2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
530990 2012 BW_{85}									
	h m	° ′			°	m	°	°	°
9 18	0 13.58	+ 7 17.0	2.033	3.023	4.0	22.0	168 W	52	57
9 23	0 8.95	+ 6 44.4	2.033	3.031	2.3	21.9	173 W	52	57
9 28	0 4.32	+ 6 10.5	2.040	3.039	1.8	21.9	175 E	51	58
10 3	23 59.81	+ 5 35.9	2.055	3.047	3.0	22.0	171 E	51	58
10 8	23 55.51	+ 5 1.6	2.078	3.055	4.8	22.1	165 E	50	59
10 13	23 51.52	+ 4 28.1	2.108	3.062	6.6	22.2	159 E	49	60
10 18	23 47.92	+ 3 56.4	2.144	3.069	8.3	22.4	154 E	49	60
10 23	23 44.79	+ 3 26.9	2.188	3.076	9.9	22.5	148 E	48	61
528201 2008 JB_{31}									
9 18	0 34.61	− 3 56.2	2.037	3.024	4.3	21.8	167 W	41	68
9 28	0 24.18	− 4 26.9	2.046	3.043	2.2	21.7	173 W	41	68
10 8	0 13.91	− 4 51.0	2.085	3.061	4.8	21.9	165 E	40	69
10 18	0 4.68	− 5 5.1	2.153	3.078	8.2	22.2	154 E	40	69
10 28	23 57.19	− 5 6.8	2.248	3.095	11.3	22.4	142 E	40	69
538979 2016 KE									
9 18	0 39.60	−28 46.3	2.167	3.078	9.4	24.2	150 W	16	87
9 23	0 34.54	−29 25.7	2.178	3.084	9.5	24.3	149 W	16	87
9 28	0 29.36	−29 58.3	2.195	3.090	9.9	24.3	148 W	15	86
10 3	0 24.19	−30 23.8	2.219	3.096	10.5	24.4	146 E	15	86
10 8	0 19.15	−30 41.8	2.248	3.101	11.3	24.4	142 E	14	85
10 13	0 14.35	−30 52.3	2.284	3.106	12.2	24.5	139 E	14	85
10 18	0 9.92	−30 55.4	2.326	3.111	13.1	24.6	135 E	14	85
523972 1999 CW_{8}									
9 18	1 1.10	+51 2.9	2.802	3.471	13.8	24.3	124 W	84	13
9 23	0 54.23	+51 15.5	2.776	3.480	13.2	24.3	128 W	84	13
9 28	0 46.99	+51 19.8	2.755	3.488	12.7	24.3	130 W	84	13
10 3	0 39.53	+51 15.7	2.739	3.496	12.1	24.2	133 W	84	13
10 8	0 32.03	+51 3.1	2.729	3.503	11.7	24.2	135 E	84	13
10 13	0 24.67	+50 42.2	2.724	3.510	11.4	24.2	136 E	84	13
10 18	0 17.63	+50 13.6	2.725	3.516	11.2	24.2	137 E	85	14
10 23	0 11.06	+49 37.8	2.733	3.523	11.2	24.2	137 E	85	14
538652 2016 FW_{7}									
9 18	1 20.32	+ 3 20.5	1.560	2.507	9.7	22.5	155 W	48	61
9 23	1 15.76	+ 2 48.6	1.550	2.520	7.4	22.4	161 W	48	61
9 28	1 10.85	+ 2 15.7	1.547	2.533	5.1	22.3	167 W	47	62
10 3	1 5.70	+ 1 42.8	1.550	2.545	3.0	22.2	172 W	47	62
10 8	1 0.48	+ 1 10.6	1.561	2.558	1.9	22.1	175 W	46	63
10 13	0 55.33	+ 0 40.2	1.578	2.570	3.2	22.3	172 E	46	63
10 18	0 50.38	+ 0 12.5	1.603	2.581	5.3	22.4	166 E	45	64
10 23	0 45.79	− 0 11.9	1.635	2.593	7.5	22.6	160 E	45	64
10 28	0 41.65	− 0 32.4	1.673	2.604	9.5	22.7	154 E	44	65
539653 2016 TT_{2}									
9 18	1 22.41	+ 9 42.7	1.162	2.105	12.7	19.9	153 W	55	54
9 23	1 19.04	+ 7 51.2	1.158	2.126	9.8	19.8	159 W	53	56
9 28	1 15.26	+ 5 57.1	1.162	2.146	6.8	19.7	165 W	51	58
10 3	1 11.24	+ 4 3.0	1.172	2.167	4.0	19.6	171 W	49	60
10 8	1 7.14	+ 2 11.6	1.190	2.187	2.2	19.5	175 W	47	62
10 13	1 3.13	+ 0 25.2	1.215	2.208	3.5	19.7	172 E	45	64
10 18	0 59.35	− 1 13.9	1.248	2.229	6.0	19.9	166 E	44	65
10 23	0 55.95	− 2 44.1	1.287	2.249	8.5	20.1	160 E	42	67
10 28	0 53.04	− 4 4.1	1.333	2.270	10.9	20.3	154 E	41	68
11 7	0 48.96	− 6 12.0	1.443	2.311	15.0	20.7	143 E	39	70
11 17	0 47.43	− 7 38.1	1.574	2.353	18.2	21.0	132 E	37	72
11 27	0 48.46	− 8 26.9	1.720	2.394	20.5	21.3	122 E	37	72
12 7	0 51.85	− 8 44.9	1.878	2.434	21.9	21.6	113 E	36	73
524508 2002 TR_{96}									
9 18	3 21.65	+30 1.3	1.491	2.163	24.0	19.8	119 W	75	34
9 28	3 18.08	+32 3.5	1.446	2.211	20.9	19.7	128 W	77	32
10 8	3 10.54	+33 48.6	1.417	2.260	17.2	19.5	138 W	79	30
10 18	2 59.49	+35 9.3	1.407	2.310	13.4	19.4	148 W	80	29
10 23	2 53.01	+35 38.4	1.410	2.335	11.6	19.4	152 W	81	28
10 28	2 46.15	+35 59.3	1.419	2.360	10.0	19.4	156 W	81	28
11 2	2 39.17	+36 12.1	1.435	2.386	8.8	19.4	158 W	81	28
11 7	2 32.29	+36 17.1	1.457	2.411	8.2	19.4	160 E	81	28
11 12	2 25.72	+36 15.0	1.486	2.437	8.3	19.5	159 E	81	28
11 17	2 19.68	+36 6.8	1.522	2.462	9.1	19.6	157 E	81	28
11 22	2 14.34	+35 53.9	1.564	2.488	10.1	19.7	154 E	81	28
11 27	2 9.81	+35 37.6	1.612	2.513	11.4	19.8	150 E	81	28
12 2	2 6.15	+35 19.2	1.666	2.539	12.8	20.0	145 E	80	29
12 7	2 3.40	+34 59.9	1.725	2.564	14.1	20.1	141 E	80	29
12 12	2 1.56	+34 40.8	1.789	2.590	15.3	20.3	136 E	80	29
12 17	2 0.62	+34 22.6	1.858	2.616	16.4	20.4	131 E	79	30
12 22	2 0.53	+34 6.1	1.931	2.641	17.3	20.6	127 E	79	30
12 27	2 1.24	+33 51.8	2.007	2.667	18.1	20.7	122 E	79	30

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
524508 2002 TR_{96} *(continuation)*									
	h m	° ′			°	m	°	°	°
1 1	2 2.69	+33 40.0	2.086	2.692	18.8	20.8	118 E	79	30*
1 6	2 4.83	+33 30.7	2.169	2.717	19.4	20.9	114 E	79	30*
1 11	2 7.59	+33 24.1	2.253	2.743	19.8	21.0	109 E	78	30*
1 16	2 10.94	+33 20.0	2.340	2.768	20.0	21.2	105 E	78	29*
1 21	2 14.81	+33 18.6	2.428	2.793	20.2	21.3	101 E	78	29*
1 26	2 19.15	+33 19.5	2.517	2.818	20.3	21.4	97 E	78	28*
1 31	2 23.92	+33 22.7	2.607	2.843	20.2	21.5	93 E	78	27*
530484 2011 JG_{8}									
9 18	4 9.78	−17 42.5	0.937	1.616	35.0	21.1	113 W	27	82
9 23	4 8.12	−17 20.6	0.898	1.620	33.6	21.0	117 W	28	81
9 28	4 4.95	−16 53.4	0.860	1.623	31.9	20.9	121 W	28	81
10 3	4 0.16	−16 18.8	0.824	1.626	29.9	20.7	126 W	29	80
10 8	3 53.67	−15 34.7	0.791	1.630	27.6	20.6	131 W	29	80
10 13	3 45.45	−14 38.6	0.761	1.633	25.1	20.4	136 W	30	79
10 18	3 35.54	−13 28.1	0.735	1.637	22.2	20.3	142 W	32	77
10 23	3 24.14	−12 1.2	0.714	1.641	19.3	20.1	147 W	33	76
10 28	3 11.56	−10 16.9	0.699	1.644	16.5	20.0	152 W	35	74
