.484	8.5	21.1	158 E	46	63
5 1	12 35.54	+ 0 55.7	1.549	2.454	13.0	21.3	147 E	46	63
5 11	12 28.46	+ 0 59.3	1.598	2.424	17.0	21.4	136 E	46	63
490070 2008 TM_{116}									
3 12	13 26.68	−11 58.3	1.522	2.417	12.9	21.6	147 W	33	76
3 22	13 18.74	−11 45.0	1.437	2.393	8.7	21.3	159 W	33	76
4 1	13 8.51	−11 16.6	1.377	2.369	3.9	20.9	171 W	34	75
4 11	12 57.09	−10 36.6	1.344	2.344	2.5	20.8	174 E	34	75
4 21	12 45.82	− 9 51.2	1.339	2.318	7.4	21.0	163 E	35	74
5 1	12 36.06	− 9 7.8	1.359	2.291	12.4	21.2	151 E	36	73
5 11	12 28.86	− 8 33.7	1.400	2.264	16.9	21.4	139 E	36	73
97886 2000 QK_{54}									
3 12	13 28.51	−13 29.7	2.181	3.056	10.5	21.4	146 W	32	77
3 22	13 20.74	−13 6.2	2.109	3.054	7.1	21.2	158 W	32	77
4 1	13 11.50	−12 30.3	2.064	3.051	3.5	20.9	169 W	32	77
4 11	13 1.63	−11 45.6	2.048	3.047	1.8	20.8	175 E	33	76
4 21	12 52.04	−10 56.9	2.062	3.042	5.1	21.0	164 E	34	75
5 1	12 43.59	−10 9.4	2.105	3.036	8.7	21.2	153 E	35	74
5 11	12 36.96	− 9 28.5	2.173	3.029	12.0	21.4	141 E	36	73
455231 2001 SX_{111}									
3 12	13 28.90	−14 12.1	1.831	2.709	12.0	21.8	146 W	31	78
3 22	13 20.37	−14 10.6	1.738	2.684	8.3	21.5	157 W	31	78
4 1	13 9.76	−13 54.6	1.671	2.657	4.3	21.2	168 W	31	78
4 11	12 58.02	−13 26.1	1.633	2.630	2.7	21.1	173 E	32	77
4 21	12 46.35	−12 49.5	1.624	2.601	6.5	21.2	163 E	32	77
5 1	12 35.94	−12 10.9	1.642	2.572	10.8	21.4	151 E	33	76
284711 2008 TL_{120}									
3 12	13 29.23	− 4 38.8	1.829	2.729	10.8	22.0	149 W	40	69
3 22	13 21.49	− 3 49.6	1.766	2.727	6.9	21.7	161 W	41	68
4 1	13 12.10	− 2 54.3	1.730	2.723	2.8	21.5	172 W	42	67
4 11	13 2.00	− 1 59.0	1.722	2.719	2.8	21.4	172 E	43	66
4 21	12 52.26	− 1 9.9	1.744	2.713	6.9	21.7	161 E	44	65
5 1	12 43.84	− 0 32.4	1.792	2.707	11.0	21.9	149 E	44	65
333270 2146 *P–L*									
3 12	13 30.48	−10 10.3	2.501	3.377	9.2	21.3	147 W	35	74
3 22	13 24.29	− 9 18.3	2.402	3.350	6.2	21.1	159 W	36	73
4 1	13 16.71	− 8 16.0	2.332	3.322	2.8	20.8	171 W	37	72
4 11	13 8.38	− 7 7.3	2.291	3.293	0.9	20.6	177 E	38	71
4 21	13 0.04	− 5 57.5	2.282	3.263	4.6	20.9	165 E	39	70
5 1	12 52.42	− 4 51.9	2.301	3.232	8.1	21.0	153 E	40	69
5 11	12 46.19	− 3 55.6	2.346	3.200	11.3	21.2	142 E	41	68
5 21	12 41.76	− 3 11.9	2.413	3.168	14.0	21.3	131 E	42	67
5 31	12 39.38	− 2 42.6	2.497	3.134	16.2	21.4	120 E	42*	67
387505 1998 KN_3									
3 12	13 30.54	−12 44.0	1.654	2.539	12.7	22.3	146 W	32	77
3 17	13 22.67	−12 3.0	1.637	2.563	10.2	22.2	153 W	33	76
3 22	13 14.30	−11 17.2	1.627	2.586	7.6	22.1	160 W	34	75
3 27	13 5.62	−10 27.5	1.626	2.608	4.9	22.0	167 W	35	74
4 1	12 56.85	− 9 35.1	1.634	2.630	2.4	21.8	174 W	35	74
4 6	12 48.19	− 8 41.5	1.651	2.650	1.4	21.8	176 E	36	73
4 11	12 39.84	− 7 48.0	1.676	2.670	3.6	22.0	170 E	37	72
4 16	12 31.98	− 6 55.9	1.711	2.688	6.1	22.2	164 E	38	71
4 21	12 24.73	− 6 6.5	1.753	2.706	8.4	22.4	157 E	39	70
468804 2012 HF_{52}									
3 12	13 31.35	−10 19.4	1.940	2.823	11.2	21.7	147 W	35	74
3 22	13 25.63	− 8 53.9	1.837	2.788	7.5	21.4	158 W	36	73
4 1	13 18.11	− 7 11.7	1.762	2.753	3.4	21.1	171 W	38	71
4 11	13 9.55	− 5 19.2	1.716	2.716	1.4	20.8	176 E	40	69

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
468804 2012 HF_{52} *(continuation)*									
4 21	13 0.86	− 3 25.0	1.699	2.679	5.9	21.1	164 E	42	67
5 1	12 53.03	− 1 38.4	1.710	2.642	10.4	21.2	152 E	43	66
5 11	12 46.92	− 0 7.4	1.746	2.603	14.4	21.4	140 E	45	64
433873 2015 BQ_{311}									
3 12	13 32.93	+18 50.2	7.738	8.580	3.7	21.5	146 W	64	45
3 22	13 30.06	+19 22.6	7.682	8.569	3.2	21.4	151 W	64	45
4 1	13 26.79	+19 51.0	7.654	8.558	3.0	21.4	153 W	65	44
4 11	13 23.31	+20 13.8	7.653	8.547	3.2	21.4	151 W	65	44
4 21	13 19.81	+20 30.0	7.680	8.535	3.7	21.4	146 E	65	44
5 1	13 16.47	+20 38.9	7.732	8.524	4.4	21.5	140 E	66	43
5 11	13 13.48	+20 40.2	7.807	8.512	5.1	21.5	132 E	66	43
259555 2003 UL_{147}									
3 12	13 33.74	− 3 38.8	2.090	2.980	10.1	22.0	148 W	41	68
3 22	13 26.65	− 2 52.4	2.012	2.967	6.7	21.8	160 W	42	67
4 1	13 17.94	− 2 0.9	1.962	2.952	3.1	21.5	171 W	43	66
4 11	13 8.41	− 1 9.6	1.940	2.937	2.6	21.5	172 E	44	65
4 21	12 58.96	− 0 24.0	1.949	2.920	6.2	21.7	162 E	45	64
5 1	12 50.50	+ 0 11.1	1.984	2.903	9.9	21.8	150 E	45	64
511096 2013 TO_{139}									
3 12	13 33.78	+ 0 34.3	2.837	3.723	8.0	22.5	149 W	46	63
3 22	13 27.12	+ 1 16.2	2.773	3.723	5.4	22.3	160 W	46	63
4 1	13 19.35	+ 1 58.4	2.738	3.723	3.0	22.1	169 W	47	62
4 11	13 11.09	+ 2 36.9	2.734	3.723	3.0	22.1	169 E	48	61
4 21	13 2.95	+ 3 8.1	2.760	3.721	5.3	22.3	160 E	48	61
5 1	12 55.56	+ 3 29.3	2.815	3.718	7.9	22.5	149 E	48	61
31345 1998 PG									
3 12	13 34.90	−14 33.9	1.934	2.800	12.0	21.8	144 W	30	79
3 22	13 26.85	−13 42.4	1.863	2.803	8.3	21.6	156 W	31	78
4 1	13 17.07	−12 35.0	1.818	2.804	4.2	21.3	168 W	32	77
4 11	13 6.52	−11 16.5	1.803	2.804	1.5	21.1	176 E	34	75
4 21	12 56.24	− 9 53.9	1.818	2.802	5.2	21.4	165 E	35	74
5 1	12 47.24	− 8 34.9	1.862	2.798	9.3	21.6	153 E	36	73
390929 2005 GP_{21}									
3 12	13 36.31	− 5 22.5	0.671	1.599	19.7	21.6	147 W	40	69
3 22	13 16.25	− 6 51.2	0.625	1.601	11.5	21.2	161 W	38	71
4 1	12 51.18	− 8 12.0	0.604	1.602	2.7	20.7	176 W	37	72
4 11	12 24.91	− 9 21.1	0.608	1.600	8.3	21.0	167 E	36	73
4 21	12 1.68	−10 18.7	0.636	1.595	17.2	21.4	152 E	35	74
5 1	11 44.46	−11 10.5	0.684	1.587	24.8	21.8	139 E	34	75
357094 2001 TM									
3 12	13 36.39	− 7 31.2	2.031	2.911	10.9	21.8	146 W	37	72
3 22	13 28.31	− 6 58.8	1.975	2.924	7.2	21.6	158 W	38	71
4 1	13 18.69	− 6 19.1	1.946	2.936	3.1	21.4	171 W	39	70
4 11	13 8.43	− 5 36.7	1.946	2.947	1.3	21.3	176 E	39	70
4 21	12 58.50	− 4 56.6	1.977	2.957	5.3	21.6	164 E	40	69
5 1	12 49.79	− 4 23.6	2.036	2.965	9.1	21.8	152 E	41	68
302193 2001 UA									
3 12	13 37.13	− 2 41.0	1.703	2.597	11.9	21.4	147 W	42	67
3 22	13 29.71	− 1 59.4	1.621	2.576	8.0	21.2	159 W	43	66
4 1	13 20.17	− 1 12.7	1.565	2.555	3.9	20.9	170 W	44	65
4 11	13 9.43	− 0 26.9	1.537	2.533	3.2	20.8	172 E	45	64
4 21	12 58.65	+ 0 11.4	1.537	2.510	7.3	21.0	161 E	45	64
5 1	12 49.02	+ 0 36.6	1.563	2.486	11.8	21.2	150 E	46	63
5 11	12 41.49	+ 0 44.8	1.612	2.461	15.8	21.4	139 E	46	63
329275 1999 VP_6									
3 12	13 39.31	−27 49.5	0.816	1.679	24.4	21.7	136 W	17	88
3 17	13 36.24	−27 38.2	0.770	1.665	22.1	21.5	141 W	17	88
3 22	13 31.86	−27 13.1	0.727	1.652	19.6	21.3	146 W	18	89
3 27	13 26.20	−26 32.1	0.688	1.637	16.8	21.1	152 W	18	89
4 1	13 19.41	−25 33.7	0.654	1.622	13.8	20.8	157 W	19	90
4 6	13 11.70	−24 16.9	0.625	1.606	11.1	20.6	162 W	21	88
4 11	13 3.38	−22 42.0	0.600	1.590	9.3	20.4	165 E	22	87
4 16	12 54.81	−20 50.1	0.581	1.573	9.4	20.3	165 E	24	85
4 21	12 46.39	−18 44.3	0.568	1.555	11.6	20.3	162 E	26	83
4 26	12 38.54	−16 28.9	0.560	1.537	15.0	20.4	157 E	29	80
5 1	12 31.62	−14 9.1	0.558	1.518	19.1	20.5	151 E	31	78
5 6	12 25.90	−11 50.1	0.560	1.499	23.2	20.6	144 E	33	76
5 11	12 21.54	− 9 36.5	0.566	1.479	27.3	20.7	138 E	35	74
5 16	12 18.61	− 7 31.6	0.575	1.458	31.2	20.8	132 E	37	72
5 21	12 17.15	− 5 37.9	0.587	1.437	34.7	21.0	126 E	39	70
5 26	12 17.12	− 3 56.9	0.600	1.416	38.0	21.1	121 E	41*	68
5 31	12 18.46	− 2 29.0	0.615	1.394	41.0	21.2	115 E	42*	66
6 5	12 21.07	− 1 13.9	0.631	1.372	43.7	21.3	111 E	42*	65
6 10	12 24.84	− 0 10.9	0.647	1.349	46.2	21.4	106 E	42*	64
6 15	12 29.67	+ 0 40.9	0.662	1.326	48.4	21.4	102 E	41*	63
6 20	12 35.48	+ 1 22.4	0.676	1.303	50.4	21.5	99 E	41*	63
461374 2000 WS_{21}									
3 12	13 39.74	− 0 4.4	2.013	2.898	10.7	22.4	147 W	45	64
3 22	13 32.03	+ 1 0.1	1.977	2.927	7.2	22.2	158 W	46	63
4 1	13 22.91	+ 2 4.6	1.970	2.954	4.1	22.1	168 W	47	62
4 11	13 13.28	+ 3 2.8	1.991	2.980	3.8	22.1	169 E	48	61
4 21	13 4.05	+ 3 49.2	2.042	3.005	6.7	22.3	160 E	49	60
455224 2001 RW_{47}									
3 12	13 39.92	− 1 17.0	2.162	3.044	10.2	22.2	147 W	44	65
3 22	13 32.27	− 0 15.9	2.116	3.064	6.9	22.1	158 W	45	64
4 1	13 23.21	+ 0 46.9	2.097	3.083	3.7	21.9	168 W	46	63
4 11	13 13.57	+ 1 45.4	2.109	3.100	3.3	21.9	170 E	47	62
4 21	13 4.23	+ 2 34.4	2.150	3.117	6.1	22.1	161 E	48	61
5 1	12 55.98	+ 3 9.9	2.220	3.132	9.3	22.3	150 E	48	61
306376 1983 TA									
3 12	13 40.42	−21 12.2	2.369	3.191	11.7	21.8	140 W	24	85
3 22	13 30.57	−21 37.0	2.324	3.228	8.7	21.7	151 W	23	86
4 1	13 19.29	−21 45.5	2.306	3.265	5.8	21.5	161 W	23	86
4 11	13 7.49	−21 38.7	2.318	3.300	4.1	21.5	166 E	23	86
4 21	12 56.15	−21 19.5	2.361	3.335	5.1	21.6	163 E	24	85
5 1	12 46.13	−20 52.6	2.435	3.369	7.6	21.8	154 E	24	85
496970 2002 QV_5									
3 12	13 42.07	−13 1.1	1.902	2.763	12.4	22.0	143 W	32	77
3 22	13 35.36	−12 47.2	1.799	2.733	9.0	21.8	155 W	32	77
4 1	13 26.48	−12 19.9	1.720	2.702	4.9	21.5	167 W	33	76
4 11	13 16.21	−11 41.6	1.669	2.670	1.3	21.1	177 E	33	76
4 21	13 5.56	−10 56.7	1.647	2.638	4.7	21.3	168 E	34	75
5 1	12 55.70	−10 11.2	1.653	2.604	9.2	21.5	156 E	35	74
163683 2002 YP_2									
3 12	13 42.10	+19 28.3	1.217	2.102	16.2	21.9	144 W	64	45
3 17	13 35.51	+20 41.3	1.163	2.071	15.0	21.7	147 W	66	43
3 22	13 27.52	+21 54.0	1.114	2.038	14.2	21.6	150 W	67	42
3 27	13 18.17	+23 3.4	1.072	2.005	13.9	21.5	151 W	68	41
4 1	13 7.60	+24 6.4	1.037	1.970	14.4	21.4	151 W	69	40
4 6	12 56.02	+24 59.7	1.009	1.935	15.7	21.3	149 E	70	39
4 11	12 43.74	+25 40.5	0.988	1.898	17.6	21.3	145 E	71	38
4 16	12 31.13	+26 6.6	0.973	1.860	20.1	21.3	140 E	71	38
4 21	12 18.59	+26 16.6	0.964	1.821	22.9	21.3	135 E	71	38
4 26	12 6.55	+26 10.1	0.961	1.780	25.8	21.3	130 E	71	38
5 1	11 55.36	+25 47.8	0.962	1.738	28.8	21.4	124 E	71	38
5 6	11 45.28	+25 11.1	0.967	1.696	31.6	21.4	118 E	70	39
5 11	11 36.47	+24 21.8	0.975	1.651	34.4	21.5	113 E	69	40
5 16	11 29.03	+23 21.9	0.985	1.606	37.0	21.5	107 E	68*	41
397798 2008 PD									
3 12	13 43.18	− 5 55.4	1.593	2.475	13.2	22.1	145 W	39	70
3 22	13 36.66	− 5 4.6	1.508	2.456	9.2	21.9	157 W	40	69
4 1	13 27.80	− 4 3.6	1.449	2.437	4.6	21.5	169 W	41	68
4 11	13 17.52	− 2 58.9	1.417	2.416	2.2	21.3	175 E	42	67
4 21	13 7.00	− 1 58.3	1.412	2.395	6.5	21.5	164 E	43	66
5 1	12 57.51	− 1 9.3	1.433	2.373	11.3	21.8	153 E	44	65
276392 2002 XH_4									
3 12	13 43.44	+22 10.6	0.874	1.769	20.1	21.3	142 W	67	42
3 17	13 40.09	+23 34.7	0.843	1.753	19.1	21.2	145 W	69	40
3 22	13 35.53	+24 56.0	0.817	1.737	18.5	21.1	146 W	70	39
3 27	13 29.85	+26 11.1	0.795	1.721	18.4	21.0	147 W	71	38
4 1	13 23.19	+27 16.6	0.778	1.704	18.8	21.0	147 W	72	37
4 6	13 15.81	+28 9.4	0.765	1.687	19.8	20.9	145 W	73	36
4 11	13 7.99	+28 47.1	0.757	1.669	21.3	20.9	143 E	74	35
4 16	13 0.06	+29 8.0	0.753	1.652	23.1	21.0	140 E	74	35
4 21	12 52.35	+29 11.0	0.753	1.634	25.2	21.0	136 E	74	35
4 26	12 45.20	+28 56.0	0.756	1.616	27.4	21.1	132 E	74	35
5 1	12 38.91	+28 24.0	0.762	1.597	29.6	21.1	128 E	73	36
5 6	12 33.67	+27 36.3	0.771	1.579	31.8	21.2	124 E	73	36
5 11	12 29.60	+26 34.7	0.781	1.560	33.9	21.2	121 E	72	37
5 16	12 26.76	+25 21.0	0.794	1.541	35.9	21.3	117 E	70	39
5 21	12 25.17	+23 56.7	0.807	1.522	37.7	21.4	113 E	69	40
5 26	12 24.80	+22 23.4	0.822	1.503	39.4	21.4	110 E	67	42
5 31	12 25.60	+20 42.6	0.836	1.484	41.0	21.5	106 E	65*	43

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
463257 2012 GG_1									
3 12	13 43.44	−25 9.2	1.229	2.068	19.2	21.5	137 W	20	89
3 17	13 38.82	−25 31.1	1.184	2.061	17.3	21.3	142 W	19	90
3 22	13 33.13	−25 46.0	1.144	2.053	15.2	21.2	147 W	19	90
3 27	13 26.47	−25 52.8	1.109	2.046	13.1	21.0	152 W	19	90
4 1	13 18.99	−25 50.6	1.080	2.037	11.1	20.9	157 W	19	90
4 6	13 10.92	−25 39.2	1.057	2.028	9.4	20.8	161 W	19	90
4 11	13 2.51	−25 18.6	1.040	2.018	8.6	20.7	163 E	20	89
4 16	12 54.04	−24 49.4	1.030	2.008	8.8	20.7	162 E	20	89
4 21	12 45.81	−24 12.6	1.026	1.998	10.2	20.7	159 E	21	88
4 26	12 38.11	−23 30.0	1.028	1.987	12.3	20.8	155 E	21	88
5 1	12 31.18	−22 43.7	1.036	1.975	14.7	20.9	150 E	22	87
5 6	12 25.22	−21 55.7	1.050	1.963	17.2	21.0	145 E	23	86
5 11	12 20.32	−21 8.0	1.068	1.950	19.7	21.1	139 E	24	85
5 16	12 16.56	−20 22.4	1.091	1.936	22.0	21.2	134 E	25	84
5 21	12 13.95	−19 40.2	1.117	1.922	24.1	21.3	129 E	25	84
5 26	12 12.49	−19 2.6	1.146	1.908	26.1	21.4	124 E	26*	83
5 31	12 12.13	−18 30.2	1.177	1.893	27.8	21.5	119 E	26*	83
513125 1997 GC_{32}									
3 12	13 46.87	− 8 16.9	1.288	2.170	15.7	21.5	144 W	37	72
3 22	13 39.58	− 6 54.2	1.146	2.095	11.3	21.0	156 W	38	71
4 1	13 28.14	− 5 0.8	1.028	2.018	5.7	20.4	169 W	40	69
4 11	13 12.98	− 2 40.4	0.937	1.937	3.0	20.0	174 E	42	67
4 16	13 4.35	− 1 23.2	0.902	1.895	6.3	20.0	168 E	44	65
4 21	12 55.33	− 0 3.8	0.873	1.852	10.2	20.1	161 E	45	64
4 26	12 46.19	+ 1 15.1	0.852	1.809	14.3	20.1	154 E	46	63
5 1	12 37.26	+ 2 31.0	0.836	1.765	18.5	20.2	146 E	48	61
5 6	12 28.82	+ 3 41.7	0.826	1.720	22.6	20.2	139 E	49	60
5 11	12 21.10	+ 4 45.4	0.820	1.675	26.6	20.3	132 E	50	59
5 16	12 14.31	+ 5 40.9	0.818	1.628	30.4	20.3	125 E	51	58
5 21	12 8.59	+ 6 27.3	0.819	1.581	34.0	20.4	119 E	51	58
5 31	12 0.70	+ 7 32.2	0.824	1.484	40.7	20.4	107 E	51*	56
6 10	11 57.56	+ 8 2.5	0.827	1.384	46.7	20.5	97 E	47*	56
6 20	11 58.78	+ 8 3.1	0.824	1.282	52.4	20.4	88 E	42*	56
6 25	12 0.85	+ 7 54.0	0.819	1.230	55.2	20.4	83 E	39*	56
6 30	12 3.78	+ 7 39.5	0.809	1.178	58.0	20.4	79 E	37*	56*
7 5	12 7.45	+ 7 20.4	0.796	1.126	61.0	20.3	76 E	34*	56*
7 10	12 11.76	+ 6 57.5	0.779	1.074	64.2	20.3	72 E	32*	55*
7 15	12 16.57	+ 6 31.6	0.757	1.023	67.8	20.2	69 E	30*	54*
7 20	12 21.74	+ 6 3.5	0.730	0.973	71.7	20.2	65 E	28*	52*
7 25	12 27.06	+ 5 34.3	0.698	0.924	76.2	20.1	62 E	26*	50*
7 30	12 32.24	+ 5 5.4	0.661	0.877	81.3	20.1	59 E	24*	48*
8 4	12 36.87	+ 4 38.8	0.619	0.834	87.3	20.0	55 E	22*	45*
8 9	12 40.39	+ 4 16.6	0.573	0.795	94.3	20.1	51 E	21*	42*
8 14	12 42.03	+ 4 1.8	0.523	0.761	102.6	20.2	47 E	19*	39*
8 19	12 40.68	+ 3 58.0	0.471	0.734	112.3	20.4	42 E	17*	34*
8 24	12 34.90	+ 4 9.2	0.420	0.715	123.8	20.9	36 E	14*	28*
461836 2006 CH									
3 12	13 47.87	−26 56.7	1.629	2.434	16.8	21.6	135 W	18	89
3 17	13 42.77	−27 34.4	1.604	2.450	15.2	21.5	140 W	17	88
3 22	13 36.91	−28 5.9	1.583	2.466	13.4	21.4	145 W	17	88
3 27	13 30.42	−28 30.6	1.569	2.482	11.7	21.4	150 W	16	87
4 1	13 23.46	−28 47.9	1.561	2.497	10.2	21.3	154 W	16	87
4 6	13 16.23	−28 57.8	1.560	2.512	8.9	21.3	157 W	16	87
4 11	13 8.92	−29 0.5	1.565	2.527	8.1	21.3	159 E	16	87
4 16	13 1.74	−28 56.4	1.578	2.542	8.0	21.3	159 E	16	87
4 21	12 54.89	−28 46.3	1.597	2.557	8.5	21.3	158 E	16	87
4 26	12 48.55	−28 31.2	1.623	2.571	9.5	21.4	155 E	16	87
5 1	12 42.84	−28 12.5	1.656	2.585	10.8	21.5	151 E	17	88
5 6	12 37.89	−27 51.4	1.695	2.599	12.2	21.7	147 E	17	88
471240 2011 BT_{15}									
3 12	14 0.29	− 7 39.3	0.556	1.467	25.4	22.4	141 W	37	72
3 17	13 53.32	− 6 50.2	0.546	1.485	21.1	22.3	148 W	38	71
3 22	13 44.99	− 5 55.0	0.539	1.502	16.5	22.1	155 W	39	70
3 27	13 35.59	− 4 55.5	0.537	1.518	11.7	22.0	162 W	40	69
4 1	13 25.56	− 3 54.4	0.541	1.534	7.0	21.8	169 W	41	68
4 6	13 15.35	− 2 54.6	0.549	1.548	3.3	21.7	175 W	42	67
4 11	13 5.44	− 1 59.0	0.563	1.562	4.6	21.8	173 E	43	66
4 16	12 56.22	− 1 9.9	0.583	1.576	8.6	22.1	166 E	44	65
4 21	12 48.02	− 0 28.9	0.607	1.588	12.7	22.4	160 E	45	64
4 26	12 41.07	+ 0 2.8	0.636	1.600	16.5	22.6	153 E	45	64
307615 2003 QR_{82}									
3 12	14 7.70	− 7 52.1	2.114	2.937	12.9	21.4	139 W	37	72
3 22	14 1.76	− 7 7.5	2.048	2.956	9.6	21.2	150 W	38	71
4 1	13 53.93	− 6 15.2	2.007	2.974	5.9	21.0	162 W	39	70
4 11	13 44.92	− 5 19.8	1.994	2.991	2.4	20.8	173 W	40	69
4 21	13 35.57	− 4 26.5	2.010	3.007	3.0	20.9	171 E	41	68
5 1	13 26.79	− 3 40.4	2.056	3.022	6.5	21.2	160 E	41	68
5 11	13 19.36	− 3 5.8	2.128	3.037	10.0	21.4	149 E	42	67
363599 2004 FG_{11}									
3 12	14 7.86	− 3 5.5	0.460	1.378	27.7	21.2	140 W	42	67
3 17	14 13.33	− 2 6.8	0.381	1.321	26.7	20.7	143 W	43	66
3 22	14 19.64	− 0 35.3	0.305	1.262	25.8	20.1	147 W	44	65
3 27	14 27.94	+ 1 55.6	0.231	1.201	25.6	19.4	149 W	47	62
4 1	14 41.45	+ 6 36.9	0.161	1.139	27.5	18.5	148 W	52	57
4 2	14 45.49	+ 8 3.8	0.147	1.126	28.5	18.4	147 W	53	56
4 3	14 50.32	+ 9 47.7	0.133	1.113	29.9	18.2	146 W	55	54
4 4	14 56.21	+11 53.7	0.120	1.101	31.7	18.0	145 W	57	52
4 5	15 3.57	+14 28.9	0.107	1.088	34.1	17.8	142 W	59	50
4 6	15 13.07	+17 43.4	0.095	1.075	37.4	17.6	139 W	63	46
4 7	15 25.78	+21 51.1	0.083	1.061	41.9	17.4	135 W	67	42
4 8	15 43.58	+27 10.1	0.072	1.048	47.9	17.2	129 W	72	37
4 9	16 9.97	+33 58.7	0.063	1.035	56.3	17.1	121 W	79	30
4 10	16 51.66	+42 16.6	0.055	1.022	67.4	17.1	110 W	87	22
4 11	18 0.44	+50 51.3	0.050	1.008	81.6	17.4	96 W	84	13
4 12	19 44.68	+56 15.2	0.049	0.995	97.5	18.0	80 W	72*	7*
4 13	21 36.71	+55 19.6	0.052	0.981	112.9	18.9	64 W	57*	3*
4 14	22 56.97	+50 7.1	0.059	0.968	125.8	20.1	52 W	44*	—
4 15	23 45.86	+44 9.8	0.067	0.954	135.8	21.4	42 W	34*	—
380929 2006 HU_{30}									
3 12	14 8.49	+23 8.6	0.875	1.738	23.1	21.6	137 W	68	41
3 17	14 2.88	+24 2.9	0.828	1.715	21.8	21.4	140 W	69	40
3 22	13 55.46	+24 54.1	0.785	1.692	20.7	21.2	143 W	70	39
3 27	13 46.17	+25 38.6	0.747	1.668	19.8	21.1	145 W	71	38
4 1	13 35.11	+26 12.1	0.713	1.643	19.5	20.9	147 W	71	38
4 6	13 22.48	+26 30.5	0.685	1.617	19.9	20.8	147 W	72	37
4 11	13 8.63	+26 29.7	0.662	1.591	21.1	20.7	145 E	71	38
4 16	12 54.05	+26 6.8	0.644	1.564	23.1	20.7	142 E	71	38
4 21	12 39.31	+25 20.0	0.632	1.536	25.7	20.7	138 E	70	39
4 26	12 25.02	+24 9.3	0.625	1.508	28.8	20.7	134 E	69	40
5 1	12 11.73	+22 36.7	0.622	1.479	32.1	20.8	129 E	68	41
5 6	11 59.82	+20 45.1	0.623	1.449	35.5	20.8	124 E	66	43
5 11	11 49.53	+18 38.2	0.627	1.418	38.8	20.9	118 E	64	45
5 16	11 40.94	+16 19.6	0.633	1.388	42.1	21.0	113 E	61	48
5 21	11 34.05	+13 52.3	0.641	1.356	45.2	21.0	108 E	58*	50
5 26	11 28.79	+11 18.7	0.651	1.324	48.1	21.1	103 E	54*	53
5 31	11 25.00	+ 8 40.8	0.661	1.292	50.9	21.1	99 E	49*	55
6 5	11 22.53	+ 5 59.7	0.670	1.259	53.4	21.2	95 E	44*	58
6 10	11 21.20	+ 3 16.2	0.679	1.226	55.9	21.2	90 E	39*	61
6 15	11 20.85	+ 0 30.7	0.687	1.193	58.2	21.3	87 E	33*	63
6 20	11 21.35	− 2 16.8	0.693	1.160	60.4	21.3	83 E	28*	66*
6 25	11 22.55	− 5 6.4	0.698	1.128	62.6	21.3	80 E	23*	68*
6 30	11 24.32	− 7 58.4	0.700	1.095	64.7	21.3	77 E	18*	68*
7 5	11 26.52	−10 52.8	0.700	1.063	66.8	21.3	74 E	13*	67*
7 10	11 29.03	−13 49.8	0.697	1.032	68.9	21.3	71 E	9*	65*
7 15	11 31.72	−16 49.5	0.691	1.003	71.1	21.3	69 E	5*	63*
7 20	11 34.47	−19 52.0	0.683	0.974	73.3	21.3	67 E	—	60*
7 25	11 37.17	−22 57.5	0.671	0.947	75.6	21.3	65 E	—	56*
7 30	11 39.64	−26 5.5	0.656	0.923	78.0	21.2	63 E	—	52*
8 4	11 41.70	−29 15.5	0.638	0.901	80.5	21.2	61 E	—	48*
8 9	11 43.19	−32 26.7	0.618	0.882	83.0	21.2	60 E	—	44*
8 14	11 43.89	−35 38.2	0.594	0.867	85.7	21.2	59 E	—	40*
8 19	11 43.60	−38 48.8	0.568	0.855	88.3	21.1	58 E	—	36*
8 24	11 42.04	−41 57.5	0.539	0.847	90.8	21.1	57 E	—	32*
8 29	11 38.91	−45 2.6	0.508	0.844	93.3	21.1	57 E	—	28*
9 3	11 33.85	−48 2.6	0.476	0.845	95.5	21.0	56 E	—	24*
9 8	11 26.51	−50 56.3	0.441	0.850	97.5	21.0	57 E	—	21*
9 13	11 16.40	−53 43.4	0.406	0.860	99.0	20.9	58 W	—	19*
9 18	11 2.82	−56 24.3	0.369	0.873	100.0	20.8	59 W	—	24*
9 23	10 44.58	−58 59.9	0.331	0.890	100.2	20.6	61 W	—	28*
9 28	10 19.56	−61 30.5	0.293	0.910	99.6	20.3	64 W	—	33*
9 29	10 13.45	−61 59.9	0.286	0.915	99.4	20.3	64 W	—	34*
9 30	10 6.88	−62 28.9	0.278	0.919	99.1	20.2	65 W	—	35*
10 1	9 59.80	−62 57.5	0.270	0.924	98.7	20.2	66 W	—	36*
10 2	9 52.17	−63 25.5	0.263	0.929	98.3	20.1	67 W	—	37*
10 3	9 43.91	−63 52.8	0.255	0.933	97.8	20.0	68 W	—	38*
10 4	9 34.96	−64 19.3	0.247	0.938	97.3	19.9	69 W	—	39*
10 5	9 25.25	−64 44.6	0.240	0.943	96.7	19.8	70 W	—	40*
10 6	9 14.69	−65 8.4	0.232	0.948	96.0	19.8	71 W	—	41*
10 7	9 3.20	−65 30.3	0.225	0.954	95.2	19.7	72 W	—	42*
10 8	8 50.69	−65 49.7	0.217	0.959	94.4	19.6	73 W	—	43*
10 9	8 37.08	−66 5.9	0.210	0.964	93.4	19.5	74 W	—	45*
10 10	8 22.29	−66 18.1	0.203	0.970	92.3	19.3	76 W	—	46*
10 11	8 6.27	−66 25.2	0.195	0.975	91.1	19.2	78 W	—	47*
10 12	7 49.00	−66 25.8	0.188	0.981	89.8	19.1	79 W	—	48*

(continuation)