11 2	2 58.22	− 8 16.0	0.691	1.648	14.2	19.9	156 W	37	72
11 7	2 44.63	− 6 0.6	0.691	1.651	13.2	19.9	158 E	39	70
11 12	2 31.32	− 3 34.5	0.699	1.655	13.6	19.9	157 E	41	68
11 17	2 18.80	− 1 2.1	0.714	1.659	15.4	20.0	153 E	44	65
11 22	2 7.51	+ 1 32.0	0.737	1.662	18.0	20.2	149 E	47	62
11 27	1 57.71	+ 4 4.0	0.767	1.666	20.8	20.4	143 E	49	60
12 2	1 49.55	+ 6 30.9	0.803	1.669	23.5	20.5	138 E	52	57
12 7	1 43.08	+ 8 51.0	0.845	1.673	25.9	20.7	132 E	54	55
12 12	1 38.25	+11 3.6	0.891	1.677	28.1	20.9	127 E	56	53
12 17	1 35.00	+13 8.8	0.941	1.680	29.9	21.1	122 E	58	51
12 22	1 33.21	+15 7.0	0.994	1.684	31.5	21.3	117 E	60	49
12 27	1 32.76	+16 58.9	1.049	1.687	32.7	21.4	112 E	62	47*
526774 2006 XT_{3}									
9 18	4 54.24	+48 5.0	1.105	1.577	39.3	21.2	97 W	87	16
9 23	5 6.14	+48 36.0	1.067	1.575	39.0	21.1	99 W	86	15
9 28	5 17.35	+49 1.5	1.029	1.573	38.6	21.0	101 W	86	15
10 3	5 27.74	+49 21.7	0.992	1.572	38.1	20.9	104 W	86	15
10 8	5 37.16	+49 36.6	0.954	1.570	37.5	20.8	107 W	85	14
10 13	5 45.44	+49 46.3	0.917	1.570	36.7	20.7	110 W	85	14
10 18	5 52.38	+49 50.6	0.881	1.569	35.7	20.6	113 W	85	14
10 23	5 57.83	+49 49.3	0.845	1.569	34.5	20.4	117 W	85	14
10 28	6 1.64	+49 41.6	0.811	1.569	33.1	20.3	120 W	85	14
11 2	6 3.67	+49 26.8	0.777	1.569	31.4	20.2	125 W	86	15
11 7	6 3.82	+49 3.7	0.746	1.570	29.5	20.0	129 W	86	15
11 12	6 2.00	+48 30.7	0.717	1.571	27.2	19.9	133 W	86	15
11 17	5 58.25	+47 45.7	0.690	1.573	24.7	19.7	138 W	87	16
11 22	5 52.71	+46 46.5	0.666	1.574	21.9	19.6	144 W	88	17
11 27	5 45.68	+45 31.2	0.647	1.577	18.8	19.4	149 W	89	18
12 2	5 37.57	+43 58.8	0.632	1.579	15.7	19.3	154 W	89	20
12 7	5 28.85	+42 9.1	0.621	1.582	12.8	19.1	159 W	87	22
12 12	5 20.05	+40 3.6	0.617	1.585	10.5	19.0	163 W	85	24
12 17	5 11.71	+37 45.5	0.618	1.588	9.6	19.0	164 E	83	26
12 22	5 4.29	+35 19.3	0.625	1.591	10.5	19.1	163 E	80	29
12 27	4 58.10	+32 50.5	0.638	1.595	12.8	19.2	159 E	78	31
1 1	4 53.33	+30 24.0	0.657	1.599	15.7	19.4	154 E	75	34
1 6	4 50.03	+28 4.1	0.681	1.604	18.7	19.5	149 E	73	36
1 11	4 48.19	+25 53.9	0.710	1.608	21.6	19.7	143 E	71	38
1 16	4 47.76	+23 55.2	0.743	1.613	24.2	19.9	138 E	69	40
1 21	4 48.65	+22 9.0	0.781	1.618	26.6	20.1	133 E	67	42
1 26	4 50.73	+20 35.2	0.821	1.623	28.6	20.3	128 E	66	43
1 31	4 53.87	+19 13.0	0.865	1.629	30.4	20.5	123 E	64	45
2 5	4 57.94	+18 1.4	0.911	1.635	31.8	20.6	119 E	63	46
2 10	5 2.85	+16 59.3	0.958	1.640	33.0	20.8	115 E	62	47
2 15	5 8.50	+16 5.4	1.008	1.646	34.0	20.9	111 E	61	48
2 20	5 14.81	+15 18.4	1.059	1.653	34.8	21.1	108 E	60	49
2 25	5 21.70	+14 37.2	1.111	1.659	35.3	21.2	104 E	60	49
3 2	5 29.09	+14 0.7	1.164	1.665	35.8	21.3	101 E	59	50*
3 7	5 36.92	+13 27.9	1.217	1.672	36.0	21.4	98 E	58	50*
528991 2009 HE_{82}									
9 18	5 40.39	+33 14.1	0.874	1.326	49.3	20.9	89 W	76*	31*
9 23	5 52.12	+31 2.8	0.839	1.329	49.0	20.8	92 W	75*	33*
9 28	6 2.91	+28 35.9	0.804	1.332	48.6	20.7	94 W	73*	35*
10 3	6 12.72	+25 52.7	0.770	1.336	48.0	20.6	97 W	71	38*
10 8	6 21.49	+22 52.5	0.737	1.340	47.3	20.5	100 W	68	41*
10 13	6 29.17	+19 35.0	0.705	1.345	46.3	20.3	103 W	65	44
10 18	6 35.68	+15 59.9	0.676	1.349	45.2	20.2	106 W	61	48
10 28	6 44.93	+ 7 59.0	0.625	1.360	42.5	20.0	112 W	53	56
11 7	6 48.74	− 0 56.5	0.587	1.372	39.4	19.8	118 W	44	65
11 17	6 46.58	−10 13.9	0.567	1.384	36.6	19.7	123 W	35	74

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			528991 2009 HE_{82}			*(continuation)*			
	h m	° ′			°	m	°	°	°
11 22	6 43.18	−14 44.9	0.564	1.391	35.5	19.6	125 W	30	79
11 27	6 38.31	−19 1.0	0.566	1.398	34.7	19.6	126 W	26	83
12 2	6 32.09	−22 55.4	0.572	1.405	34.3	19.6	127 W	22	87
12 7	6 24.72	−26 22.7	0.583	1.412	34.2	19.7	126 W	19	90
12 12	6 16.47	−29 18.9	0.598	1.419	34.3	19.8	126 W	16	87
12 17	6 7.70	−31 41.7	0.615	1.426	34.6	19.8	125 W	13	84
12 22	5 58.84	−33 30.9	0.636	1.433	35.1	19.9	123 E	11	82
12 27	5 50.30	−34 48.0	0.659	1.441	35.7	20.0	121 E	10	81
1 1	5 42.45	−35 35.7	0.684	1.448	36.2	20.2	120 E	9	80
1 6	5 35.58	−35 57.3	0.710	1.455	36.8	20.3	118 E	9	80
1 11	5 29.90	−35 56.2	0.738	1.463	37.3	20.4	116 E	9	80
1 16	5 25.56	−35 35.8	0.766	1.470	37.8	20.5	114 E	9	80
1 21	5 22.64	−34 59.5	0.795	1.477	38.2	20.6	112 E	10	81
1 26	5 21.12	−34 10.5	0.824	1.485	38.5	20.7	110 E	11	82
1 31	5 20.96	−33 11.4	0.853	1.492	38.8	20.8	108 E	12	83
2 5	5 22.07	−32 4.3	0.883	1.499	39.1	20.9	107 E	13	84
2 10	5 24.37	−30 51.1	0.912	1.506	39.3	21.0	105 E	14	85
2 15	5 27.79	−29 33.2	0.942	1.513	39.5	21.0	103 E	15	86
2 20	5 32.24	−28 12.3	0.971	1.519	39.6	21.1	102 E	17	88
2 25	5 37.62	−26 49.4	1.000	1.526	39.7	21.2	100 E	18	89
3 2	5 43.85	−25 25.5	1.030	1.532	39.8	21.3	99 E	20	89
3 7	5 50.85	−24 1.4	1.059	1.539	39.8	21.3	97 E	21	88
3 12	5 58.55	−22 37.7	1.089	1.545	39.8	21.4	96 E	22	87*
3 17	6 6.91	−21 15.1	1.118	1.550	39.8	21.5	94 E	24*	85*
			538085 2016 BO_1						
9 18	9 15.76	−18 29.9	1.880	1.309	30.6	20.9	41 W	4*	35*
9 28	9 36.58	−18 56.8	1.946	1.394	29.4	21.1	43 W	8*	37*
10 8	9 54.88	−19 21.4	1.991	1.478	29.0	21.2	46 W	12*	40*
10 18	10 10.93	−19 44.0	2.012	1.561	29.0	21.4	49 W	16*	43*
10 28	10 24.84	−20 3.8	2.012	1.641	29.4	21.5	54 W	20*	46*
			530871 2011 WS_2						
9 18	10 31.19	+17 51.2	2.040	1.191	19.8	20.1	24 W	18*	3*
9 23	10 43.49	+15 29.9	1.970	1.137	21.5	20.0	25 W	18*	4*
9 28	10 56.32	+12 56.2	1.897	1.079	23.4	19.9	25 W	19*	6*
10 3	11 9.84	+10 8.0	1.821	1.018	25.3	19.7	26 W	19*	7*
10 8	11 24.26	+ 7 3.0	1.744	0.953	27.4	19.5	26 W	19*	8*
10 13	11 39.88	+ 3 38.3	1.666	0.884	29.6	19.3	26 W	18*	10*
10 18	11 57.10	− 0 9.2	1.588	0.810	31.9	19.1	25 W	17*	11*
10 23	12 16.50	− 4 22.2	1.511	0.731	34.2	18.8	24 W	15*	12*
10 28	12 38.92	− 9 2.8	1.437	0.646	36.3	18.5	23 W	12*	12*
11 2	13 5.69	−14 10.0	1.369	0.557	38.1	18.1	20 W	8*	12*
11 7	13 38.83	−19 34.7	1.308	0.463	38.9	17.7	17 W	3*	10*
11 9	13 54.52	−21 44.1	1.286	0.425	38.7	17.4	16 W	—	9*
11 11	14 11.95	−23 48.9	1.265	0.387	38.2	17.2	14 W	—	8*
11 13	14 31.38	−25 44.0	1.245	0.351	37.5	16.9	12 W	—	6*
11 15	14 52.97	−27 22.4	1.225	0.317	36.7	16.6	11 W	—	4*
11 17	15 16.73	−28 34.5	1.205	0.289	36.7	16.4	10 W	—	1*
11 18	15 29.32	−28 57.3	1.195	0.278	37.3	16.3	10 W	—	—
11 19	15 42.26	−29 9.4	1.184	0.269	38.6	16.3	10 E	—	—
11 20	15 55.41	−29 9.7	1.173	0.262	40.6	16.2	10 E	—	1*
11 21	16 8.62	−28 57.4	1.161	0.259	43.3	16.3	10 E	—	3*
11 22	16 21.68	−28 32.4	1.148	0.259	46.5	16.3	11 E	—	4*
11 23	16 34.43	−27 55.1	1.135	0.263	50.1	16.4	12 E	—	6*
11 24	16 46.73	−27 6.6	1.122	0.269	53.8	16.6	13 E	—	7*
11 25	16 58.47	−26 8.3	1.109	0.278	57.4	16.7	14 E	—	8*
11 26	17 9.60	−25 1.7	1.096	0.290	60.7	16.9	15 E	—	9*
11 27	17 20.10	−23 48.5	1.084	0.303	63.6	17.0	16 E	2*	9*
11 28	17 29.99	−22 30.0	1.072	0.318	66.1	17.2	17 E	4*	10*
11 29	17 39.31	−21 7.6	1.061	0.335	68.2	17.4	18 E	6*	10*
11 30	17 48.09	−19 42.3	1.050	0.352	69.9	17.5	20 E	8*	10*
12 1	17 56.39	−18 15.0	1.041	0.370	71.2	17.6	21 E	10*	11*
12 2	18 4.26	−16 46.3	1.032	0.388	72.3	17.7	22 E	12*	11*
12 3	18 11.74	−15 16.9	1.025	0.407	73.0	17.9	23 E	13*	11*
12 4	18 18.88	−13 47.2	1.018	0.426	73.5	18.0	24 E	15*	11*
12 5	18 25.71	−12 17.5	1.012	0.445	73.9	18.0	26 E	17*	10*
12 6	18 32.26	−10 48.3	1.006	0.464	74.0	18.1	27 E	18*	10*
12 7	18 38.58	− 9 19.6	1.002	0.483	74.0	18.2	28 E	20*	10*
12 9	18 50.59	− 6 24.8	0.995	0.521	73.7	18.3	30 E	23*	9*
12 11	19 1.91	− 3 34.3	0.991	0.558	72.9	18.5	33 E	26*	9*
12 13	19 12.68	− 0 48.9	0.990	0.594	72.0	18.6	35 E	28*	8*
12 15	19 23.01	+ 1 50.9	0.991	0.630	70.8	18.7	37 E	31*	7*
12 17	19 32.98	+ 4 24.9	0.994	0.665	69.6	18.7	39 E	33*	6*
12 22	19 56.76	+10 23.6	1.009	0.748	66.2	18.9	44 E	38*	3*
12 27	20 19.43	+15 44.9	1.033	0.826	62.7	19.1	48 E	42*	1*
1 1	20 41.44	+20 30.9	1.065	0.899	59.4	19.2	52 E	45*	—
1 6	21 3.07	+24 44.3	1.101	0.967	56.3	19.4	55 E	48*	—
1 11	21 24.51	+28 28.3	1.143	1.032	53.5	19.5	57 E	49*	—

2021	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			530871 2011 WS_2			*(continuation)*			
	h m	° ′			°	m	°	°	°
1 16	21 45.85	+31 46.1	1.188	1.092	50.9	19.7	59 E	51*	—
1 21	22 7.14	+34 40.3	1.236	1.149	48.6	19.8	61 E	51*	—
1 26	22 28.41	+37 13.6	1.287	1.202	46.4	19.9	62 E	52*	—
1 31	22 49.65	+39 27.9	1.340	1.252	44.5	20.0	63 E	52*	—
2 5	23 10.86	+41 25.1	1.395	1.299	42.8	20.1	63 E	52*	—
2 10	23 32.01	+43 7.1	1.451	1.343	41.1	20.3	64 E	52*	—
2 15	23 53.07	+44 35.4	1.509	1.385	39.6	20.4	63 E	51*	—
2 20	0 14.00	+45 51.2	1.567	1.424	38.2	20.5	63 E	51*	—
2 25	0 34.76	+46 55.8	1.626	1.460	36.9	20.6	62 E	50*	—
3 2	0 55.31	+47 50.1	1.685	1.494	35.7	20.7	62 E	50*	—
3 7	1 15.62	+48 35.0	1.745	1.526	34.5	20.8	61 E	49*	—
3 12	1 35.66	+49 11.4	1.804	1.555	33.4	20.8	59 E	48*	—
3 17	1 55.40	+49 40.1	1.863	1.582	32.3	20.9	58 E	47*	—
3 22	2 14.82	+50 1.7	1.922	1.608	31.2	21.0	57 E	46*	—
3 27	2 33.87	+50 16.8	1.979	1.631	30.2	21.0	55 E	45*	—
4 1	2 52.56	+50 25.9	2.035	1.652	29.1	21.1	54 E	44*	—
4 6	3 10.87	+50 29.4	2.090	1.671	28.1	21.2	52 E	43*	—
4 11	3 28.80	+50 27.7	2.144	1.688	27.1	21.2	50 E	42*	—
4 16	3 46.33	+50 21.4	2.195	1.704	26.1	21.3	48 E	41*	—
4 21	4 3.47	+50 10.6	2.245	1.717	25.2	21.3	47 E	39*	—
4 26	4 20.21	+49 55.7	2.292	1.728	24.2	21.3	45 E	38*	—
5 1	4 36.55	+49 36.9	2.337	1.738	23.2	21.3	43 E	36*	—
5 6	4 52.50	+49 14.4	2.379	1.746	22.2	21.4	41 E	34*	—
5 11	5 8.08	+48 48.5	2.418	1.752	21.3	21.4	39 E	33*	—
5 16	5 23.30	+48 19.2	2.455	1.757	20.3	21.4	37 E	31*	—
5 21	5 38.14	+47 46.9	2.488	1.759	19.3	21.4	35 E	29*	—
5 26	5 52.63	+47 11.6	2.517	1.760	18.4	21.4	33 E	27*	—
5 31	6 6.79	+46 33.3	2.544	1.759	17.5	21.4	31 E	25*	—
6 5	6 20.61	+45 52.2	2.567	1.756	16.5	21.4	30 E	23*	—
6 10	6 34.14	+45 8.4	2.586	1.752	15.6	21.3	28 E	22*	—
6 15	6 47.36	+44 22.0	2.601	1.745	14.8	21.3	26 E	20*	—
6 20	7 0.31	+43 32.9	2.612	1.737	13.9	21.3	24 E	18*	—
6 25	7 12.98	+42 41.3	2.619	1.727	13.2	21.2	23 E	17*	—
6 30	7 25.41	+41 46.9	2.622	1.715	12.4	21.2	21 E	15*	—
7 5	7 37.60	+40 50.0	2.621	1.702	11.8	21.2	20 E	14*	—
7 10	7 49.58	+39 50.4	2.616	1.686	11.3	21.1	19 E	12*	—
7 15	8 1.37	+38 48.1	2.606	1.669	10.9	21.1	18 E	11*	—
7 20	8 12.98	+37 42.9	2.591	1.650	10.6	21.0	17 E	10*	—
7 25	8 24.42	+36 34.9	2.573	1.628	10.5	21.0	17 E	8*	—
7 30	8 35.72	+35 23.7	2.550	1.605	10.5	20.9	17 W	7*	—
8 4	8 46.92	+34 9.3	2.522	1.579	10.8	20.9	17 W	8*	—
8 9	8 58.02	+32 51.3	2.490	1.552	11.2	20.8	17 W	9*	—
8 14	9 9.05	+31 29.6	2.453	1.522	11.9	20.8	18 W	11*	—
8 19	9 20.04	+30 3.8	2.412	1.490	12.6	20.7	19 W	12*	—