380929 2006 HU_{30} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 13	7 30.52	−66 18.5	0.181	0.986	88.4	19.0	81 W	—	49*
10 14	7 10.92	−66 1.6	0.174	0.992	86.8	18.8	83 W	—	50*
10 15	6 50.37	−65 33.2	0.168	0.998	85.0	18.7	85 W	—	50*
10 16	6 29.11	−64 51.2	0.161	1.004	83.0	18.6	88 W	—	51
10 17	6 7.46	−63 53.6	0.155	1.010	80.8	18.4	90 W	—	52
10 18	5 45.78	−62 38.6	0.149	1.015	78.5	18.2	93 W	—	53
10 19	5 24.41	−61 4.4	0.144	1.021	75.8	18.1	96 W	—	55
10 20	5 3.71	−59 9.8	0.138	1.027	73.0	17.9	99 W	—	57
10 21	4 43.93	−56 53.8	0.134	1.034	69.9	17.8	103 W	—	59
10 22	4 25.30	−54 16.3	0.129	1.040	66.5	17.6	107 W	—	62
10 23	4 7.92	−51 17.6	0.126	1.046	62.9	17.4	111 W	—	65
10 24	3 51.86	−47 58.8	0.123	1.052	59.1	17.3	115 W	—	68
10 25	3 37.11	−44 22.0	0.120	1.058	55.1	17.1	119 W	1	72
10 26	3 23.63	−40 29.8	0.118	1.065	50.9	17.0	124 W	5	76
10 27	3 11.36	−36 26.0	0.118	1.071	46.6	16.9	128 W	9	80
10 28	3 0.19	−32 14.5	0.118	1.077	42.3	16.8	133 W	13	84
10 29	2 50.05	−28 0.0	0.118	1.084	38.1	16.7	138 W	17	88
10 30	2 40.85	−23 46.6	0.120	1.090	34.1	16.6	142 W	21	88
10 31	2 32.49	−19 38.6	0.122	1.096	30.3	16.5	146 W	25	84
11 1	2 24.89	−15 39.2	0.125	1.103	26.8	16.5	150 E	29	80
11 2	2 17.98	−11 51.0	0.129	1.109	23.7	16.5	153 E	33	76
11 3	2 11.70	− 8 16.0	0.134	1.116	21.1	16.5	156 E	37	72
11 4	2 5.98	− 4 55.0	0.139	1.122	19.1	16.5	158 E	40	69
11 5	2 0.76	− 1 48.6	0.145	1.129	17.6	16.6	160 E	43	66
11 6	1 56.00	+ 1 3.6	0.151	1.135	16.7	16.7	161 E	46	63
11 7	1 51.66	+ 3 41.9	0.158	1.142	16.3	16.8	161 E	49	60
11 8	1 47.70	+ 6 7.2	0.166	1.148	16.4	16.9	161 E	51	58
11 9	1 44.09	+ 8 20.2	0.173	1.155	16.8	17.0	160 E	53	56
11 10	1 40.80	+10 21.9	0.181	1.162	17.5	17.1	159 E	55	54
11 11	1 37.79	+12 13.3	0.190	1.168	18.3	17.3	158 E	57	52
11 12	1 35.06	+13 55.3	0.198	1.175	19.2	17.4	157 E	59	50
11 13	1 32.57	+15 28.8	0.207	1.181	20.1	17.5	156 E	60	49
11 14	1 30.31	+16 54.5	0.216	1.188	21.0	17.7	154 E	62	47
11 15	1 28.27	+18 13.3	0.225	1.195	22.0	17.8	153 E	63	46
11 16	1 26.42	+19 25.7	0.235	1.201	22.9	17.9	152 E	64	45
11 17	1 24.76	+20 32.5	0.245	1.208	23.7	18.1	151 E	66	43
11 19	1 21.94	+22 31.0	0.265	1.221	25.3	18.3	148 E	68	41
11 21	1 19.73	+24 12.7	0.285	1.234	26.7	18.5	146 E	69	40
11 23	1 18.05	+25 40.5	0.306	1.247	28.0	18.8	144 E	71	38
11 25	1 16.84	+26 56.8	0.328	1.260	29.1	19.0	142 E	72	37
11 27	1 16.05	+28 3.6	0.350	1.274	30.1	19.1	140 E	73	36
11 29	1 15.64	+29 2.5	0.372	1.287	31.0	19.3	138 E	74	35
12 1	1 15.57	+29 54.7	0.395	1.300	31.8	19.5	136 E	75	34
12 3	1 15.81	+30 41.2	0.418	1.312	32.5	19.7	134 E	76	33
12 5	1 16.32	+31 23.0	0.442	1.325	33.1	19.8	133 E	76	33
12 7	1 17.10	+32 0.6	0.465	1.338	33.7	20.0	131 E	77	32
12 12	1 20.03	+33 20.3	0.526	1.370	34.8	20.3	127 E	78	31
12 17	1 24.21	+34 24.7	0.589	1.401	35.6	20.6	124 E	79	30
12 22	1 29.43	+35 18.7	0.653	1.432	36.2	20.9	121 E	80	29
12 27	1 35.55	+36 5.2	0.719	1.462	36.6	21.2	118 E	81	28*
1 1	1 42.41	+36 46.3	0.785	1.491	36.9	21.4	115 E	82	27*

285085 1992 UM_7

3 12	14 8.59	−13 43.2	1.553	2.378	16.6	21.4	137 W	31	78
3 22	14 4.76	−13 0.3	1.449	2.355	13.0	21.1	148 W	32	77
4 1	13 58.08	−11 58.3	1.367	2.331	8.5	20.8	160 W	33	76
4 11	13 49.19	−10 40.4	1.309	2.306	3.4	20.4	172 W	34	75
4 16	13 44.22	− 9 57.4	1.290	2.294	0.8	20.2	178 W	35	74
4 21	13 39.11	− 9 13.0	1.278	2.281	2.1	20.3	175 E	36	73
4 26	13 34.04	− 8 28.6	1.273	2.268	4.9	20.4	169 E	37	72
5 1	13 29.18	− 7 45.4	1.274	2.255	7.7	20.5	163 E	37	72
5 6	13 24.69	− 7 4.7	1.281	2.242	10.3	20.7	156 E	38	71
5 11	13 20.70	− 6 27.6	1.294	2.229	12.9	20.8	151 E	39	70
5 16	13 17.33	− 5 54.8	1.312	2.216	15.3	20.9	145 E	39	70
5 21	13 14.66	− 5 27.0	1.335	2.202	17.5	21.0	139 E	40	69
5 26	13 12.74	− 5 4.8	1.362	2.189	19.5	21.1	134 E	40	69
5 31	13 11.62	− 4 48.3	1.393	2.175	21.4	21.2	129 E	40	69
6 5	13 11.29	− 4 37.6	1.427	2.161	23.0	21.2	124 E	40*	69
6 10	13 11.74	− 4 32.5	1.464	2.147	24.4	21.3	119 E	40*	69
6 15	13 12.95	− 4 32.8	1.503	2.134	25.7	21.4	114 E	39*	69
6 20	13 14.90	− 4 38.3	1.543	2.120	26.8	21.5	110 E	38*	69

279776 1999 TA_{122}

3 12	14 10.76	−15 42.8	1.528	2.345	17.2	21.5	136 W	29	80
3 22	14 6.61	−15 28.7	1.419	2.317	13.7	21.2	147 W	30	79
4 1	13 59.39	−14 56.2	1.330	2.289	9.3	20.8	158 W	30	79
4 11	13 49.68	−14 6.4	1.265	2.260	4.2	20.5	170 W	31	78
4 16	13 44.21	−13 36.1	1.242	2.245	1.7	20.2	176 W	31	78
4 21	13 38.55	−13 3.1	1.226	2.230	2.0	20.2	176 E	32	77

279776 1999 TA_{122} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 26	13 32.88	−12 28.6	1.217	2.214	4.6	20.4	170 E	33	76
5 1	13 27.41	−11 53.7	1.214	2.199	7.4	20.5	164 E	33	76
5 6	13 22.31	−11 19.7	1.217	2.183	10.2	20.6	157 E	34	75
5 11	13 17.75	−10 47.6	1.226	2.167	12.9	20.7	151 E	34	75
5 16	13 13.83	−10 18.5	1.240	2.151	15.4	20.8	146 E	35	74
5 21	13 10.67	− 9 53.3	1.259	2.135	17.8	20.9	140 E	35	74
5 26	13 8.33	− 9 32.5	1.283	2.119	20.0	21.0	134 E	35	74
5 31	13 6.86	− 9 16.7	1.310	2.103	21.9	21.1	129 E	36	73
6 5	13 6.25	− 9 6.1	1.340	2.086	23.7	21.1	124 E	36*	73
6 10	13 6.50	− 9 0.7	1.372	2.069	25.3	21.2	119 E	36*	73
6 15	13 7.57	− 9 0.5	1.406	2.053	26.7	21.3	115 E	35*	73
6 20	13 9.45	− 9 5.2	1.442	2.036	27.9	21.4	111 E	34*	73
6 25	13 12.09	− 9 14.7	1.479	2.019	28.9	21.4	106 E	32*	73

393908 2005 UH_3

3 12	14 11.80	+53 29.2	1.907	2.551	19.8	21.9	120 W	82	11
3 17	14 2.05	+54 14.2	1.911	2.562	19.6	21.9	120 W	81	10
3 22	13 51.25	+54 47.3	1.920	2.573	19.5	22.0	121 W	80	9
3 27	13 39.68	+55 6.9	1.933	2.583	19.5	22.0	120 W	80	9
4 1	13 27.71	+55 12.1	1.950	2.593	19.6	22.0	120 W	80	9
4 6	13 15.73	+55 2.5	1.972	2.602	19.8	22.0	118 W	80	9
4 11	13 4.11	+54 38.4	1.998	2.611	20.0	22.1	117 E	80	9
4 16	12 53.18	+54 0.7	2.029	2.618	20.3	22.1	115 E	81	10
4 21	12 43.18	+53 10.6	2.063	2.626	20.6	22.2	113 E	82	11
4 26	12 34.32	+52 9.6	2.101	2.633	20.9	22.2	111 E	83	12
5 1	12 26.67	+50 59.4	2.142	2.639	21.2	22.3	108 E	84	13
5 6	12 20.28	+49 41.7	2.186	2.644	21.5	22.4	106 E	85	14

147874 2006 QP_{39}

3 12	14 14.40	−12 5.5	2.220	3.016	13.2	21.3	136 W	33	76
3 22	14 9.84	−11 24.2	2.111	2.998	10.3	21.1	147 W	34	75
4 1	14 3.16	−10 30.7	2.025	2.980	6.9	20.8	159 W	34	75
4 11	13 54.88	− 9 28.0	1.966	2.960	3.0	20.5	171 W	36	73
4 21	13 45.74	− 8 20.7	1.937	2.940	1.5	20.4	176 E	37	72
4 26	13 41.14	− 7 47.1	1.933	2.929	3.4	20.5	170 E	37	72
5 1	13 36.66	− 7 14.6	1.937	2.919	5.5	20.6	164 E	38	71
5 6	13 32.43	− 6 43.9	1.947	2.908	7.5	20.7	158 E	38	71
5 11	13 28.53	− 6 15.7	1.965	2.896	9.4	20.8	152 E	39	70
5 16	13 25.06	− 5 50.5	1.988	2.885	11.2	20.9	146 E	39	70
5 21	13 22.06	− 5 28.7	2.017	2.873	12.9	21.0	141 E	40	69
5 26	13 19.61	− 5 10.7	2.051	2.861	14.4	21.1	135 E	40	69
5 31	13 17.73	− 4 56.7	2.090	2.849	15.8	21.1	130 E	40	69
6 5	13 16.44	− 4 46.8	2.132	2.837	17.1	21.2	125 E	40	69
6 10	13 15.74	− 4 40.8	2.178	2.824	18.2	21.3	120 E	40*	69
6 15	13 15.62	− 4 38.9	2.226	2.811	19.1	21.4	115 E	39*	69
6 20	13 16.09	− 4 40.7	2.277	2.798	19.9	21.4	110 E	38*	69
6 25	13 17.11	− 4 46.2	2.329	2.785	20.5	21.5	106 E	37*	69

9950 ESA

3 12	14 20.08	−28 15.9	2.525	3.235	14.0	21.5	128 W	17	88
3 22	14 15.05	−28 14.2	2.384	3.199	11.9	21.2	139 W	17	88
4 1	14 7.67	−27 54.0	2.263	3.162	9.4	21.0	149 W	17	88
4 11	13 58.41	−27 13.4	2.168	3.124	6.6	20.8	159 W	18	89
4 21	13 47.99	−26 12.2	2.101	3.084	4.7	20.6	166 E	19	90
5 1	13 37.37	−24 53.2	2.064	3.044	5.4	20.5	164 E	20	89
5 11	13 27.56	−23 22.5	2.056	3.001	8.2	20.6	155 E	22	87
5 21	13 19.41	−21 47.7	2.075	2.958	11.5	20.7	144 E	23	86
5 31	13 13.52	−20 16.5	2.117	2.913	14.6	20.9	134 E	25	84
6 10	13 10.19	−18 55.5	2.178	2.866	17.2	21.0	123 E	26*	83
6 20	13 9.44	−17 48.5	2.253	2.818	19.3	21.1	114 E	25*	82
6 30	13 11.19	−16 57.7	2.337	2.769	20.8	21.2	104 E	23*	81
7 10	13 15.23	−16 23.2	2.424	2.718	21.9	21.3	96 E	21*	80
7 20	13 21.34	−16 4.2	2.512	2.666	22.4	21.3	87 E	18*	79*
7 30	13 29.34	−15 59.2	2.597	2.613	22.5	21.3	80 E	16*	73*
8 9	13 39.02	−16 6.4	2.677	2.558	22.2	21.3	72 E	14*	66*
8 19	13 50.23	−16 23.8	2.749	2.501	21.6	21.3	65 E	12*	59*
8 29	14 2.88	−16 49.7	2.811	2.443	20.7	21.3	59 E	10*	53*
9 8	14 16.86	−17 21.8	2.863	2.384	19.5	21.3	52 E	9*	46*
9 18	14 32.13	−17 58.5	2.903	2.323	18.2	21.2	46 E	8*	40*
9 28	14 48.65	−18 37.6	2.930	2.261	16.7	21.1	40 E	7*	34*
10 8	15 6.41	−19 17.3	2.944	2.198	15.0	21.0	35 E	6*	29*
10 18	15 25.42	−19 55.5	2.946	2.133	13.2	20.9	29 E	5*	23*
10 28	15 45.69	−20 30.1	2.935	2.067	11.3	20.7	24 E	4*	18*
11 7	16 7.23	−20 58.8	2.911	2.001	9.3	20.5	19 E	3*	13*
11 17	16 30.07	−21 19.2	2.875	1.933	7.3	20.4	14 E	2*	8*
11 27	16 54.22	−21 28.6	2.828	1.864	5.2	20.1	10 E	—	3*
12 7	17 19.67	−21 24.5	2.772	1.795	3.2	19.9	6 E	—	—
12 17	17 46.42	−21 4.0	2.708	1.726	1.6	19.7	3 E	—	—
12 27	18 14.43	−20 24.3	2.637	1.656	2.1	19.5	4 W	—	—
1 6	18 43.64	−19 22.6	2.561	1.588	4.0	19.5	6 W	—	—
1 16	19 14.00	−17 56.6	2.483	1.520	6.0	19.5	9 W	2*	—

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
506348 2017 OK_{52}									
3 12	14 20.64	−19 17.7	1.824	2.598	16.5	21.5	132 W	26	83
3 22	14 16.56	−19 28.4	1.706	2.571	13.5	21.2	143 W	26	83
4 1	14 9.64	−19 23.5	1.608	2.544	9.9	20.9	154 W	26	83
4 11	14 0.34	−19 2.2	1.534	2.516	5.8	20.6	165 W	26	83
4 21	13 49.52	−18 25.5	1.486	2.487	2.7	20.3	173 E	27	82
4 26	13 43.92	−18 2.5	1.473	2.472	3.5	20.3	171 E	27	82
5 1	13 38.41	−17 37.3	1.466	2.457	5.5	20.4	167 E	27	82
5 6	13 33.17	−17 11.0	1.466	2.442	7.7	20.5	161 E	28	81
5 11	13 28.33	−16 44.4	1.472	2.427	10.1	20.6	155 E	28	81
5 16	13 24.02	−16 18.5	1.485	2.411	12.3	20.7	149 E	29	80
5 21	13 20.34	−15 54.1	1.503	2.395	14.4	20.8	144 E	29	80
5 26	13 17.38	−15 32.1	1.526	2.380	16.4	20.9	138 E	29	80
5 31	13 15.18	−15 13.2	1.553	2.364	18.3	21.0	133 E	30	79
6 5	13 13.77	−14 57.9	1.584	2.347	20.0	21.0	128 E	30	79
6 10	13 13.14	−14 46.4	1.618	2.331	21.4	21.1	123 E	30*	79
6 15	13 13.29	−14 38.9	1.655	2.315	22.8	21.2	118 E	29*	79
6 20	13 14.19	−14 35.6	1.694	2.298	23.9	21.3	114 E	29*	79
6 25	13 15.83	−14 36.3	1.734	2.281	24.9	21.3	109 E	27*	79
6 30	13 18.17	−14 41.1	1.776	2.265	25.7	21.4	105 E	26*	79
7 5	13 21.17	−14 49.8	1.819	2.248	26.4	21.5	101 E	24*	79
363438 2003 SY_{105}									
3 12	14 22.08	−18 11.8	1.633	2.416	17.7	21.3	132 W	27	82
3 22	14 19.15	−18 19.5	1.515	2.386	14.6	21.0	143 W	27	82
4 1	14 13.17	−18 10.8	1.416	2.355	10.8	20.7	154 W	27	82
4 11	14 4.56	−17 45.1	1.340	2.324	6.2	20.3	165 W	27	82
4 16	13 59.51	−17 26.2	1.311	2.308	4.0	20.2	171 W	28	81
4 21	13 54.16	−17 3.7	1.289	2.292	2.3	20.0	175 E	28	81
4 26	13 48.68	−16 38.4	1.274	2.276	3.1	20.0	173 E	28	81
5 1	13 43.26	−16 11.0	1.265	2.260	5.4	20.1	168 E	29	80
5 6	13 38.08	−15 42.7	1.262	2.243	8.0	20.2	162 E	29	80
5 11	13 33.31	−15 14.5	1.265	2.227	10.6	20.3	156 E	30	79
5 16	13 29.09	−14 47.5	1.274	2.211	13.1	20.4	150 E	30	79
5 21	13 25.54	−14 22.6	1.289	2.194	15.5	20.5	145 E	31	78
5 26	13 22.75	−14 0.6	1.308	2.178	17.7	20.6	139 E	31	78
5 31	13 20.78	−13 42.4	1.331	2.161	19.8	20.7	134 E	31	78
6 5	13 19.67	−13 28.3	1.358	2.145	21.6	20.8	129 E	32	77
6 10	13 19.40	−13 18.7	1.388	2.128	23.3	20.9	124 E	32*	77
6 15	13 19.97	−13 13.6	1.420	2.112	24.8	20.9	119 E	31*	77
6 20	13 21.36	−13 13.1	1.455	2.095	26.1	21.0	115 E	30*	77
6 25	13 23.55	−13 17.1	1.491	2.078	27.3	21.1	111 E	29*	77
6 30	13 26.49	−13 25.5	1.528	2.062	28.2	21.1	107 E	28*	77
7 5	13 30.15	−13 38.0	1.566	2.046	29.0	21.2	103 E	26*	78
7 10	13 34.48	−13 54.3	1.604	2.029	29.7	21.3	99 E	25*	78
7 15	13 39.44	−14 14.1	1.643	2.013	30.2	21.3	95 E	24*	78
7 20	13 45.01	−14 37.0	1.682	1.997	30.6	21.3	92 E	22*	79
7 25	13 51.15	−15 2.8	1.720	1.981	30.8	21.4	89 E	21*	78*
7 30	13 57.84	−15 31.2	1.758	1.965	31.0	21.4	86 E	20*	77*
8 4	14 5.04	−16 1.6	1.796	1.949	31.1	21.5	83 E	19*	75*
8 9	14 12.73	−16 33.9	1.833	1.934	31.1	21.5	80 E	18*	73*
164222 2004 RN_9									
3 12	14 24.23	−19 59.1	0.527	1.398	32.4	21.5	131 W	25	84
3 17	14 15.98	−21 45.9	0.513	1.414	28.7	21.4	137 W	23	86
3 22	14 5.63	−23 25.3	0.502	1.430	24.8	21.2	143 W	22	87
3 27	13 53.40	−24 53.5	0.496	1.445	20.8	21.1	149 W	20	89
4 1	13 39.71	−26 6.9	0.494	1.460	17.2	21.0	154 W	19	90
4 6	13 25.17	−27 2.6	0.497	1.475	14.4	20.9	159 W	18	89
4 11	13 10.50	−27 39.6	0.505	1.488	13.0	20.9	161 E	17	88
4 16	12 56.41	−27 58.4	0.519	1.501	13.4	21.0	160 E	17	88
4 21	12 43.55	−28 1.3	0.538	1.514	15.3	21.2	157 E	17	88
4 26	12 32.39	−27 52.0	0.561	1.526	17.9	21.4	152 E	17	88
5 1	12 23.23	−27 34.6	0.589	1.537	20.7	21.6	147 E	17	88
5 6	12 16.13	−27 13.2	0.621	1.548	23.5	21.8	142 E	18	89
152941 2000 FM_{10}									
3 12	14 24.57	−14 41.3	1.470	2.267	18.7	21.2	133 W	30	79
3 22	14 15.65	−14 26.3	1.334	2.226	14.9	20.8	145 W	31	78
4 1	14 2.11	−13 50.8	1.221	2.180	9.8	20.4	158 W	31	78
4 11	13 44.41	−12 53.1	1.134	2.131	3.7	19.9	172 W	32	77
4 16	13 34.38	−12 16.4	1.102	2.105	1.1	19.6	178 E	33	76
4 21	13 23.89	−11 35.6	1.078	2.078	3.8	19.7	172 E	33	76
4 26	13 13.25	−10 51.8	1.062	2.050	7.4	19.8	165 E	34	75
5 1	13 2.78	−10 6.8	1.053	2.021	11.1	19.9	157 E	35	74
5 6	12 52.80	− 9 22.3	1.052	1.990	14.7	20.0	150 E	36	73
5 11	12 43.56	− 8 40.0	1.057	1.959	18.2	20.1	143 E	36	73
5 16	12 35.26	− 8 1.3	1.068	1.926	21.5	20.2	136 E	37	72
5 21	12 28.05	− 7 27.5	1.083	1.893	24.5	20.3	129 E	38	71

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
152941 2000 FM_{10} *(continuation)*									
5 31	12 17.20	− 6 37.6	1.124	1.821	29.8	20.5	117 E	38*	71
6 10	12 11.08	− 6 13.6	1.172	1.745	34.1	20.6	106 E	35*	70
6 20	12 9.31	− 6 14.7	1.219	1.664	37.4	20.6	96 E	31*	70
6 30	12 11.37	− 6 39.2	1.262	1.577	40.1	20.7	87 E	26*	71*
7 10	12 16.72	− 7 24.5	1.294	1.484	42.3	20.7	79 E	21*	69*
7 20	12 24.92	− 8 28.1	1.312	1.384	44.2	20.6	72 E	17*	64*
7 30	12 35.69	− 9 48.1	1.313	1.279	46.1	20.5	65 E	13*	59*
8 9	12 48.79	−11 22.5	1.294	1.166	48.3	20.3	59 E	10*	53*
8 19	13 4.10	−13 8.9	1.251	1.046	51.3	20.1	54 E	8*	48*
8 29	13 21.47	−15 4.0	1.182	0.920	55.8	19.8	49 E	6*	43*
9 3	13 30.81	−16 2.6	1.136	0.856	58.9	19.7	47 E	5*	40*
9 8	13 40.42	−16 59.9	1.082	0.790	62.9	19.5	44 E	4*	38*
9 13	13 50.09	−17 53.3	1.020	0.724	68.1	19.3	42 E	3*	36*
9 18	13 59.37	−18 38.5	0.948	0.660	74.9	19.2	39 E	3*	33*
9 20	14 2.81	−18 52.8	0.917	0.636	78.3	19.2	38 E	2*	32*
9 22	14 5.98	−19 4.0	0.885	0.612	82.0	19.1	37 E	2*	31*
9 24	14 8.79	−19 11.4	0.852	0.589	86.3	19.1	36 E	2*	30*
9 26	14 11.12	−19 13.8	0.817	0.567	91.0	19.1	34 E	1*	28*
9 28	14 12.83	−19 10.2	0.782	0.546	96.4	19.2	33 E	1*	27*
9 30	14 13.75	−18 58.9	0.746	0.528	102.4	19.3	31 E	1*	25*
10 2	14 13.70	−18 38.4	0.710	0.511	109.1	19.5	29 E	—	23*
10 4	14 12.48	−18 6.7	0.674	0.497	116.5	19.8	26 E	—	20*
10 6	14 9.90	−17 21.8	0.640	0.486	124.7	20.3	24 E	—	17*
10 8	14 5.82	−16 21.8	0.608	0.478	133.6	21.0	20 E	—	14*
313041 2000 QN_{70}									
3 12	14 34.45	+ 8 19.4	2.146	2.922	14.2	21.4	134 W	53	56
3 17	14 32.71	+ 9 18.4	2.112	2.929	13.1	21.3	138 W	54	55
3 22	14 30.39	+10 18.0	2.084	2.937	11.9	21.3	142 W	55	54
3 27	14 27.51	+11 17.1	2.062	2.944	10.8	21.2	146 W	56	53
4 1	14 24.13	+12 14.6	2.046	2.952	9.9	21.1	150 W	57	52
4 6	14 20.35	+13 9.4	2.037	2.958	9.1	21.1	152 W	58	51
4 11	14 16.23	+14 0.5	2.034	2.965	8.7	21.1	154 W	59	50
4 16	14 11.89	+14 46.8	2.039	2.971	8.6	21.1	154 W	60	49
4 21	14 7.42	+15 27.5	2.050	2.978	9.0	21.1	153 W	60	49
4 26	14 2.95	+16 1.9	2.067	2.984	9.6	21.2	150 E	61	48
5 1	13 58.58	+16 29.6	2.092	2.989	10.5	21.2	147 E	61	48
5 6	13 54.44	+16 50.4	2.122	2.995	11.5	21.3	144 E	62	47
5 11	13 50.59	+17 4.2	2.158	3.000	12.6	21.4	140 E	62	47
5 16	13 47.12	+17 11.3	2.199	3.005	13.6	21.5	136 E	62	47
5 21	13 44.09	+17 11.9	2.245	3.010	14.7	21.6	131 E	62	47
162793 2000 YY_{43}									
3 12	14 40.77	−12 2.5	2.234	2.972	14.8	21.3	130 W	33	76
3 22	14 36.75	−11 32.7	2.142	2.983	12.1	21.2	141 W	33	76
4 1	14 30.45	−10 53.1	2.071	2.993	8.9	21.0	152 W	34	75
4 11	14 22.34	−10 6.2	2.026	3.003	5.2	20.8	164 W	35	74
4 21	14 13.12	− 9 15.9	2.009	3.011	1.7	20.5	175 W	36	73
5 1	14 3.68	− 8 26.6	2.021	3.019	3.3	20.7	170 E	37	72
5 11	13 54.93	− 7 43.4	2.062	3.025	7.0	20.9	159 E	37	72
5 21	13 47.60	− 7 10.0	2.130	3.031	10.4	21.1	147 E	38	71
5 31	13 42.20	− 6 49.1	2.221	3.036	13.3	21.3	136 E	38	71
109226 2001 QH_{91}									
3 12	14 41.35	−17 16.6	2.581	3.291	13.7	21.4	128 W	28	81
3 22	14 37.27	−16 50.0	2.495	3.315	11.3	21.3	139 W	28	81
4 1	14 31.20	−16 12.2	2.430	3.338	8.4	21.1	151 W	29	80
4 11	14 23.61	−15 24.9	2.391	3.361	5.1	21.0	163 W	30	79
4 21	14 15.13	−14 30.9	2.380	3.382	1.6	20.7	175 W	30	79
5 1	14 6.52	−13 33.9	2.400	3.403	2.0	20.8	173 E	31	78
5 11	13 58.54	−12 38.8	2.450	3.423	5.4	21.1	161 E	32	77
5 21	13 51.79	−11 49.5	2.527	3.441	8.4	21.3	150 E	33	76
5 31	13 46.71	−11 9.4	2.630	3.459	11.1	21.5	139 E	34	75
358473 2007 PA_5									
3 12	14 45.78	− 6 50.2	1.413	2.187	20.4	21.3	130 W	38	71
3 22	14 46.34	− 5 57.1	1.299	2.156	17.4	21.0	140 W	39	70
4 1	14 43.68	− 4 49.3	1.202	2.125	13.7	20.6	150 W	40	69
4 11	14 37.90	− 3 31.6	1.125	2.094	9.5	20.3	160 W	41	68
4 16	14 33.99	− 2 51.2	1.095	2.078	7.6	20.1	164 W	42	67
4 21	14 29.54	− 2 11.3	1.071	2.063	6.2	20.0	167 W	43	66
4 26	14 24.71	− 1 33.4	1.053	2.047	6.0	19.9	168 W	43	66
5 1	14 19.69	− 0 58.7	1.040	2.032	7.1	19.9	166 E	44	65
5 6	14 14.67	− 0 28.6	1.034	2.016	9.2	20.0	161 E	45	64
5 11	14 9.84	− 0 4.1	1.033	2.001	11.6	20.1	157 E	45	64
5 16	14 5.38	+ 0 14.0	1.038	1.985	14.2	20.2	151 E	45	64
5 21	14 1.46	+ 0 25.0	1.048	1.970	16.7	20.3	146 E	45	64