8 24	9 31.02	+28 33.4	2.367	1.456	13.6	20.7	20 W	13*	—
8 29	9 42.03	+26 58.0	2.317	1.419	14.6	20.6	21 W	14*	—
9 3	9 53.12	+25 17.0	2.264	1.380	15.8	20.5	22 W	16*	—
9 8	10 4.32	+23 29.7	2.206	1.338	17.2	20.5	23 W	17*	—
9 13	10 15.68	+21 35.2	2.144	1.294	18.6	20.4	24 W	18*	1*
9 18	10 27.29	+19 32.6	2.079	1.246	20.1	20.3	25 W	19*	2*
9 23	10 39.21	+17 20.5	2.010	1.196	21.8	20.2	26 W	20*	4*
9 28	10 51.57	+14 57.4	1.938	1.142	23.6	20.0	27 W	21*	5*
10 3	11 4.48	+12 21.6	1.864	1.085	25.5	19.9	28 W	22*	7*
10 8	11 18.12	+ 9 30.9	1.787	1.024	27.6	19.7	28 W	22*	8*
10 13	11 32.70	+ 6 22.9	1.709	0.959	29.8	19.6	29 W	21*	10*
10 18	11 48.54	+ 2 54.7	1.631	0.890	32.1	19.4	28 W	21*	11*
10 23	12 6.06	− 0 56.8	1.553	0.817	34.5	19.1	28 W	19*	12*
10 28	12 25.85	− 5 14.3	1.478	0.738	37.0	18.9	27 W	17*	13*
11 2	12 48.81	− 9 59.6	1.407	0.654	39.4	18.6	25 W	14*	14*
11 7	13 16.27	−15 10.6	1.343	0.565	41.3	18.2	22 W	9*	13*
11 12	13 50.26	−20 36.9	1.287	0.472	42.2	17.8	19 W	4*	12*
11 14	14 6.32	−22 46.0	1.268	0.434	42.0	17.5	17 W	2*	11*
11 16	14 24.12	−24 49.7	1.251	0.396	41.3	17.3	15 W	—	9*
11 18	14 43.90	−26 43.1	1.235	0.359	40.2	17.0	14 W	—	7*
11 20	15 5.82	−28 19.3	1.221	0.325	38.7	16.7	12 W	—	5*
11 22	15 29.88	−29 29.3	1.206	0.295	37.3	16.5	10 W	—	3*
11 23	15 42.62	−29 51.3	1.199	0.283	36.9	16.3	10 W	—	1*
11 24	15 55.72	−30 2.7	1.191	0.273	37.0	16.3	10 W	—	—
11 25	16 9.05	−30 2.5	1.183	0.265	37.9	16.2	9 E	—	—
11 26	16 22.44	−29 50.0	1.174	0.260	39.4	16.2	10 E	—	2*
11 27	16 35.72	−29 24.8	1.165	0.259	41.8	16.2	10 E	—	3*
11 28	16 48.71	−28 47.3	1.155	0.261	44.7	16.3	11 E	—	4*
11 29	17 1.26	−27 58.5	1.144	0.266	48.0	16.4	12 E	—	6*
11 30	17 13.24	−26 59.8	1.134	0.274	51.4	16.6	13 E	—	7*
12 1	17 24.60	−25 52.7	1.123	0.284	54.7	16.7	14 E	—	7*
12 2	17 35.32	−24 38.8	1.112	0.297	57.7	16.9	15 E	1*	8*
12 3	17 45.40	−23 19.7	1.102	0.311	60.3	17.0	16 E	3*	9*
12 4	17 54.87	−21 56.7	1.092	0.327	62.6	17.2	17 E	5*	9*
12 5	18 3.79	−20 30.8	1.083	0.344	64.5	17.3	18 E	7*	9*
12 6	18 12.20	−19 3.0	1.075	0.361	66.1	17.5	20 E	9*	10*
12 7	18 20.16	−17 33.9	1.067	0.380	67.3	17.6	21 E	11*	10*

20/22		α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			530871 2011 WS_2				*(continuation)*			
		h m	° ′			°	m	°	°	°
12	8	18 27.71	−16 4.3	1.060	0.398	68.3	17.7	22 E	12*	10*
12	9	18 34.90	−14 34.4	1.054	0.417	69.0	17.8	23 E	14*	10*
12	10	18 41.78	−13 4.7	1.049	0.436	69.5	17.9	25 E	16*	9*
12	11	18 48.36	−11 35.5	1.044	0.455	69.9	18.0	26 E	17*	9*
12	12	18 54.70	−10 6.9	1.040	0.474	70.0	18.1	27 E	19*	9*
12	14	19 6.73	− 7 12.5	1.034	0.512	70.0	18.3	29 E	22*	8*
12	16	19 18.05	− 4 22.6	1.031	0.549	69.6	18.4	32 E	25*	8*
12	18	19 28.80	− 1 37.9	1.030	0.586	68.8	18.5	34 E	27*	7*
12	20	19 39.09	+ 1 1.3	1.031	0.621	67.9	18.6	36 E	30*	6*
12	22	19 49.02	+ 3 34.6	1.035	0.656	66.9	18.7	38 E	32*	5*
12	27	20 12.65	+ 9 31.9	1.051	0.740	63.9	18.9	43 E	37*	3*
1	1	20 35.15	+14 52.7	1.075	0.819	60.8	19.1	47 E	40*	1*
1	6	20 56.98	+19 38.9	1.107	0.892	57.7	19.3	50 E	43*	—
1	11	21 18.39	+23 53.3	1.145	0.961	54.8	19.4	53 E	46*	—
1	16	21 39.56	+27 38.9	1.187	1.026	52.2	19.5	55 E	47*	—
1	21	22 0.60	+30 58.5	1.233	1.086	49.7	19.7	57 E	48*	—
			539063 2016 MK_1							
9	18	11 0.20	+ 3 58.4	1.702	0.739	14.7	20.4	11 W	3*	3*
9	28	11 38.49	+ 0 49.8	1.848	0.882	11.8	20.9	10 W	3*	2*
10	8	12 11.69	− 1 55.0	1.977	1.018	11.2	21.3	11 W	4*	2*
10	18	12 41.13	− 4 18.8	2.090	1.146	11.8	21.7	14 W	7*	3*
10	28	13 7.69	− 6 23.8	2.185	1.266	13.0	22.1	17 W	9*	5*
			541912 2012 DV_3							
9	18	12 12.39	+ 0 3.4	3.038	2.046	3.8	21.4	8 E	—	1*
9	28	12 30.05	− 3 3.7	3.087	2.087	1.5	21.3	3 E	—	—
10	8	12 47.40	− 6 4.9	3.126	2.128	0.9	21.4	2 W	—	—
10	18	13 4.51	− 9 0.3	3.155	2.169	3.1	21.6	7 W	—	—
10	28	13 21.39	−11 49.9	3.174	2.211	5.3	21.8	12 W	3*	4*
			541958 2012 FL							
9	18	12 19.58	− 7 28.3	2.922	1.956	6.7	21.5	13 E	—	6*
9	28	12 42.26	− 8 38.8	2.980	1.996	4.4	21.5	9 E	—	2*
10	8	13 4.44	− 9 45.2	3.030	2.036	2.2	21.4	5 E	—	—
10	18	13 26.19	−10 46.4	3.072	2.077	0.9	21.4	2 W	—	—
10	28	13 47.50	−11 41.3	3.105	2.118	2.6	21.6	6 W	—	—
			530938 2011 XE							
9	18	13 26.50	+ 4 23.5	0.759	0.464	108.1	21.1	26 E	14*	16*
9	20	13 33.33	+ 4 49.6	0.716	0.480	112.8	21.3	26 E	15*	15*
9	22	13 39.59	+ 5 16.1	0.675	0.496	117.2	21.6	26 E	16*	15*
9	24	13 45.32	+ 5 42.1	0.635	0.514	121.2	21.8	26 E	16*	14*
9	26	13 50.55	+ 6 7.2	0.597	0.533	125.0	22.1	26 E	17*	13*
			525364 2005 CL_7							
9	18	15 53.87	−33 50.6	0.480	0.944	82.9	20.8	69 E	4*	61*
9	23	16 7.91	−39 51.5	0.491	0.944	82.3	20.8	69 E	—	58*
9	28	16 22.87	−45 25.2	0.504	0.944	81.5	20.8	69 E	—	55*
10	3	16 39.04	−50 29.8	0.519	0.944	80.6	20.9	69 E	—	52*
10	8	16 56.79	−55 4.7	0.535	0.946	79.6	20.9	69 E	—	49*
10	13	17 16.64	−59 10.3	0.551	0.949	78.5	20.9	69 E	—	47*
10	18	17 39.23	−62 47.3	0.566	0.952	77.5	21.0	69 E	—	45*
10	23	18 5.30	−65 55.9	0.580	0.956	76.4	21.0	69 E	—	43*
10	28	18 35.62	−68 35.5	0.593	0.960	75.4	21.0	69 E	—	42*
11	2	19 10.85	−70 44.4	0.603	0.966	74.5	21.0	70 E	—	41*
11	7	19 51.23	−72 19.7	0.611	0.972	73.6	21.0	70 E	—	41*
11	12	20 36.04	−73 18.1	0.617	0.978	72.8	21.0	71 E	—	41*
11	17	21 23.33	−73 37.0	0.620	0.985	72.0	21.1	71 E	—	41*