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
358473 2007 PA_5 *(continuation)*									
5 31	13 55.73	+ 0 24.9	1.079	1.940	21.4	20.4	136 E	45	64
6 10	13 53.34	− 0 3.6	1.125	1.910	25.4	20.6	126 E	45	64
6 20	13 54.47	− 0 57.3	1.180	1.881	28.6	20.8	118 E	44*	65
6 30	13 59.05	− 2 12.0	1.242	1.853	31.1	20.9	110 E	41*	66
7 10	14 6.78	− 3 43.0	1.308	1.826	32.9	21.1	103 E	37*	68
7 20	14 17.35	− 5 26.4	1.376	1.800	34.1	21.2	96 E	34*	69
7 30	14 30.49	− 7 18.3	1.445	1.775	34.9	21.3	91 E	31*	71
8 9	14 45.93	− 9 15.3	1.514	1.752	35.2	21.4	85 E	28*	72*
8 19	15 3.45	−11 14.0	1.582	1.731	35.2	21.4	80 E	26*	71*
8 29	15 22.91	−13 11.4	1.649	1.712	34.9	21.5	76 E	24*	68*
18109 2000 NG_{11}									
3 12	14 49.64	−15 39.5	1.836	2.559	18.1	21.3	127 W	29	80
3 22	14 45.83	−15 22.2	1.723	2.551	15.2	21.1	138 W	30	79
4 1	14 38.93	−14 50.8	1.630	2.542	11.5	20.8	149 W	30	79
4 11	14 29.31	−14 6.0	1.560	2.531	7.1	20.5	162 W	31	78
4 21	14 17.76	−13 10.4	1.516	2.519	2.2	20.2	174 W	32	77
4 26	14 11.61	−12 40.1	1.506	2.512	0.4	20.0	179 E	32	77
5 1	14 5.44	−12 9.2	1.502	2.504	3.0	20.2	173 E	33	76
5 6	13 59.43	−11 38.6	1.506	2.497	5.5	20.3	166 E	33	76
5 11	13 53.72	−11 9.2	1.516	2.489	8.0	20.4	160 E	34	75
5 16	13 48.46	−10 41.9	1.533	2.480	10.4	20.6	154 E	34	75
5 21	13 43.77	−10 17.5	1.556	2.471	12.7	20.7	148 E	35	74
5 26	13 39.73	− 9 56.5	1.585	2.462	14.7	20.8	142 E	35	74
5 31	13 36.41	− 9 39.4	1.618	2.452	16.7	20.9	136 E	35	74
6 5	13 33.84	− 9 26.6	1.656	2.442	18.4	21.0	131 E	36	73
6 10	13 32.04	− 9 18.0	1.698	2.431	19.9	21.1	125 E	36*	73
6 15	13 31.00	− 9 13.8	1.742	2.420	21.2	21.2	120 E	35*	73
6 20	13 30.69	− 9 13.9	1.790	2.409	22.4	21.2	116 E	35*	73
6 25	13 31.11	− 9 18.1	1.839	2.397	23.3	21.3	111 E	33*	73
6 30	13 32.22	− 9 26.2	1.889	2.385	24.1	21.4	106 E	32*	73
7 5	13 33.98	− 9 38.0	1.940	2.372	24.8	21.5	102 E	30*	74
425537 2010 PE_{45}									
3 12	14 50.96	−24 0.5	1.883	2.572	18.7	21.4	124 W	21	88
3 22	14 49.60	−24 30.4	1.751	2.544	16.4	21.1	134 W	20	89
4 1	14 45.18	−24 46.6	1.635	2.514	13.5	20.8	144 W	20	89
4 11	14 37.84	−24 46.5	1.540	2.484	9.8	20.6	155 W	20	89
4 21	14 28.11	−24 27.7	1.468	2.454	6.0	20.3	165 W	21	88
4 26	14 22.64	−24 11.2	1.442	2.438	4.5	20.1	169 W	21	88
5 1	14 16.98	−23 50.4	1.423	2.422	4.0	20.1	170 E	21	88
5 6	14 11.32	−23 25.8	1.410	2.406	5.0	20.1	168 E	22	87
5 11	14 5.83	−22 58.4	1.404	2.390	6.8	20.1	164 E	22	87
5 16	14 0.66	−22 28.9	1.404	2.374	9.0	20.2	158 E	23	86
5 21	13 55.99	−21 58.5	1.411	2.358	11.3	20.3	153 E	23	86
5 26	13 51.93	−21 28.2	1.423	2.341	13.5	20.4	147 E	24	85
5 31	13 48.59	−20 59.1	1.440	2.325	15.6	20.5	142 E	24	85
6 5	13 46.04	−20 32.2	1.462	2.308	17.5	20.6	137 E	24	85
6 10	13 44.30	−20 8.1	1.488	2.291	19.4	20.6	132 E	25	84
6 15	13 43.39	−19 47.4	1.518	2.274	21.0	20.7	127 E	25*	84
6 20	13 43.32	−19 30.5	1.551	2.257	22.5	20.8	122 E	25*	84
6 25	13 44.07	−19 17.6	1.586	2.240	23.8	20.9	117 E	24*	83
6 30	13 45.61	−19 8.9	1.623	2.223	24.9	20.9	113 E	24*	83
7 5	13 47.91	−19 4.3	1.661	2.206	25.9	21.0	109 E	23*	83
7 10	13 50.93	−19 3.7	1.701	2.189	26.7	21.1	104 E	22*	83
7 15	13 54.62	−19 6.8	1.741	2.172	27.4	21.1	101 E	21*	83
7 20	13 58.97	−19 13.5	1.782	2.154	27.9	21.2	97 E	19*	83
7 25	14 3.93	−19 23.5	1.823	2.137	28.3	21.2	93 E	18*	83*
7 30	14 9.47	−19 36.4	1.864	2.120	28.6	21.2	90 E	17*	82*
8 4	14 15.56	−19 52.1	1.904	2.102	28.8	21.3	87 E	16*	80*
8 9	14 22.16	−20 10.0	1.944	2.085	28.9	21.3	83 E	16*	77*
8 14	14 29.26	−20 29.9	1.983	2.068	28.9	21.3	80 E	15*	74*
8 19	14 36.84	−20 51.5	2.021	2.051	28.8	21.4	77 E	14*	71*
8 24	14 44.88	−21 14.4	2.059	2.033	28.6	21.4	74 E	13*	68*
8 29	14 53.36	−21 38.3	2.095	2.016	28.4	21.4	72 E	13*	65*
9 3	15 2.27	−22 2.8	2.130	1.999	28.1	21.4	69 E	12*	63*
9 8	15 11.58	−22 27.5	2.163	1.983	27.7	21.4	66 E	12*	60*
9 13	15 21.29	−22 52.2	2.196	1.966	27.3	21.4	64 E	12*	57*
9 18	15 31.39	−23 16.4	2.227	1.949	26.8	21.4	61 E	11*	55*
9 23	15 41.87	−23 39.8	2.256	1.933	26.3	21.4	59 E	11*	53*
9 28	15 52.72	−24 2.2	2.285	1.917	25.7	21.4	56 E	11*	50*
10 3	16 3.91	−24 23.0	2.311	1.901	25.1	21.4	54 E	10*	48*
10 8	16 15.45	−24 42.0	2.337	1.886	24.5	21.4	52 E	10*	46*
10 13	16 27.31	−24 58.8	2.361	1.870	23.9	21.3	49 E	10*	43*
10 18	16 39.50	−25 13.1	2.383	1.855	23.2	21.3	47 E	10*	41*
10 23	16 51.99	−25 24.6	2.405	1.840	22.5	21.3	45 E	10*	39*
10 28	17 4.75	−25 32.9	2.424	1.826	21.7	21.3	43 E	10*	37*
11 2	17 17.78	−25 37.8	2.443	1.812	21.0	21.3	41 E	10*	35*
11 7	17 31.04	−25 38.9	2.460	1.798	20.2	21.2	39 E	10*	32*
11 12	17 44.53	−25 36.0	2.476	1.785	19.4	21.2	37 E	10*	30*
11 17	17 58.21	−25 28.9	2.491	1.772	18.6	21.2	35 E	10*	28*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
425537 2010 PE_{45} *(continuation)*									
11 22	18 12.06	−25 17.3	2.505	1.760	17.8	21.1	33 E	10*	26*
11 27	18 26.05	−25 1.2	2.518	1.748	16.9	21.1	31 E	10*	24*
12 2	18 40.15	−24 40.3	2.530	1.737	16.1	21.1	29 E	10*	21*
12 7	18 54.34	−24 14.5	2.541	1.726	15.2	21.1	27 E	9*	19*
12 12	19 8.59	−23 43.8	2.551	1.716	14.3	21.0	26 E	9*	17*
12 17	19 22.88	−23 8.2	2.560	1.707	13.5	21.0	24 E	9*	15*
12 22	19 37.17	−22 27.8	2.569	1.698	12.6	20.9	22 E	9*	13*
12 27	19 51.44	−21 42.5	2.577	1.690	11.7	20.9	20 E	8*	11*
1 1	20 5.67	−20 52.5	2.584	1.682	10.8	20.9	19 E	7*	9*
1 6	20 19.84	−19 57.9	2.591	1.676	9.9	20.8	17 E	7*	8*
1 11	20 33.94	−18 58.9	2.597	1.669	9.0	20.8	15 E	6*	6*
1 16	20 47.94	−17 55.7	2.603	1.664	8.1	20.7	14 E	5*	4*
247760 2003 QN_5									
3 12	14 51.67	−42 13.2	2.533	3.093	16.9	21.5	115 W	3	74
3 22	14 48.02	−43 1.8	2.419	3.091	15.5	21.3	124 W	2	73
4 1	14 41.38	−43 32.2	2.320	3.089	13.7	21.2	133 W	1	72
4 11	14 32.16	−43 39.3	2.240	3.086	11.7	21.0	141 W	1	72
4 21	14 21.10	−43 19.1	2.182	3.081	9.9	20.9	148 W	2	73
5 1	14 9.33	−42 30.1	2.149	3.076	8.8	20.8	152 E	2	73
5 11	13 58.16	−41 15.4	2.142	3.070	9.0	20.8	152 E	4	75
5 21	13 48.67	−39 41.5	2.162	3.062	10.3	20.9	147 E	5	76
5 31	13 41.64	−37 57.2	2.206	3.054	12.3	21.0	140 E	7	78
6 10	13 37.44	−36 11.8	2.272	3.045	14.4	21.1	132 E	9	80
6 20	13 36.10	−34 32.6	2.356	3.035	16.3	21.2	123 E	10*	81
6 30	13 37.45	−33 4.8	2.455	3.023	17.8	21.4	115 E	10*	83
306703 2000 WT									
3 12	14 57.45	−42 25.4	2.384	2.938	17.9	21.5	114 W	3	74
3 22	14 53.39	−43 45.7	2.287	2.951	16.4	21.3	123 W	1	72
4 1	14 46.00	−44 48.7	2.205	2.963	14.6	21.2	131 W	—	71
4 11	14 35.66	−45 28.4	2.142	2.974	12.7	21.1	139 W	—	71
4 21	14 23.19	−45 39.6	2.100	2.984	10.9	21.0	146 W	—	70
5 1	14 9.88	−45 19.8	2.083	2.994	9.9	20.9	149 E	—	71
5 11	13 57.21	−44 31.5	2.090	3.002	10.0	20.9	149 E	—	71
5 21	13 46.45	−43 21.0	2.123	3.009	11.1	21.0	145 E	2	73
5 31	13 38.48	−41 57.4	2.180	3.016	12.8	21.1	139 E	3	74
6 10	13 33.66	−40 30.2	2.257	3.021	14.7	21.3	131 E	4*	75
6 20	13 31.98	−39 7.1	2.351	3.026	16.4	21.4	123 E	5*	77
297847 2002 CH_7									
3 12	14 59.30	−28 36.7	2.028	2.671	18.7	21.4	120 W	16	87
3 22	14 54.23	−29 59.2	1.939	2.694	16.4	21.3	130 W	15	86
4 1	14 45.86	−31 8.4	1.868	2.715	13.5	21.1	141 W	14	85
4 11	14 34.62	−31 59.5	1.819	2.736	10.4	20.9	150 W	13	84
4 21	14 21.38	−32 28.1	1.796	2.756	7.7	20.8	159 W	13	84
5 1	14 7.46	−32 33.0	1.800	2.774	6.6	20.8	162 E	12	83
5 11	13 54.32	−32 17.0	1.833	2.792	8.0	20.9	157 E	13	84
5 21	13 43.15	−31 46.5	1.893	2.809	10.7	21.1	149 E	13	84
5 31	13 34.79	−31 9.4	1.976	2.825	13.5	21.3	140 E	14	85
306869 2001 SH_{288}									
3 12	15 4.77	− 5 49.8	1.516	2.242	21.2	21.4	125 W	39	70
3 22	15 5.76	− 5 18.5	1.389	2.208	18.7	21.1	135 W	40	69
4 1	15 3.47	− 4 37.2	1.279	2.173	15.4	20.8	145 W	40	69
4 11	14 57.83	− 3 50.0	1.187	2.137	11.4	20.4	155 W	41	68
4 16	14 53.83	− 3 25.8	1.148	2.119	9.4	20.3	160 W	42	67
4 21	14 49.13	− 3 2.3	1.116	2.101	7.5	20.1	164 W	42	67
4 26	14 43.87	− 2 40.7	1.090	2.083	6.3	20.0	167 W	42	67
5 1	14 38.22	− 2 22.0	1.070	2.064	6.2	19.9	167 W	43	66
5 6	14 32.36	− 2 7.2	1.055	2.046	7.5	19.9	165 E	43	66
5 11	14 26.50	− 1 57.3	1.047	2.028	9.6	20.0	161 E	43	66
5 21	14 15.57	− 1 54.5	1.048	1.991	14.6	20.1	150 E	43	66
5 31	14 6.91	− 2 17.1	1.068	1.954	19.7	20.3	140 E	43	66
6 10	14 1.52	− 3 4.9	1.104	1.917	24.1	20.5	130 E	42	67
6 20	13 59.82	− 4 15.0	1.151	1.880	27.8	20.6	120 E	41*	68
6 30	14 1.87	− 5 44.1	1.206	1.844	30.8	20.8	112 E	38*	70
7 10	14 7.47	− 7 28.0	1.266	1.809	33.0	20.9	104 E	34*	71
7 20	14 16.30	− 9 23.1	1.328	1.774	34.6	21.0	98 E	30*	73
7 30	14 28.10	−11 26.3	1.390	1.741	35.7	21.1	91 E	27*	75*
8 9	14 42.58	−13 34.2	1.451	1.709	36.3	21.1	86 E	24*	76*
8 19	14 59.56	−15 43.7	1.510	1.678	36.5	21.2	81 E	21*	73*
8 29	15 18.91	−17 51.7	1.568	1.650	36.5	21.2	76 E	19*	70*
9 8	15 40.48	−19 54.7	1.623	1.624	36.2	21.3	72 E	17*	66*
9 18	16 4.20	−21 49.2	1.676	1.600	35.6	21.3	68 E	16*	62*
9 28	16 29.96	−23 31.5	1.727	1.579	34.9	21.3	64 E	15*	58*
10 8	16 57.61	−24 57.7	1.777	1.561	34.1	21.3	61 E	14*	55*
10 18	17 26.96	−26 4.0	1.826	1.546	33.1	21.3	58 E	14*	52*
10 28	17 57.75	−26 47.0	1.875	1.535	31.9	21.4	55 E	14*	49*
11 7	18 29.61	−27 4.1	1.924	1.528	30.7	21.4	52 E	14*	45*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
306869 2001 SH_{288} *(continuation)*									
11 17	19 2.17	−26 53.5	1.974	1.524	29.4	21.4	49 E	14*	42*
11 27	19 34.99	−26 14.7	2.025	1.524	28.0	21.4	47 E	15*	39*
12 7	20 7.64	−25 8.4	2.077	1.528	26.5	21.4	44 E	16*	35*
12 17	20 39.80	−23 36.6	2.132	1.536	25.0	21.4	41 E	16*	32*
12 27	21 11.19	−21 42.1	2.189	1.547	23.4	21.5	39 E	17*	29*
1 6	21 41.63	−19 28.7	2.248	1.562	21.7	21.5	36 E	17*	25*
498144 2007 TR_{73}									
3 12	15 10.20	−34 30.1	1.559	2.184	24.2	21.5	116 W	10	81
3 17	15 12.38	−35 24.6	1.489	2.163	23.5	21.3	120 W	10	81
3 22	15 13.78	−36 17.9	1.422	2.142	22.7	21.2	124 W	9	80
3 27	15 14.31	−37 9.7	1.357	2.121	21.8	21.1	128 W	8	79
4 1	15 13.88	−37 59.3	1.296	2.100	20.7	20.9	132 W	7	78
4 6	15 12.45	−38 45.8	1.239	2.079	19.5	20.7	136 W	6	77
4 11	15 9.98	−39 28.3	1.185	2.057	18.2	20.6	140 W	6	77
4 16	15 6.43	−40 5.6	1.136	2.036	16.8	20.4	144 W	5	76
4 21	15 1.83	−40 36.4	1.092	2.014	15.4	20.3	148 W	4	75
4 26	14 56.28	−40 59.2	1.052	1.993	14.2	20.1	151 W	4	75
5 1	14 49.94	−41 12.7	1.017	1.971	13.1	20.0	154 W	4	75
5 6	14 43.03	−41 16.0	0.987	1.949	12.6	19.9	155 E	4	75
5 11	14 35.82	−41 8.6	0.963	1.928	12.6	19.8	155 E	4	75
5 16	14 28.61	−40 50.4	0.944	1.906	13.3	19.7	154 E	4	75
5 21	14 21.74	−40 21.9	0.930	1.885	14.5	19.7	152 E	5	76
5 26	14 15.52	−39 44.5	0.920	1.863	16.3	19.7	149 E	5	76
5 31	14 10.23	−38 59.8	0.916	1.842	18.3	19.8	145 E	6	77
6 5	14 6.06	−38 10.1	0.915	1.821	20.4	19.8	141 E	7	78
6 10	14 3.14	−37 17.5	0.919	1.800	22.7	19.9	137 E	8	79
6 15	14 1.53	−36 23.7	0.926	1.779	24.8	19.9	133 E	9	80
6 20	14 1.28	−35 30.7	0.936	1.758	26.9	20.0	128 E	9*	80
6 25	14 2.37	−34 39.8	0.948	1.738	28.9	20.1	124 E	10*	81
6 30	14 4.77	−33 52.1	0.963	1.718	30.7	20.1	120 E	10*	82
7 5	14 8.40	−33 8.5	0.979	1.698	32.4	20.2	117 E	10*	83
7 10	14 13.19	−32 29.0	0.997	1.679	33.9	20.2	113 E	10*	84
7 15	14 19.06	−31 53.9	1.016	1.660	35.2	20.3	110 E	10*	84
7 20	14 25.96	−31 22.9	1.035	1.642	36.5	20.3	106 E	10*	85
7 30	14 42.58	−30 32.4	1.077	1.606	38.4	20.4	100 E	10*	85
8 9	15 2.51	−29 53.7	1.119	1.574	39.9	20.5	95 E	10*	86*
8 19	15 25.31	−29 21.6	1.163	1.544	41.0	20.6	90 E	11*	82*
8 29	15 50.61	−28 51.2	1.207	1.518	41.6	20.6	86 E	12*	79*
9 8	16 18.00	−28 17.0	1.252	1.495	41.9	20.7	82 E	13*	76*
9 18	16 47.08	−27 34.0	1.298	1.476	41.9	20.7	79 E	14*	72*
9 28	17 17.47	−26 38.3	1.346	1.462	41.6	20.8	75 E	16*	69*
10 8	17 48.71	−25 26.6	1.396	1.453	41.0	20.8	73 E	17*	66*
10 18	18 20.40	−23 57.2	1.448	1.448	40.2	20.9	70 E	19*	63*
10 28	18 52.19	−22 9.3	1.505	1.449	39.3	21.0	67 E	22*	60*
11 7	19 23.70	−20 3.4	1.565	1.454	38.1	21.0	65 E	24*	56*
11 17	19 54.71	−17 41.2	1.629	1.464	36.8	21.1	62 E	26*	52*
11 27	20 25.04	−15 4.9	1.698	1.479	35.3	21.2	60 E	29*	47*
12 7	20 54.58	−12 17.2	1.772	1.498	33.8	21.2	58 E	31*	42*
12 17	21 23.29	− 9 21.0	1.850	1.521	32.1	21.3	55 E	33*	37*
12 27	21 51.20	− 6 19.2	1.933	1.548	30.3	21.4	53 E	35*	32*
1 6	22 18.34	− 3 14.7	2.019	1.578	28.5	21.5	50 E	36*	27*
74721 1999 RH_{167}									
3 12	15 12.94	−17 2.3	2.368	3.005	16.4	21.3	121 W	28	81
3 22	15 11.26	−17 0.9	2.236	2.991	14.4	21.1	132 W	28	81
4 1	15 7.04	−16 50.2	2.122	2.977	11.8	20.9	142 W	28	81
4 11	15 0.43	−16 30.2	2.029	2.962	8.6	20.7	154 W	28	81
4 21	14 51.85	−16 1.8	1.961	2.945	4.8	20.4	166 W	29	80
5 1	14 42.00	−15 27.0	1.921	2.928	0.7	20.1	178 W	30	79
5 6	14 36.90	−15 8.3	1.912	2.919	1.4	20.1	176 E	30	79
5 11	14 31.84	−14 49.3	1.910	2.910	3.5	20.3	170 E	30	79
5 16	14 26.95	−14 30.7	1.916	2.901	5.6	20.4	164 E	30	79
5 21	14 22.33	−14 13.0	1.928	2.891	7.6	20.5	158 E	31	78
5 31	14 14.35	−13 42.4	1.972	2.871	11.3	20.7	146 E	31	78
6 10	14 8.50	−13 21.2	2.039	2.850	14.5	20.8	135 E	32	77
6 20	14 5.08	−13 11.5	2.122	2.828	17.2	21.0	125 E	32*	77
6 30	14 4.18	−13 14.1	2.219	2.806	19.2	21.1	115 E	30*	77
7 10	14 5.72	−13 28.7	2.325	2.782	20.6	21.3	106 E	28*	77
7 20	14 9.50	−13 54.2	2.435	2.758	21.4	21.4	97 E	25*	78
7 30	14 15.33	−14 29.4	2.547	2.732	21.8	21.5	89 E	23*	78*
173530 2000 WF_{13}									
3 12	15 22.54	−13 31.1	1.915	2.558	19.7	21.3	120 W	31	78
3 22	15 23.07	−13 34.9	1.778	2.531	17.7	21.1	129 W	31	78
4 1	15 20.67	−13 30.9	1.655	2.504	14.9	20.8	140 W	31	78
4 11	15 15.25	−13 19.9	1.551	2.476	11.3	20.5	151 W	32	77
4 21	15 7.04	−13 2.9	1.470	2.447	7.1	20.2	163 W	32	77
5 1	14 56.68	−12 42.2	1.413	2.418	2.5	19.8	174 W	32	77

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
173530 2000 WF_{13} *(continuation)*									
5 6	14 51.04	−12 31.6	1.395	2.403	1.7	19.7	176 E	32	77
5 11	14 45.29	−12 21.5	1.384	2.388	3.6	19.8	171 E	33	76
5 16	14 39.60	−12 12.4	1.380	2.372	6.1	19.9	166 E	33	76
5 21	14 34.15	−12 4.9	1.381	2.357	8.6	20.1	160 E	33	76
5 31	14 24.56	−11 57.0	1.403	2.326	13.4	20.2	148 E	33	76
6 10	14 17.51	−12 1.2	1.446	2.294	17.6	20.4	137 E	33	76
6 20	14 13.52	−12 19.3	1.505	2.262	21.2	20.6	126 E	33*	76
6 30	14 12.78	−12 51.5	1.576	2.229	24.0	20.8	117 E	31*	77
7 10	14 15.20	−13 36.9	1.655	2.196	26.1	20.9	108 E	29*	78
7 20	14 20.54	−14 33.7	1.738	2.163	27.5	21.0	100 E	26*	79
7 30	14 28.57	−15 40.0	1.823	2.130	28.4	21.1	93 E	23*	80
8 9	14 39.00	−16 53.6	1.907	2.096	28.8	21.2	86 E	20*	78*
8 19	14 51.63	−18 12.1	1.988	2.063	28.9	21.2	80 E	18*	73*
8 29	15 6.30	−19 33.5	2.066	2.030	28.5	21.3	74 E	16*	68*
9 8	15 22.84	−20 55.4	2.139	1.997	27.9	21.3	68 E	15*	62*
9 18	15 41.15	−22 15.4	2.206	1.965	27.1	21.3	63 E	13*	57*
9 28	16 1.17	−23 31.1	2.268	1.933	26.1	21.3	58 E	12*	52*
10 8	16 22.78	−24 40.1	2.324	1.901	24.9	21.3	53 E	11*	47*
10 18	16 45.92	−25 39.8	2.374	1.871	23.6	21.2	49 E	10*	43*
10 28	17 10.49	−26 27.7	2.418	1.842	22.1	21.2	44 E	10*	38*
11 7	17 36.34	−27 1.2	2.456	1.814	20.6	21.2	40 E	9*	34*
11 17	18 3.31	−27 18.2	2.489	1.788	19.0	21.1	36 E	9*	30*
11 27	18 31.22	−27 16.7	2.517	1.763	17.4	21.0	32 E	8*	25*
12 7	18 59.81	−26 55.2	2.540	1.740	15.7	21.0	29 E	8*	21*
12 17	19 28.86	−26 12.8	2.559	1.719	14.0	20.9	25 E	7*	18*
12 27	19 58.12	−25 9.2	2.576	1.700	12.3	20.8	22 E	6*	14*
1 6	20 27.33	−23 44.9	2.589	1.684	10.6	20.8	18 E	5*	11*
1 16	20 56.34	−22 1.0	2.600	1.671	8.9	20.7	15 E	3*	8*
196068 2002 TW_{55}									
3 12	15 24.25	+84 16.8	2.620	2.902	19.9	23.4	96 W	51	—
3 13	15 16.71	+84 28.9	2.619	2.897	19.9	23.4	96 W	51	—
3 14	15 8.39	+84 40.5	2.618	2.892	20.0	23.4	96 W	50	—
3 15	14 59.24	+84 51.3	2.618	2.887	20.1	23.4	95 W	50	—
3 16	14 49.22	+85 1.4	2.617	2.883	20.1	23.4	95 W	50	—
3 17	14 38.31	+85 10.6	2.617	2.878	20.2	23.4	95 W	50	—
3 18	14 26.51	+85 18.9	2.616	2.873	20.2	23.4	95 W	50	—
3 19	14 13.84	+85 26.0	2.616	2.868	20.3	23.4	94 W	50	—
3 20	14 0.37	+85 32.0	2.615	2.863	20.3	23.4	94 W	49	—
3 21	13 46.18	+85 36.7	2.615	2.858	20.4	23.4	94 W	49	—
3 22	13 31.40	+85 40.0	2.615	2.853	20.4	23.4	93 W	49	—
3 23	13 16.21	+85 41.8	2.615	2.848	20.5	23.4	93 W	49	—
3 24	13 0.80	+85 42.1	2.614	2.843	20.5	23.4	93 W	49	—
3 25	12 45.36	+85 40.9	2.614	2.838	20.6	23.4	92 W	49	—
3 26	12 30.12	+85 38.1	2.614	2.833	20.6	23.4	92 W	49	—
3 27	12 15.27	+85 33.8	2.614	2.828	20.7	23.4	92 E	49	—
3 28	12 0.97	+85 28.1	2.614	2.823	20.7	23.4	92 E	50	—
3 29	11 47.37	+85 21.1	2.614	2.818	20.7	23.4	91 E	50	—
3 30	11 34.55	+85 12.7	2.614	2.813	20.8	23.4	91 E	50	—
3 31	11 22.59	+85 3.1	2.614	2.808	20.8	23.4	91 E	50	—
4 1	11 11.51	+84 52.4	2.615	2.802	20.9	23.4	90 E	50	—
4 2	11 1.30	+84 40.8	2.615	2.797	20.9	23.3	90 E	50	—
4 3	10 51.96	+84 28.2	2.615	2.792	21.0	23.3	90 E	51	—
4 4	10 43.44	+84 14.8	2.615	2.787	21.0	23.3	89 E	51	—
4 5	10 35.70	+84 0.7	2.616	2.781	21.1	23.3	89 E	51	—
4 6	10 28.68	+83 45.9	2.616	2.776	21.1	23.3	88 E	51	—
4 7	10 22.35	+83 30.4	2.616	2.771	21.2	23.3	88 E	51	—
4 8	10 16.64	+83 14.5	2.617	2.766	21.2	23.3	88 E	52	—
4 9	10 11.50	+82 58.1	2.617	2.760	21.3	23.3	87 E	52	—
4 10	10 6.89	+82 41.2	2.618	2.755	21.3	23.3	87 E	52	—
4 11	10 2.75	+82 23.9	2.618	2.749	21.3	23.3	87 E	53	—
4 12	9 59.06	+82 6.2	2.619	2.744	21.4	23.3	86 E	53	—
4 13	9 55.76	+81 48.2	2.619	2.739	21.4	23.3	86 E	53	—
4 14	9 52.82	+81 29.9	2.620	2.733	21.5	23.3	86 E	54	—
4 15	9 50.22	+81 11.4	2.621	2.728	21.5	23.3	85 E	54	—
344474 2002 PN_{113}									
3 12	15 24.27	−27 37.5	3.407	3.939	13.2	21.4	116 W	17	88
3 22	15 22.64	−27 39.5	3.258	3.924	11.9	21.3	126 W	17	88
4 1	15 19.02	−27 32.0	3.125	3.907	10.2	21.1	136 W	17	88
4 11	15 13.56	−27 13.8	3.012	3.890	8.1	20.9	147 W	18	89
4 21	15 6.56	−26 44.1	2.924	3.872	5.7	20.7	158 W	18	89
5 1	14 58.51	−26 3.2	2.864	3.854	3.2	20.5	168 W	19	90
5 11	14 50.05	−25 12.7	2.833	3.834	2.4	20.4	171 E	20	89
5 16	14 45.87	−24 44.7	2.830	3.824	3.2	20.5	168 E	20	89
5 21	14 41.84	−24 15.6	2.833	3.814	4.4	20.6	163 E	21	88
5 26	14 38.04	−23 45.7	2.845	3.804	5.7	20.6	158 E	21	88
5 31	14 34.54	−23 15.7	2.863	3.793	7.0	20.7	153 E	22	87
6 5	14 31.40	−22 46.1	2.887	3.782	8.3	20.8	147 E	22	87
6 10	14 28.65	−22 17.4	2.918	3.771	9.5	20.8	142 E	23	86
6 15	14 26.34	−21 49.9	2.955	3.760	10.7	20.9	137 E	23	86

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
344474 2002 PN_{113} *(continuation)*									
6 20	14 24.49	−21 24.2	2.996	3.749	11.7	21.0	132 E	24	85
6 25	14 23.12	−21 0.5	3.042	3.737	12.6	21.0	126 E	24*	85
6 30	14 22.23	−20 39.0	3.093	3.725	13.5	21.1	121 E	24*	85
7 5	14 21.83	−20 20.0	3.146	3.713	14.2	21.1	117 E	23*	84
7 10	14 21.89	−20 3.5	3.202	3.701	14.8	21.2	112 E	23*	84
7 15	14 22.42	−19 49.5	3.260	3.689	15.3	21.2	107 E	22*	84
7 20	14 23.40	−19 38.0	3.320	3.676	15.7	21.3	102 E	21*	84
7 25	14 24.81	−19 29.1	3.382	3.663	15.9	21.3	98 E	20*	83
7 30	14 26.63	−19 22.6	3.443	3.650	16.1	21.4	94 E	19*	83*
8 4	14 28.85	−19 18.4	3.505	3.637	16.2	21.4	89 E	18*	82*
8 9	14 31.44	−19 16.4	3.567	3.623	16.2	21.4	85 E	17*	78*
8 14	14 34.39	−19 16.4	3.628	3.610	16.1	21.5	81 E	16*	75*
8 19	14 37.68	−19 18.3	3.688	3.596	15.9	21.5	77 E	16*	71*
8 24	14 41.29	−19 21.9	3.746	3.582	15.7	21.5	73 E	15*	67*
290124 2005 QC_{142}									
3 12	15 30.73	− 5 20.1	1.871	2.509	20.3	21.5	119 W	40	69
3 22	15 30.60	− 3 32.1	1.787	2.533	17.9	21.3	129 W	41	68
4 1	15 27.54	− 1 32.8	1.719	2.555	15.0	21.1	139 W	43	66
4 11	15 21.78	+ 0 31.3	1.671	2.577	11.9	21.0	148 W	46	63
4 21	15 13.81	+ 2 31.9	1.648	2.598	9.1	20.9	156 W	48	61
5 1	15 4.46	+ 4 19.8	1.651	2.618	7.9	20.8	159 W	49	60
5 11	14 54.79	+ 5 46.3	1.682	2.636	9.0	20.9	156 E	51	58
5 21	14 45.81	+ 6 46.5	1.738	2.654	11.5	21.1	149 E	52	57
5 31	14 38.40	+ 7 18.5	1.817	2.671	14.2	21.3	140 E	52	57
206918 2004 PT_{89}									
3 12	15 34.94	−15 32.1	1.786	2.398	21.8	21.4	116 W	29	80
3 22	15 37.85	−15 24.0	1.650	2.373	20.0	21.2	126 W	30	79
4 1	15 37.81	−15 5.0	1.526	2.346	17.4	20.9	136 W	30	79
4 11	15 34.63	−14 35.6	1.419	2.319	13.9	20.6	146 W	30	79
4 21	15 28.35	−13 56.8	1.331	2.292	9.7	20.3	157 W	31	78
5 1	15 19.43	−13 11.1	1.267	2.263	5.0	19.9	169 W	32	77
5 6	15 14.28	−12 46.9	1.244	2.249	2.9	19.7	174 W	32	77
5 11	15 8.87	−12 22.9	1.228	2.235	2.5	19.7	174 E	33	76
5 16	15 3.37	−11 59.6	1.218	2.220	4.5	19.8	170 E	33	76
5 21	14 57.96	−11 38.0	1.214	2.206	7.0	19.9	165 E	33	76
5 26	14 52.84	−11 18.8	1.216	2.191	9.7	20.0	159 E	34	75
5 31	14 48.16	−11 2.9	1.225	2.177	12.3	20.1	153 E	34	75
6 10	14 40.70	−10 42.7	1.257	2.147	17.1	20.3	142 E	34	75
6 20	14 36.29	−10 40.1	1.306	2.117	21.2	20.4	131 E	34	75
6 30	14 35.28	−10 55.5	1.368	2.087	24.6	20.6	121 E	34*	75
7 10	14 37.65	−11 27.6	1.439	2.057	27.1	20.8	113 E	32*	75
7 20	14 43.16	−12 13.9	1.515	2.027	29.0	20.9	105 E	30*	76
7 30	14 51.57	−13 11.5	1.594	1.997	30.3	21.0	97 E	27*	77
8 9	15 2.56	−14 17.4	1.674	1.968	31.0	21.1	91 E	25*	78*
8 19	15 15.89	−15 28.7	1.753	1.938	31.3	21.2	85 E	23*	76*
8 29	15 31.37	−16 42.4	1.829	1.910	31.2	21.3	79 E	21*	72*
9 8	15 48.78	−17 55.8	1.903	1.882	30.9	21.3	73 E	20*	67*
9 18	16 7.99	−19 6.1	1.972	1.855	30.2	21.3	68 E	19*	62*
9 28	16 28.88	−20 10.6	2.038	1.829	29.4	21.3	64 E	18*	57*
10 8	16 51.30	−21 6.5	2.100	1.804	28.4	21.3	59 E	17*	53*
10 18	17 15.12	−21 51.3	2.158	1.781	27.2	21.3	55 E	17*	48*
10 28	17 40.20	−22 22.6	2.212	1.759	25.9	21.3	51 E	16*	44*
11 7	18 6.34	−22 38.3	2.261	1.739	24.5	21.3	47 E	16*	39*
11 17	18 33.36	−22 36.6	2.308	1.721	23.0	21.3	43 E	16*	35*
11 27	19 1.05	−22 16.2	2.351	1.704	21.5	21.3	39 E	16*	30*
12 7	19 29.16	−21 36.5	2.391	1.690	19.8	21.2	36 E	15*	26*
12 17	19 57.49	−20 37.3	2.429	1.679	18.2	21.2	32 E	15*	22*
12 27	20 25.83	−19 19.3	2.464	1.670	16.4	21.2	29 E	14*	18*
1 6	20 53.99	−17 43.5	2.497	1.663	14.7	21.1	25 E	13*	14*
1 16	21 21.87	−15 51.8	2.528	1.659	12.9	21.1	22 E	12*	11*
481755 2008 JM_3									
3 12	15 35.76	− 9 57.0	1.148	1.829	28.9	21.5	117 W	35	74
3 22	15 35.35	−11 41.5	1.061	1.840	25.7	21.2	127 W	33	76
4 1	15 30.11	−13 33.1	0.986	1.851	21.3	20.9	138 W	31	78
4 11	15 19.76	−15 31.1	0.926	1.861	15.8	20.6	150 W	29	80
4 21	15 4.68	−17 30.6	0.888	1.871	9.3	20.3	162 W	27	82
4 26	14 55.79	−18 28.3	0.878	1.876	5.9	20.1	169 W	27	82
5 1	14 46.36	−19 23.3	0.875	1.880	2.8	20.0	175 W	26	83
5 6	14 36.74	−20 14.7	0.878	1.885	2.8	20.0	175 E	25	84
5 11	14 27.28	−21 1.9	0.888	1.889	5.9	20.2	169 E	24	85
5 16	14 18.31	−21 44.7	0.904	1.893	9.2	20.4	163 E	23	86
5 21	14 10.11	−22 23.4	0.927	1.897	12.4	20.6	156 E	23	86
5 26	14 2.93	−22 58.7	0.955	1.901	15.4	20.7	150 E	22	87
5 31	13 56.91	−23 31.3	0.988	1.905	18.1	20.9	144 E	21	88
6 5	13 52.14	−24 2.1	1.025	1.909	20.6	21.1	139 E	21	88
6 10	13 48.62	−24 31.9	1.067	1.912	22.7	21.2	133 E	20	89
6 15	13 46.35	−25 1.3	1.111	1.916	24.6	21.4	128 E	20*	89

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
311116 2004 NZ_{23}									
3 12	15 36.15	−21 24.8	1.555	2.167	24.6	21.4	115 W	24	85
3 22	15 41.92	−21 35.9	1.422	2.139	22.9	21.1	123 W	23	86
4 1	15 44.71	−21 34.1	1.301	2.110	20.4	20.8	133 W	23	86
4 11	15 44.16	−21 18.0	1.193	2.081	17.0	20.5	143 W	24	85
4 21	15 40.10	−20 46.2	1.102	2.051	12.6	20.1	153 W	24	85
5 1	15 32.81	−19 58.3	1.032	2.022	7.4	19.7	165 W	25	84
5 6	15 28.22	−19 28.9	1.005	2.008	4.5	19.5	171 W	26	83
5 11	15 23.21	−18 56.5	0.984	1.993	1.4	19.3	177 W	26	83
5 16	15 17.97	−18 21.9	0.969	1.979	1.7	19.2	177 E	27	82
5 21	15 12.71	−17 46.1	0.959	1.965	4.9	19.4	170 E	27	82
5 26	15 7.66	−17 10.4	0.956	1.950	8.1	19.5	164 E	28	81
5 31	15 3.05	−16 36.0	0.958	1.936	11.2	19.6	158 E	28	81
6 5	14 59.04	−16 4.1	0.965	1.922	14.1	19.7	152 E	29	80
6 10	14 55.79	−15 35.6	0.976	1.909	17.0	19.9	147 E	29	80
6 15	14 53.40	−15 11.4	0.992	1.895	19.6	20.0	141 E	30	79
6 20	14 51.93	−14 52.1	1.012	1.881	22.0	20.1	136 E	30	79
6 30	14 51.93	−14 29.1	1.061	1.855	26.2	20.3	126 E	30*	78
7 10	14 55.79	−14 26.8	1.120	1.830	29.4	20.4	118 E	30*	78
7 20	15 3.23	−14 42.7	1.184	1.806	31.9	20.6	110 E	29*	79
7 30	15 13.91	−15 13.3	1.253	1.783	33.7	20.8	103 E	27*	79
8 9	15 27.45	−15 54.6	1.324	1.762	34.8	20.9	97 E	26*	80
8 19	15 43.52	−16 42.2	1.396	1.742	35.5	21.0	91 E	24*	80*
8 29	16 1.85	−17 32.3	1.468	1.724	35.8	21.1	86 E	23*	78*
9 8	16 22.16	−18 20.8	1.541	1.709	35.7	21.2	81 E	23*	74*
9 18	16 44.23	−19 4.2	1.612	1.695	35.3	21.2	77 E	22*	70*
9 28	17 7.83	−19 39.1	1.683	1.684	34.6	21.3	73 E	22*	66*
10 8	17 32.73	−20 2.7	1.754	1.674	33.8	21.3	69 E	22*	62*
10 18	17 58.70	−20 12.3	1.825	1.668	32.8	21.4	65 E	22*	58*
10 28	18 25.50	−20 6.1	1.895	1.664	31.6	21.4	61 E	22*	53*
11 7	18 52.85	−19 42.6	1.965	1.663	30.3	21.5	58 E	22*	49*
8014 1990 MF									
3 12	15 36.92	−19 36.4	1.104	1.770	30.6	21.5	115 W	25	84
3 22	15 48.68	−20 2.5	0.957	1.710	29.5	21.1	122 W	25	84
4 1	15 58.67	−20 16.1	0.820	1.649	27.8	20.6	130 W	25	84
4 11	16 6.39	−20 15.7	0.693	1.586	25.1	20.1	138 W	25	84
4 16	16 9.21	−20 9.3	0.634	1.553	23.4	19.8	142 W	25	84
4 21	16 11.20	−19 58.2	0.578	1.521	21.4	19.5	147 W	25	84
4 26	16 12.26	−19 41.9	0.525	1.488	19.0	19.1	151 W	25	84
5 1	16 12.33	−19 19.6	0.476	1.455	16.3	18.8	156 W	26	83
5 6	16 11.31	−18 50.6	0.429	1.422	13.2	18.4	161 W	26	83
5 11	16 9.15	−18 14.0	0.386	1.388	9.8	18.0	166 W	27	82
5 16	16 5.75	−17 28.6	0.347	1.355	6.1	17.5	172 W	28	81
5 21	16 1.08	−16 33.1	0.310	1.322	3.2	17.1	176 W	28	81
5 26	15 55.16	−15 26.2	0.277	1.289	5.5	16.9	173 E	30	79
5 31	15 48.07	−14 6.7	0.247	1.256	10.5	16.8	167 E	31	78
6 5	15 39.94	−12 33.2	0.220	1.224	16.5	16.7	160 E	32	77
6 10	15 30.84	−10 43.5	0.195	1.192	23.1	16.6	153 E	34	75
6 15	15 20.81	− 8 34.9	0.173	1.161	30.2	16.5	145 E	36	73
6 20	15 9.85	− 6 3.1	0.152	1.132	38.0	16.4	137 E	39	70
6 25	14 57.80	− 3 1.0	0.133	1.103	46.5	16.3	128 E	42	67
6 30	14 44.10	+ 0 44.2	0.114	1.076	55.9	16.2	119 E	46*	63
7 2	14 37.90	+ 2 31.1	0.107	1.066	60.0	16.1	115 E	47*	61
7 4	14 31.10	+ 4 30.7	0.100	1.056	64.4	16.1	111 E	48*	59
7 6	14 23.50	+ 6 45.7	0.094	1.046	69.0	16.1	106 E	50*	57
7 8	14 14.87	+ 9 19.0	0.087	1.037	74.0	16.1	101 E	51*	55
7 10	14 4.87	+12 14.5	0.081	1.028	79.5	16.1	96 E	52*	52
7 12	13 53.06	+15 35.9	0.075	1.020	85.5	16.1	90 E	53*	48
7 14	13 38.84	+19 26.9	0.070	1.012	92.1	16.2	84 E	53*	45
7 16	13 21.41	+23 49.7	0.065	1.004	99.3	16.4	77 E	52*	40*
7 18	12 59.71	+28 42.4	0.061	0.997	107.3	16.6	69 E	51*	35*
7 20	12 32.43	+33 56.0	0.057	0.990	115.8	17.0	61 E	48*	28*
7 21	12 16.26	+36 34.6	0.056	0.987	120.2	17.3	57 E	46*	24*
7 22	11 58.21	+39 9.9	0.055	0.984	124.6	17.6	53 E	44*	20*
7 23	11 38.21	+41 37.2	0.055	0.981	128.9	18.0	49 E	41*	15*
7 24	11 16.28	+43 51.8	0.055	0.978	133.0	18.4	45 E	38*	10*
7 25	10 52.63	+45 48.9	0.055	0.975	136.8	18.8	41 E	35*	6*
7 26	10 27.64	+47 24.6	0.055	0.972	140.2	19.2	38 E	32*	1*
7 27	10 1.85	+48 36.2	0.056	0.970	142.9	19.6	35 E	29*	—
7 28	9 35.95	+49 22.7	0.058	0.968	145.0	20.0	33 E	25*	—
7 29	9 10.64	+49 45.0	0.059	0.966	146.3	20.3	32 E	22*	—
7 30	8 46.56	+49 45.5	0.061	0.963	146.8	20.4	31 E	19*	—
7 31	8 24.15	+49 27.7	0.063	0.962	146.6	20.5	31 W	20*	—
8 1	8 3.69	+48 55.5	0.066	0.960	145.9	20.4	32 W	23*	—
8 2	7 45.29	+48 12.6	0.068	0.958	144.6	20.3	33 W	25*	—
8 3	7 28.90	+47 22.3	0.071	0.957	143.1	20.2	35 W	28*	—
8 4	7 14.41	+46 27.5	0.074	0.955	141.3	20.0	36 W	30*	—
8 5	7 1.66	+45 30.2	0.078	0.954	139.3	19.8	38 W	32*	1*
8 6	6 50.46	+44 32.2	0.081	0.953	137.3	19.6	40 W	34*	3*

8014 1990 *MF* *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
8 7	6 40.64	+43 34.6	0.085	0.952	135.2	19.5	41 W	35*	6*
8 8	6 32.02	+42 38.3	0.088	0.952	133.2	19.4	43 W	37*	8*
8 9	6 24.46	+41 43.8	0.092	0.951	131.1	19.2	45 W	39*	10*
8 10	6 17.81	+40 51.4	0.096	0.951	129.1	19.1	47 W	40*	12*
8 11	6 11.96	+40 1.4	0.100	0.950	127.1	19.0	48 W	42*	14*
8 12	6 6.81	+39 13.8	0.104	0.950	125.2	18.9	50 W	43*	15*
8 13	6 2.28	+38 28.7	0.108	0.950	123.3	18.9	52 W	44*	17*
8 14	5 58.27	+37 45.9	0.112	0.950	121.5	18.8	53 W	45*	18*
8 15	5 54.74	+37 5.4	0.116	0.951	119.7	18.7	55 W	47*	19*
8 16	5 51.62	+36 27.1	0.120	0.951	117.9	18.7	56 W	48*	21*
8 17	5 48.86	+35 50.9	0.124	0.952	116.2	18.6	57 W	49*	22*
8 18	5 46.43	+35 16.7	0.128	0.952	114.6	18.6	59 W	50*	23*
8 19	5 44.28	+34 44.3	0.132	0.953	112.9	18.6	60 W	51*	24*
8 21	5 40.71	+33 44.6	0.140	0.955	109.8	18.5	63 W	53*	25*
8 23	5 37.94	+32 50.9	0.149	0.958	106.8	18.5	65 W	55*	27*
8 25	5 35.81	+32 2.5	0.157	0.962	103.9	18.4	67 W	57*	28*
8 27	5 34.20	+31 18.7	0.165	0.966	101.1	18.4	70 W	58*	30*
8 29	5 33.01	+30 38.8	0.173	0.970	98.4	18.4	72 W	60*	31*
8 31	5 32.14	+30 2.3	0.181	0.975	95.8	18.4	74 W	61*	32*
9 2	5 31.53	+29 28.8	0.188	0.981	93.2	18.3	76 W	63*	33*
9 4	5 31.11	+28 58.0	0.196	0.987	90.8	18.3	78 W	64*	34*
9 6	5 30.83	+28 29.4	0.203	0.993	88.3	18.3	80 W	65*	34*
9 8	5 30.65	+28 2.8	0.210	1.000	86.0	18.3	82 W	67*	35*
9 13	5 30.30	+27 3.3	0.226	1.020	80.2	18.3	87 W	69*	37*
9 18	5 29.68	+26 11.4	0.241	1.042	74.6	18.3	92 W	70*	38*
9 23	5 28.35	+25 24.5	0.254	1.066	69.0	18.3	97 W	70*	39
9 28	5 26.02	+24 41.0	0.266	1.092	63.5	18.3	103 W	70	39
10 3	5 22.46	+23 59.6	0.277	1.120	57.9	18.2	109 W	69	40
10 8	5 17.49	+23 19.3	0.288	1.149	52.2	18.2	115 W	68	41
10 18	5 2.95	+21 57.8	0.309	1.211	40.4	18.2	128 W	67	42
10 28	4 43.11	+20 31.7	0.334	1.276	28.2	18.1	143 W	66	43
11 7	4 20.76	+19 3.3	0.371	1.342	16.1	18.1	158 W	64	45
11 12	4 9.77	+18 20.6	0.394	1.375	10.3	18.0	166 W	63	46
11 17	3 59.52	+17 41.0	0.422	1.408	5.0	18.0	173 W	63	46
11 22	3 50.38	+17 6.0	0.455	1.442	2.1	18.0	177 E	62	47
11 27	3 42.60	+16 36.6	0.492	1.475	5.5	18.4	172 E	62	47
12 7	3 31.45	+15 57.0	0.579	1.541	13.1	19.2	159 E	61	48
12 17	3 26.03	+15 42.3	0.684	1.605	19.1	19.9	148 E	61	48
12 27	3 25.66	+15 49.1	0.804	1.668	23.4	20.4	138 E	61	48
1 1	3 27.06	+15 58.9	0.869	1.698	25.1	20.7	133 E	61	48
1 6	3 29.35	+16 12.0	0.937	1.729	26.5	20.9	128 E	61	48
1 11	3 32.45	+16 27.7	1.007	1.758	27.6	21.2	124 E	61	48
1 16	3 36.26	+16 45.7	1.080	1.788	28.5	21.4	120 E	62	47

138131 2000 ES_{20}

3 12	15 42.55	− 1 4.2	2.529	3.103	16.6	21.5	117 W	44	65
3 22	15 42.09	+ 0 27.9	2.430	3.121	15.0	21.3	126 W	45	64
4 1	15 39.30	+ 2 6.6	2.348	3.138	13.0	21.2	135 W	47	62
4 11	15 34.34	+ 3 46.8	2.287	3.154	10.7	21.1	144 W	49	60
4 21	15 27.53	+ 5 22.6	2.250	3.169	8.7	21.0	151 W	50	59
5 1	15 19.43	+ 6 47.6	2.240	3.183	7.6	20.9	155 W	52	57
5 11	15 10.76	+ 7 55.8	2.257	3.197	7.9	21.0	154 E	53	56
5 21	15 2.29	+ 8 43.5	2.301	3.209	9.4	21.1	149 E	54	55
5 31	14 54.76	+ 9 8.7	2.370	3.220	11.5	21.2	141 E	54	55
6 10	14 48.71	+ 9 12.4	2.461	3.231	13.5	21.4	132 E	54	55

309166 2007 BA_8

3 12	15 46.45	−23 15.5	2.354	2.878	18.7	21.4	112 W	22	87
3 22	15 43.79	−24 21.1	2.260	2.916	16.8	21.3	122 W	21	88
4 1	15 38.16	−25 21.1	2.181	2.954	14.3	21.2	133 W	20	89
4 11	15 29.69	−26 12.8	2.120	2.990	11.3	21.0	144 W	19	90
4 21	15 18.84	−26 53.4	2.083	3.026	8.0	20.9	155 W	18	89
5 1	15 6.42	−27 20.4	2.075	3.061	4.7	20.7	166 W	18	89
5 11	14 53.53	−27 33.5	2.096	3.095	3.4	20.7	169 E	17	88
5 21	14 41.31	−27 34.4	2.148	3.127	5.7	20.9	162 E	17	88
5 31	14 30.74	−27 27.3	2.229	3.159	8.7	21.1	152 E	18	89
6 10	14 22.49	−27 16.9	2.334	3.190	11.5	21.4	141 E	18	89

152756 1999 JV_3

3 12	15 53.75	−30 37.5	0.953	1.580	36.6	21.2	109 W	14	85
3 17	16 3.52	−30 42.8	0.884	1.553	36.6	21.0	111 W	14	85
3 22	16 13.30	−30 40.4	0.816	1.526	36.6	20.8	114 W	14	85
3 27	16 23.11	−30 28.9	0.750	1.497	36.4	20.5	117 W	15	86
4 1	16 32.96	−30 6.4	0.686	1.468	36.1	20.3	120 W	15	86
4 6	16 42.90	−29 30.8	0.624	1.439	35.7	20.0	123 W	15	86
4 11	16 52.96	−28 39.1	0.564	1.409	35.2	19.7	126 W	16	87
4 16	17 3.23	−27 27.3	0.506	1.378	34.7	19.5	129 W	18	89

152756 1999 JV_3 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	17 13.76	−25 49.9	0.451	1.347	34.0	19.1	131 W	19	90
4 26	17 24.71	−23 39.3	0.399	1.315	33.4	18.8	134 W	21	88
5 1	17 36.29	−20 45.1	0.349	1.283	32.9	18.4	136 W	24	85
5 3	17 41.17	−19 20.1	0.330	1.270	32.7	18.3	137 W	26	83
5 5	17 46.23	−17 44.8	0.312	1.257	32.7	18.1	138 W	27	82
5 7	17 51.49	−15 57.7	0.295	1.244	32.8	18.0	138 W	29	80
5 9	17 57.00	−13 57.4	0.278	1.231	33.0	17.9	138 W	31	78
5 11	18 2.79	−11 42.2	0.262	1.218	33.4	17.7	138 W	33	76
5 13	18 8.90	− 9 10.4	0.246	1.205	34.1	17.6	138 W	36	73
5 15	18 15.38	− 6 20.1	0.232	1.192	35.0	17.5	137 W	39	70
5 17	18 22.30	− 3 9.5	0.219	1.179	36.4	17.3	136 W	42	67
5 19	18 29.74	+ 0 22.9	0.206	1.166	38.1	17.2	135 W	45	64
5 21	18 37.76	+ 4 18.3	0.195	1.153	40.4	17.2	132 W	49	60
5 26	19 1.18	+15 45.4	0.174	1.121	48.2	17.1	124 W	61	48
5 31	19 31.22	+28 54.6	0.163	1.089	58.7	17.2	113 W	74	35
6 5	20 11.01	+42 0.8	0.164	1.058	70.4	17.5	101 W	87	22
6 10	21 4.08	+52 57.7	0.174	1.028	81.1	17.9	89 W	82*	11
6 12	21 29.51	+56 24.1	0.181	1.016	84.8	18.1	85 W	78*	8
6 14	21 57.18	+59 14.4	0.189	1.004	88.2	18.3	81 W	74*	5
6 16	22 26.67	+61 28.3	0.197	0.993	91.1	18.5	78 W	70*	3
6 18	22 57.29	+63 7.4	0.207	0.982	93.7	18.7	75 W	67*	1
6 20	23 28.18	+64 14.4	0.217	0.971	95.9	18.9	72 W	65*	—
6 21	23 43.43	+64 36.9	0.222	0.965	96.9	18.9	71 W	63*	—
6 22	23 58.41	+64 52.9	0.228	0.960	97.8	19.0	69 W	62*	—
6 23	0 13.04	+65 2.9	0.233	0.955	98.6	19.1	68 W	61*	—
6 24	0 27.23	+65 7.5	0.239	0.950	99.3	19.2	67 W	60*	—
6 25	0 40.93	+65 7.2	0.244	0.945	100.0	19.2	66 W	59*	—
6 26	0 54.09	+65 2.6	0.250	0.940	100.6	19.3	65 W	58*	—
6 27	1 6.70	+64 54.1	0.256	0.935	101.2	19.4	65 W	58*	—
6 28	1 18.73	+64 42.3	0.262	0.931	101.7	19.4	64 W	57*	—
6 29	1 30.19	+64 27.6	0.268	0.926	102.1	19.5	63 W	56*	—
6 30	1 41.08	+64 10.3	0.274	0.922	102.5	19.6	62 W	56*	—
7 1	1 51.44	+63 50.9	0.280	0.917	102.8	19.6	62 W	55*	—
7 2	2 1.27	+63 29.7	0.287	0.913	103.0	19.7	61 W	54*	—
7 3	2 10.61	+63 6.8	0.293	0.909	103.3	19.7	60 W	54*	—
7 4	2 19.49	+62 42.6	0.299	0.905	103.4	19.8	60 W	54*	—
7 5	2 27.93	+62 17.3	0.306	0.901	103.5	19.8	59 W	53*	1*
7 6	2 35.96	+61 51.1	0.312	0.897	103.6	19.8	59 W	53*	1*
7 7	2 43.62	+61 24.1	0.319	0.893	103.7	19.9	59 W	52*	1*
7 8	2 50.93	+60 56.4	0.325	0.890	103.7	19.9	58 W	52*	1*
7 9	2 57.91	+60 28.2	0.332	0.886	103.6	20.0	58 W	52*	2*
7 10	3 4.60	+59 59.6	0.338	0.883	103.5	20.0	58 W	51*	2*
7 12	3 17.17	+59 1.3	0.351	0.877	103.3	20.0	57 W	51*	3*
7 14	3 28.82	+58 2.2	0.365	0.871	102.9	20.1	57 W	51*	3*
7 16	3 39.67	+57 2.6	0.378	0.866	102.4	20.1	56 W	50*	4*
7 18	3 49.86	+56 2.8	0.391	0.862	101.7	20.2	56 W	50*	5*
7 20	3 59.47	+55 2.9	0.405	0.858	101.0	20.2	56 W	50*	6*
7 22	4 8.59	+54 3.1	0.418	0.855	100.2	20.2	56 W	50*	7*
7 24	4 17.30	+53 3.6	0.432	0.852	99.3	20.2	56 W	50*	7*
7 26	4 25.65	+52 4.2	0.445	0.850	98.4	20.2	56 W	50*	8*
7 28	4 33.68	+51 5.2	0.459	0.849	97.4	20.3	56 W	50*	9*
7 30	4 41.45	+50 6.5	0.472	0.849	96.3	20.3	56 W	50*	10*
8 4	4 59.88	+47 41.4	0.504	0.851	93.4	20.3	57 W	51*	12*
8 9	5 17.19	+45 18.8	0.536	0.857	90.4	20.3	58 W	51*	14*
8 14	5 33.56	+42 58.6	0.566	0.867	87.3	20.3	59 W	52*	16*
8 19	5 49.08	+40 40.9	0.595	0.880	84.3	20.3	60 W	53*	18*
8 24	6 3.79	+38 25.3	0.621	0.898	81.3	20.4	61 W	54*	20*
8 29	6 17.71	+36 11.7	0.645	0.918	78.4	20.4	63 W	55*	22*
9 8	6 43.22	+31 49.9	0.684	0.967	73.0	20.5	67 W	57*	26*
9 18	7 5.53	+27 34.4	0.712	1.023	68.1	20.5	71 W	60*	31*
9 28	7 24.42	+23 24.2	0.728	1.084	63.6	20.5	76 W	61*	35*
10 8	7 39.72	+19 18.3	0.733	1.148	59.4	20.6	81 W	62*	40*
10 18	7 51.10	+15 16.3	0.729	1.213	55.2	20.5	88 W	60*	46*
10 28	7 58.06	+11 18.4	0.716	1.278	50.7	20.5	95 W	56	51*
11 7	8 0.07	+ 7 26.5	0.698	1.342	45.8	20.4	104 W	52	56*
11 12	7 59.01	+ 5 33.8	0.689	1.373	43.2	20.3	108 W	51	58
11 17	7 56.48	+ 3 44.7	0.680	1.404	40.3	20.3	113 W	49	60
11 22	7 52.42	+ 2 0.2	0.671	1.434	37.3	20.2	118 W	47	62
11 27	7 46.85	+ 0 22.0	0.665	1.464	34.1	20.2	124 W	45	64
12 2	7 39.83	− 1 8.0	0.661	1.493	30.9	20.1	129 W	44	65
12 7	7 31.48	− 2 27.9	0.659	1.521	27.6	20.0	134 W	43	66
12 12	7 22.00	− 3 35.5	0.662	1.549	24.4	20.0	140 W	41	68
12 17	7 11.70	− 4 28.8	0.669	1.576	21.4	20.0	144 W	41	68
12 22	7 0.96	− 5 6.6	0.681	1.602	19.0	20.0	148 W	40	69
12 27	6 50.21	− 5 28.4	0.698	1.628	17.3	20.0	150 W	40	69
1 1	6 39.86	− 5 34.7	0.721	1.653	16.6	20.1	151 E	39	70
1 6	6 30.25	− 5 26.7	0.749	1.677	16.7	20.2	151 E	40	69

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
152756 1999 JV_3 *(continuation)*									
1 11	6 21.66	− 5 6.4	0.783	1.700	17.7	20.3	148 E	40	69
1 16	6 14.31	− 4 35.8	0.821	1.723	19.1	20.5	145 E	40	69
515446 2013 UG_5									
3 12	16 0.25	+ 4 30.4	0.567	1.319	44.2	21.4	112 W	50	59
3 17	15 57.92	+ 2 44.5	0.548	1.339	41.3	21.2	117 W	48	61
3 22	15 53.73	+ 0 51.0	0.529	1.359	38.0	21.1	123 W	46	63
3 27	15 47.54	− 1 10.8	0.512	1.380	34.1	21.0	129 W	44	65
4 1	15 39.31	− 3 21.3	0.498	1.400	29.8	20.8	136 W	42	67
4 6	15 29.08	− 5 39.3	0.488	1.421	25.1	20.7	143 W	39	70
4 11	15 17.04	− 8 2.5	0.482	1.442	19.9	20.5	151 W	37	72
4 16	15 3.53	−10 26.8	0.481	1.462	14.4	20.3	159 W	35	74
4 21	14 49.06	−12 47.6	0.487	1.483	8.8	20.2	167 W	32	77
4 26	14 34.30	−15 0.1	0.499	1.504	3.4	20.0	175 W	30	79
5 1	14 19.94	−17 0.6	0.517	1.524	2.5	20.1	176 E	28	81
5 6	14 6.61	−18 47.1	0.542	1.544	7.3	20.4	169 E	26	83
5 11	13 54.78	−20 19.2	0.573	1.564	11.8	20.8	162 E	25	84
5 16	13 44.72	−21 37.9	0.609	1.584	15.8	21.1	155 E	23	86
5 21	13 36.57	−22 45.3	0.650	1.603	19.3	21.4	148 E	22	87
5 26	13 30.35	−23 43.5	0.696	1.622	22.3	21.6	143 E	21	88
164201 2004 EC									
3 12	16 0.37	−35 21.5	2.843	3.258	17.1	21.4	106 W	10	81
3 17	15 59.31	−35 57.2	2.747	3.236	16.7	21.3	111 W	9	80
3 22	15 57.46	−36 32.6	2.654	3.213	16.2	21.2	116 W	8	79
3 27	15 54.75	−37 7.4	2.564	3.190	15.6	21.1	121 W	8	79
4 1	15 51.14	−37 41.1	2.477	3.166	14.8	21.0	126 W	7	78
4 6	15 46.58	−38 12.9	2.395	3.142	13.9	20.9	131 W	7	78
4 11	15 41.04	−38 42.2	2.318	3.117	12.9	20.8	136 W	6	77
4 16	15 34.52	−39 8.0	2.246	3.091	11.8	20.6	141 W	6	77
4 21	15 27.05	−39 29.3	2.181	3.064	10.6	20.5	146 W	6	77
4 26	15 18.69	−39 44.9	2.123	3.037	9.5	20.4	150 W	5	76
5 1	15 9.57	−39 53.9	2.072	3.010	8.5	20.3	154 W	5	76
5 6	14 59.84	−39 55.6	2.029	2.981	7.7	20.2	157 W	5	76
5 11	14 49.72	−39 49.3	1.994	2.952	7.5	20.1	158 E	5	76
5 16	14 39.43	−39 35.0	1.967	2.922	7.9	20.1	157 E	5	76
5 21	14 29.20	−39 12.7	1.948	2.892	8.8	20.1	154 E	6	77
5 26	14 19.30	−38 43.3	1.938	2.861	10.2	20.1	150 E	6	77
5 31	14 9.94	−38 7.8	1.935	2.829	11.7	20.1	145 E	7	78
6 5	14 1.30	−37 27.8	1.939	2.796	13.4	20.1	140 E	8	79
6 10	13 53.51	−36 44.6	1.949	2.763	15.0	20.2	135 E	8	79
6 15	13 46.66	−35 59.8	1.965	2.728	16.7	20.2	130 E	9*	80
6 20	13 40.81	−35 14.9	1.987	2.693	18.2	20.3	124 E	9*	81
6 25	13 35.96	−34 31.2	2.012	2.657	19.6	20.3	119 E	9*	81
6 30	13 32.12	−33 49.8	2.041	2.621	20.8	20.4	114 E	9*	82
7 5	13 29.24	−33 11.5	2.072	2.583	21.9	20.4	109 E	8*	83
7 10	13 27.27	−32 37.0	2.105	2.545	22.8	20.4	104 E	7*	83
7 20	13 25.89	−31 40.8	2.172	2.465	24.3	20.5	94 E	5*	83*
7 30	13 27.56	−31 3.1	2.238	2.381	25.1	20.5	85 E	3*	76*
8 9	13 31.89	−30 43.6	2.297	2.294	25.5	20.5	77 E	1*	67*
8 19	13 38.58	−30 41.5	2.346	2.202	25.5	20.4	69 E	—	60*
8 29	13 47.42	−30 55.3	2.381	2.105	25.1	20.4	62 E	—	52*
9 8	13 58.28	−31 23.3	2.399	2.003	24.4	20.2	55 E	—	45*
9 18	14 11.12	−32 3.8	2.400	1.896	23.5	20.1	49 E	—	39*
9 28	14 26.01	−32 55.2	2.380	1.783	22.5	19.9	43 E	—	33*
10 8	14 43.12	−33 55.5	2.339	1.663	21.5	19.7	38 E	—	28*
10 18	15 2.76	−35 2.4	2.275	1.536	20.6	19.4	33 E	—	23*
10 23	15 13.68	−35 37.4	2.235	1.470	20.2	19.3	31 E	—	21*
10 28	15 25.43	−36 12.7	2.189	1.401	19.9	19.1	29 E	—	19*
11 2	15 38.09	−36 47.7	2.137	1.330	19.7	19.0	27 E	—	17*
11 7	15 51.81	−37 21.5	2.079	1.256	19.7	18.8	25 E	—	16*
11 12	16 6.71	−37 52.8	2.015	1.179	19.8	18.6	24 E	—	14*
11 17	16 22.96	−38 20.1	1.946	1.100	20.2	18.4	23 E	—	13*
11 22	16 40.74	−38 41.2	1.870	1.017	20.8	18.1	21 E	—	12*
11 27	17 0.26	−38 52.9	1.788	0.931	21.9	17.9	21 E	—	12*
12 2	17 21.73	−38 50.8	1.699	0.841	23.4	17.6	20 E	—	11*
12 7	17 45.36	−38 28.4	1.604	0.747	25.7	17.3	19 E	—	11*
12 9	17 55.44	−38 11.7	1.564	0.708	26.8	17.1	19 E	—	11*
12 11	18 5.90	−37 49.6	1.522	0.669	28.2	17.0	19 E	—	11*
12 13	18 16.71	−37 21.0	1.479	0.629	29.8	16.8	19 E	—	11*
12 15	18 27.86	−36 44.8	1.435	0.589	31.7	16.7	18 E	—	11*
12 17	18 39.32	−35 59.8	1.389	0.548	34.0	16.5	18 E	—	11*
12 19	18 51.03	−35 4.2	1.342	0.507	36.8	16.4	18 E	—	12*
12 21	19 2.89	−33 56.3	1.292	0.466	40.3	16.2	18 E	—	12*
12 23	19 14.76	−32 33.7	1.240	0.426	44.7	16.0	18 E	—	12*
12 25	19 26.41	−30 54.0	1.185	0.387	50.3	15.9	18 E	—	12*
12 27	19 37.49	−28 54.2	1.127	0.351	57.4	15.8	17 E	—	11*
12 28	19 42.66	−27 46.0	1.098	0.335	61.6	15.7	17 E	1*	11*
12 29	19 47.48	−26 31.9	1.067	0.320	66.4	15.7	17 E	2*	11*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
164201 2004 EC *(continuation)*									
12 30	19 51.85	−25 11.8	1.036	0.307	71.7	15.7	17 E	3*	10*
12 31	19 55.67	−23 45.8	1.004	0.296	77.4	15.8	17 E	4*	9*
1 1	19 58.83	−22 14.3	0.973	0.287	83.7	15.9	17 E	5*	9*
1 2	20 1.23	−20 37.8	0.941	0.282	90.2	16.0	17 E	6*	7*
1 3	20 2.80	−18 57.2	0.910	0.280	96.8	16.2	16 E	7*	6*
1 4	20 3.48	−17 13.8	0.881	0.281	103.2	16.5	16 E	8*	5*
1 5	20 3.29	−15 28.8	0.852	0.285	109.3	16.7	16 E	9*	3*
1 6	20 2.24	−13 43.5	0.825	0.292	114.7	17.1	16 E	9*	1*
1 7	20 0.42	−11 59.1	0.800	0.302	119.2	17.4	16 E	9*	—
1 8	19 57.92	−10 16.7	0.777	0.314	122.8	17.7	16 E	10*	—
1 9	19 54.84	− 8 36.9	0.757	0.328	125.3	17.9	16 E	10*	—
1 10	19 51.27	− 7 0.4	0.738	0.344	126.8	18.1	16 E	9*	—
1 11	19 47.33	− 5 27.5	0.721	0.361	127.4	18.2	17 E	9*	—
1 12	19 43.09	− 3 58.4	0.706	0.379	127.3	18.3	18 E	8*	—
1 13	19 38.63	− 2 33.3	0.693	0.398	126.5	18.3	19 E	8*	—
1 14	19 34.01	− 1 12.0	0.682	0.417	125.3	18.2	20 W	10*	—
1 15	19 29.29	+ 0 5.4	0.671	0.437	123.7	18.2	22 W	12*	—
1 16	19 24.51	+ 1 19.2	0.662	0.457	121.9	18.1	23 W	15*	—
177255 2003 WC_{25}									
3 12	16 3.34	−31 15.5	2.170	2.629	21.3	21.4	106 W	14	85
3 22	16 7.39	−32 23.3	1.998	2.583	20.5	21.2	115 W	13	84
4 1	16 8.63	−33 29.6	1.836	2.534	19.1	20.9	124 W	12	83
4 11	16 6.58	−34 32.6	1.687	2.485	17.0	20.6	133 W	10	81
4 21	16 0.81	−35 28.3	1.554	2.434	14.3	20.3	143 W	10	81
4 26	15 56.46	−35 51.6	1.495	2.408	12.8	20.1	148 W	9	80
5 1	15 51.17	−36 10.8	1.441	2.382	11.2	20.0	153 W	9	80
5 6	15 45.02	−36 24.8	1.393	2.355	9.6	19.8	157 W	9	80
5 11	15 38.13	−36 33.0	1.352	2.328	8.3	19.7	160 W	8	79
5 16	15 30.67	−36 34.4	1.316	2.301	7.6	19.6	163 E	8	79
5 21	15 22.83	−36 28.7	1.287	2.273	7.7	19.5	163 E	9	80
5 26	15 14.89	−36 15.8	1.265	2.245	8.7	19.5	160 E	9	80
5 31	15 7.10	−35 56.1	1.249	2.217	10.4	19.5	157 E	9	80
6 5	14 59.73	−35 30.5	1.239	2.188	12.5	19.5	152 E	9	80
6 10	14 53.00	−35 0.3	1.234	2.159	14.7	19.6	147 E	10	81
6 15	14 47.09	−34 26.6	1.235	2.130	17.1	19.6	142 E	11	82
6 20	14 42.17	−33 51.2	1.241	2.100	19.3	19.7	137 E	11	82
6 25	14 38.32	−33 15.4	1.250	2.070	21.5	19.7	132 E	12*	83
6 30	14 35.62	−32 40.6	1.264	2.040	23.6	19.8	127 E	12*	83
7 5	14 34.07	−32 7.9	1.280	2.010	25.5	19.8	122 E	12*	84
7 10	14 33.66	−31 38.2	1.298	1.979	27.2	19.9	117 E	12*	84
7 20	14 36.14	−30 49.4	1.339	1.918	30.2	20.0	108 E	11*	85
7 30	14 42.76	−30 16.5	1.382	1.855	32.6	20.0	100 E	10*	86
8 9	14 53.13	−29 58.7	1.425	1.792	34.4	20.1	93 E	10*	84*
8 19	15 6.93	−29 53.4	1.465	1.729	35.7	20.1	86 E	9*	79*
8 29	15 23.94	−29 57.2	1.501	1.666	36.7	20.1	81 E	9*	73*
9 8	15 43.93	−30 5.4	1.530	1.604	37.4	20.1	75 E	8*	68*
9 18	16 6.78	−30 13.1	1.553	1.542	37.9	20.0	70 E	9*	64*
9 28	16 32.39	−30 14.9	1.569	1.483	38.2	20.0	66 E	9*	60*
10 8	17 0.58	−30 4.7	1.579	1.426	38.4	19.9	62 E	10*	56*
10 18	17 31.17	−29 36.5	1.584	1.372	38.6	19.8	59 E	11*	53*
10 28	18 3.86	−28 44.1	1.584	1.322	38.7	19.8	56 E	12*	50*
11 7	18 38.27	−27 22.3	1.581	1.278	38.8	19.7	54 E	14*	47*
11 17	19 13.93	−25 26.8	1.577	1.241	38.8	19.6	52 E	16*	44*
11 27	19 50.36	−22 55.5	1.573	1.212	38.8	19.6	50 E	19*	41*
12 7	20 27.05	−19 48.7	1.573	1.192	38.8	19.5	49 E	22*	38*
12 12	20 45.37	−18 2.8	1.574	1.185	38.7	19.5	49 E	24*	37*
12 17	21 3.64	−16 9.3	1.577	1.181	38.5	19.5	48 E	25*	35*
12 22	21 21.80	−14 9.1	1.582	1.180	38.4	19.5	48 E	27*	33*
12 27	21 39.85	−12 3.0	1.589	1.181	38.1	19.5	48 E	29*	32*
1 1	21 57.75	− 9 52.0	1.598	1.185	37.9	19.5	48 E	30*	30*
1 6	22 15.51	− 7 37.3	1.609	1.191	37.5	19.5	47 E	32*	28*
1 11	22 33.13	− 5 19.9	1.623	1.199	37.1	19.5	47 E	33*	27*
1 16	22 50.61	− 3 1.1	1.640	1.211	36.6	19.6	47 E	34*	25*
468647 2008 UC_4									
3 12	16 9.86	+ 0 26.2	2.370	2.863	19.1	21.4	110 W	45	64
3 22	16 11.41	+ 0 44.0	2.208	2.823	18.1	21.2	119 W	46	63
4 1	16 10.40	+ 1 3.9	2.057	2.782	16.5	21.0	128 W	46	63
4 11	16 6.61	+ 1 22.0	1.920	2.740	14.4	20.7	137 W	46	63
4 21	15 59.92	+ 1 34.1	1.803	2.698	11.9	20.5	146 W	47	62
4 26	15 55.53	+ 1 36.3	1.752	2.676	10.6	20.3	151 W	47	62
5 1	15 50.52	+ 1 34.9	1.708	2.654	9.3	20.2	155 W	47	62
5 6	15 44.96	+ 1 29.4	1.670	2.632	8.3	20.1	158 W	46	63
5 11	15 38.96	+ 1 19.1	1.639	2.610	7.7	20.0	160 W	46	63
5 21	15 26.16	+ 0 42.7	1.598	2.565	8.4	19.9	158 E	46	63
5 31	15 13.33	− 0 16.0	1.584	2.519	11.2	20.0	151 E	45	64
6 10	15 1.70	− 1 36.1	1.596	2.473	14.8	20.1	142 E	43	66