11	22	22 10.19	−73 16.1	0.621	0.992	71.3	21.0	72 E	—	42*
11	27	22 53.87	−72 17.7	0.618	1.000	70.7	21.0	73 E	—	44*
12	2	23 32.69	−70 45.6	0.614	1.008	70.1	21.0	74 E	—	45*
12	7	0 6.25	−68 43.8	0.607	1.016	69.6	21.0	75 E	—	47*
12	12	0 34.98	−66 15.3	0.598	1.025	69.1	21.0	76 E	—	50*
12	17	0 59.66	−63 22.0	0.587	1.033	68.5	20.9	78 E	—	53
12	22	1 21.09	−60 4.9	0.575	1.042	68.0	20.9	79 E	—	56
12	27	1 39.99	−56 24.1	0.563	1.050	67.5	20.8	81 E	—	60*
1	1	1 56.92	−52 19.4	0.550	1.058	66.9	20.8	82 E	—	64*
1	6	2 12.36	−47 50.1	0.537	1.067	66.4	20.7	84 E	—	68*
1	11	2 26.70	−42 56.2	0.526	1.075	65.7	20.7	85 E	2	73*
1	16	2 40.25	−37 38.8	0.517	1.083	65.1	20.6	86 E	7	77*
1	21	2 53.26	−32 0.6	0.510	1.090	64.4	20.6	88 E	13	81*
1	26	3 5.90	−26 5.6	0.507	1.098	63.7	20.6	89 E	19	82*
1	31	3 18.32	−19 59.7	0.507	1.105	63.1	20.6	90 E	25	79*
2	5	3 30.63	−13 49.9	0.512	1.111	62.5	20.6	90 E	31	74*
2	10	3 42.96	− 7 43.5	0.521	1.117	62.0	20.6	90 E	37	68*
2	15	3 55.41	− 1 48.0	0.535	1.123	61.6	20.7	90 E	43	63*
2	20	4 8.04	+ 3 50.5	0.554	1.129	61.2	20.8	89 E	49	57*
2	25	4 20.92	+ 9 7.4	0.576	1.134	60.8	20.8	89 E	54*	52*
3	2	4 34.08	+13 59.8	0.601	1.138	60.5	20.9	88 E	59*	48*

20/21		α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
			525364 2005 CL_7				*(continuation)*			
		h m	° ′			°	m	°	°	°
3	7	4 47.57	+18 26.6	0.629	1.142	60.2	21.0	86 E	62*	43*
3	12	5 1.44	+22 27.8	0.660	1.145	59.8	21.1	85 E	66*	39*
3	17	5 15.74	+26 4.1	0.692	1.148	59.5	21.2	84 E	68*	36*
3	22	5 30.47	+29 16.9	0.725	1.151	59.1	21.3	82 E	69*	33*
3	27	5 45.65	+32 7.6	0.758	1.152	58.7	21.4	81 E	70*	30*
			539940 2017 HW_1							
9	18	17 41.78	−66 23.3	1.491	1.822	33.5	21.4	92 E	—	49*
9	23	18 4.50	−65 16.6	1.550	1.852	32.8	21.5	90 E	—	51*
9	28	18 25.78	−64 3.2	1.610	1.882	32.2	21.6	89 E	—	52*
10	3	18 45.65	−62 44.1	1.672	1.911	31.5	21.7	88 E	—	53*
10	8	19 4.20	−61 20.3	1.735	1.940	30.9	21.8	86 E	—	54*
			528284 2008 SW_{11}							
9	18	21 8.13	−47 31.1	0.190	1.121	48.4	19.6	123 E	—	68
9	19	21 12.96	−45 45.0	0.197	1.128	47.2	19.6	124 E	—	70
9	20	21 17.29	−44 4.5	0.204	1.135	46.2	19.7	125 E	1	72
9	21	21 21.20	−42 29.3	0.211	1.141	45.3	19.7	126 E	3	74
9	22	21 24.76	−40 59.0	0.218	1.148	44.5	19.8	127 E	4	75
9	23	21 28.03	−39 33.5	0.226	1.154	43.8	19.9	127 E	5	76
9	24	21 31.05	−38 12.4	0.233	1.161	43.1	19.9	128 E	7	78
9	25	21 33.85	−36 55.5	0.241	1.167	42.5	20.0	128 E	8	79
9	26	21 36.47	−35 42.5	0.249	1.173	42.0	20.1	128 E	9	80
9	27	21 38.93	−34 33.1	0.257	1.180	41.6	20.1	129 E	10	81
9	28	21 41.25	−33 27.2	0.265	1.186	41.2	20.2	129 E	12	83
9	30	21 45.55	−31 24.6	0.282	1.198	40.6	20.3	129 E	14	85
10	2	21 49.48	−29 33.0	0.299	1.211	40.1	20.5	129 E	15	86
10	4	21 53.13	−27 51.0	0.317	1.223	39.8	20.6	128 E	17	88
10	6	21 56.55	−26 17.4	0.335	1.235	39.6	20.8	128 E	19	90
10	8	21 59.80	−24 51.1	0.354	1.246	39.5	20.9	128 E	20	89
10	10	22 2.93	−23 31.2	0.373	1.258	39.4	21.0	127 E	21	88
10	12	22 5.95	−22 16.9	0.392	1.269	39.4	21.1	126 E	23	86
10	14	22 8.89	−21 7.6	0.412	1.281	39.4	21.3	125 E	24	85
10	16	22 11.79	−20 2.6	0.432	1.292	39.5	21.4	125 E	25	84
			526401 2006 HR_{52}							
9	18	23 14.60	−21 46.0	1.336	2.302	9.0	21.0	159 E	23	86
9	23	23 9.73	−21 57.6	1.371	2.319	10.6	21.2	155 E	23	86
9	28	23 5.39	−22 2.0	1.412	2.335	12.4	21.3	150 E	23	86
10	3	23 1.67	−21 59.6	1.459	2.350	14.1	21.5	145 E	23	86
10	8	22 58.64	−21 50.8	1.510	2.366	15.7	21.6	140 E	23	86
			528736 2008 YS_{126}							
9	18	23 31.48	+34 8.8	1.767	2.646	12.9	21.3	144 E	79	30
9	23	23 25.32	+33 51.0	1.768	2.655	12.5	21.3	145 E	79	30
9	28	23 19.42	+33 24.8	1.775	2.663	12.2	21.3	146 E	78	31
10	3	23 13.91	+32 51.2	1.788	2.671	12.3	21.3	145 E	78	31
10	8	23 8.95	+32 11.4	1.807	2.679	12.7	21.4	144 E	77	32
10	13	23 4.63	+31 26.8	1.831	2.687	13.3	21.4	142 E	76	33
			532546 2013 TN_{100}							
9	18	23 38.30	+13 14.1	0.675	1.666	9.1	18.7	165 E	58	51
9	23	23 33.73	+13 29.3	0.679	1.669	8.9	18.7	165 E	58	51
9	28	23 29.47	+13 37.4	0.688	1.673	10.0	18.8	163 E	59	50
10	3	23 25.77	+13 39.5	0.702	1.678	11.8	18.9	160 E	59	50
10	8	23 22.81	+13 36.9	0.720	1.683	13.9	19.0	156 E	59	50
10	13	23 20.72	+13 31.3	0.743	1.689	16.2	19.2	152 E	59	50
10	18	23 19.61	+13 23.9	0.769	1.696	18.4	19.3	147 E	58	51
10	23	23 19.53	+13 16.3	0.800	1.704	20.5	19.5	143 E	58	51
10	28	23 20.48	+13 9.7	0.834	1.712	22.5	19.6	139 E	58	51
11	2	23 22.41	+13 5.1	0.871	1.720	24.2	19.8	135 E	58	51
11	7	23 25.27	+13 2.9	0.912	1.730	25.7	20.0	131 E	58	51
11	17	23 33.53	+13 7.9	1.001	1.750	28.2	20.3	123 E	58	51
11	27	23 44.70	+13 26.7	1.101	1.773	30.0	20.6	116 E	58	51
12	7	23 58.20	+13 59.1	1.208	1.798	31.1	20.8	110 E	59	50*
12	17	0 13.53	+14 43.7	1.323	1.824	31.6	21.1	104 E	60	48*
12	27	0 30.31	+15 38.5	1.444	1.852	31.8	21.3	98 E	61	45*
1	6	0 48.23	+16 41.2	1.569	1.881	31.5	21.5	92 E	62	41*
			525422 2005 EQ_{169}							
9	18	23 58.25	−25 6.6	1.604	2.557	9.0	20.8	156 W	20	89
9	23	23 53.56	−25 57.9	1.632	2.571	9.9	20.9	154 E	19	90
9	28	23 49.02	−26 40.4	1.666	2.585	11.0	21.0	150 E	18	89
10	3	23 44.77	−27 13.9	1.706	2.600	12.3	21.1	146 E	18	89
10	8	23 40.92	−27 38.5	1.752	2.613	13.6	21.2	142 E	17	88
10	13	23 37.57	−27 54.4	1.803	2.627	14.9	21.3	138 E	17	88