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
468647 2008 UC_4 *(continuation)*									
6 20	14 52.24	− 3 14.5	1.630	2.426	18.3	20.2	131 E	42	67
6 30	14 45.63	− 5 7.1	1.682	2.378	21.4	20.4	122 E	40*	69
7 10	14 42.13	− 7 10.1	1.747	2.330	23.8	20.5	112 E	36*	71
7 20	14 41.75	− 9 20.1	1.820	2.281	25.7	20.6	103 E	32*	73
7 30	14 44.35	−11 34.9	1.898	2.232	26.9	20.6	95 E	28*	76
8 9	14 49.71	−13 52.6	1.977	2.183	27.6	20.7	88 E	24*	77*
8 19	14 57.64	−16 11.8	2.053	2.134	27.9	20.7	80 E	21*	73*
8 29	15 7.97	−18 31.4	2.126	2.085	27.7	20.8	74 E	17*	68*
9 8	15 20.54	−20 50.2	2.193	2.036	27.2	20.8	68 E	14*	62*
9 18	15 35.30	−23 7.0	2.253	1.987	26.5	20.8	62 E	12*	56*
9 28	15 52.21	−25 20.4	2.305	1.939	25.5	20.7	56 E	9*	50*
10 8	16 11.26	−27 28.6	2.348	1.892	24.3	20.7	51 E	7*	45*
10 18	16 32.50	−29 29.4	2.383	1.846	23.1	20.6	47 E	6*	40*
10 28	16 55.96	−31 20.4	2.409	1.802	21.7	20.5	42 E	4*	36*
11 7	17 21.67	−32 58.5	2.427	1.759	20.4	20.5	38 E	2*	32*
11 17	17 49.63	−34 20.1	2.438	1.718	19.1	20.4	35 E	1*	29*
11 27	18 19.76	−35 21.4	2.442	1.680	17.8	20.3	31 E	—	25*
12 7	18 51.86	−35 58.2	2.441	1.645	16.7	20.2	29 E	—	23*
12 17	19 25.63	−36 6.7	2.435	1.613	15.7	20.1	26 E	—	20*
12 22	19 43.01	−35 59.4	2.432	1.598	15.2	20.1	25 E	—	19*
12 27	20 0.62	−35 43.8	2.428	1.585	14.8	20.1	24 E	—	18*
1 1	20 18.40	−35 19.8	2.423	1.572	14.5	20.0	24 E	—	18*
1 6	20 36.27	−34 47.3	2.419	1.561	14.2	20.0	23 E	—	17*
1 11	20 54.18	−34 6.3	2.415	1.551	13.9	20.0	22 E	—	16*
1 16	21 12.05	−33 16.8	2.412	1.542	13.7	19.9	22 E	—	16*
443158 2014 CX_9									
3 12	16 12.93	−27 31.9	1.373	1.894	30.4	21.4	105 W	17	88
3 22	16 20.22	−28 58.5	1.292	1.918	28.5	21.2	113 W	16	87
4 1	16 23.65	−30 20.3	1.218	1.941	25.9	21.0	122 W	15	86
4 11	16 22.72	−31 35.2	1.153	1.965	22.5	20.9	131 W	13	84
4 21	16 17.19	−32 38.9	1.100	1.988	18.3	20.6	142 W	12	83
5 1	16 7.34	−33 24.6	1.065	2.011	13.6	20.4	152 W	12	83
5 6	16 1.13	−33 38.6	1.055	2.022	11.2	20.3	157 W	11	82
5 11	15 54.35	−33 45.9	1.050	2.034	9.1	20.3	162 W	11	82
5 16	15 47.23	−33 46.3	1.051	2.045	7.4	20.2	165 W	11	82
5 21	15 40.07	−33 39.9	1.059	2.056	6.7	20.2	166 E	11	82
5 26	15 33.14	−33 27.4	1.072	2.067	7.3	20.3	165 E	12	83
5 31	15 26.72	−33 9.7	1.091	2.078	8.8	20.4	162 E	12	83
6 5	15 21.01	−32 48.4	1.115	2.088	10.8	20.5	157 E	12	83
6 10	15 16.15	−32 24.6	1.145	2.099	12.9	20.7	152 E	13	84
6 15	15 12.26	−31 59.7	1.181	2.109	15.0	20.8	148 E	13	84
6 20	15 9.38	−31 34.8	1.221	2.120	16.9	21.0	143 E	13	84
6 25	15 7.54	−31 11.1	1.265	2.130	18.7	21.1	138 E	14	85
6 30	15 6.72	−30 49.2	1.313	2.140	20.3	21.3	133 E	14	85
7 5	15 6.88	−30 29.9	1.364	2.150	21.7	21.4	128 E	14*	86
159414 1999 RN_{178}									
3 12	16 14.66	−15 9.7	2.858	3.289	16.8	21.5	107 W	30	79
3 22	16 16.73	−14 54.2	2.695	3.263	15.9	21.3	116 W	30	79
4 1	16 16.65	−14 32.6	2.543	3.236	14.4	21.1	126 W	30	79
4 11	16 14.31	−14 5.4	2.406	3.209	12.4	20.9	137 W	31	78
4 21	16 9.71	−13 33.5	2.288	3.181	9.8	20.6	147 W	31	78
5 1	16 3.03	−12 58.3	2.193	3.151	6.8	20.4	158 W	32	77
5 11	15 54.75	−12 22.1	2.125	3.121	3.7	20.2	168 W	33	76
5 21	15 45.52	−11 47.5	2.086	3.090	2.8	20.0	171 E	33	76
5 31	15 36.18	−11 17.6	2.075	3.059	5.6	20.2	163 E	34	75
6 10	15 27.60	−10 55.4	2.092	3.026	9.1	20.3	152 E	34	75
6 20	15 20.49	−10 43.2	2.133	2.993	12.3	20.5	141 E	34	75
6 30	15 15.41	−10 42.2	2.195	2.959	15.1	20.6	131 E	34	75
7 10	15 12.63	−10 52.5	2.273	2.924	17.4	20.7	121 E	34*	75
7 20	15 12.22	−11 13.5	2.363	2.889	19.2	20.8	111 E	32*	75
7 30	15 14.17	−11 44.0	2.459	2.852	20.4	20.9	102 E	30*	76
8 9	15 18.32	−12 22.3	2.559	2.815	21.1	21.0	94 E	28*	76
8 19	15 24.50	−13 6.7	2.659	2.777	21.3	21.1	86 E	26*	75*
8 29	15 32.56	−13 55.5	2.756	2.739	21.2	21.1	78 E	24*	70*
9 8	15 42.32	−14 47.1	2.849	2.700	20.7	21.2	71 E	22*	64*
9 18	15 53.63	−15 39.9	2.935	2.660	19.9	21.2	64 E	20*	58*
9 28	16 6.39	−16 32.3	3.012	2.620	18.9	21.1	58 E	19*	51*
10 8	16 20.46	−17 22.8	3.080	2.579	17.6	21.1	51 E	17*	45*
10 18	16 35.76	−18 10.1	3.137	2.537	16.2	21.1	45 E	16*	38*
10 28	16 52.20	−18 52.7	3.183	2.496	14.6	21.0	39 E	14*	32*
11 7	17 9.69	−19 29.2	3.217	2.453	12.9	20.9	34 E	13*	26*
11 17	17 28.17	−19 58.5	3.240	2.411	11.1	20.9	28 E	11*	20*
11 27	17 47.55	−20 19.2	3.250	2.368	9.1	20.7	22 E	9*	14*
12 7	18 7.74	−20 30.3	3.249	2.325	7.1	20.6	17 E	6*	8*
12 17	18 28.67	−20 30.7	3.236	2.281	5.1	20.5	12 E	4*	3*
12 27	18 50.23	−20 19.8	3.211	2.238	3.0	20.3	7 E	—	—
1 6	19 12.35	−19 56.7	3.177	2.195	1.3	20.1	3 E	—	—
1 16	19 34.93	−19 21.0	3.132	2.152	1.9	20.1	4 W	—	—

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
256686 2007 YZ_{54}									
3 12	16 19.95	−26 28.4	2.211	2.632	21.5	21.5	104 W	19	90
3 22	16 24.95	−27 20.0	2.052	2.602	20.7	21.3	113 W	18	89
4 1	16 27.38	−28 10.1	1.901	2.570	19.3	21.0	122 W	17	88
4 11	16 26.82	−28 58.0	1.762	2.538	17.3	20.8	131 W	16	87
4 21	16 22.95	−29 41.7	1.638	2.504	14.5	20.5	141 W	15	86
5 1	16 15.66	−30 18.0	1.534	2.470	11.0	20.2	152 W	15	86
5 6	16 10.82	−30 32.2	1.490	2.452	9.1	20.0	157 W	14	85
5 11	16 5.30	−30 42.9	1.453	2.435	7.2	19.9	162 W	14	85
5 16	15 59.21	−30 49.7	1.421	2.417	5.5	19.7	167 W	14	85
5 21	15 52.71	−30 52.3	1.397	2.399	4.5	19.6	169 W	14	85
5 26	15 46.01	−30 50.7	1.379	2.380	4.8	19.6	169 E	14	85
5 31	15 39.31	−30 44.9	1.367	2.362	6.3	19.6	165 E	14	85
6 5	15 32.83	−30 35.4	1.362	2.343	8.3	19.7	160 E	14	85
6 10	15 26.76	−30 23.0	1.364	2.324	10.6	19.8	155 E	15	86
6 15	15 21.28	−30 8.3	1.371	2.305	12.9	19.9	150 E	15	86
6 20	15 16.53	−29 52.4	1.383	2.286	15.1	19.9	144 E	15	86
6 25	15 12.62	−29 36.2	1.400	2.266	17.2	20.0	139 E	15	86
6 30	15 9.64	−29 20.6	1.422	2.247	19.1	20.1	134 E	16	87
7 10	15 6.58	−28 53.9	1.476	2.207	22.6	20.2	124 E	16*	87
7 20	15 7.35	−28 36.3	1.540	2.167	25.3	20.4	114 E	15*	87
7 30	15 11.78	−28 29.7	1.610	2.127	27.3	20.5	106 E	14*	88
8 9	15 19.53	−28 33.6	1.684	2.086	28.8	20.6	98 E	13*	87
8 19	15 30.28	−28 46.3	1.758	2.045	29.7	20.7	91 E	12*	84*
8 29	15 43.76	−29 5.7	1.830	2.004	30.1	20.7	85 E	11*	77*
9 8	15 59.71	−29 28.7	1.899	1.963	30.2	20.8	78 E	10*	71*
9 18	16 17.91	−29 52.1	1.963	1.922	30.0	20.8	73 E	10*	66*
9 28	16 38.21	−30 12.8	2.023	1.882	29.5	20.8	67 E	9*	61*
10 8	17 0.39	−30 27.4	2.077	1.842	28.8	20.8	62 E	9*	56*
10 18	17 24.31	−30 32.5	2.125	1.803	27.9	20.8	58 E	9*	52*
10 28	17 49.77	−30 25.0	2.168	1.765	26.9	20.7	53 E	10*	47*
11 7	18 16.53	−30 2.0	2.205	1.729	25.7	20.7	49 E	10*	43*
11 17	18 44.35	−29 21.0	2.238	1.694	24.5	20.6	45 E	11*	39*
11 27	19 12.97	−28 19.9	2.266	1.661	23.2	20.6	42 E	11*	35*
12 7	19 42.08	−26 57.4	2.290	1.631	21.8	20.5	38 E	12*	30*
12 17	20 11.46	−25 13.1	2.312	1.603	20.4	20.5	35 E	12*	26*
12 27	20 40.85	−23 7.3	2.331	1.578	19.0	20.4	31 E	13*	22*
1 6	21 10.06	−20 41.2	2.349	1.557	17.5	20.3	28 E	13*	19*
1 16	21 38.98	−17 56.5	2.366	1.539	16.0	20.3	26 E	12*	15*
414993 2011 EA_{78}									
3 12	16 20.62	− 1 34.6	1.956	2.439	22.9	21.5	107 W	43	66
3 22	16 23.84	+ 0 47.1	1.885	2.482	21.3	21.4	115 W	46	63
4 1	16 24.12	+ 3 17.9	1.827	2.525	19.2	21.3	124 W	48	61
4 11	16 21.48	+ 5 51.2	1.784	2.568	16.8	21.2	132 W	51	58
4 21	16 16.15	+ 8 18.7	1.761	2.610	14.4	21.1	140 W	53	56
5 1	16 8.61	+10 30.6	1.760	2.651	12.5	21.1	145 W	56	53
5 11	15 59.68	+12 17.8	1.784	2.692	11.6	21.1	148 W	57	52
5 21	15 50.31	+13 34.2	1.832	2.732	11.9	21.2	146 E	59	50
5 31	15 41.46	+14 17.1	1.903	2.771	13.1	21.4	142 E	59	50
6 10	15 33.99	+14 28.0	1.996	2.810	14.7	21.6	135 E	59	50
335024 2004 PD_{20}									
3 12	16 22.94	−25 37.4	1.478	1.962	29.5	21.5	103 W	19	90
3 22	16 35.34	−27 1.4	1.337	1.925	29.0	21.2	110 W	18	89
4 1	16 45.82	−28 28.6	1.203	1.887	28.0	20.9	118 W	17	88
4 11	16 53.82	−30 1.0	1.078	1.848	26.3	20.6	125 W	15	86
4 21	16 58.64	−31 40.3	0.963	1.809	23.7	20.2	134 W	13	84
4 26	16 59.59	−32 32.5	0.911	1.789	22.2	20.0	138 W	12	83
5 1	16 59.44	−33 26.2	0.862	1.770	20.4	19.8	142 W	12	83
5 6	16 58.13	−34 20.7	0.816	1.750	18.4	19.6	147 W	11	82
5 11	16 55.59	−35 15.4	0.775	1.730	16.3	19.4	151 W	10	81
5 16	16 51.78	−36 8.9	0.738	1.710	14.2	19.2	156 W	9	80
5 21	16 46.74	−36 59.8	0.705	1.691	12.2	19.0	159 W	8	79
5 26	16 40.59	−37 46.2	0.678	1.671	10.7	18.8	162 W	7	78
5 31	16 33.54	−38 26.6	0.654	1.652	10.1	18.7	163 W	7	78
6 5	16 25.90	−38 59.3	0.636	1.633	10.7	18.7	163 E	6	77
6 10	16 18.05	−39 23.4	0.622	1.614	12.5	18.7	160 E	6	77
6 15	16 10.38	−39 38.5	0.613	1.595	15.1	18.7	156 E	5	76
6 20	16 3.33	−39 44.7	0.608	1.577	18.0	18.7	151 E	5	76
6 25	15 57.30	−39 43.3	0.606	1.558	21.1	18.8	147 E	5	76
6 30	15 52.62	−39 35.7	0.608	1.541	24.1	18.9	142 E	5	76
7 5	15 49.52	−39 23.9	0.612	1.523	27.0	19.0	137 E	6	77
7 10	15 48.09	−39 9.3	0.620	1.507	29.8	19.0	133 E	6	77
7 15	15 48.40	−38 53.3	0.629	1.490	32.3	19.1	128 E	6*	77
7 20	15 50.45	−38 36.9	0.640	1.475	34.7	19.2	124 E	6*	77
7 25	15 54.20	−38 20.8	0.652	1.460	36.8	19.3	121 E	6*	78
7 30	15 59.60	−38 5.3	0.665	1.446	38.7	19.4	117 E	7*	78
8 4	16 6.51	−37 50.4	0.679	1.432	40.3	19.4	114 E	7*	78
8 9	16 14.85	−37 35.6	0.694	1.419	41.8	19.5	111 E	7*	78
8 14	16 24.50	−37 20.3	0.709	1.408	43.1	19.6	108 E	7*	79

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
335024 2004 PD_{20} *(continuation)*									
8 19	16 35.37	−37 3.9	0.725	1.397	44.2	19.6	106 E	7*	79
8 24	16 47.37	−36 45.7	0.741	1.387	45.1	19.7	104 E	8*	79
8 29	17 0.37	−36 24.8	0.757	1.378	45.9	19.7	102 E	8*	80
9 3	17 14.26	−36 0.3	0.774	1.370	46.5	19.8	100 E	8*	80
9 8	17 28.92	−35 31.5	0.792	1.364	47.1	19.8	98 E	9*	80
9 13	17 44.23	−34 57.5	0.810	1.358	47.4	19.9	96 E	10*	81
9 18	18 0.09	−34 17.8	0.829	1.354	47.7	19.9	95 E	11*	82*
9 23	18 16.39	−33 32.0	0.849	1.351	47.9	20.0	93 E	11*	82*
9 28	18 33.00	−32 39.6	0.869	1.349	47.9	20.0	92 E	12*	82*
10 3	18 49.80	−31 40.6	0.891	1.348	47.9	20.1	91 E	13*	83*
10 8	19 6.70	−30 34.9	0.913	1.349	47.8	20.2	90 E	14	83*
10 13	19 23.60	−29 22.6	0.937	1.350	47.6	20.2	88 E	16	82*
10 18	19 40.43	−28 4.0	0.963	1.353	47.3	20.3	87 E	17	81*
10 23	19 57.12	−26 39.6	0.990	1.358	47.0	20.3	86 E	18	80*
10 28	20 13.62	−25 9.9	1.018	1.363	46.6	20.4	85 E	20	79*
11 2	20 29.88	−23 35.4	1.048	1.370	46.1	20.4	84 E	21	77*
11 7	20 45.85	−21 56.9	1.080	1.377	45.6	20.5	83 E	23	75*
11 12	21 1.53	−20 14.9	1.113	1.386	45.0	20.6	82 E	25	72*
11 17	21 16.92	−18 30.1	1.149	1.396	44.4	20.6	81 E	27	70*
11 22	21 32.01	−16 43.1	1.186	1.407	43.8	20.7	80 E	28	67*
11 27	21 46.80	−14 54.5	1.225	1.418	43.1	20.8	79 E	30	65*
12 2	22 1.29	−13 5.1	1.265	1.431	42.3	20.8	78 E	32	62*
12 7	22 15.49	−11 15.2	1.308	1.444	41.6	20.9	77 E	34	59*
12 12	22 29.44	− 9 25.3	1.352	1.459	40.8	21.0	75 E	36	56*
12 17	22 43.14	− 7 36.0	1.397	1.473	40.0	21.0	74 E	37	53*
12 22	22 56.63	− 5 47.4	1.444	1.489	39.1	21.1	73 E	39*	50*
12 27	23 9.90	− 4 0.0	1.493	1.505	38.3	21.2	72 E	41*	47*
1 1	23 22.98	− 2 14.2	1.543	1.522	37.4	21.3	70 E	43*	45*
1 6	23 35.89	− 0 30.1	1.594	1.539	36.5	21.3	69 E	44*	42*
1 11	23 48.65	+ 1 12.0	1.647	1.557	35.6	21.4	67 E	45*	40*
1 16	0 1.29	+ 2 52.0	1.700	1.575	34.7	21.5	66 E	46*	37*
411170 2010 EW_{80}									
3 12	16 23.71	−13 39.8	1.370	1.889	30.5	21.4	105 W	31	78
3 22	16 37.74	−13 8.2	1.249	1.862	29.9	21.1	112 W	32	77
4 1	16 49.73	−12 21.6	1.135	1.835	28.6	20.9	118 W	33	76
4 11	16 59.22	−11 21.5	1.031	1.809	26.7	20.6	126 W	34	75
4 21	17 5.71	−10 10.4	0.938	1.785	24.1	20.2	133 W	35	74
5 1	17 8.75	− 8 52.7	0.857	1.761	20.8	19.9	142 W	36	73
5 6	17 8.91	− 8 13.3	0.822	1.750	18.9	19.8	146 W	37	72
5 11	17 8.17	− 7 34.9	0.790	1.740	16.9	19.6	150 W	37	72
5 16	17 6.56	− 6 58.6	0.763	1.729	14.8	19.4	154 W	38	71
5 21	17 4.14	− 6 25.7	0.740	1.720	12.9	19.3	158 W	39	70
5 26	17 1.05	− 5 57.4	0.721	1.710	11.3	19.2	161 W	39	70
5 31	16 57.46	− 5 35.2	0.707	1.702	10.3	19.1	163 W	39	70
6 5	16 53.58	− 5 20.0	0.697	1.693	10.2	19.0	163 W	40	69
6 10	16 49.61	− 5 12.6	0.692	1.686	11.1	19.0	161 E	40	69
6 20	16 42.30	− 5 23.0	0.695	1.672	15.0	19.2	155 E	40	69
6 30	16 37.27	− 6 6.5	0.715	1.661	19.7	19.4	147 E	39	70
7 10	16 35.69	− 7 17.7	0.748	1.652	24.2	19.6	138 E	38	71
7 15	16 36.38	− 8 1.3	0.769	1.648	26.2	19.7	134 E	37	72
7 20	16 38.08	− 8 48.9	0.793	1.645	28.1	19.8	130 E	36	73
7 25	16 40.81	− 9 39.5	0.820	1.643	29.7	19.9	127 E	35	74
7 30	16 44.53	−10 31.9	0.849	1.642	31.1	20.1	123 E	34	75
8 4	16 49.20	−11 25.3	0.880	1.641	32.4	20.2	120 E	34	75
8 9	16 54.75	−12 18.8	0.912	1.641	33.5	20.3	117 E	33*	76
8 19	17 8.28	−14 3.2	0.983	1.643	35.2	20.5	111 E	31*	78
8 29	17 24.71	−15 39.8	1.060	1.647	36.2	20.7	105 E	29*	80
9 8	17 43.55	−17 4.2	1.142	1.654	36.8	20.9	100 E	28*	81
9 18	18 4.35	−18 13.2	1.230	1.664	36.9	21.1	96 E	27*	82*
9 28	18 26.71	−19 4.4	1.322	1.676	36.7	21.2	91 E	26*	81*
10 8	18 50.23	−19 36.4	1.418	1.691	36.2	21.4	87 E	25*	78*
206924 2004 PP_{102}									
3 12	16 31.49	−27 58.0	1.969	2.369	24.3	21.5	101 W	17	88
3 22	16 39.95	−28 35.4	1.821	2.343	23.7	21.3	109 W	16	87
4 1	16 45.98	−29 8.2	1.679	2.316	22.5	21.0	117 W	16	87
4 11	16 49.11	−29 36.0	1.547	2.289	20.6	20.8	126 W	15	86
4 21	16 48.91	−29 57.6	1.427	2.261	18.0	20.5	136 W	15	86
5 1	16 45.07	−30 10.1	1.323	2.232	14.5	20.2	146 W	15	86
5 11	16 37.68	−30 10.2	1.238	2.203	10.3	19.8	157 W	15	86
5 16	16 32.82	−30 4.4	1.203	2.188	8.1	19.7	162 W	15	86
5 21	16 27.33	−29 54.2	1.175	2.174	5.8	19.5	167 W	15	86
5 26	16 21.41	−29 39.3	1.152	2.159	4.1	19.4	171 W	15	86
5 31	16 15.27	−29 20.1	1.136	2.144	3.9	19.3	172 E	16	87
6 5	16 9.13	−28 56.8	1.125	2.129	5.6	19.3	168 E	16	87
6 10	16 3.23	−28 30.2	1.121	2.114	7.9	19.4	163 E	16	87
6 15	15 57.77	−28 1.2	1.123	2.099	10.5	19.5	158 E	17	88

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
206924 2004 PP_{102} *(continuation)*									
6 20	15 52.95	−27 30.8	1.130	2.084	13.1	19.6	152 E	17	88
6 25	15 48.91	−27 0.1	1.143	2.069	15.7	19.7	147 E	18	89
6 30	15 45.78	−26 30.2	1.159	2.054	18.0	19.8	141 E	18	89
7 5	15 43.63	−26 2.1	1.181	2.039	20.2	19.9	136 E	19	90
7 10	15 42.49	−25 36.4	1.205	2.024	22.3	20.0	131 E	19	90
7 20	15 43.21	−24 54.0	1.263	1.994	25.7	20.2	122 E	20*	89
7 30	15 47.80	−24 24.6	1.330	1.964	28.4	20.3	113 E	20*	88
8 9	15 55.92	−24 7.5	1.402	1.934	30.4	20.5	105 E	19*	88
8 19	16 7.14	−24 0.1	1.477	1.906	31.7	20.6	98 E	19*	88
8 29	16 21.14	−23 59.4	1.554	1.878	32.5	20.7	92 E	18*	85*
9 8	16 37.54	−24 1.9	1.629	1.850	32.9	20.8	86 E	18*	80*
9 18	16 56.05	−24 4.0	1.703	1.824	32.9	20.8	80 E	18*	74*
9 28	17 16.43	−24 2.4	1.776	1.799	32.6	20.9	75 E	18*	69*
10 8	17 38.40	−23 53.8	1.845	1.775	32.0	20.9	70 E	18*	64*
10 18	18 1.73	−23 35.4	1.912	1.753	31.2	21.0	66 E	19*	59*
10 28	18 26.20	−23 5.0	1.975	1.733	30.2	21.0	61 E	19*	54*
11 7	18 51.54	−22 20.4	2.036	1.714	29.1	21.0	57 E	20*	49*
11 17	19 17.54	−21 20.5	2.094	1.698	27.8	21.0	53 E	21*	44*
11 27	19 43.98	−20 4.4	2.149	1.683	26.4	21.0	49 E	21*	39*
12 7	20 10.65	−18 32.1	2.202	1.671	25.0	21.0	46 E	22*	34*
12 17	20 37.40	−16 43.9	2.254	1.662	23.4	21.0	42 E	23*	29*
12 27	21 4.08	−14 41.0	2.303	1.655	21.9	21.0	39 E	23*	25*
1 6	21 30.57	−12 24.8	2.350	1.651	20.2	21.0	35 E	22*	20*
1 16	21 56.84	− 9 57.3	2.397	1.650	18.5	20.9	32 E	21*	16*
247087 2000 SC_{145}									
3 12	16 39.28	−22 21.3	1.703	2.118	27.5	21.4	100 W	23	86
3 22	16 51.73	−22 34.0	1.558	2.084	27.2	21.2	107 W	22	87
4 1	17 2.28	−22 38.6	1.420	2.050	26.3	20.9	115 W	22	87
4 11	17 10.49	−22 35.5	1.290	2.016	24.7	20.6	123 W	22	87
4 21	17 15.86	−22 25.4	1.170	1.982	22.4	20.3	131 W	23	86
5 1	17 17.89	−22 8.6	1.063	1.949	19.2	20.0	141 W	23	86
5 11	17 16.31	−21 45.2	0.971	1.916	15.0	19.6	151 W	23	86
5 21	17 11.12	−21 15.5	0.897	1.884	9.8	19.2	161 W	24	85
5 26	17 7.32	−20 58.5	0.867	1.868	7.0	19.0	167 W	24	85
5 31	17 2.90	−20 40.3	0.842	1.852	4.0	18.7	173 W	24	85
6 5	16 58.05	−20 21.3	0.823	1.837	1.4	18.5	178 W	25	84
6 10	16 52.99	−20 2.0	0.809	1.822	3.1	18.6	174 E	25	84
6 15	16 47.95	−19 42.9	0.800	1.807	6.3	18.7	169 E	25	84
6 20	16 43.18	−19 24.8	0.797	1.793	9.6	18.8	163 E	26	83
6 25	16 38.91	−19 8.3	0.798	1.779	12.9	18.9	157 E	26	83
6 30	16 35.36	−18 54.2	0.804	1.765	16.0	19.0	151 E	26	83
7 5	16 32.70	−18 43.0	0.814	1.752	18.9	19.1	146 E	26	83
7 10	16 31.03	−18 35.0	0.828	1.739	21.6	19.2	141 E	26	83
7 20	16 30.91	−18 29.5	0.865	1.715	26.4	19.5	131 E	27	82
7 30	16 35.23	−18 37.3	0.912	1.693	30.2	19.7	123 E	26	83
8 9	16 43.77	−18 55.6	0.966	1.673	33.2	19.8	115 E	26*	83
8 19	16 56.09	−19 20.2	1.026	1.656	35.4	20.0	109 E	25*	83
8 29	17 11.76	−19 46.8	1.090	1.642	36.9	20.2	103 E	25*	84
9 8	17 30.29	−20 10.7	1.157	1.630	37.8	20.3	97 E	24*	84
9 18	17 51.20	−20 27.6	1.227	1.622	38.2	20.4	93 E	24*	84*
9 28	18 14.11	−20 34.0	1.299	1.616	38.3	20.5	88 E	24*	80*
10 8	18 38.55	−20 26.8	1.373	1.614	38.0	20.7	84 E	24*	76*
10 18	19 4.13	−20 3.7	1.450	1.615	37.5	20.8	80 E	25*	72*
10 28	19 30.50	−19 23.6	1.530	1.619	36.6	20.9	77 E	25*	68*
11 7	19 57.29	−18 26.0	1.612	1.626	35.6	21.0	73 E	26*	63*
11 17	20 24.22	−17 11.3	1.697	1.637	34.4	21.0	69 E	28*	58*
11 27	20 51.04	−15 40.6	1.785	1.650	33.1	21.1	66 E	29*	53*
12 7	21 17.57	−13 55.6	1.875	1.667	31.6	21.2	62 E	30*	48*
12 17	21 43.68	−11 58.4	1.967	1.685	30.0	21.3	59 E	32*	42*
12 27	22 9.31	− 9 51.2	2.061	1.707	28.3	21.4	55 E	33*	37*
1 6	22 34.40	− 7 36.5	2.156	1.730	26.5	21.5	52 E	33*	32*
361123 2006 GW_2									
3 12	16 41.83	− 4 6.2	0.587	1.251	51.1	21.4	102 W	41	68
3 22	16 39.39	− 2 30.0	0.539	1.230	52.3	21.2	102 W	42	67
4 1	17 50.68	− 0 32.9	0.498	1.212	53.5	21.1	103 W	44*	65
4 11	18 24.29	+ 1 36.5	0.464	1.196	54.6	20.9	103 W	46*	62
4 21	18 56.79	+ 3 48.7	0.434	1.185	55.6	20.8	104 W	48*	60
5 1	19 27.71	+ 5 53.0	0.408	1.176	56.1	20.6	104 W	50*	58
5 11	19 56.75	+ 7 38.7	0.385	1.172	56.2	20.5	105 W	52*	56
5 21	20 23.58	+ 8 56.6	0.364	1.172	55.6	20.4	107 W	53*	55
5 26	20 36.01	+ 9 21.8	0.353	1.174	55.0	20.3	108 W	54*	55
5 31	20 47.70	+ 9 36.1	0.343	1.176	54.1	20.2	110 W	54*	54
6 5	20 58.63	+ 9 38.0	0.333	1.180	53.0	20.1	112 W	54*	54
6 10	21 8.73	+ 9 26.5	0.323	1.184	51.6	20.0	114 W	54*	55
6 15	21 17.89	+ 8 59.9	0.314	1.190	49.8	19.9	117 W	54*	55
6 20	21 26.01	+ 8 16.5	0.304	1.196	47.7	19.8	119 W	53	56
6 25	21 33.00	+ 7 14.5	0.295	1.203	45.2	19.7	123 W	52	57

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
361123 2006 GW_2 *(continuation)*									
6 30	21 38.77	+ 5 52.3	0.287	1.211	42.2	19.5	127 W	51	58
7 5	21 43.30	+ 4 9.0	0.280	1.220	38.7	19.4	131 W	49	60
7 10	21 46.50	+ 2 4.2	0.274	1.229	34.8	19.3	136 W	47	62
7 15	21 48.33	− 0 21.5	0.269	1.239	30.5	19.1	142 W	45	64
7 20	21 48.80	− 3 6.0	0.267	1.250	25.6	19.0	148 W	42	67
7 25	21 48.01	− 6 5.4	0.267	1.262	20.5	18.9	154 W	39	70
7 30	21 46.19	− 9 13.4	0.270	1.273	15.1	18.7	161 W	36	73
8 4	21 43.58	−12 22.4	0.276	1.286	9.6	18.6	168 W	33	76
8 9	21 40.48	−15 24.8	0.286	1.298	4.6	18.4	174 W	30	79
8 14	21 37.20	−18 13.6	0.299	1.311	3.0	18.5	176 W	27	82
8 19	21 34.09	−20 43.5	0.315	1.324	7.0	18.8	171 E	24	85
8 24	21 31.49	−22 51.1	0.336	1.338	11.5	19.2	165 E	22	87
8 29	21 29.67	−24 35.1	0.359	1.351	15.5	19.5	159 E	20	89
9 3	21 28.79	−25 56.1	0.386	1.365	19.2	19.8	154 E	19	90
9 8	21 28.90	−26 55.8	0.416	1.379	22.4	20.1	149 E	18	89
9 13	21 30.04	−27 36.3	0.448	1.393	25.3	20.3	144 E	17	88
9 18	21 32.20	−27 59.9	0.483	1.407	27.7	20.6	139 E	17	88
9 23	21 35.33	−28 8.7	0.520	1.421	29.8	20.8	135 E	17	88
9 28	21 39.36	−28 4.8	0.559	1.434	31.6	21.1	131 E	17	88
10 3	21 44.17	−27 50.0	0.601	1.448	33.1	21.3	128 E	17	88
10 8	21 49.68	−27 25.9	0.644	1.462	34.4	21.5	124 E	18	89
322762 2001 FM									
3 12	16 45.79	−31 21.5	2.578	2.881	20.0	21.5	97 W	14	85
3 22	16 49.01	−32 40.8	2.460	2.903	19.2	21.3	106 W	12	83
4 1	16 49.47	−34 0.6	2.348	2.924	17.9	21.2	116 W	11	82
4 11	16 46.88	−35 19.3	2.248	2.944	16.1	21.1	125 W	10	81
4 21	16 41.07	−36 33.6	2.162	2.964	13.8	20.9	135 W	8	79
5 1	16 32.13	−37 38.8	2.097	2.982	11.1	20.8	145 W	7	78
5 11	16 20.59	−38 29.6	2.056	3.000	8.3	20.6	155 W	7	78
5 21	16 7.38	−39 1.6	2.042	3.016	6.3	20.5	161 W	6	77
5 31	15 53.77	−39 12.8	2.056	3.032	6.3	20.6	161 E	6	77
6 10	15 41.13	−39 5.3	2.098	3.046	8.2	20.7	155 E	6	77
6 20	15 30.56	−38 43.8	2.166	3.060	10.8	20.9	146 E	6	77
6 30	15 22.78	−38 14.7	2.257	3.073	13.2	21.1	136 E	7	78
7 10	15 18.08	−37 44.1	2.366	3.085	15.3	21.3	127 E	7*	78
7 20	15 16.41	−37 16.6	2.491	3.095	16.9	21.4	118 E	7*	79
431775 2008 JO_{24}									
3 12	16 53.68	+19 2.1	0.974	1.501	40.8	21.3	99 W	64	45
3 17	17 6.78	+20 32.7	0.940	1.483	41.4	21.2	100 W	66	43
3 22	17 19.71	+22 5.4	0.909	1.465	42.0	21.2	100 W	67	42
3 27	17 32.40	+23 38.9	0.880	1.448	42.6	21.1	101 W	69	40
4 1	17 44.81	+25 12.0	0.852	1.431	43.3	21.0	101 W	70	39
4 6	17 56.91	+26 43.7	0.826	1.414	44.0	20.9	101 W	72	37
4 11	18 8.66	+28 12.8	0.800	1.399	44.7	20.9	101 W	73	36
4 16	18 20.03	+29 38.4	0.776	1.384	45.3	20.8	101 W	75	34
4 21	18 30.95	+30 59.5	0.752	1.369	46.0	20.7	101 W	76	33
4 26	18 41.39	+32 15.0	0.729	1.356	46.7	20.6	102 W	77	32
5 1	18 51.32	+33 23.8	0.705	1.343	47.3	20.6	102 W	78	31
5 6	19 0.71	+34 24.8	0.682	1.331	47.8	20.5	102 W	79	30
5 11	19 9.55	+35 17.1	0.658	1.320	48.3	20.4	103 W	80	29
5 16	19 17.79	+35 59.7	0.633	1.311	48.7	20.3	103 W	81	28
5 21	19 25.38	+36 31.2	0.608	1.302	48.9	20.2	104 W	82	27
5 26	19 32.28	+36 49.9	0.582	1.295	49.0	20.1	105 W	82	27
5 31	19 38.49	+36 53.6	0.556	1.288	48.9	20.0	107 W	82	27
6 5	19 43.98	+36 40.2	0.529	1.283	48.6	19.9	108 W	82	27
6 10	19 48.74	+36 6.9	0.501	1.280	48.0	19.7	110 W	81	28
6 15	19 52.72	+35 10.0	0.473	1.277	47.1	19.6	113 W	80	29
6 20	19 55.90	+33 44.7	0.446	1.276	45.7	19.4	116 W	79	30
6 25	19 58.30	+31 45.2	0.418	1.276	43.8	19.2	120 W	77	32
6 30	19 59.96	+29 4.8	0.392	1.278	41.3	19.0	124 W	74	35
7 5	20 0.97	+25 36.6	0.367	1.281	38.0	18.8	129 W	71	38
7 10	20 1.41	+21 14.3	0.345	1.285	33.9	18.5	135 W	66	43
7 15	20 1.39	+15 53.7	0.327	1.290	28.9	18.3	142 W	61	48
7 20	20 1.09	+ 9 36.4	0.314	1.297	23.3	18.0	150 W	55	54
7 22	20 0.94	+ 6 51.7	0.310	1.300	20.9	18.0	153 E	52	57
7 24	20 0.80	+ 4 0.8	0.308	1.303	18.6	17.9	156 E	49	60
7 26	20 0.69	+ 1 5.2	0.306	1.306	16.3	17.8	159 E	46	63
7 28	20 0.63	− 1 53.6	0.307	1.310	14.3	17.7	161 E	43	66
7 30	20 0.62	− 4 53.6	0.308	1.313	12.6	17.7	164 E	40	69
8 1	20 0.69	− 7 52.9	0.310	1.317	11.4	17.7	165 E	37	72
8 3	20 0.85	−10 49.9	0.314	1.321	11.0	17.7	166 E	34	75
8 5	20 1.10	−13 42.7	0.319	1.326	11.3	17.7	165 E	31	78
8 7	20 1.46	−16 29.9	0.326	1.330	12.2	17.8	164 E	29	80
8 9	20 1.95	−19 10.2	0.333	1.335	13.6	17.9	162 E	26	83
8 11	20 2.56	−21 42.7	0.342	1.339	15.2	18.0	160 E	23	86
8 13	20 3.32	−24 6.7	0.351	1.344	16.9	18.2	157 E	21	88
8 15	20 4.22	−26 21.7	0.362	1.349	18.7	18.3	155 E	19	90
8 17	20 5.28	−28 27.4	0.374	1.354	20.5	18.4	152 E	17	88
8 19	20 6.51	−30 23.9	0.386	1.360	22.1	18.6	150 E	15	86

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
431775 2008 JO_{24} *(continuation)*									
8 24	20 10.32	−34 36.0	0.421	1.373	25.9	18.9	144 E	10	81
8 29	20 15.20	−37 56.5	0.460	1.388	29.0	19.2	138 E	7	78
9 3	20 21.11	−40 32.1	0.503	1.403	31.4	19.5	133 E	4	75
9 8	20 27.94	−42 29.6	0.548	1.419	33.4	19.8	129 E	3	74
9 13	20 35.59	−43 55.3	0.596	1.436	34.9	20.0	125 E	1	72
9 18	20 43.96	−44 54.1	0.646	1.453	36.0	20.2	122 E	—	71
9 23	20 52.95	−45 30.6	0.697	1.470	36.8	20.4	119 E	—	70
9 28	21 2.43	−45 48.1	0.750	1.488	37.4	20.6	116 E	—	70
10 3	21 12.29	−45 49.7	0.804	1.507	37.8	20.8	113 E	—	70
10 8	21 22.40	−45 37.7	0.858	1.525	37.9	21.0	110 E	—	70
10 13	21 32.70	−45 14.0	0.914	1.544	38.0	21.2	108 E	—	71
10 18	21 43.12	−44 40.0	0.971	1.563	37.9	21.3	105 E	—	71
10 23	21 53.61	−43 57.3	1.028	1.582	37.8	21.5	103 E	1	72
186823 2004 FN_{32}									
3 12	16 57.19	−10 42.5	0.850	1.386	45.3	21.2	97 W	34	75*
3 17	17 14.38	− 8 58.1	0.771	1.340	47.3	21.0	98 W	36	73
3 22	17 33.72	− 6 45.9	0.696	1.292	49.8	20.7	98 W	38*	71
3 27	17 55.86	− 3 59.0	0.625	1.242	52.9	20.5	97 W	41*	68
4 1	18 21.63	− 0 30.3	0.562	1.190	56.8	20.3	95 W	44*	65
4 6	18 52.09	+ 3 46.0	0.507	1.135	61.8	20.1	92 W	47*	60*
4 11	19 28.34	+ 8 49.5	0.464	1.077	68.2	20.0	86 W	50*	55*
4 13	19 44.67	+11 1.4	0.450	1.054	71.1	20.0	84 W	51*	52*
4 15	20 2.08	+13 16.9	0.440	1.030	74.2	20.0	81 W	51*	50*
4 17	20 20.54	+15 33.4	0.431	1.005	77.4	20.0	78 W	51*	47*
4 19	20 40.01	+17 48.1	0.426	0.980	80.8	20.0	74 W	51*	44*
4 21	21 0.35	+19 57.5	0.424	0.955	84.2	20.1	71 W	50*	41*
4 23	21 21.40	+21 58.5	0.425	0.929	87.6	20.2	67 W	49*	38*
4 25	21 42.94	+23 48.1	0.429	0.903	90.9	20.3	64 W	47*	35*
4 27	22 4.70	+25 23.7	0.436	0.877	94.1	20.4	60 W	46*	33*
4 29	22 26.42	+26 44.1	0.447	0.850	97.0	20.5	57 W	43*	30*
5 1	22 47.84	+27 48.4	0.460	0.823	99.7	20.6	54 W	41*	28*
5 3	23 8.72	+28 36.8	0.476	0.795	102.0	20.7	50 W	39*	25*
5 5	23 28.88	+29 10.4	0.494	0.767	104.1	20.8	48 W	36*	23*
5 7	23 48.21	+29 30.3	0.516	0.739	105.7	20.9	45 W	34*	22*
5 9	0 6.63	+29 38.2	0.539	0.710	107.0	21.0	42 W	32*	20*
5 11	0 24.13	+29 35.8	0.565	0.682	107.8	21.1	40 W	30*	19*
5 13	0 40.74	+29 24.5	0.593	0.653	108.3	21.1	38 W	27*	18*
5 15	0 56.52	+29 6.0	0.624	0.624	108.2	21.1	36 W	25*	17*
5 17	1 11.56	+28 41.3	0.656	0.595	107.7	21.1	34 W	24*	16*
5 19	1 25.96	+28 11.7	0.691	0.567	106.6	21.0	32 W	22*	16*
5 21	1 39.84	+27 38.1	0.728	0.539	105.0	21.0	31 W	20*	15*
5 23	1 53.32	+27 1.4	0.767	0.512	102.8	20.8	30 W	18*	15*
5 25	2 6.53	+26 22.3	0.809	0.487	99.9	20.7	28 W	17*	15*
5 27	2 19.60	+25 41.3	0.852	0.463	96.3	20.5	27 W	15*	14*
5 29	2 32.63	+24 59.2	0.897	0.441	92.0	20.3	26 W	13*	14*
5 31	2 45.74	+24 16.6	0.944	0.422	87.0	20.2	25 W	12*	14*
6 2	2 59.00	+23 33.9	0.992	0.407	81.3	20.0	23 W	10*	13*
6 4	3 12.46	+22 51.8	1.041	0.397	75.0	19.8	22 W	9*	13*
6 6	3 26.12	+22 10.8	1.091	0.391	68.4	19.7	21 W	7*	12*
6 8	3 39.94	+21 31.1	1.140	0.390	61.7	19.5	20 W	6*	12*
6 10	3 53.84	+20 53.1	1.188	0.394	55.1	19.5	19 W	4*	11*
6 12	4 7.71	+20 16.9	1.234	0.404	48.9	19.4	17 W	3*	10*
6 14	4 21.45	+19 42.4	1.279	0.418	43.2	19.4	16 W	1*	10*
6 16	4 34.95	+19 9.5	1.322	0.435	38.1	19.4	15 W	—	9*
6 18	4 48.14	+18 37.9	1.363	0.456	33.8	19.5	14 W	—	8*
6 20	5 0.96	+18 7.5	1.402	0.479	30.1	19.5	14 W	—	8*
6 25	5 31.23	+16 55.3	1.493	0.545	23.4	19.8	12 W	—	6*
6 30	5 58.91	+15 46.7	1.577	0.615	19.3	20.0	12 W	—	5*
7 5	6 24.16	+14 40.3	1.655	0.687	16.8	20.3	11 W	—	5*
7 10	6 47.25	+13 35.4	1.729	0.759	15.2	20.5	11 W	—	4*
7 15	7 8.47	+12 31.6	1.800	0.828	14.1	20.8	11 W	—	4*
7 20	7 28.07	+11 28.7	1.867	0.895	13.3	21.0	12 W	—	5*
7 25	7 46.25	+10 26.7	1.930	0.960	12.7	21.2	12 W	—	5*
7 30	8 3.21	+ 9 25.4	1.991	1.022	12.3	21.4	12 W	—	6*
329244 1992 UA									
3 12	16 58.63	−24 41.8	1.236	1.659	36.6	21.4	96 W	20	89*
3 22	17 17.64	−26 10.1	1.148	1.658	36.2	21.3	101 W	19	90
4 1	17 34.73	−27 37.4	1.063	1.658	35.2	21.1	107 W	17	88
4 11	17 49.36	−29 6.7	0.983	1.660	33.6	20.9	114 W	16	87
4 21	18 0.85	−30 40.9	0.909	1.663	31.3	20.6	121 W	14	85
5 1	18 8.38	−32 21.9	0.842	1.667	28.2	20.4	128 W	13	84
5 6	18 10.43	−33 14.8	0.813	1.670	26.4	20.3	133 W	12	83
5 11	18 11.23	−34 8.9	0.786	1.673	24.3	20.1	137 W	11	82
5 16	18 10.72	−35 3.4	0.762	1.676	22.0	20.0	142 W	10	81
5 21	18 8.85	−35 57.2	0.742	1.680	19.6	19.9	146 W	9	80
5 26	18 5.65	−36 48.8	0.725	1.684	17.1	19.7	151 W	8	79
5 31	18 1.24	−37 36.4	0.713	1.688	14.6	19.6	155 W	7	78
6 5	17 55.80	−38 18.4	0.704	1.692	12.3	19.5	159 W	7	78

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
329244 1992 *UA* *(continuation)*									
6 10	17 49.59	−38 53.1	0.701	1.697	10.5	19.4	162 W	6	77
6 15	17 42.92	−39 19.3	0.702	1.701	9.5	19.4	164 W	6	77
6 20	17 36.14	−39 36.2	0.708	1.706	9.8	19.5	163 E	5	76
6 25	17 29.66	−39 43.7	0.718	1.712	11.2	19.5	161 E	5	76
6 30	17 23.83	−39 42.7	0.734	1.717	13.1	19.7	157 E	5	76
7 5	17 18.93	−39 34.3	0.753	1.723	15.4	19.8	153 E	5	76
7 10	17 15.16	−39 19.8	0.777	1.729	17.7	20.0	149 E	6	77
7 15	17 12.63	−39 0.8	0.805	1.735	19.9	20.1	144 E	6	77
7 20	17 11.40	−38 38.5	0.836	1.741	22.0	20.3	140 E	6	77
7 25	17 11.48	−38 14.3	0.870	1.748	23.9	20.4	136 E	7	78
7 30	17 12.83	−37 49.0	0.908	1.755	25.6	20.6	132 E	7	78
8 4	17 15.35	−37 23.3	0.948	1.761	27.1	20.7	128 E	8	79
8 9	17 18.95	−36 57.6	0.991	1.768	28.4	20.9	124 E	8	79
8 14	17 23.54	−36 32.0	1.035	1.775	29.6	21.0	120 E	8	79
8 19	17 29.01	−36 6.6	1.082	1.782	30.5	21.1	117 E	9	80
8 24	17 35.30	−35 41.3	1.131	1.790	31.3	21.3	113 E	9	80
8 29	17 42.30	−35 16.1	1.181	1.797	31.9	21.4	110 E	10*	81
247827 2003 SN_{198}									
3 12	17 0.18	−23 0.7	2.238	2.532	23.0	21.4	95 W	22	87*
3 22	17 9.07	−22 54.3	2.081	2.505	22.8	21.2	103 W	22	87
4 1	17 15.88	−22 41.0	1.928	2.477	22.0	21.0	112 W	22	87
4 11	17 20.24	−22 20.9	1.783	2.449	20.7	20.7	120 W	23	86
4 21	17 21.78	−21 54.2	1.648	2.420	18.6	20.5	130 W	23	86
5 1	17 20.21	−21 20.8	1.528	2.390	15.7	20.2	140 W	24	85
5 11	17 15.46	−20 40.5	1.426	2.359	12.0	19.9	151 W	24	85
5 21	17 7.74	−19 53.6	1.344	2.328	7.6	19.5	162 W	25	84
5 26	17 2.96	−19 28.1	1.312	2.313	5.3	19.3	168 W	26	83
5 31	16 57.74	−19 1.6	1.287	2.297	2.9	19.2	173 W	26	83
6 5	16 52.25	−18 34.4	1.268	2.281	1.8	19.0	176 E	26	83
6 10	16 46.65	−18 7.3	1.255	2.265	3.6	19.1	172 E	27	82
6 15	16 41.13	−17 40.7	1.249	2.249	6.1	19.2	166 E	27	82
6 20	16 35.87	−17 15.2	1.249	2.233	8.8	19.3	160 E	28	81
6 25	16 31.04	−16 51.6	1.255	2.217	11.3	19.4	155 E	28	81
6 30	16 26.80	−16 30.5	1.267	2.201	13.8	19.5	149 E	28	81
7 10	16 20.50	−15 57.3	1.304	2.168	18.4	19.7	138 E	29	80
7 20	16 17.53	−15 37.6	1.358	2.135	22.2	19.9	128 E	29	80
7 30	16 18.11	−15 31.7	1.423	2.102	25.2	20.0	118 E	29*	80
8 9	16 22.10	−15 37.7	1.495	2.070	27.5	20.2	110 E	29*	80
8 19	16 29.25	−15 53.0	1.572	2.037	29.1	20.3	102 E	28*	80
8 29	16 39.28	−16 14.8	1.651	2.005	30.1	20.4	95 E	27*	80
9 8	16 51.87	−16 39.6	1.730	1.973	30.7	20.5	88 E	26*	78*
9 18	17 6.75	−17 4.5	1.807	1.942	30.8	20.6	82 E	25*	74*
9 28	17 23.67	−17 26.4	1.882	1.911	30.6	20.6	76 E	25*	68*
10 8	17 42.39	−17 42.5	1.953	1.882	30.1	20.6	71 E	25*	63*
10 18	18 2.71	−17 50.5	2.020	1.853	29.4	20.6	66 E	24*	58*
10 28	18 24.44	−17 47.9	2.083	1.826	28.5	20.7	61 E	24*	52*
11 7	18 47.35	−17 32.8	2.141	1.800	27.4	20.7	57 E	24*	47*
11 17	19 11.26	−17 3.8	2.196	1.776	26.2	20.6	52 E	24*	42*
11 27	19 35.99	−16 19.6	2.247	1.754	24.9	20.6	48 E	24*	36*
12 7	20 1.32	−15 19.8	2.293	1.733	23.5	20.6	44 E	24*	31*
12 17	20 27.10	−14 4.2	2.337	1.715	22.0	20.6	41 E	24*	26*
12 27	20 53.18	−12 33.2	2.378	1.700	20.4	20.5	37 E	23*	21*
1 6	21 19.42	−10 47.9	2.416	1.686	18.8	20.5	34 E	22*	17*
1 16	21 45.72	− 8 49.7	2.452	1.676	17.2	20.5	30 E	21*	13*
468826 2012 TL_{78}									
3 12	17 30.94	−32 24.4	2.292	2.463	23.8	21.4	88 W	12*	80*
3 22	17 44.18	−32 23.5	2.123	2.421	24.2	21.2	95 W	13*	84*
4 1	17 55.83	−32 15.5	1.956	2.377	24.3	21.0	102 W	13*	84
4 11	18 5.53	−32 0.1	1.795	2.334	23.8	20.7	110 W	13	84
4 21	18 12.85	−31 37.0	1.640	2.290	22.8	20.5	118 W	13	84
5 1	18 17.32	−31 5.0	1.494	2.247	21.1	20.2	127 W	14	85
5 11	18 18.51	−30 22.4	1.361	2.203	18.6	19.8	136 W	15	86
5 21	18 16.10	−29 26.3	1.244	2.159	15.1	19.5	146 W	16	87
5 31	18 10.02	−28 13.2	1.145	2.115	10.8	19.1	157 W	17	88
6 5	18 5.75	−27 29.5	1.103	2.094	8.3	18.9	163 W	18	89
6 10	18 0.79	−26 40.6	1.067	2.072	5.5	18.7	169 W	18	89
6 15	17 55.29	−25 46.7	1.037	2.051	2.7	18.4	175 W	19	90
6 20	17 49.46	−24 48.3	1.014	2.030	0.9	18.2	178 E	20	89
6 25	17 43.51	−23 46.0	0.996	2.008	3.7	18.4	173 E	21	88
6 30	17 37.70	−22 41.0	0.985	1.988	6.9	18.5	166 E	22	87
7 5	17 32.26	−21 34.6	0.980	1.967	10.0	18.6	160 E	23	86
7 10	17 27.38	−20 28.3	0.980	1.946	13.1	18.7	154 E	25	84
7 15	17 23.24	−19 23.3	0.985	1.926	16.0	18.8	148 E	26	83
7 20	17 19.98	−18 20.9	0.996	1.907	18.8	18.9	143 E	27	82
7 25	17 17.70	−17 22.2	1.010	1.887	21.4	18.9	137 E	28	81
7 30	17 16.46	−16 27.8	1.028	1.868	23.8	19.0	132 E	29	80

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
468826 2012 TL_{78} *(continuation)*									
8 9	17 17.14	−14 53.0	1.074	1.831	27.8	19.2	123 E	30	79
8 19	17 21.87	−13 36.4	1.127	1.796	31.0	19.4	114 E	31*	78
8 29	17 30.36	−12 35.4	1.187	1.763	33.3	19.5	107 E	32*	77
9 8	17 42.17	−11 45.5	1.249	1.733	35.0	19.6	100 E	33*	76
9 18	17 56.87	−11 2.2	1.312	1.705	36.0	19.7	94 E	34*	75*
9 28	18 14.11	−10 21.1	1.375	1.681	36.6	19.8	89 E	34*	72*
10 8	18 33.50	− 9 38.1	1.438	1.660	36.8	19.9	84 E	35*	68*
10 18	18 54.73	− 8 49.9	1.501	1.643	36.6	19.9	79 E	36*	64*
10 28	19 17.53	− 7 53.8	1.563	1.629	36.2	20.0	76 E	37*	59*
11 7	19 41.58	− 6 47.7	1.625	1.620	35.6	20.1	72 E	38*	54*
11 17	20 6.65	− 5 30.6	1.688	1.615	34.7	20.1	69 E	39*	49*
11 27	20 32.51	− 4 1.8	1.753	1.614	33.8	20.2	65 E	40*	43*
12 7	20 58.91	− 2 21.7	1.819	1.618	32.7	20.2	62 E	41*	38*
12 17	21 25.69	− 0 31.4	1.888	1.626	31.4	20.3	59 E	42*	33*
12 27	21 52.66	+ 1 27.9	1.960	1.638	30.1	20.3	57 E	42*	28*
1 6	22 19.69	+ 3 33.8	2.035	1.653	28.6	20.4	54 E	42*	24*
1 16	22 46.68	+ 5 44.3	2.113	1.673	27.1	20.5	51 E	41*	20*
9172 Abhramu									
3 12	17 42.51	−29 9.6	2.438	2.559	22.8	21.5	85 W	15*	79*
3 22	17 55.39	−29 19.5	2.246	2.498	23.5	21.3	93 W	15*	85*
4 1	18 7.12	−29 26.0	2.056	2.435	23.9	21.0	100 W	15*	87
4 11	18 17.42	−29 29.7	1.870	2.371	23.8	20.8	107 W	15*	87
4 21	18 25.93	−29 31.2	1.691	2.306	23.2	20.5	115 W	15	86
5 1	18 32.17	−29 30.9	1.520	2.240	22.0	20.1	124 W	15	86
5 11	18 35.68	−29 28.8	1.361	2.174	20.1	19.8	132 W	16	87
5 21	18 35.91	−29 23.8	1.215	2.106	17.3	19.4	142 W	16	87
5 31	18 32.35	−29 13.6	1.086	2.038	13.5	18.9	152 W	16	87
6 10	18 24.83	−28 53.9	0.975	1.969	8.7	18.4	163 W	16	87
6 15	18 19.64	−28 38.8	0.928	1.934	6.0	18.1	168 W	16	87
6 20	18 13.62	−28 19.3	0.886	1.899	3.4	17.9	174 W	17	88
6 25	18 6.96	−27 54.8	0.850	1.865	2.7	17.7	175 E	17	88
6 30	17 59.88	−27 25.0	0.819	1.830	5.2	17.7	171 E	18	89
7 5	17 52.68	−26 49.9	0.794	1.795	8.5	17.8	165 E	18	89
7 10	17 45.64	−26 10.1	0.775	1.761	12.1	17.8	159 E	19	90
7 15	17 39.05	−25 26.2	0.760	1.727	15.8	17.8	153 E	20	89
7 20	17 33.20	−24 39.5	0.750	1.692	19.4	17.9	146 E	20	89
7 25	17 28.36	−23 51.2	0.744	1.659	22.9	17.9	141 E	21	88
7 30	17 24.71	−23 2.5	0.741	1.625	26.3	18.0	135 E	22	87
8 4	17 22.37	−22 14.7	0.741	1.592	29.5	18.0	129 E	23	86
8 9	17 21.41	−21 28.3	0.743	1.560	32.4	18.1	124 E	24	85
8 19	17 23.75	−20 2.1	0.752	1.497	37.7	18.2	115 E	25	84
8 29	17 31.69	−18 44.8	0.764	1.437	42.1	18.2	107 E	26*	83
9 8	17 44.82	−17 33.4	0.776	1.382	45.7	18.3	101 E	27*	82
9 18	18 2.73	−16 22.8	0.786	1.332	48.7	18.3	95 E	28*	80*
9 28	18 25.03	−15 7.3	0.794	1.290	51.0	18.3	91 E	30*	78*
10 8	18 51.26	−13 40.5	0.800	1.255	52.7	18.3	88 E	31*	74*
10 18	19 21.03	−11 57.3	0.805	1.230	53.9	18.3	85 E	33*	71*
10 28	19 53.94	− 9 53.7	0.812	1.215	54.4	18.4	84 E	35	67*
11 7	20 29.41	− 7 27.8	0.823	1.211	54.3	18.4	83 E	38	63*
11 17	21 6.86	− 4 41.3	0.841	1.218	53.7	18.4	83 E	40	60*
11 22	21 26.11	− 3 11.4	0.854	1.226	53.1	18.4	83 E	42	58*
11 27	21 45.58	− 1 38.2	0.869	1.236	52.4	18.5	83 E	43	56*
12 2	22 5.17	− 0 2.7	0.887	1.249	51.6	18.5	83 E	45	54*
12 7	22 24.78	+ 1 34.0	0.909	1.264	50.8	18.6	84 E	47	52*
12 12	22 44.33	+ 3 10.8	0.935	1.282	49.8	18.6	84 E	48	50*
12 17	23 3.74	+ 4 46.7	0.964	1.301	48.8	18.7	84 E	50	49*
12 22	23 22.94	+ 6 20.9	0.997	1.323	47.7	18.8	84 E	51	47*
12 27	23 41.86	+ 7 52.3	1.034	1.346	46.6	18.9	84 E	53	45*
1 1	0 0.45	+ 9 20.3	1.075	1.371	45.4	19.0	83 E	54	44*
1 6	0 18.66	+10 44.3	1.119	1.397	44.3	19.1	83 E	56	42*
1 11	0 36.49	+12 3.9	1.167	1.425	43.2	19.2	83 E	57	41*
1 16	0 53.91	+13 18.9	1.219	1.454	42.1	19.3	82 E	58*	40*
434187 2003 AN_2									
3 12	17 47.78	+ 6 14.2	1.615	1.832	32.7	21.4	86 W	50*	55*
3 22	18 3.94	+ 7 25.7	1.519	1.822	33.2	21.3	90 W	52*	56*
4 1	18 18.31	+ 8 44.1	1.422	1.810	33.3	21.1	95 W	53*	55
4 11	18 30.61	+10 5.9	1.327	1.799	33.2	21.0	100 W	55*	54
4 21	18 40.47	+11 26.8	1.232	1.787	32.8	20.8	106 W	56*	53
5 1	18 47.43	+12 40.7	1.141	1.775	31.9	20.6	111 W	58	51
5 11	18 51.07	+13 39.6	1.053	1.763	30.5	20.4	118 W	59	50
5 16	18 51.50	+14 0.4	1.010	1.757	29.6	20.2	121 W	59	50
5 21	18 50.93	+14 13.4	0.970	1.751	28.6	20.1	124 W	59	50
5 26	18 49.32	+14 16.7	0.931	1.745	27.4	20.0	128 W	59	50
5 31	18 46.68	+14 8.3	0.895	1.739	26.0	19.8	131 W	59	50
6 5	18 43.03	+13 46.5	0.862	1.733	24.6	19.7	135 W	59	50
6 10	18 38.42	+13 9.3	0.831	1.727	23.0	19.6	138 W	58	51
6 15	18 32.96	+12 15.1	0.805	1.721	21.5	19.5	142 W	57	52

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
434187 2003 AN_2 *(continuation)*									
6 20	18 26.80	+11 2.6	0.782	1.715	20.0	19.3	145 W	56	53
6 25	18 20.14	+ 9 31.3	0.764	1.709	18.9	19.2	147 W	55	54
6 30	18 13.25	+ 7 41.5	0.751	1.703	18.1	19.2	149 E	53	56
7 5	18 6.40	+ 5 34.8	0.743	1.697	18.0	19.1	149 E	51	58
7 10	17 59.86	+ 3 13.8	0.740	1.691	18.5	19.1	148 E	48	61
7 15	17 53.87	+ 0 41.7	0.743	1.686	19.6	19.2	146 E	46	63
7 20	17 48.67	− 1 57.8	0.752	1.680	21.2	19.2	143 E	43	66
7 25	17 44.45	− 4 40.8	0.766	1.675	23.1	19.3	140 E	40	69
7 30	17 41.34	− 7 23.7	0.784	1.669	25.1	19.4	136 E	38	71
8 4	17 39.42	−10 3.4	0.808	1.664	27.1	19.6	132 E	35	74
8 9	17 38.71	−12 37.5	0.835	1.659	29.1	19.7	127 E	32	77
8 14	17 39.22	−15 4.4	0.866	1.654	30.9	19.8	123 E	30	79
8 19	17 40.93	−17 23.0	0.900	1.649	32.4	19.9	119 E	28	81
8 29	17 47.81	−21 33.0	0.976	1.640	35.0	20.2	111 E	23	86
9 8	17 58.90	−25 5.8	1.059	1.631	36.8	20.4	104 E	20*	89
9 18	18 13.72	−28 2.4	1.147	1.624	37.8	20.6	98 E	17*	88
9 28	18 31.82	−30 24.6	1.237	1.617	38.3	20.7	92 E	15*	84*
10 8	18 52.69	−32 13.7	1.327	1.611	38.2	20.9	86 E	13*	79*
10 18	19 15.89	−33 31.0	1.417	1.606	37.8	21.0	81 E	11*	75*
10 28	19 40.99	−34 17.3	1.504	1.602	37.1	21.1	77 E	11*	70*
11 7	20 7.50	−34 33.5	1.589	1.599	36.2	21.2	72 E	10*	66*
11 17	20 34.99	−34 20.6	1.670	1.597	35.1	21.3	68 E	11*	62*
11 27	21 3.08	−33 39.9	1.748	1.596	33.9	21.3	65 E	11*	58*
12 7	21 31.38	−32 33.1	1.821	1.596	32.7	21.4	61 E	12*	55*
12 17	21 59.64	−31 2.3	1.891	1.598	31.4	21.4	58 E	14*	51*
12 27	22 27.63	−29 10.0	1.957	1.600	30.0	21.5	54 E	15*	47*
509193 2006 OX_{19}									
3 12	17 47.91	−10 13.8	1.740	1.923	31.0	21.4	85 W	34*	70*
3 22	18 7.93	− 9 10.2	1.599	1.878	32.0	21.1	90 W	35*	72*
4 1	18 27.53	− 7 51.0	1.464	1.833	32.9	20.9	94 W	36*	72*
4 11	18 46.60	− 6 16.9	1.335	1.788	33.6	20.7	99 W	38*	70
4 21	19 4.98	− 4 29.3	1.213	1.744	34.1	20.4	103 W	40*	68
5 1	19 22.47	− 2 30.5	1.098	1.702	34.3	20.2	108 W	42*	67
5 11	19 38.93	− 0 24.0	0.991	1.662	34.2	19.9	112 W	44*	64
5 16	19 46.70	+ 0 40.8	0.941	1.642	34.1	19.8	115 W	46*	63
5 21	19 54.13	+ 1 45.7	0.892	1.623	33.8	19.6	117 W	47*	62
5 26	20 1.17	+ 2 49.7	0.846	1.605	33.5	19.5	119 W	48*	61
5 31	20 7.81	+ 3 51.8	0.802	1.587	33.1	19.3	121 W	49	60
6 5	20 14.01	+ 4 50.8	0.760	1.570	32.5	19.2	124 W	50	59
6 10	20 19.76	+ 5 45.6	0.720	1.553	31.8	19.0	126 W	51	58
6 15	20 25.01	+ 6 34.7	0.683	1.538	31.0	18.8	129 W	52	57
6 20	20 29.72	+ 7 16.3	0.648	1.524	30.1	18.7	131 W	52	57
6 25	20 33.87	+ 7 48.7	0.615	1.510	28.9	18.5	134 W	53	56
6 30	20 37.45	+ 8 9.9	0.584	1.497	27.6	18.3	137 W	53	56
7 5	20 40.50	+ 8 17.9	0.556	1.486	26.1	18.2	140 W	53	56
7 10	20 43.00	+ 8 10.9	0.530	1.475	24.4	18.0	143 W	53	56
7 15	20 44.99	+ 7 47.1	0.507	1.466	22.6	17.8	146 W	53	56
7 20	20 46.53	+ 7 4.8	0.487	1.458	20.5	17.7	150 W	52	57
7 30	20 48.72	+ 4 41.5	0.457	1.446	16.2	17.4	157 W	50	59
8 9	20 50.73	+ 1 5.4	0.440	1.438	12.6	17.2	162 E	46	63
8 19	20 53.81	− 3 22.3	0.439	1.437	12.3	17.1	162 E	42	67
8 24	20 56.17	− 5 44.4	0.444	1.438	13.6	17.2	160 E	39	70
8 29	20 59.25	− 8 5.0	0.454	1.440	15.6	17.3	157 E	37	72
9 3	21 3.12	−10 19.5	0.468	1.444	18.0	17.5	154 E	35	74
9 8	21 7.79	−12 23.9	0.486	1.449	20.4	17.7	150 E	33	76
9 13	21 13.26	−14 15.5	0.508	1.455	22.8	17.8	146 E	31	78
9 18	21 19.51	−15 52.3	0.533	1.463	25.0	18.0	142 E	29	80
9 28	21 34.10	−18 18.2	0.594	1.481	28.7	18.4	135 E	27	82
10 8	21 50.91	−19 42.1	0.667	1.505	31.5	18.8	128 E	25	84
10 18	22 9.22	−20 11.4	0.750	1.532	33.5	19.1	122 E	25	84
10 23	22 18.76	−20 8.2	0.796	1.547	34.2	19.3	119 E	25	84
10 28	22 28.49	−19 54.9	0.844	1.563	34.7	19.4	116 E	25	84
11 2	22 38.32	−19 32.5	0.894	1.580	35.1	19.6	114 E	25	84
11 7	22 48.22	−19 2.3	0.946	1.597	35.4	19.7	111 E	26	83
11 12	22 58.16	−18 25.1	1.000	1.615	35.5	19.9	109 E	27	82
11 17	23 8.11	−17 41.9	1.056	1.634	35.6	20.0	106 E	27	82
11 22	23 18.07	−16 53.5	1.114	1.653	35.5	20.2	104 E	28	81
11 27	23 28.00	−16 0.7	1.174	1.673	35.4	20.3	101 E	29	80
12 2	23 37.90	−15 4.3	1.235	1.693	35.1	20.4	99 E	30	79*
12 7	23 47.76	−14 4.9	1.298	1.714	34.8	20.6	96 E	31	77*
12 12	23 57.57	−13 3.0	1.363	1.735	34.5	20.7	94 E	32	74*
12 17	0 7.35	−11 59.1	1.428	1.757	34.0	20.8	92 E	33	72*
12 22	0 17.09	−10 53.7	1.495	1.779	33.6	20.9	89 E	34	69*
12 27	0 26.78	− 9 47.2	1.563	1.801	33.0	21.0	87 E	35	66*
1 1	0 36.44	− 8 40.0	1.632	1.823	32.5	21.1	85 E	36	63*
1 6	0 46.06	− 7 32.5	1.702	1.846	31.9	21.2	82 E	37	60*
1 11	0 55.65	− 6 25.0	1.772	1.868	31.2	21.3	80 E	39	58*
1 16	1 5.21	− 5 17.6	1.843	1.891	30.5	21.4	77 E	40	55*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
205457 2001 QY_{12}									
3 12	17 55.13	−28 52.9	2.119	2.224	26.3	21.4	83 W	15*	77*
3 22	18 11.39	−29 8.9	1.974	2.196	27.0	21.2	89 W	15*	82*
4 1	18 26.43	−29 21.2	1.829	2.168	27.3	21.0	96 W	15*	87*
4 11	18 39.95	−29 31.1	1.687	2.140	27.2	20.8	102 W	15*	86
4 21	18 51.59	−29 40.6	1.549	2.112	26.6	20.6	110 W	15*	86
5 1	19 0.89	−29 51.1	1.418	2.083	25.5	20.3	117 W	15*	86
5 11	19 7.37	−30 4.1	1.296	2.054	23.6	20.0	125 W	15	86
5 21	19 10.53	−30 20.2	1.185	2.025	21.0	19.7	134 W	15	86
5 31	19 9.87	−30 38.5	1.087	1.997	17.4	19.4	144 W	14	85
6 10	19 5.21	−30 56.0	1.005	1.968	13.1	19.0	154 W	14	85
6 15	19 1.42	−31 2.8	0.971	1.954	10.7	18.9	159 W	14	85
6 20	18 56.76	−31 7.3	0.942	1.940	8.2	18.7	164 W	14	85
6 25	18 51.39	−31 8.6	0.919	1.926	5.8	18.5	169 W	14	85
6 30	18 45.52	−31 6.0	0.900	1.912	4.3	18.4	172 W	14	85
7 5	18 39.41	−30 59.1	0.888	1.899	4.9	18.3	171 E	14	85
7 10	18 33.31	−30 47.5	0.881	1.885	7.0	18.4	167 E	14	85
7 15	18 27.49	−30 31.5	0.879	1.872	9.8	18.5	162 E	14	85
7 20	18 22.22	−30 11.6	0.882	1.859	12.6	18.6	156 E	15	86
7 25	18 17.73	−29 48.3	0.890	1.846	15.5	18.7	151 E	15	86
7 30	18 14.21	−29 22.5	0.903	1.833	18.2	18.8	146 E	16	87
8 4	18 11.78	−28 55.0	0.920	1.821	20.8	18.9	140 E	16	87
8 9	18 10.50	−28 26.7	0.940	1.808	23.1	19.0	136 E	17	88
8 19	18 11.46	−27 29.3	0.989	1.785	27.2	19.3	126 E	18	89
8 29	18 16.95	−26 33.0	1.048	1.763	30.4	19.4	118 E	18	89
9 8	18 26.49	−25 37.6	1.113	1.743	32.8	19.6	110 E	19	90
9 18	18 39.48	−24 41.4	1.183	1.724	34.5	19.8	104 E	20	89
9 28	18 55.37	−23 42.0	1.255	1.707	35.6	19.9	98 E	21	88
10 8	19 13.59	−22 36.5	1.330	1.692	36.2	20.0	92 E	22	84*
10 18	19 33.66	−21 22.8	1.406	1.679	36.3	20.1	87 E	24	79*
10 28	19 55.18	−19 58.9	1.483	1.669	36.1	20.2	82 E	25	73*
11 7	20 17.75	−18 23.6	1.560	1.661	35.7	20.3	78 E	27	67*
11 17	20 41.08	−16 36.3	1.638	1.655	34.9	20.4	73 E	28*	61*
11 27	21 4.94	−14 37.1	1.716	1.653	34.0	20.5	69 E	30*	55*
12 7	21 29.09	−12 26.6	1.794	1.652	32.9	20.5	66 E	32*	49*
12 17	21 53.40	−10 6.1	1.873	1.654	31.6	20.6	62 E	34*	44*
12 27	22 17.77	− 7 36.9	1.952	1.659	30.2	20.7	58 E	36*	38*
1 6	22 42.12	− 5 1.0	2.031	1.667	28.7	20.7	55 E	36*	33*
1 16	23 6.44	− 2 20.3	2.110	1.676	27.2	20.8	51 E	36*	28*
159856 2004 JW_6									
3 12	18 2.62	−12 29.9	1.453	1.629	37.1	21.4	81 W	31*	69*
3 22	18 31.69	−11 40.7	1.323	1.568	39.2	21.1	84 W	32*	71*
4 1	19 2.30	−10 30.7	1.203	1.507	41.4	20.9	86 W	32*	72*
4 11	19 34.63	− 8 59.4	1.093	1.449	43.7	20.7	87 W	33*	72*
4 21	20 8.88	− 7 7.0	0.995	1.393	46.2	20.5	88 W	33*	71*
5 1	20 45.13	− 4 55.6	0.909	1.340	48.8	20.3	88 W	34*	69*
5 11	21 23.44	− 2 29.3	0.838	1.291	51.4	20.1	88 W	35*	66*
5 16	21 43.36	− 1 12.4	0.808	1.269	52.8	20.0	88 W	35*	65*
5 21	22 3.71	+ 0 5.5	0.781	1.248	54.1	19.9	87 W	36*	64
5 26	22 24.45	+ 1 23.3	0.758	1.229	55.4	19.9	87 W	36*	63
5 31	22 45.50	+ 2 39.5	0.738	1.211	56.6	19.8	86 W	36*	61
6 5	23 6.78	+ 3 52.9	0.722	1.196	57.7	19.8	85 W	37*	60
6 10	23 28.18	+ 5 2.3	0.708	1.183	58.7	19.7	85 W	37*	59
6 15	23 49.57	+ 6 6.3	0.698	1.172	59.6	19.7	84 W	38*	58
6 20	0 10.84	+ 7 4.1	0.691	1.163	60.3	19.7	84 W	38*	57
6 25	0 31.82	+ 7 54.6	0.685	1.157	60.7	19.7	83 W	39*	56
6 30	0 52.41	+ 8 37.3	0.682	1.153	61.0	19.7	83 W	40*	55
7 10	1 31.95	+ 9 38.4	0.682	1.154	61.0	19.7	83 W	42*	54
7 20	2 8.64	+10 7.2	0.685	1.165	60.2	19.7	84 W	44*	54
7 30	2 41.82	+10 5.4	0.690	1.186	58.7	19.7	86 W	46*	54
8 9	3 11.08	+ 9 36.5	0.695	1.215	56.5	19.7	89 W	49*	54
8 19	3 36.07	+ 8 43.8	0.698	1.252	53.8	19.7	92 W	51*	55
8 29	3 56.40	+ 7 30.6	0.697	1.296	50.6	19.7	97 W	52*	56
9 8	4 11.78	+ 6 0.9	0.694	1.346	46.9	19.6	103 W	51*	58
9 18	4 21.84	+ 4 18.5	0.689	1.399	42.5	19.6	110 W	49	60
9 23	4 24.74	+ 3 24.1	0.686	1.427	40.0	19.5	114 W	48	61
9 28	4 26.19	+ 2 28.8	0.684	1.456	37.4	19.5	118 W	47	62
10 3	4 26.18	+ 1 33.7	0.683	1.485	34.6	19.5	123 W	47	62
10 8	4 24.74	+ 0 39.9	0.683	1.514	31.6	19.4	127 W	46	63
10 13	4 21.91	− 0 11.3	0.685	1.544	28.5	19.4	132 W	45	64
10 18	4 17.79	− 0 58.3	0.690	1.575	25.4	19.3	137 W	44	65
10 23	4 12.54	− 1 39.5	0.698	1.605	22.2	19.3	142 W	43	66
10 28	4 6.39	− 2 13.4	0.709	1.636	19.2	19.3	147 W	43	66
11 2	3 59.61	− 2 38.7	0.725	1.667	16.4	19.3	152 W	42	67
11 7	3 52.49	− 2 54.6	0.746	1.697	14.1	19.3	155 W	42	67
11 17	3 38.37	− 2 56.9	0.803	1.759	12.2	19.5	158 W	42	67
11 27	3 26.22	− 2 22.0	0.881	1.820	13.7	19.8	154 E	43	66
12 7	3 17.38	− 1 17.6	0.980	1.880	16.9	20.2	146 E	44	65