10	18	23 34.79	−28 2.1	1.859	2.641	16.0	21.4	133 E	17	88

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		531071 2012 DD_{90}							
	h m	° ′			°	m	°	°	°
9 28	1 24.69	+ 1 1.8	1.966	2.940	5.6	22.9	163 W	46	63
10 3	1 20.06	+ 0 30.6	1.962	2.949	3.8	22.8	169 W	46	63
10 8	1 15.27	+ 0 0.2	1.965	2.958	2.6	22.7	172 W	45	64
10 13	1 10.44	− 0 28.8	1.976	2.967	2.8	22.7	172 E	45	64
10 18	1 5.68	− 0 55.6	1.995	2.976	4.1	22.8	168 E	44	65
10 23	1 1.13	− 1 19.5	2.021	2.984	5.8	23.0	162 E	44	65
10 28	0 56.87	− 1 40.1	2.053	2.992	7.6	23.1	157 E	43	66
		525500 2005 GL_{63}							
9 28	1 45.94	+ 2 0.5	1.859	2.814	7.6	22.3	158 W	47	62
10 8	1 35.99	+ 1 23.6	1.845	2.832	3.9	22.2	169 W	46	63
10 18	1 25.43	+ 0 50.7	1.861	2.849	3.1	22.1	171 E	46	63
10 28	1 15.31	+ 0 26.5	1.906	2.866	6.3	22.4	161 E	45	64
11 7	1 6.56	+ 0 14.7	1.980	2.881	9.9	22.6	150 E	45	64
		525395 2005 EU_{78}							
9 28	2 8.52	+15 8.2	1.842	2.755	10.5	22.5	150 W	60	49
10 8	1 59.32	+14 41.0	1.807	2.774	6.4	22.3	162 W	60	49
10 18	1 48.91	+14 3.7	1.799	2.791	2.2	22.1	174 W	59	50
10 28	1 38.37	+13 21.0	1.820	2.808	2.7	22.1	172 E	58	51
11 7	1 28.78	+12 38.3	1.871	2.824	6.8	22.4	160 E	58	51
		527714 2007 YG_{55}							
9 28	2 18.95	−33 31.7	1.059	1.901	22.1	21.8	135 W	11	82
10 3	2 13.98	−34 38.5	1.049	1.895	21.9	21.8	135 W	10	81
10 8	2 8.13	−35 33.6	1.044	1.888	21.9	21.7	135 W	9	80
10 13	2 1.56	−36 14.8	1.042	1.882	22.2	21.7	135 W	9	80
10 18	1 54.54	−36 40.4	1.044	1.875	22.7	21.7	133 W	8	79
10 23	1 47.36	−36 49.1	1.051	1.867	23.4	21.8	132 E	8	79
10 28	1 40.33	−36 40.8	1.061	1.860	24.3	21.8	130 E	8	79
11 2	1 33.71	−36 15.9	1.074	1.852	25.2	21.9	127 E	9	80
11 7	1 27.74	−35 35.2	1.091	1.844	26.2	21.9	125 E	9	80
11 12	1 22.60	−34 40.2	1.110	1.836	27.3	22.0	122 E	10	81
11 17	1 18.43	−33 32.3	1.132	1.828	28.3	22.0	119 E	11	82
		538967 2016 JP_{35}							
9 28	2 37.64	+ 7 16.1	1.541	2.430	13.7	21.8	145 W	52	57
10 8	2 28.89	+ 6 44.0	1.508	2.458	9.3	21.6	157 W	52	57
10 18	2 18.24	+ 6 10.0	1.501	2.484	4.8	21.4	168 W	51	58
10 28	2 6.87	+ 5 39.2	1.522	2.510	3.0	21.3	173 E	51	58
11 7	1 56.09	+ 5 17.1	1.571	2.535	6.6	21.6	163 E	50	59
11 17	1 47.00	+ 5 7.4	1.647	2.559	10.7	21.9	151 E	50	59
		529841 2010 RL_{79}							
9 28	3 49.48	+30 52.8	1.389	2.104	23.7	21.4	122 W	76	33
10 8	3 46.73	+31 10.2	1.328	2.134	20.2	21.3	133 W	76	33
10 18	3 39.98	+31 7.8	1.281	2.164	16.0	21.1	143 W	76	33
10 28	3 29.88	+30 41.6	1.254	2.193	11.2	20.9	155 W	76	33
11 7	3 17.76	+29 51.0	1.250	2.222	6.7	20.7	165 W	75	34
11 17	3 5.37	+28 39.7	1.272	2.250	4.9	20.7	169 E	74	35
11 27	2 54.49	+27 16.7	1.321	2.278	8.0	21.0	161 E	72	37
12 7	2 46.40	+25 53.2	1.396	2.305	12.1	21.3	151 E	71	38
		527841 2008 CR_{1}							
9 28	12 45.37	−27 35.6	1.500	0.749	36.5	21.3	26 E	—	11*
10 3	13 13.68	−29 30.2	1.441	0.713	39.6	21.2	27 E	—	13*
10 8	13 44.99	−30 54.6	1.383	0.681	43.0	21.1	28 E	—	15*
10 13	14 18.99	−31 37.2	1.329	0.654	46.4	21.1	28 E	—	18*
10 18	14 54.86	−31 26.7	1.279	0.634	49.9	21.0	29 E	—	21*
10 23	15 31.33	−30 15.6	1.235	0.622	53.2	21.0	30 E	—	23*
10 28	16 6.93	−28 3.0	1.196	0.618	56.1	21.0	31 E	1*	25*
11 2	16 40.43	−24 55.1	1.164	0.623	58.5	21.0	32 E	6*	26*
11 7	17 11.10	−21 3.6	1.140	0.637	60.2	21.1	34 E	12*	27*
11 12	17 38.78	−16 42.8	1.121	0.658	61.2	21.1	36 E	17*	26*
11 17	18 3.71	−12 6.3	1.109	0.686	61.6	21.2	38 E	22*	25*
11 22	18 26.33	− 7 24.9	1.103	0.719	61.5	21.3	40 E	27*	22*
11 27	18 47.17	− 2 46.3	1.100	0.755	60.9	21.4	42 E	31*	20*
12 2	19 6.72	+ 1 44.5	1.101	0.794	60.1	21.5	44 E	36*	17*
		524900 2004 FB_{32}							
10 8	1 42.61	− 8 34.6	2.945	3.904	4.7	22.9	161 W	36	73
10 18	1 34.51	− 9 12.0	2.973	3.929	4.7	22.9	161 W	36	73
10 28	1 26.59	− 9 36.9	3.030	3.953	6.1	23.1	155 E	35	74
11 7	1 19.44	− 9 47.6	3.117	3.975	8.1	23.2	146 E	35	74
11 17	1 13.49	− 9 43.8	3.229	3.997	9.9	23.4	136 E	35	74
		531105 2012 EC_{15}							
10 8	1 55.45	+17 43.9	1.956	2.919	6.4	22.7	161 W	63	46
10 13	1 50.53	+17 20.5	1.947	2.928	4.5	22.6	167 W	62	47
10 18	1 45.45	+16 54.4	1.946	2.936	2.7	22.5	172 W	62	47
10 23	1 40.37	+16 26.3	1.953	2.944	1.9	22.4	174 E	61	48

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		531105 2012 EC_{15} *(continuation)*							
	h m	° ′			°	m	°	°	°
10 28	1 35.41	+15 57.1	1.967	2.952	3.0	22.5	171 E	61	48
11 2	1 30.69	+15 27.3	1.988	2.960	4.7	22.7	166 E	60	49
11 7	1 26.31	+14 57.9	2.017	2.968	6.6	22.8	160 E	60	49
		531898 2013 BE_{18}							
10 8	1 55.79	+15 46.1	1.873	2.840	6.2	25.0	162 W	61	48
10 13	1 50.49	+15 19.8	1.856	2.839	4.1	24.9	168 W	60	49
10 18	1 44.98	+14 50.8	1.846	2.838	2.2	24.7	174 W	60	49
10 23	1 39.41	+14 19.9	1.843	2.837	1.4	24.7	176 E	59	50
10 28	1 33.93	+13 48.0	1.849	2.835	3.1	24.8	171 E	59	50
11 2	1 28.67	+13 15.8	1.862	2.832	5.1	24.9	165 E	58	51
11 7	1 23.74	+12 44.3	1.882	2.830	7.2	25.1	159 E	58	51
		530085 2010 XC_{11}							
10 8	2 17.05	+ 2 32.3	3.520	4.469	4.5	25.1	159 W	48	61
10 18	2 8.63	+ 1 44.1	3.510	4.489	2.7	25.0	168 W	47	62
10 28	1 59.96	+ 0 59.8	3.533	4.508	2.7	25.0	168 E	46	63
11 7	1 51.56	+ 0 22.3	3.589	4.526	4.6	25.2	159 E	45	64
11 17	1 43.92	− 0 6.1	3.676	4.543	6.7	25.3	148 E	45	64
		525552 2005 JB							
10 8	2 18.66	+21 38.0	1.945	2.878	8.7	23.1	154 W	67	42
10 13	2 13.31	+20 35.3	1.922	2.883	6.6	23.0	161 W	66	43
10 18	2 7.71	+19 28.0	1.908	2.887	4.5	22.9	167 W	64	45
10 23	2 1.98	+18 17.1	1.902	2.891	2.5	22.8	173 W	63	46
10 28	1 56.28	+17 3.9	1.904	2.895	1.8	22.7	175 E	62	47
11 2	1 50.75	+15 49.8	1.915	2.898	3.2	22.8	171 E	61	48
11 7	1 45.51	+14 36.1	1.934	2.901	5.2	23.0	165 E	60	49
11 12	1 40.67	+13 24.3	1.961	2.904	7.3	23.1	158 E	58	51
		532057 2013 GR_{68}							
10 8	2 55.50	+15 5.0	1.709	2.616	11.4	22.2	149 W	60	49
10 18	2 45.60	+14 39.3	1.673	2.636	7.0	21.9	161 W	60	49
10 28	2 34.23	+14 6.7	1.664	2.654	2.2	21.7	174 W	59	50
11 7	2 22.61	+13 31.4	1.685	2.671	2.6	21.7	173 E	59	50
11 17	2 11.94	+12 58.4	1.736	2.687	7.1	22.1	160 E	58	51
11 27	2 3.24	+12 32.9	1.814	2.702	11.1	22.3	148 E	58	51
		526937 2007 OR							
10 8	3 25.45	+55 42.2	2.004	2.670	18.5	22.5	122 W	79	8
10 13	3 19.71	+56 18.8	1.973	2.678	17.7	22.4	125 W	79	8
10 18	3 12.84	+56 47.5	1.947	2.687	16.8	22.4	129 W	78	7
10 23	3 4.99	+57 6.8	1.925	2.695	15.9	22.3	132 W	78	7
10 28	2 56.39	+57 16.0	1.907	2.703	15.1	22.3	135 W	78	7
11 2	2 47.33	+57 14.1	1.895	2.710	14.4	22.3	137 W	78	7
11 7	2 38.11	+57 1.1	1.889	2.717	13.8	22.2	139 E	78	7
11 12	2 29.07	+56 36.9	1.888	2.724	13.4	22.2	140 E	78	7
11 17	2 20.54	+56 2.5	1.893	2.730	13.3	22.2	141 E	79	8
11 22	2 12.79	+55 18.8	1.903	2.737	13.3	22.3	140 E	80	9
11 27	2 6.04	+54 27.7	1.920	2.743	13.6	22.3	139 E	81	10
12 2	2 0.40	+53 30.8	1.942	2.748	14.1	22.3	137 E	81	10
		530664 2011 SO_{277}							
10 18	2 26.33	+ 4 11.6	29.540	30.505	0.5	22.5	165 W	49	60
10 28	2 25.29	+ 4 6.1	29.526	30.505	0.3	22.4	170 W	49	60
11 7	2 24.25	+ 4 1.1	29.542	30.506	0.4	22.5	166 E	49	60
11 17	2 23.22	+ 3 57.0	29.588	30.506	0.7	22.5	158 E	49	60
11 27	2 22.27	+ 3 53.7	29.662	30.506	1.0	22.5	148 E	49	60
		529015 2009 KA_{9}							
10 18	2 38.01	+16 34.6	1.709	2.676	6.4	22.6	162 W	62	47
10 23	2 33.00	+16 2.7	1.703	2.685	4.2	22.5	169 W	61	48
10 28	2 27.82	+15 29.2	1.704	2.695	1.8	22.3	175 W	60	49
11 2	2 22.64	+14 54.9	1.712	2.704	0.6	22.2	178 E	60	49
11 7	2 17.58	+14 20.5	1.729	2.714	2.9	22.5	172 E	59	50
11 12	2 12.78	+13 47.1	1.752	2.723	5.1	22.6	166 E	59	50
11 17	2 8.37	+13 15.4	1.783	2.731	7.2	22.8	160 E	58	51
		526947 2007 PH_{49}							
10 18	3 43.39	−21 15.5	2.123	2.917	13.9	22.5	135 W	24	85
10 23	3 39.48	−22 3.0	2.124	2.933	13.3	22.4	137 W	23	86
10 28	3 35.19	−22 43.9	2.131	2.950	12.9	22.4	139 W	22	87
11 2	3 30.59	−23 17.5	2.144	2.966	12.6	22.5	139 W	22	87
11 7	3 25.82	−23 43.2	2.162	2.982	12.6	22.5	139 W	21	88
11 12	3 20.98	−24 0.7	2.186	2.997	12.7	22.5	138 W	21	88
11 17	3 16.20	−24 9.6	2.216	3.013	13.0	22.6	137 E	21	88
11 22	3 11.60	−24 10.1	2.251	3.028	13.4	22.6	135 E	21	88
11 27	3 7.29	−24 2.5	2.291	3.043	13.9	22.7	132 E	21	88
12 2	3 3.35	−23 47.3	2.337	3.058	14.4	22.8	129 E	21	88

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
531895 2013 BP_7									
10 18	4 0.26	−27 9.9	1.809	2.552	17.8	21.6	129 W	18	89
10 23	3 56.23	−28 1.2	1.788	2.547	17.3	21.6	130 W	17	88
10 28	3 51.53	−28 45.2	1.773	2.542	17.0	21.6	131 W	16	87
11 2	3 46.27	−29 20.6	1.762	2.537	16.9	21.5	132 W	16	87
11 7	3 40.56	−29 46.4	1.756	2.531	16.8	21.5	132 W	15	86
11 12	3 34.55	−30 1.5	1.754	2.525	17.0	21.5	132 W	15	86
11 17	3 28.42	−30 5.2	1.758	2.519	17.2	21.5	131 E	15	86
11 22	3 22.35	−29 57.5	1.767	2.513	17.7	21.6	129 E	15	86
11 27	3 16.50	−29 38.2	1.780	2.506	18.2	21.6	128 E	15	86
12 2	3 11.03	−29 8.1	1.797	2.499	18.8	21.6	125 E	16	87
12 7	3 6.07	−28 27.8	1.819	2.492	19.5	21.7	123 E	17	88
12 12	3 1.73	−27 38.3	1.844	2.484	20.1	21.7	120 E	17	88
529030 2009 ME_8									
10 18	4 9.03	+10 57.0	1.536	2.396	15.1	21.4	141 W	56	53
10 28	4 1.08	+10 16.5	1.500	2.426	10.8	21.2	153 W	55	54
11 7	3 50.95	+ 9 38.3	1.489	2.456	6.6	21.0	164 W	55	54
11 17	3 39.78	+ 9 6.7	1.505	2.485	4.0	20.9	170 W	54	55
11 27	3 28.89	+ 8 46.0	1.550	2.513	6.3	21.1	164 E	54	55
12 7	3 19.52	+ 8 38.8	1.622	2.540	10.1	21.4	153 E	54	55
12 17	3 12.50	+ 8 46.1	1.719	2.567	13.6	21.7	142 E	54	55
524644 2003 SC_{220}									
10 18	5 34.42	−11 34.7	0.688	1.439	38.5	21.4	116 W	33	76
10 23	5 36.09	−15 43.4	0.683	1.447	37.4	21.4	118 W	29	80
10 28	5 36.39	−19 45.8	0.681	1.455	36.5	21.4	119 W	25	84
11 2	5 35.28	−23 36.9	0.684	1.464	35.7	21.4	121 W	21	88
11 7	5 32.79	−27 11.8	0.691	1.472	35.2	21.4	121 W	18	89
11 12	5 28.95	−30 26.4	0.701	1.481	34.8	21.4	121 W	15	86
11 17	5 23.88	−33 17.0	0.715	1.490	34.6	21.5	121 W	12	83
11 22	5 17.79	−35 41.1	0.732	1.499	34.6	21.5	121 W	9	80
11 27	5 10.96	−37 37.4	0.752	1.507	34.7	21.6	120 W	7	78
12 2	5 3.71	−39 5.8	0.773	1.516	34.8	21.7	119 W	6	77
12 7	4 56.37	−40 6.9	0.797	1.525	35.0	21.8	117 W	5	76
12 12	4 49.27	−40 42.2	0.821	1.533	35.3	21.9	116 E	4	75
12 17	4 42.73	−40 53.4	0.848	1.542	35.5	21.9	114 E	4	75
12 22	4 37.04	−40 43.1	0.875	1.550	35.8	22.0	113 E	4	75
12 27	4 32.39	−40 14.0	0.903	1.559	36.0	22.1	111 E	5	76
1 1	4 28.88	−39 28.8	0.931	1.567	36.2	22.2	110 E	6	77
1 6	4 26.56	−38 29.8	0.960	1.575	36.4	22.3	108 E	7	78
528184 2008 HD_{58}									
10 28	3 9.15	+15 40.2	1.971	2.943	4.9	22.9	165 W	61	48
11 2	3 4.28	+15 11.4	1.967	2.952	2.8	22.8	172 W	60	49
11 7	2 59.30	+14 42.1	1.970	2.960	1.0	22.7	177 W	60	49