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	159856 2004 JW_6				*(continuation)*				
	h m	° ′			°	m	°	°	°
12 12	3 14.39	− 0 37.3	1.036	1.910	18.5	20.4	142 E	44	65
12 17	3 12.36	+ 0 6.9	1.097	1.940	20.1	20.6	137 E	45	64
12 22	3 11.27	+ 0 54.2	1.162	1.969	21.4	20.8	133 E	46	63
12 27	3 11.08	+ 1 43.6	1.231	1.999	22.6	21.0	129 E	47	62
1 1	3 11.72	+ 2 34.3	1.303	2.027	23.6	21.2	124 E	48	61
1 6	3 13.12	+ 3 25.7	1.378	2.056	24.4	21.4	120 E	48	61
	245115 2004 QO_{12}								
3 12	18 36.43	−17 34.0	1.825	1.804	31.8	21.4	73 W	24*	65*
3 22	19 0.21	−17 23.7	1.710	1.778	33.1	21.3	77 W	24*	70*
4 1	19 23.69	−17 5.0	1.598	1.754	34.3	21.2	81 W	24*	74*
4 11	19 46.76	−16 40.0	1.488	1.732	35.3	21.0	86 W	25*	77*
4 21	20 9.29	−16 11.1	1.382	1.711	36.0	20.8	90 W	25*	79*
5 1	20 31.10	−15 41.6	1.280	1.692	36.4	20.7	95 W	25*	80
5 11	20 52.02	−15 15.1	1.183	1.675	36.5	20.5	99 W	26*	79
5 21	21 11.85	−14 56.0	1.090	1.660	36.2	20.3	104 W	27*	79
5 31	21 30.28	−14 49.2	1.003	1.648	35.4	20.0	110 W	28*	79
6 10	21 47.01	−15 0.0	0.922	1.638	34.0	19.8	115 W	29*	79
6 20	22 1.62	−15 33.9	0.849	1.631	32.0	19.6	122 W	29*	80
6 30	22 13.56	−16 35.8	0.784	1.627	29.1	19.3	129 W	28*	81
7 10	22 22.35	−18 8.4	0.729	1.626	25.4	19.0	137 W	27	82
7 15	22 25.40	−19 6.0	0.706	1.626	23.3	18.9	141 W	26	83
7 20	22 27.47	−20 10.4	0.687	1.627	20.9	18.8	145 W	25	84
7 25	22 28.55	−21 20.2	0.670	1.629	18.5	18.6	149 W	24	85
7 30	22 28.65	−22 33.7	0.658	1.632	16.0	18.5	154 W	22	87
8 4	22 27.85	−23 48.7	0.650	1.635	13.6	18.4	158 W	21	88
8 9	22 26.24	−25 2.5	0.646	1.639	11.5	18.3	161 W	20	89
8 14	22 23.95	−26 12.6	0.646	1.643	10.1	18.3	164 W	19	90
8 19	22 21.17	−27 16.3	0.651	1.648	9.7	18.3	164 W	18	89
8 24	22 18.15	−28 11.3	0.661	1.654	10.4	18.4	163 W	17	88
8 29	22 15.15	−28 55.6	0.675	1.661	11.9	18.5	160 E	16	87
9 3	22 12.40	−29 28.4	0.693	1.668	14.0	18.6	156 E	16	87
9 8	22 10.11	−29 49.1	0.716	1.675	16.2	18.8	152 E	15	86
9 13	22 8.45	−29 58.1	0.742	1.683	18.3	18.9	148 E	15	86
9 18	22 7.53	−29 55.8	0.773	1.692	20.4	19.1	144 E	15	86
9 23	22 7.47	−29 43.0	0.807	1.701	22.3	19.3	140 E	15	86
9 28	22 8.28	−29 20.9	0.844	1.711	24.1	19.4	136 E	16	87
10 3	22 9.95	−28 50.5	0.884	1.721	25.6	19.6	132 E	16	87
10 8	22 12.44	−28 13.0	0.927	1.732	27.0	19.7	128 E	17	88
10 13	22 15.70	−27 29.2	0.972	1.743	28.2	19.9	124 E	18	89
10 18	22 19.66	−26 40.0	1.020	1.755	29.1	20.0	121 E	18	89
10 23	22 24.28	−25 46.1	1.071	1.767	30.0	20.2	118 E	19	90
10 28	22 29.48	−24 48.2	1.123	1.779	30.6	20.3	114 E	20	89
11 2	22 35.18	−23 47.0	1.177	1.792	31.1	20.5	111 E	21	88
11 7	22 41.31	−22 42.8	1.233	1.805	31.5	20.6	108 E	22	87
11 12	22 47.83	−21 36.2	1.291	1.818	31.7	20.7	105 E	23	86
11 17	22 54.69	−20 27.5	1.350	1.831	31.9	20.8	102 E	25	84
11 22	23 1.85	−19 16.9	1.411	1.845	31.9	20.9	99 E	26	83
11 27	23 9.26	−18 4.9	1.473	1.859	31.8	21.0	96 E	27	81*
12 2	23 16.88	−16 51.8	1.535	1.873	31.7	21.1	93 E	28	78*
12 7	23 24.68	−15 37.7	1.599	1.888	31.5	21.2	91 E	29	75*
12 12	23 32.64	−14 22.9	1.664	1.902	31.2	21.3	88 E	31	71*
12 17	23 40.75	−13 7.5	1.729	1.917	30.8	21.4	85 E	32	68*
	480822 1998 YM_4								
3 12	18 50.91	−26 45.6	0.698	1.003	68.8	21.3	70 W	15*	64*
3 14	19 8.72	−26 24.6	0.684	0.976	71.1	21.3	68 W	14*	62*
3 16	19 27.09	−25 54.2	0.673	0.949	73.5	21.3	66 W	13*	60*
3 18	19 45.87	−25 13.7	0.665	0.921	75.8	21.3	64 W	12*	58*
3 20	20 4.91	−24 22.9	0.659	0.893	78.2	21.3	61 W	12*	55*
3 22	20 24.05	−23 22.0	0.657	0.865	80.6	21.3	59 W	11*	53*
3 24	20 43.11	−22 11.5	0.658	0.836	82.8	21.3	56 W	10*	50*
3 26	21 1.94	−20 52.2	0.662	0.807	84.9	21.3	54 W	9*	48*
3 28	21 20.39	−19 25.4	0.669	0.778	86.8	21.3	51 W	9*	45*
3 30	21 38.35	−17 52.4	0.680	0.749	88.5	21.4	49 W	8*	43*
4 1	21 55.74	−16 14.7	0.695	0.720	89.9	21.4	46 W	7*	40*
4 3	22 12.51	−14 33.5	0.712	0.690	90.9	21.4	44 W	7*	38*
4 5	22 28.64	−12 50.3	0.733	0.661	91.6	21.4	41 W	6*	35*
4 7	22 44.15	−11 6.1	0.757	0.632	91.8	21.4	39 W	5*	33*
4 9	22 59.07	− 9 21.6	0.784	0.604	91.5	21.3	37 W	5*	31*
4 11	23 13.46	− 7 37.7	0.814	0.575	90.6	21.3	35 W	4*	29*
4 16	23 47.54	− 3 21.8	0.901	0.510	85.9	21.0	30 W	3*	24*
4 21	0 19.97	+ 0 47.1	1.004	0.455	77.0	20.7	26 W	3*	20*
4 26	0 51.96	+ 4 49.0	1.116	0.421	64.1	20.3	22 W	2*	16*
5 1	1 24.17	+ 8 40.2	1.230	0.415	49.0	20.1	18 W	1*	12*
5 6	1 56.30	+12 12.3	1.339	0.439	34.6	20.0	14 W	—	8*
5 11	2 27.60	+15 17.0	1.438	0.487	23.3	20.0	11 W	—	5*
5 16	2 57.46	+17 50.9	1.530	0.549	15.3	20.2	8 W	—	2*
5 21	3 25.60	+19 55.1	1.615	0.618	10.1	20.3	6 W	—	—
5 26	3 51.99	+21 32.8	1.696	0.691	6.9	20.6	5 W	—	—
5 31	4 16.68	+22 47.7	1.773	0.764	4.9	20.8	4 W	—	—

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	480822 1998 YM_4				*(continuation)*				
	h m	° ′			°	m	°	°	°
6 5	4 39.78	+23 43.4	1.848	0.837	3.9	21.0	3 W	—	—
6 10	5 1.43	+24 23.1	1.920	0.908	3.4	21.2	3 W	—	—
6 15	5 21.73	+24 49.4	1.989	0.977	3.4	21.5	3 W	—	—
	185493 2007 PO_{42}								
3 12	18 55.28	−21 10.2	2.467	2.301	23.7	21.5	69 W	19*	62*
3 22	19 12.27	−20 34.0	2.321	2.271	25.0	21.4	75 W	20*	68*
4 1	19 28.46	−19 51.3	2.174	2.241	26.1	21.2	81 W	21*	74*
4 11	19 43.68	−19 3.3	2.025	2.210	26.9	21.1	87 W	22*	79*
4 21	19 57.76	−18 11.5	1.878	2.179	27.4	20.9	93 W	24*	82*
5 1	20 10.47	−17 17.4	1.733	2.147	27.5	20.7	100 W	25*	81
5 11	20 21.55	−16 23.0	1.592	2.116	27.2	20.5	107 W	27*	80
5 21	20 30.71	−15 30.6	1.456	2.084	26.4	20.2	114 W	29*	80
5 31	20 37.58	−14 42.8	1.329	2.052	24.9	19.9	122 W	30*	79
6 10	20 41.78	−14 2.4	1.211	2.020	22.6	19.6	130 W	31	78
6 20	20 42.94	−13 32.5	1.105	1.988	19.5	19.3	139 W	31	78
6 30	20 40.76	−13 15.9	1.014	1.956	15.5	18.9	149 W	32	77
7 10	20 35.32	−13 14.2	0.940	1.925	10.7	18.6	159 W	32	77
7 20	20 27.07	−13 27.4	0.886	1.895	5.3	18.2	170 W	32	77
7 25	20 22.22	−13 39.0	0.867	1.880	3.3	18.0	174 W	31	78
7 30	20 17.16	−13 53.2	0.853	1.865	3.7	18.0	173 E	31	78
8 4	20 12.11	−14 9.3	0.845	1.850	6.1	18.0	169 E	31	78
8 9	20 7.28	−14 26.7	0.842	1.836	9.1	18.2	163 E	31	78
8 14	20 2.91	−14 44.6	0.844	1.822	12.2	18.3	158 E	30	79
8 19	19 59.20	−15 2.5	0.851	1.808	15.2	18.4	152 E	30	79
8 24	19 56.33	−15 19.6	0.862	1.795	18.0	18.5	147 E	30	79
8 29	19 54.43	−15 35.4	0.877	1.782	20.7	18.6	141 E	29	80
9 8	19 53.81	−16 1.2	0.918	1.757	25.4	18.8	132 E	29	80
9 18	19 57.54	−16 17.3	0.969	1.733	29.2	19.0	123 E	29	80
9 28	20 5.44	−16 21.1	1.028	1.712	32.1	19.2	115 E	29	80
10 8	20 17.01	−16 11.0	1.093	1.692	34.2	19.4	108 E	29	80
10 18	20 31.69	−15 45.7	1.162	1.675	35.7	19.5	102 E	29	80
10 28	20 48.95	−15 3.9	1.234	1.660	36.5	19.6	96 E	30	79*
11 7	21 8.24	−14 5.5	1.308	1.648	37.0	19.8	91 E	31	75*
11 17	21 29.11	−12 50.4	1.383	1.639	37.0	19.9	86 E	32	69*
11 27	21 51.18	−11 19.3	1.460	1.632	36.7	20.0	81 E	34	63*
12 7	22 14.13	− 9 33.6	1.538	1.629	36.1	20.1	77 E	35	58*
12 17	22 37.69	− 7 35.0	1.617	1.628	35.3	20.2	73 E	37	52*
12 27	23 1.71	− 5 25.5	1.698	1.630	34.3	20.2	69 E	39*	47*
1 6	23 26.01	− 3 7.7	1.779	1.635	33.1	20.3	65 E	41*	42*
1 16	23 50.54	− 0 44.1	1.862	1.644	31.8	20.4	62 E	42*	37*
	241662 2000 KO_{44}								
3 12	18 57.28	− 3 9.9	1.808	1.703	32.7	21.4	68 W	36*	53*
3 22	19 21.57	− 3 1.8	1.677	1.650	34.8	21.2	71 W	36*	57*
4 1	19 46.67	− 2 51.4	1.548	1.597	37.0	21.1	74 W	35*	60*
4 11	20 12.84	− 2 41.9	1.420	1.543	39.3	20.9	77 W	35*	62*
4 21	20 40.48	− 2 36.8	1.296	1.490	41.6	20.7	80 W	34*	64*
5 1	21 10.04	− 2 40.5	1.176	1.437	44.0	20.4	82 W	33*	65*
5 11	21 42.17	− 2 58.4	1.063	1.385	46.5	20.2	84 W	32*	66*
5 21	22 17.60	− 3 35.7	0.960	1.335	49.1	20.0	85 W	31*	67*
5 31	22 57.06	− 4 37.7	0.868	1.288	51.7	19.8	86 W	29*	69*
6 10	23 41.08	− 6 6.8	0.793	1.245	54.5	19.6	86 W	26*	70*
6 15	0 4.82	− 7 1.0	0.762	1.225	55.8	19.5	86 W	25*	71*
6 20	0 29.57	− 8 0.2	0.737	1.206	57.1	19.4	85 W	23*	72*
6 25	0 55.16	− 9 3.0	0.717	1.189	58.4	19.4	85 W	22*	72*
6 30	1 21.31	−10 7.4	0.704	1.173	59.5	19.3	84 W	20*	73*
7 5	1 47.71	−11 11.0	0.695	1.159	60.5	19.3	83 W	19*	73*
7 10	2 14.01	−12 11.6	0.693	1.147	61.3	19.3	82 W	18*	73*
7 15	2 39.84	−13 7.5	0.695	1.137	62.0	19.3	81 W	17*	73*
7 20	3 4.88	−13 57.6	0.702	1.129	62.4	19.3	80 W	16*	73*
7 25	3 28.88	−14 41.2	0.713	1.124	62.5	19.3	79 W	16*	72*
7 30	3 51.64	−15 18.3	0.727	1.120	62.5	19.4	78 W	16*	72*
8 9	4 33.17	−16 14.4	0.760	1.120	61.8	19.5	77 W	16*	70*
8 19	5 9.32	−16 51.7	0.796	1.129	60.5	19.5	76 W	18*	70*
8 29	5 40.42	−17 16.4	0.829	1.147	58.9	19.6	76 W	20*	70*
9 8	6 6.99	−17 33.2	0.856	1.172	57.0	19.7	77 W	22*	70*
9 18	6 29.47	−17 45.3	0.874	1.205	55.1	19.7	79 W	24*	72*
9 28	6 48.02	−17 53.5	0.881	1.243	53.0	19.7	82 W	26*	74*
10 8	7 2.73	−17 56.3	0.877	1.287	50.8	19.7	86 W	27*	77*
10 13	7 8.60	−17 54.9	0.871	1.310	49.6	19.7	89 W	27	78*
10 18	7 13.40	−17 50.7	0.862	1.334	48.3	19.7	91 W	27	80*
10 23	7 17.10	−17 42.8	0.852	1.358	46.9	19.7	94 W	27	81*
10 28	7 19.63	−17 30.1	0.839	1.383	45.4	19.7	98 W	28	81*
11 2	7 20.95	−17 11.3	0.824	1.409	43.7	19.6	101 W	28	81
11 7	7 20.98	−16 45.1	0.809	1.435	41.8	19.6	105 W	28	81
11 12	7 19.66	−16 9.7	0.792	1.461	39.6	19.5	110 W	29	80
11 17	7 16.94	−15 23.3	0.776	1.488	37.2	19.4	114 W	30	79

241662 2000 KO_{44} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
11 22	7 12.80	−14 23.7	0.761	1.515	34.6	19.3	120 W	31	78
11 27	7 7.31	−13 9.3	0.747	1.541	31.6	19.3	125 W	32	77
12 2	7 0.55	−11 38.5	0.736	1.568	28.5	19.2	131 W	33	76
12 7	6 52.68	− 9 51.0	0.728	1.595	25.1	19.1	137 W	35	74
12 12	6 43.95	− 7 46.9	0.726	1.622	21.7	19.0	143 W	37	72
12 17	6 34.66	− 5 28.1	0.728	1.648	18.4	18.9	148 W	40	69
12 22	6 25.19	− 2 57.4	0.738	1.675	15.5	18.9	153 W	42	67
12 27	6 15.91	− 0 19.2	0.754	1.701	13.4	18.9	156 E	45	64
1 1	6 7.17	+ 2 21.8	0.778	1.727	12.7	19.0	157 E	47	62
1 6	5 59.26	+ 5 1.1	0.809	1.753	13.2	19.1	156 E	50	59
1 11	5 52.40	+ 7 34.9	0.847	1.778	14.7	19.3	153 E	53	56
1 16	5 46.73	+10 0.4	0.891	1.803	16.7	19.5	148 E	55	54

416588 2004 JS_{31}

3 12	19 12.08	−23 30.2	1.877	1.715	31.7	21.4	65 W	16*	59*
3 22	19 39.77	−22 13.5	1.768	1.682	33.5	21.3	69 W	16*	63*
4 1	20 7.24	−20 36.0	1.661	1.651	35.1	21.1	72 W	17*	66*
4 11	20 34.34	−18 38.6	1.559	1.622	36.7	21.0	75 W	18*	69*
4 21	21 0.97	−16 22.5	1.461	1.594	38.1	20.9	78 W	20*	71*
5 1	21 26.98	−13 49.5	1.369	1.570	39.4	20.7	81 W	22*	73*
5 11	21 52.29	−11 2.0	1.282	1.548	40.5	20.6	84 W	24*	73*
5 21	22 16.82	− 8 2.6	1.201	1.529	41.4	20.4	87 W	27*	72*
5 31	22 40.44	− 4 54.8	1.125	1.514	42.1	20.3	90 W	31*	69
6 10	23 3.04	− 1 42.3	1.054	1.502	42.5	20.1	93 W	35*	66
6 20	23 24.46	+ 1 31.3	0.988	1.494	42.5	20.0	96 W	40*	62
6 30	23 44.44	+ 4 41.3	0.927	1.490	42.2	19.8	100 W	45*	59
7 5	23 53.80	+ 6 13.6	0.898	1.490	41.9	19.8	102 W	48*	58
7 10	0 2.69	+ 7 43.5	0.870	1.490	41.4	19.7	104 W	50*	56
7 15	0 11.05	+ 9 10.3	0.843	1.492	40.8	19.6	106 W	53*	55
7 20	0 18.81	+10 33.5	0.817	1.495	40.1	19.5	109 W	55*	53
7 25	0 25.90	+11 52.3	0.792	1.498	39.2	19.4	111 W	57*	52
7 30	0 32.24	+13 6.1	0.768	1.503	38.1	19.3	114 W	58	51
8 4	0 37.78	+14 14.4	0.746	1.508	36.8	19.2	117 W	59	50
8 9	0 42.44	+15 16.4	0.725	1.515	35.3	19.2	120 W	60	49
8 14	0 46.12	+16 11.5	0.705	1.522	33.6	19.1	124 W	61	48
8 19	0 48.76	+16 58.7	0.687	1.530	31.6	19.0	128 W	62	47
8 24	0 50.31	+17 37.2	0.670	1.540	29.4	18.9	132 W	63	46
8 29	0 50.76	+18 6.2	0.656	1.549	27.0	18.7	136 W	63	46
9 3	0 50.12	+18 25.1	0.645	1.560	24.4	18.6	140 W	63	46
9 8	0 48.46	+18 33.3	0.636	1.572	21.5	18.5	145 W	64	45
9 13	0 45.87	+18 30.5	0.630	1.584	18.5	18.4	150 W	64	45
9 18	0 42.52	+18 16.7	0.628	1.597	15.4	18.4	155 W	63	46
9 23	0 38.64	+17 52.5	0.630	1.610	12.4	18.3	160 W	63	46
9 28	0 34.50	+17 19.3	0.637	1.624	9.7	18.2	164 W	62	47
10 3	0 30.36	+16 39.0	0.648	1.639	7.8	18.2	167 E	62	47
10 8	0 26.47	+15 53.5	0.664	1.654	7.3	18.2	168 E	61	48
10 13	0 23.05	+15 5.2	0.684	1.669	8.5	18.4	166 E	60	49
10 18	0 20.29	+14 16.3	0.709	1.685	10.6	18.6	162 E	59	50
10 23	0 18.33	+13 29.1	0.740	1.702	13.0	18.8	157 E	58	51
10 28	0 17.25	+12 45.4	0.774	1.718	15.4	19.0	153 E	58	51
11 2	0 17.08	+12 6.5	0.813	1.735	17.8	19.2	148 E	57	52
11 7	0 17.80	+11 33.3	0.857	1.753	19.9	19.4	143 E	57	52
11 17	0 21.77	+10 45.4	0.954	1.788	23.5	19.8	134 E	56	53
11 27	0 28.76	+10 22.7	1.065	1.824	26.1	20.1	126 E	55	54
12 7	0 38.24	+10 22.9	1.187	1.861	28.0	20.5	118 E	55	54
12 17	0 49.71	+10 42.4	1.318	1.899	29.1	20.8	110 E	56	53*
12 27	1 2.80	+11 17.7	1.456	1.936	29.6	21.0	103 E	56	51*
1 6	1 17.14	+12 5.0	1.599	1.973	29.7	21.3	97 E	57	49*

106577 2000 WB_{95}

3 12	19 15.04	−22 40.9	2.619	2.365	22.3	21.4	64 W	16*	58*
3 22	19 32.31	−22 16.6	2.474	2.335	23.7	21.3	70 W	17*	64*
4 1	19 48.92	−21 48.3	2.327	2.305	24.9	21.2	76 W	18*	70*
4 11	20 4.73	−21 17.6	2.177	2.274	25.9	21.1	82 W	19*	76*
4 21	20 19.61	−20 46.0	2.027	2.243	26.6	20.9	89 W	20*	82*
5 1	20 33.35	−20 15.7	1.879	2.211	27.0	20.7	95 W	21*	84
5 11	20 45.75	−19 49.1	1.733	2.179	27.0	20.5	102 W	22*	84
5 21	20 56.56	−19 28.6	1.592	2.147	26.5	20.3	109 W	24*	83
5 31	21 5.44	−19 17.3	1.457	2.115	25.4	20.0	117 W	25*	83
6 10	21 12.04	−19 18.1	1.330	2.082	23.7	19.7	125 W	26*	83
6 20	21 15.94	−19 33.8	1.215	2.050	21.1	19.4	133 W	25	84
6 30	21 16.73	−20 6.3	1.112	2.018	17.8	19.1	143 W	25	84
7 10	21 14.18	−20 55.2	1.026	1.986	13.5	18.7	153 W	24	85
7 20	21 8.29	−21 57.4	0.958	1.954	8.4	18.3	164 W	23	86
7 25	21 4.24	−22 31.3	0.932	1.939	5.8	18.1	169 W	22	87
7 30	20 59.65	−23 5.5	0.911	1.923	3.6	18.0	173 W	22	87
8 4	20 54.68	−23 38.6	0.896	1.908	3.4	17.9	174 E	21	88
8 9	20 49.56	−24 9.5	0.887	1.893	5.5	18.0	170 E	21	88
8 14	20 44.50	−24 36.8	0.883	1.878	8.4	18.1	164 E	20	89
8 19	20 39.75	−24 59.6	0.884	1.863	11.4	18.2	159 E	20	89

106577 2000 WB_{95} *(continuation)*

8 24	20 35.55	−25 17.3	0.890	1.849	14.3	18.3	153 E	20	89
8 29	20 32.10	−25 29.5	0.901	1.835	17.1	18.4	148 E	20	89
9 3	20 29.57	−25 36.1	0.916	1.821	19.8	18.5	142 E	19	90
9 8	20 28.05	−25 37.1	0.934	1.808	22.2	18.6	137 E	19	90
9 18	20 28.25	−25 23.6	0.981	1.782	26.5	18.8	128 E	20	89
9 28	20 32.83	−24 50.9	1.037	1.758	29.9	19.0	119 E	20	89
10 8	20 41.41	−24 0.9	1.100	1.736	32.4	19.2	111 E	21	88
10 18	20 53.44	−22 54.6	1.168	1.715	34.2	19.3	105 E	22	87
10 28	21 8.33	−21 32.6	1.239	1.697	35.4	19.5	98 E	23	86
11 7	21 25.49	−19 55.3	1.313	1.682	36.1	19.6	93 E	25	82*
11 17	21 44.43	−18 3.2	1.388	1.669	36.3	19.7	88 E	27	75*
11 27	22 4.72	−15 57.1	1.464	1.658	36.2	19.8	83 E	29	69*
12 7	22 26.02	−13 38.5	1.541	1.651	35.8	19.9	78 E	31	62*
12 17	22 48.07	−11 8.7	1.618	1.646	35.1	20.0	74 E	34	56*
12 27	23 10.69	− 8 29.7	1.696	1.644	34.2	20.0	70 E	36*	50*
1 6	23 33.73	− 5 43.9	1.775	1.645	33.1	20.1	66 E	39*	45*
1 16	23 57.11	− 2 53.6	1.855	1.649	31.9	20.2	62 E	40*	40*

216464 1974 PB

3 12	19 47.70	−16 25.2	2.176	1.816	26.9	21.5	56 W	19*	49*
3 22	20 13.43	−15 14.9	2.062	1.778	28.9	21.4	60 W	19*	53*
4 1	20 39.26	−13 51.3	1.951	1.741	30.7	21.3	63 W	20*	56*
4 11	21 5.14	−12 15.7	1.842	1.707	32.5	21.2	66 W	20*	59*
4 21	21 31.05	−10 29.5	1.738	1.674	34.2	21.0	69 W	21*	62*
5 1	21 56.95	− 8 34.9	1.637	1.644	35.8	20.9	72 W	22*	64*
5 11	22 22.83	− 6 34.2	1.541	1.616	37.2	20.8	75 W	24*	65*
5 21	22 48.66	− 4 30.1	1.450	1.591	38.5	20.7	78 W	26*	66*
5 31	23 14.38	− 2 25.8	1.364	1.570	39.7	20.5	81 W	28*	66*
6 10	23 39.92	− 0 25.0	1.284	1.552	40.6	20.4	84 W	31*	64*
6 20	0 5.17	+ 1 29.0	1.208	1.539	41.3	20.3	87 W	35*	63
6 30	0 29.93	+ 3 12.0	1.137	1.529	41.7	20.1	90 W	38*	61
7 10	0 53.96	+ 4 40.4	1.071	1.524	41.8	20.0	94 W	43*	59
7 20	1 16.93	+ 5 50.7	1.009	1.522	41.4	19.9	97 W	46*	58
7 30	1 38.38	+ 6 39.5	0.950	1.526	40.6	19.7	102 W	50*	57
8 9	1 57.82	+ 7 4.5	0.896	1.533	39.3	19.6	107 W	52*	57
8 19	2 14.63	+ 7 4.1	0.846	1.545	37.3	19.4	112 W	52	57
8 29	2 28.11	+ 6 37.4	0.800	1.561	34.6	19.2	119 W	52	57
9 8	2 37.66	+ 5 45.9	0.761	1.580	31.0	19.0	126 W	51	58
9 18	2 42.71	+ 4 32.9	0.730	1.604	26.5	18.8	135 W	50	59
9 23	2 43.45	+ 3 50.1	0.718	1.616	24.0	18.7	139 W	49	60
9 28	2 43.05	+ 3 4.9	0.709	1.630	21.2	18.7	144 W	48	61
10 3	2 41.56	+ 2 18.5	0.704	1.644	18.4	18.6	149 W	47	62
10 8	2 39.10	+ 1 32.8	0.703	1.659	15.5	18.5	154 W	47	62
10 13	2 35.82	+ 0 49.2	0.706	1.674	12.7	18.4	158 W	46	63
10 18	2 31.92	+ 0 9.7	0.714	1.690	10.3	18.4	162 W	45	64
10 23	2 27.65	− 0 24.1	0.726	1.707	8.6	18.4	165 W	45	64
10 28	2 23.28	− 0 50.9	0.744	1.724	8.2	18.4	166 W	44	65
11 2	2 19.04	− 1 9.6	0.766	1.742	9.1	18.5	164 E	44	65
11 7	2 15.14	− 1 19.9	0.794	1.760	10.8	18.7	161 E	44	65
11 17	2 9.03	− 1 15.3	0.864	1.797	15.1	19.1	152 E	44	65
11 27	2 5.94	− 0 40.0	0.952	1.835	19.2	19.5	142 E	44	65
12 7	2 6.12	+ 0 19.6	1.056	1.874	22.5	19.9	133 E	45	64
12 12	2 7.39	+ 0 56.3	1.114	1.894	23.8	20.0	129 E	46	63
12 17	2 9.40	+ 1 36.8	1.174	1.915	25.0	20.2	125 E	47	62
12 22	2 12.11	+ 2 20.1	1.237	1.935	25.9	20.4	121 E	47	62
12 27	2 15.46	+ 3 5.8	1.303	1.955	26.7	20.5	117 E	48	61
1 1	2 19.39	+ 3 53.2	1.371	1.976	27.3	20.7	113 E	49	60
1 6	2 23.85	+ 4 41.8	1.441	1.996	27.7	20.8	109 E	50	59*
1 11	2 28.79	+ 5 31.1	1.513	2.017	28.0	21.0	106 E	51	58*
1 16	2 34.17	+ 6 20.9	1.587	2.038	28.1	21.1	102 E	51	57*

159402 1999 AP_{10}

3 12	19 49.29	−27 41.2	2.917	2.530	19.4	21.4	58 W	9*	51*
3 22	20 6.48	−27 8.3	2.743	2.469	21.2	21.3	64 W	9*	57*
4 1	20 23.43	−26 31.5	2.563	2.407	22.9	21.1	70 W	10*	63*
4 11	20 40.10	−25 51.5	2.380	2.343	24.5	21.0	76 W	11*	69*
4 21	20 56.45	−25 9.0	2.194	2.278	25.9	20.8	82 W	12*	75*
5 1	21 12.42	−24 25.0	2.009	2.210	27.1	20.6	88 W	14*	82*
5 11	21 27.96	−23 40.5	1.825	2.141	28.1	20.3	94 W	15*	87*
5 21	21 43.01	−22 56.4	1.645	2.071	28.8	20.0	100 W	17*	87
5 31	21 57.47	−22 14.0	1.469	1.999	29.2	19.7	106 W	19*	86
6 10	22 11.25	−21 34.4	1.300	1.925	29.3	19.4	112 W	21*	86
6 20	22 24.20	−20 58.9	1.139	1.850	28.9	19.0	118 W	23*	85
6 30	22 36.13	−20 28.5	0.986	1.774	28.1	18.6	125 W	24*	84
7 10	22 46.80	−20 3.6	0.844	1.697	26.7	18.1	131 W	25	84
7 20	22 55.89	−19 44.2	0.713	1.620	24.6	17.6	138 W	25	84
7 30	23 2.95	−19 28.4	0.594	1.542	21.8	17.0	146 W	26	83

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	159402 1999 AP_{10} *(continuation)*								
	h m	° ′			°	m	°	°	°
8 4	23 5.59	−19 20.2	0.539	1.504	20.1	16.6	149 W	26	83
8 9	23 7.56	−19 10.5	0.487	1.465	18.1	16.3	153 W	26	83
8 14	23 8.76	−18 57.8	0.439	1.427	16.0	16.0	157 W	26	83
8 19	23 9.13	−18 40.0	0.393	1.390	13.8	15.6	161 W	26	83
8 24	23 8.62	−18 14.1	0.351	1.353	11.4	15.2	165 W	27	82
8 29	23 7.23	−17 35.9	0.312	1.316	9.3	14.8	168 W	27	82
9 3	23 4.95	−16 40.1	0.275	1.281	7.8	14.4	170 W	28	81
9 8	23 1.78	−15 19.9	0.242	1.247	7.8	14.1	170 E	30	79
9 10	23 0.27	−14 39.0	0.229	1.233	8.4	13.9	170 E	30	79
9 12	22 58.63	−13 51.9	0.217	1.220	9.2	13.8	169 E	31	78
9 14	22 56.85	−12 58.0	0.205	1.207	10.2	13.7	168 E	32	77
9 16	22 54.96	−11 56.2	0.194	1.195	11.5	13.6	166 E	33	76
9 18	22 52.96	−10 45.4	0.183	1.183	12.9	13.5	165 E	34	75
9 20	22 50.87	− 9 24.3	0.173	1.171	14.4	13.4	163 E	36	73
9 22	22 48.69	− 7 51.7	0.162	1.159	16.0	13.3	161 E	37	72
9 24	22 46.44	− 6 5.7	0.153	1.148	17.8	13.2	160 E	39	70
9 26	22 44.13	− 4 4.7	0.144	1.137	19.7	13.2	158 E	41	68
9 28	22 41.77	− 1 46.5	0.135	1.126	21.6	13.1	156 E	43	66
9 30	22 39.35	+ 0 51.2	0.126	1.116	23.7	13.0	153 E	46	63
10 2	22 36.87	+ 3 50.9	0.118	1.106	26.0	12.9	151 E	49	60
10 4	22 34.33	+ 7 15.1	0.111	1.097	28.4	12.8	149 E	52	57
10 6	22 31.73	+11 6.5	0.104	1.088	31.0	12.7	146 E	56	53
10 8	22 29.04	+15 27.1	0.098	1.079	33.9	12.6	143 E	60	49
10 10	22 26.25	+20 18.4	0.093	1.071	36.9	12.6	140 E	65	44
10 12	22 23.34	+25 40.1	0.089	1.064	40.3	12.6	136 E	71	38
10 14	22 20.25	+31 30.0	0.085	1.057	43.8	12.6	133 E	77	32
10 16	22 16.94	+37 43.3	0.083	1.051	47.5	12.6	129 E	83	26
10 18	22 13.31	+44 12.3	0.081	1.045	51.3	12.6	125 E	89	20
10 19	22 11.35	+47 29.8	0.081	1.042	53.2	12.7	123 E	87	16
10 20	22 9.24	+50 47.6	0.081	1.040	55.1	12.7	121 E	84	13
10 21	22 6.97	+54 4.4	0.081	1.037	56.9	12.8	119 E	81	10
10 22	22 4.49	+57 18.9	0.081	1.035	58.6	12.8	117 E	78	7
10 23	22 1.73	+60 29.9	0.082	1.033	60.2	12.9	116 E	74	3
10 24	21 58.61	+63 36.3	0.083	1.031	61.8	13.0	114 E	71	—
10 25	21 55.03	+66 37.3	0.084	1.029	63.3	13.0	112 E	68	—
10 26	21 50.80	+69 32.1	0.086	1.028	64.6	13.1	111 E	65	—
10 27	21 45.68	+72 20.1	0.087	1.026	65.8	13.2	110 E	63	—
10 28	21 39.25	+75 0.6	0.089	1.025	66.9	13.3	108 E	60	—
10 29	21 30.86	+77 33.4	0.091	1.024	67.9	13.3	107 E	57	—
10 30	21 19.27	+79 57.9	0.093	1.023	68.8	13.4	106 E	55	—
10 31	21 2.06	+82 13.4	0.095	1.022	69.5	13.5	105 E	53	—
11 1	20 33.82	+84 18.0	0.098	1.021	70.1	13.6	105 E	51	—
11 2	19 40.60	+86 6.9	0.100	1.021	70.6	13.6	104 E	49*	—
11 3	17 47.98	+87 23.4	0.103	1.021	71.0	13.7	103 E	47*	—
11 4	14 54.34	+87 29.0	0.106	1.020	71.4	13.8	103 E	45*	—
11 5	12 59.04	+86 28.3	0.109	1.020	71.6	13.8	102 W	47*	—
11 6	12 4.54	+85 5.4	0.112	1.021	71.7	13.9	102 W	49*	—
11 7	11 35.73	+83 38.7	0.114	1.021	71.7	14.0	102 W	50*	—
11 8	11 18.21	+82 13.4	0.118	1.021	71.7	14.0	102 W	52*	—
11 9	11 6.41	+80 51.2	0.121	1.022	71.6	14.1	102 W	53*	—
11 10	10 57.83	+79 32.5	0.124	1.023	71.4	14.1	102 W	55*	—
11 11	10 51.24	+78 17.5	0.127	1.024	71.1	14.2	102 W	56*	—
11 12	10 45.95	+77 6.1	0.130	1.025	70.8	14.2	102 W	57*	—
11 13	10 41.54	+75 58.2	0.133	1.026	70.4	14.3	102 W	59*	—
11 14	10 37.75	+74 53.7	0.137	1.028	70.0	14.3	103 W	60*	—
11 15	10 34.43	+73 52.3	0.140	1.029	69.6	14.3	103 W	61*	—
11 16	10 31.43	+72 53.8	0.143	1.031	69.1	14.4	103 W	62*	—
11 17	10 28.70	+71 58.1	0.146	1.033	68.5	14.4	104 W	63*	—
11 18	10 26.15	+71 5.0	0.150	1.035	67.9	14.4	104 W	64*	—
11 19	10 23.76	+70 14.3	0.153	1.037	67.3	14.5	104 W	65*	—
11 20	10 21.48	+69 25.9	0.156	1.040	66.6	14.5	105 W	66	—
11 21	10 19.30	+68 39.6	0.159	1.042	66.0	14.5	106 W	66	—
11 22	10 17.17	+67 55.3	0.163	1.045	65.2	14.6	106 W	67	—
11 23	10 15.10	+67 12.9	0.166	1.048	64.5	14.6	107 W	68	—
11 24	10 13.07	+66 32.2	0.169	1.050	63.7	14.6	107 W	68	—
11 25	10 11.06	+65 53.2	0.173	1.054	63.0	14.6	108 W	69	—
11 26	10 9.07	+65 15.6	0.176	1.057	62.2	14.7	109 W	70	—
11 27	10 7.08	+64 39.5	0.179	1.060	61.3	14.7	110 W	70	—
11 29	10 3.10	+63 31.3	0.186	1.067	59.6	14.7	111 W	71	—
12 1	9 59.06	+62 27.7	0.192	1.075	57.8	14.8	113 W	73	1*
12 3	9 54.94	+61 28.2	0.199	1.083	56.0	14.8	114 W	74	2*
12 5	9 50.70	+60 32.2	0.206	1.092	54.1	14.8	116 W	74	3*
12 7	9 46.33	+59 39.2	0.212	1.101	52.2	14.9	118 W	75	4*
12 12	9 34.74	+57 36.5	0.229	1.125	47.2	14.9	123 W	77	6
12 17	9 22.27	+55 42.5	0.246	1.153	42.1	15.0	128 W	79	8
12 22	9 9.24	+53 51.3	0.265	1.182	37.0	15.1	134 W	81	10
12 27	8 56.13	+51 59.4	0.285	1.213	32.0	15.1	139 W	83	12
1 1	8 43.43	+50 4.9	0.307	1.246	27.3	15.2	145 W	85	14
1 6	8 31.56	+48 7.8	0.332	1.280	23.0	15.3	149 W	87	16
1 11	8 20.90	+46 8.8	0.360	1.316	19.5	15.5	154 W	89	18

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	394783 2008 HD_3								
	h m	° ′			°	m	°	°	°
3 12	20 10.08	−73 15.1	0.659	1.051	66.5	21.3	76 W	—	36*
3 14	20 0.91	−73 12.5	0.643	1.063	66.1	21.3	78 W	—	37*
3 16	19 51.09	−73 8.7	0.625	1.074	65.6	21.3	80 W	—	38*
3 18	19 40.52	−73 3.5	0.607	1.085	65.0	21.2	81 W	—	39*
3 20	19 29.11	−72 56.4	0.589	1.097	64.4	21.1	83 W	—	40*
3 22	19 16.77	−72 46.9	0.570	1.108	63.7	21.1	85 W	—	41*
3 24	19 3.41	−72 34.2	0.551	1.119	62.9	21.0	88 W	—	42*
3 26	18 48.99	−72 17.2	0.532	1.130	62.0	20.9	90 W	—	43*
3 28	18 33.48	−71 55.0	0.512	1.141	61.0	20.8	92 W	—	44*
3 30	18 16.89	−71 25.8	0.493	1.151	59.8	20.7	95 W	—	45*
4 1	17 59.32	−70 48.0	0.473	1.162	58.4	20.6	98 W	—	45
4 2	17 50.21	−70 25.2	0.463	1.167	57.7	20.5	99 W	—	46
4 3	17 40.92	−69 59.5	0.453	1.172	56.9	20.5	101 W	—	46
4 4	17 31.48	−69 30.5	0.443	1.178	56.1	20.4	102 W	—	46
4 5	17 21.92	−68 58.0	0.434	1.183	55.1	20.4	104 W	—	47
4 6	17 12.28	−68 21.6	0.424	1.188	54.2	20.3	106 W	—	48
4 7	17 2.59	−67 41.1	0.415	1.193	53.2	20.2	107 W	—	48
4 8	16 52.91	−66 56.0	0.405	1.198	52.1	20.2	109 W	—	49
4 9	16 43.27	−66 6.1	0.396	1.203	50.9	20.1	111 W	—	50
4 10	16 33.71	−65 11.0	0.387	1.208	49.6	20.0	113 W	—	51
4 11	16 24.27	−64 10.5	0.378	1.213	48.3	19.9	115 W	—	52
4 12	16 14.99	−63 4.1	0.370	1.218	46.9	19.8	117 W	—	53
4 13	16 5.90	−61 51.7	0.362	1.223	45.4	19.8	120 W	—	54
4 14	15 57.03	−60 33.0	0.354	1.228	43.8	19.7	122 W	—	55
4 15	15 48.41	−59 7.7	0.346	1.233	42.1	19.6	124 W	—	57
4 16	15 40.05	−57 35.8	0.339	1.237	40.4	19.5	127 W	—	58
4 17	15 31.99	−55 57.0	0.332	1.242	38.5	19.4	130 W	—	60
4 18	15 24.22	−54 11.3	0.326	1.247	36.5	19.3	132 W	—	62
4 19	15 16.77	−52 18.9	0.320	1.252	34.5	19.2	135 W	—	64
4 20	15 9.63	−50 19.7	0.314	1.256	32.3	19.1	138 W	—	66
4 21	15 2.81	−48 14.2	0.310	1.261	30.1	19.1	141 W	—	68
4 23	14 50.13	−43 45.4	0.302	1.270	25.4	18.9	147 W	1	72
4 25	14 38.70	−38 56.9	0.297	1.279	20.5	18.7	154 W	6	77
4 27	14 28.45	−33 55.0	0.295	1.288	15.7	18.6	160 W	11	82
4 29	14 19.32	−28 47.0	0.296	1.296	11.1	18.4	166 E	16	87
5 1	14 11.21	−23 40.9	0.301	1.305	7.8	18.3	170 E	21	88
5 2	14 7.52	−21 10.9	0.304	1.309	7.0	18.3	171 E	24	85
5 3	14 4.05	−18 44.1	0.308	1.313	7.2	18.4	171 E	26	83
5 4	14 0.80	−16 21.1	0.313	1.317	8.1	18.4	169 E	29	80
5 5	13 57.74	−14 2.6	0.318	1.321	9.5	18.5	167 E	31	78
5 6	13 54.88	−11 49.0	0.325	1.325	11.2	18.7	165 E	33	76
5 7	13 52.20	− 9 40.7	0.331	1.329	13.0	18.8	163 E	35	74
5 8	13 49.70	− 7 37.9	0.339	1.333	14.8	18.9	160 E	37	72
5 9	13 47.36	− 5 40.7	0.347	1.337	16.5	19.0	158 E	39	70
5 10	13 45.17	− 3 49.3	0.355	1.341	18.3	19.1	155 E	41	68
5 11	13 43.14	− 2 3.5	0.364	1.345	19.9	19.2	153 E	43	66
5 13	13 39.48	+ 1 11.3	0.383	1.352	23.0	19.5	148 E	46	63
5 15	13 36.33	+ 4 4.9	0.404	1.359	25.8	19.7	144 E	49	60
5 17	13 33.64	+ 6 38.8	0.426	1.367	28.2	19.9	140 E	52	57
5 19	13 31.36	+ 8 54.8	0.450	1.374	30.4	20.1	137 E	54	55
5 21	13 29.47	+10 54.9	0.474	1.380	32.3	20.2	133 E	56	53
5 23	13 27.93	+12 40.7	0.499	1.387	34.0	20.4	130 E	58	51
5 25	13 26.70	+14 13.8	0.525	1.393	35.5	20.6	127 E	59	50
5 27	13 25.76	+15 35.8	0.551	1.400	36.7	20.7	124 E	61	48
5 29	13 25.08	+16 48.0	0.578	1.406	37.8	20.9	122 E	62	47
5 31	13 24.65	+17 51.5	0.605	1.412	38.8	21.0	119 E	63	46
6 2	13 24.44	+18 47.4	0.632	1.418	39.6	21.1	117 E	64	45
6 4	13 24.43	+19 36.5	0.660	1.423	40.3	21.3	115 E	65	44
6 6	13 24.61	+20 19.7	0.688	1.429	40.9	21.4	113 E	65	44
6 8	13 24.96	+20 57.5	0.715	1.434	41.4	21.5	111 E	66*	43
	354374 2003 RR_8								
3 12	20 44.06	−17 26.5	2.472	1.870	21.2	21.5	43 W	11*	37*
3 22	21 8.97	−15 15.5	2.361	1.824	23.3	21.4	46 W	12*	40*
4 1	21 33.93	−12 48.3	2.251	1.779	25.4	21.3	50 W	13*	44*
4 11	21 58.93	−10 5.8	2.143	1.736	27.5	21.2	53 W	15*	47*
4 21	22 24.03	− 7 9.1	2.039	1.695	29.4	21.1	56 W	16*	49*
5 1	22 49.26	− 3 59.8	1.939	1.657	31.3	21.0	59 W	18*	51*
5 11	23 14.67	− 0 40.0	1.845	1.622	33.1	20.9	61 W	21*	53*
5 21	23 40.35	+ 2 47.6	1.757	1.591	34.8	20.8	64 W	24*	53*
5 31	0 6.33	+ 6 19.9	1.675	1.563	36.3	20.7	66 W	27*	53*
6 10	0 32.68	+ 9 53.1	1.599	1.541	37.7	20.6	68 W	31*	51*
6 20	0 59.42	+13 23.1	1.530	1.523	38.9	20.5	70 W	36*	49*
6 25	1 12.92	+15 5.5	1.498	1.515	39.4	20.4	71 W	38*	48*
6 30	1 26.50	+16 45.5	1.467	1.510	39.9	20.4	72 W	41*	47*
7 5	1 40.15	+18 22.3	1.437	1.505	40.3	20.4	73 W	43*	45*
7 10	1 53.86	+19 55.7	1.409	1.502	40.7	20.3	75 W	46*	44*
7 15	2 7.60	+21 25.2	1.381	1.501	41.0	20.3	76 W	49*	42*
7 20	2 21.34	+22 50.1	1.355	1.500	41.3	20.3	77 W	52*	41*

354374 2003 RR_8 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
7 25	2 35.02	+24 10.2	1.329	1.502	41.5	20.2	78 W	55*	40*
7 30	2 48.63	+25 25.1	1.304	1.504	41.6	20.2	80 W	58*	39*
8 4	3 2.09	+26 34.6	1.280	1.508	41.7	20.2	81 W	60*	37
8 9	3 15.38	+27 38.5	1.256	1.513	41.7	20.1	83 W	63*	36
8 14	3 28.41	+28 36.7	1.233	1.520	41.6	20.1	85 W	66*	35
8 19	3 41.11	+29 29.2	1.209	1.528	41.4	20.1	86 W	68*	35
8 24	3 53.40	+30 16.0	1.186	1.537	41.1	20.0	88 W	71*	34
8 29	4 5.20	+30 57.2	1.163	1.548	40.7	20.0	91 W	73*	33
9 3	4 16.44	+31 33.1	1.140	1.559	40.2	19.9	93 W	75*	32
9 8	4 27.03	+32 3.9	1.117	1.572	39.7	19.9	95 W	77*	32
9 13	4 36.87	+32 29.9	1.094	1.586	38.9	19.8	98 W	77*	32
9 18	4 45.87	+32 51.4	1.071	1.601	38.1	19.8	101 W	78	31
9 23	4 53.92	+33 8.7	1.049	1.616	37.1	19.7	104 W	78	31
9 28	5 0.94	+33 22.1	1.026	1.633	35.9	19.7	107 W	78	31
10 3	5 6.85	+33 31.7	1.005	1.651	34.5	19.6	111 W	79	30
10 8	5 11.57	+33 37.9	0.984	1.669	33.0	19.6	115 W	79	30
10 13	5 15.00	+33 40.6	0.964	1.688	31.2	19.5	119 W	79	30
10 18	5 17.08	+33 39.8	0.945	1.708	29.2	19.4	123 W	79	30
10 28	5 17.12	+33 26.5	0.915	1.750	24.6	19.3	133 W	78	31
11 7	5 11.90	+32 55.4	0.896	1.793	19.1	19.1	144 W	78	31
11 17	5 2.39	+32 3.7	0.893	1.839	12.9	18.9	155 W	77	32
11 22	4 56.58	+31 29.9	0.899	1.862	9.8	18.9	161 W	76	33
11 27	4 50.47	+30 51.4	0.911	1.886	6.8	18.8	167 W	76	33
12 2	4 44.36	+30 9.3	0.929	1.910	4.4	18.7	171 W	75	34
12 7	4 38.51	+29 24.7	0.953	1.934	3.9	18.8	172 E	74	35
12 12	4 33.18	+28 38.9	0.983	1.958	5.7	19.0	169 E	74	35
12 17	4 28.55	+27 53.4	1.020	1.983	8.1	19.2	163 E	73	36
12 22	4 24.79	+27 9.5	1.062	2.007	10.6	19.4	158 E	72	37
12 27	4 21.96	+26 28.4	1.109	2.032	13.0	19.6	152 E	71	38
1 1	4 20.10	+25 50.7	1.162	2.057	15.1	19.8	147 E	71	38
1 6	4 19.20	+25 16.9	1.220	2.082	17.1	20.0	142 E	70	39
1 11	4 19.21	+24 47.2	1.283	2.107	18.8	20.2	136 E	70	39
1 16	4 20.10	+24 21.7	1.349	2.132	20.2	20.4	132 E	69	40

508907 2003 XH_{14}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 12	20 54.41	−17 42.4	2.717	2.065	18.2	21.5	41 W	9*	34*
3 22	21 14.66	−15 18.7	2.598	2.022	20.4	21.4	45 W	11*	39*
4 1	21 34.69	−12 41.3	2.474	1.979	22.6	21.3	50 W	13*	43*
4 11	21 54.51	− 9 49.9	2.348	1.936	24.7	21.2	54 W	16*	47*
4 21	22 14.20	− 6 44.0	2.220	1.893	26.8	21.1	58 W	18*	51*
5 1	22 33.78	− 3 23.4	2.093	1.851	28.8	21.0	62 W	21*	54*
5 11	22 53.35	+ 0 12.3	1.968	1.809	30.7	20.9	66 W	25*	55*
5 21	23 13.02	+ 4 3.3	1.845	1.768	32.4	20.7	70 W	29*	56*
5 31	23 32.88	+ 8 9.7	1.727	1.728	34.1	20.6	73 W	34*	54*
6 10	23 53.08	+12 30.8	1.615	1.689	35.7	20.4	76 W	39*	51*
6 20	0 13.80	+17 5.9	1.509	1.653	37.1	20.3	79 W	46*	47
6 30	0 35.21	+21 52.8	1.411	1.618	38.5	20.1	82 W	53*	42
7 5	0 46.26	+24 19.7	1.365	1.602	39.1	20.1	83 W	56*	40
7 10	0 57.57	+26 48.3	1.321	1.586	39.6	20.0	84 W	60*	37
7 15	1 9.19	+29 17.9	1.280	1.571	40.2	19.9	86 W	64*	35
7 20	1 21.14	+31 48.0	1.240	1.557	40.7	19.8	87 W	68*	32
7 25	1 33.44	+34 17.5	1.203	1.544	41.1	19.8	88 W	71*	30
7 30	1 46.15	+36 45.7	1.168	1.531	41.5	19.7	89 W	75*	27
8 4	1 59.29	+39 11.5	1.134	1.520	41.9	19.6	90 W	79*	25
8 9	2 12.90	+41 34.0	1.103	1.509	42.2	19.5	91 W	82*	22
8 14	2 26.99	+43 52.1	1.073	1.500	42.5	19.5	92 W	85*	20
8 19	2 41.55	+46 4.9	1.046	1.491	42.7	19.4	93 W	87*	18
8 24	2 56.58	+48 11.1	1.019	1.484	42.8	19.4	94 W	87*	16
8 29	3 12.04	+50 9.7	0.994	1.478	42.9	19.3	95 W	85	14
9 3	3 27.87	+52 0.0	0.970	1.472	42.9	19.2	96 W	83	12
9 8	3 43.99	+53 41.2	0.947	1.469	42.9	19.2	97 W	81	10
9 13	4 0.23	+55 12.7	0.925	1.466	42.7	19.1	99 W	80	9
9 18	4 16.39	+56 34.1	0.904	1.464	42.5	19.1	100 W	78	7
9 23	4 32.25	+57 45.2	0.883	1.464	42.2	19.0	102 W	77	6
9 28	4 47.54	+58 45.9	0.862	1.465	41.7	18.9	103 W	76	5
10 3	5 1.97	+59 36.6	0.842	1.467	41.2	18.9	105 W	75	4
10 8	5 15.23	+60 17.6	0.822	1.470	40.5	18.8	107 W	75	4
10 13	5 26.98	+60 49.3	0.803	1.475	39.6	18.7	109 W	74	3
10 18	5 36.88	+61 11.9	0.784	1.480	38.6	18.7	112 W	74	3
10 23	5 44.65	+61 25.6	0.765	1.487	37.4	18.6	115 W	74	3
10 28	5 50.08	+61 29.9	0.747	1.495	36.0	18.5	118 W	74	3
11 2	5 53.02	+61 24.4	0.730	1.504	34.4	18.4	121 W	74	3
11 7	5 53.40	+61 8.0	0.713	1.514	32.6	18.3	125 W	74	3
11 12	5 51.27	+60 38.9	0.699	1.525	30.6	18.3	128 W	74	3
11 17	5 46.85	+59 55.1	0.687	1.537	28.4	18.2	132 W	75	4
11 19	5 44.53	+59 32.9	0.682	1.542	27.5	18.1	134 W	75	4
11 21	5 41.96	+59 7.9	0.679	1.547	26.5	18.1	136 W	76	5
11 23	5 39.15	+58 40.0	0.675	1.553	25.6	18.1	137 W	76	5
11 25	5 36.17	+58 9.1	0.672	1.558	24.6	18.0	139 W	77	6

508907 2003 XH_{14} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
11 27	5 33.04	+57 35.2	0.670	1.564	23.6	18.0	141 W	77	6
11 29	5 29.81	+56 58.2	0.669	1.569	22.6	18.0	142 W	78	7
12 1	5 26.53	+56 18.3	0.668	1.575	21.6	18.0	144 W	79	8
12 3	5 23.23	+55 35.3	0.667	1.581	20.7	17.9	145 W	79	8
12 5	5 19.94	+54 49.6	0.668	1.587	19.8	17.9	147 W	80	9
12 7	5 16.72	+54 1.1	0.669	1.594	18.9	17.9	148 W	81	10
12 9	5 13.58	+53 10.0	0.671	1.600	18.2	17.9	150 W	82	11
12 11	5 10.57	+52 16.5	0.674	1.606	17.5	17.9	151 E	83	12
12 13	5 7.71	+51 21.0	0.677	1.613	16.8	17.9	152 E	84	13
12 15	5 5.02	+50 23.6	0.682	1.619	16.3	17.9	152 E	85	14
12 17	5 2.52	+49 24.6	0.687	1.626	16.0	17.9	153 E	86	15
12 22	4 57.22	+46 52.5	0.704	1.643	15.6	18.0	153 E	88	17
12 27	4 53.36	+44 17.7	0.727	1.661	16.1	18.1	152 E	89	20
1 1	4 50.93	+41 44.7	0.756	1.680	17.2	18.2	150 E	87	22
1 6	4 49.87	+39 17.2	0.790	1.698	18.7	18.4	146 E	84	25
1 11	4 50.07	+36 58.1	0.830	1.718	20.4	18.6	142 E	82	27
1 16	4 51.41	+34 49.1	0.874	1.737	22.1	18.8	138 E	80	29

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20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 12	20 54.68	+22 6.4	2.207	1.669	25.1	21.5	46 W	39*	15*
3 17	21 7.08	+24 30.4	2.162	1.647	26.1	21.4	47 W	40*	15*
3 22	21 20.06	+26 59.6	2.118	1.624	27.0	21.4	48 W	41*	15*
3 27	21 33.71	+29 33.3	2.077	1.601	27.8	21.3	49 W	42*	15*
4 1	21 48.14	+32 10.5	2.038	1.577	28.6	21.3	49 W	43*	14*
4 6	22 3.47	+34 49.9	2.002	1.553	29.4	21.2	50 W	43*	13*
4 11	22 19.85	+37 29.9	1.970	1.528	30.0	21.2	50 W	44*	12*
4 16	22 37.43	+40 8.7	1.941	1.503	30.7	21.1	50 W	44*	11*
4 21	22 56.37	+42 44.1	1.916	1.477	31.2	21.1	50 W	44*	9*
4 26	23 16.85	+45 13.4	1.894	1.451	31.6	21.0	49 W	43*	8*
5 1	23 39.00	+47 33.8	1.876	1.424	32.0	21.0	48 W	42*	6*
5 6	0 2.94	+49 42.1	1.862	1.397	32.2	20.9	48 W	42*	4*
5 11	0 28.72	+51 34.9	1.851	1.370	32.4	20.9	47 W	40*	2*
5 16	0 56.26	+53 9.2	1.844	1.342	32.4	20.8	45 W	39*	—
5 21	1 25.32	+54 21.9	1.839	1.315	32.3	20.8	44 W	38*	—
5 26	1 55.49	+55 10.7	1.836	1.287	32.2	20.7	43 W	36*	—
5 31	2 26.22	+55 34.0	1.835	1.259	31.9	20.7	41 W	34*	—
6 5	2 56.85	+55 31.2	1.835	1.231	31.5	20.6	39 W	33*	—
6 10	3 26.75	+55 2.9	1.835	1.204	31.0	20.6	38 W	31*	—
6 15	3 55.40	+54 10.7	1.836	1.177	30.5	20.5	36 W	29*	—
6 20	4 22.42	+52 56.6	1.837	1.151	29.9	20.4	34 W	28*	—
6 25	4 47.58	+51 22.9	1.836	1.125	29.3	20.4	33 W	26*	—
6 30	5 10.84	+49 31.7	1.834	1.100	28.7	20.3	31 W	25*	—
7 5	5 32.26	+47 25.1	1.830	1.076	28.1	20.2	30 W	24*	—
7 10	5 51.99	+45 4.7	1.823	1.053	27.7	20.2	29 W	23*	—
7 15	6 10.23	+42 31.8	1.814	1.032	27.4	20.1	28 W	22*	—
7 20	6 27.16	+39 47.1	1.803	1.013	27.4	20.0	27 W	21*	1*
7 25	6 42.99	+36 51.4	1.788	0.995	27.5	20.0	27 W	21*	3*
7 30	6 57.90	+33 44.6	1.770	0.980	28.0	19.9	27 W	20*	6*
8 4	7 12.09	+30 27.0	1.750	0.967	28.7	19.9	27 W	20*	8*
8 9	7 25.74	+26 58.5	1.727	0.957	29.7	19.9	28 W	20*	11*
8 14	7 38.99	+23 18.8	1.702	0.950	30.9	19.9	29 W	20*	13*
8 19	7 52.01	+19 28.0	1.676	0.945	32.3	19.9	30 W	19*	16*
8 24	8 4.93	+15 26.0	1.649	0.944	33.8	19.9	31 W	19*	19*
8 29	8 17.86	+11 13.1	1.623	0.946	35.2	19.9	33 W	18*	22*
9 3	8 30.95	+ 6 50.0	1.598	0.950	36.6	19.9	34 W	18*	24*
9 8	8 44.31	+ 2 17.5	1.575	0.958	37.8	19.9	36 W	16*	27*
9 13	8 58.04	− 2 22.7	1.556	0.968	38.9	19.9	37 W	15*	29*
9 18	9 12.27	− 7 8.4	1.541	0.981	39.7	20.0	39 W	13*	32*
9 23	9 27.08	−11 57.0	1.531	0.997	40.2	20.0	40 W	11*	34*
9 28	9 42.57	−16 45.0	1.527	1.014	40.5	20.0	41 W	9*	35*
10 3	9 58.85	−21 28.8	1.529	1.034	40.4	20.1	42 W	7*	36*
10 8	10 16.02	−26 4.7	1.538	1.055	40.2	20.1	43 W	4*	37*
10 13	10 34.16	−30 29.0	1.553	1.078	39.6	20.2	44 W	1*	37*
10 18	10 53.34	−34 38.3	1.574	1.102	38.9	20.2	44 W	—	37*
10 23	11 13.60	−38 29.7	1.601	1.127	38.0	20.3	44 W	—	36*
10 28	11 34.96	−42 0.9	1.632	1.153	37.0	20.4	44 W	—	35*
11 2	11 57.40	−45 10.0	1.668	1.179	35.9	20.4	44 W	—	34*
11 7	12 20.87	−47 56.3	1.706	1.206	34.7	20.5	44 W	—	33*
11 12	12 45.22	−50 19.5	1.747	1.234	33.5	20.6	43 W	—	32*
11 17	13 10.24	−52 19.6	1.789	1.261	32.3	20.6	43 W	—	31*
11 22	13 35.70	−53 57.6	1.831	1.289	31.2	20.7	42 W	—	30*
11 27	14 1.28	−55 14.5	1.874	1.317	30.1	20.8	42 W	—	29*
12 2	14 26.67	−56 12.0	1.915	1.344	29.0	20.8	41 W	—	28*
12 7	14 51.60	−56 51.9	1.954	1.372	28.1	20.9	41 W	—	28*
12 12	15 15.78	−57 16.3	1.991	1.399	27.3	20.9	41 W	—	27*
12 17	15 38.99	−57 27.3	2.025	1.426	26.6	21.0	40 W	—	27*
12 22	16 1.08	−57 26.8	2.056	1.453	26.0	21.1	40 W	—	27*
12 27	16 21.96	−57 16.7	2.083	1.479	25.5	21.1	40 W	—	27*
1 1	16 41.57	−56 58.8	2.106	1.505	25.2	21.2	41 W	—	28*
1 6	16 59.93	−56 34.5	2.125	1.530	25.1	21.2	41 W	—	28*
1 11	17 17.07	−56 5.3	2.139	1.555	25.1	21.3	42 W	—	29*
1 16	17 33.02	−55 32.1	2.148	1.579	25.2	21.3	43 W	—	30*