11 12	2 54.33	+14 12.9	1.981	2.968	1.7	22.8	175 E	59	50
11 17	2 49.52	+13 44.6	1.999	2.976	3.6	22.9	169 E	59	50
11 22	2 44.97	+13 17.7	2.026	2.984	5.6	23.1	163 E	58	51
11 27	2 40.79	+12 52.9	2.059	2.991	7.5	23.2	157 E	58	51
524475 2002 KJ_4									
10 28	3 22.26	− 4 4.6	2.529	3.455	6.9	24.6	155 W	41	68
11 7	3 11.58	− 4 21.2	2.527	3.469	6.0	24.6	159 W	41	68
11 17	3 0.76	− 4 23.3	2.557	3.482	6.7	24.7	156 E	41	68
11 27	2 50.64	− 4 9.3	2.618	3.493	8.7	24.8	148 E	41	68
12 7	2 41.89	− 3 39.9	2.706	3.502	10.8	25.0	138 E	41	68
531178 2012 GD_{40}									
10 28	3 32.02	−14 45.4	2.002	2.877	11.3	22.7	146 W	30	79
11 2	3 27.24	−15 11.5	2.001	2.883	10.9	22.7	147 W	30	79
11 7	3 22.25	−15 31.1	2.006	2.889	10.7	22.7	147 W	29	80
11 12	3 17.16	−15 43.7	2.017	2.895	10.9	22.7	147 W	29	80
11 17	3 12.11	−15 48.9	2.035	2.900	11.3	22.8	145 E	29	80
11 22	3 7.22	−15 46.7	2.059	2.906	11.9	22.8	143 E	29	80
11 27	3 2.62	−15 37.2	2.089	2.911	12.7	22.9	140 E	29	80
12 2	2 58.39	−15 20.7	2.124	2.916	13.6	22.9	136 E	30	79
528804 2009 BJ_{58}									
10 28	3 32.43	− 0 15.0	2.156	3.088	7.6	23.7	156 W	45	64
11 2	3 26.64	− 0 47.3	2.131	3.078	6.6	23.6	159 W	44	65
11 7	3 20.55	− 1 17.1	2.115	3.068	6.1	23.5	161 W	44	65
11 12	3 14.28	− 1 43.6	2.106	3.057	6.2	23.5	161 W	43	66
11 17	3 7.96	− 2 6.2	2.106	3.046	6.9	23.5	158 E	43	66
11 22	3 1.73	− 2 24.3	2.113	3.035	8.1	23.6	154 E	43	66
11 27	2 55.73	− 2 37.7	2.128	3.022	9.4	23.7	150 E	42	67
12 2	2 50.06	− 2 45.9	2.151	3.009	10.9	23.7	145 E	42	67
530930 2011 WG_{157}									
10 28	3 40.78	+41 51.1	29.877	30.697	1.1	22.2	145 W	87	22
11 7	3 39.41	+41 50.6	29.816	30.697	0.9	22.1	152 W	87	22
11 17	3 37.98	+41 48.5	29.783	30.696	0.7	22.1	157 W	87	22
11 27	3 36.53	+41 45.0	29.778	30.696	0.7	22.1	158 E	87	22

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
530930 2011 WG_{157} *(continuation)*									
12 7	3 35.13	+41 40.3	29.802	30.695	0.8	22.1	155 E	87	22
12 17	3 33.83	+41 34.4	29.854	30.695	1.0	22.2	148 E	87	22
527959 2008 EB_{32}									
10 28	3 42.18	+13 35.8	1.835	2.779	7.8	23.7	158 W	59	50
11 7	3 31.23	+12 40.2	1.800	2.780	3.8	23.5	169 W	58	51
11 17	3 19.45	+11 45.2	1.796	2.779	2.7	23.4	172 E	57	52
11 27	3 8.05	+10 56.0	1.823	2.777	6.4	23.6	162 E	56	53
12 7	2 58.14	+10 17.4	1.879	2.773	10.4	23.8	149 E	55	54
541193 2011 BA_{84}									
10 28	4 7.55	+17 43.9	1.980	2.891	9.5	22.4	151 W	63	46
11 7	3 58.63	+17 23.5	1.912	2.876	5.7	22.2	163 W	62	47
11 17	3 48.16	+16 59.8	1.873	2.859	1.7	21.9	175 W	62	47
11 27	3 37.19	+16 35.2	1.863	2.842	3.2	21.9	171 E	62	47
12 7	3 26.85	+16 13.1	1.884	2.823	7.4	22.2	158 E	61	48
12 17	3 18.16	+15 56.9	1.933	2.804	11.3	22.4	146 E	61	48
532281 2013 QD_{28}									
10 28	4 16.86	+ 7 44.7	1.488	2.391	12.6	21.8	148 W	53	56
11 2	4 12.40	+ 7 15.8	1.475	2.404	10.6	21.7	154 W	52	57
11 7	4 7.43	+ 6 48.7	1.468	2.418	8.6	21.6	159 W	52	57
11 12	4 2.08	+ 6 24.0	1.467	2.431	6.9	21.6	163 W	51	58
11 17	3 56.52	+ 6 2.4	1.474	2.444	5.8	21.5	166 W	51	58
11 22	3 50.92	+ 5 44.6	1.487	2.456	5.7	21.6	166 W	51	58
11 27	3 45.45	+ 5 31.1	1.508	2.469	6.7	21.7	163 E	51	58
12 2	3 40.28	+ 5 22.0	1.535	2.481	8.2	21.8	159 E	50	59
12 7	3 35.53	+ 5 17.7	1.569	2.493	9.9	21.9	154 E	50	59
12 12	3 31.32	+ 5 18.0	1.609	2.505	11.7	22.0	149 E	50	59
12 17	3 27.73	+ 5 22.9	1.655	2.516	13.4	22.2	144 E	50	59
12 22	3 24.84	+ 5 32.2	1.707	2.528	15.0	22.3	138 E	51	58
524810 2003 WU_{194}									
10 28	4 28.36	+29 14.6	1.301	2.185	15.5	21.5	144 W	74	35
11 2	4 23.59	+29 23.6	1.284	2.200	13.1	21.4	150 W	74	35
11 7	4 18.05	+29 28.3	1.274	2.215	10.6	21.3	156 W	74	35
11 12	4 11.92	+29 28.6	1.269	2.229	8.1	21.2	161 W	74	35
11 17	4 5.40	+29 24.2	1.270	2.244	5.8	21.1	167 W	74	35
11 22	3 58.75	+29 15.4	1.279	2.259	4.1	21.1	171 W	74	35
11 27	3 52.19	+29 2.7	1.294	2.274	3.9	21.1	171 E	74	35
12 2	3 45.97	+28 46.7	1.316	2.288	5.4	21.2	167 E	74	35
12 7	3 40.27	+28 28.4	1.345	2.302	7.5	21.4	162 E	73	36
12 12	3 35.25	+28 8.8	1.380	2.316	9.7	21.6	157 E	73	36
12 17	3 31.04	+27 48.8	1.421	2.331	11.9	21.7	151 E	73	36
12 22	3 27.71	+27 29.5	1.468	2.344	13.8	21.9	145 E	72	37
524678 2003 TA									
10 28	4 30.30	+ 0 46.1	1.849	2.710	12.7	21.9	143 W	46	63
11 2	4 26.38	− 0 17.0	1.841	2.729	11.3	21.8	147 W	45	64
11 7	4 22.02	− 1 17.1	1.838	2.748	10.0	21.8	151 W	44	65
11 12	4 17.31	− 2 13.0	1.843	2.767	9.0	21.7	154 W	43	66
11 17	4 12.40	− 3 3.9	1.855	2.786	8.4	21.7	156 W	42	67
11 22	4 7.40	− 3 48.8	1.874	2.804	8.3	21.8	156 W	41	68
11 27	4 2.45	− 4 27.2	1.900	2.822	8.7	21.8	154 E	41	68
12 2	3 57.69	− 4 58.8	1.933	2.840	9.5	21.9	152 E	40	69
12 7	3 53.21	− 5 23.4	1.973	2.858	10.5	22.0	148 E	40	69
12 12	3 49.13	− 5 41.0	2.019	2.875	11.6	22.1	144 E	39	70
12 17	3 45.51	− 5 52.0	2.071	2.893	12.7	22.2	140 E	39	70
12 22	3 42.43	− 5 56.6	2.129	2.910	13.8	22.4	135 E	39	70
539085 2016 NC_{21}									
10 28	4 34.81	+13 42.2	1.659	2.536	13.1	22.0	145 W	59	50
11 7	4 25.75	+13 22.5	1.624	2.564	8.9	21.8	156 W	58	51
11 17	4 14.85	+13 5.0	1.616	2.591	4.7	21.6	168 W	58	51
11 27	4 3.30	+12 52.2	1.637	2.617	3.2	21.6	172 E	58	51
12 7	3 52.39	+12 46.6	1.687	2.642	6.6	21.8	162 E	58	51
12 17	3 43.23	+12 50.0	1.765	2.666	10.4	22.1	151 E	58	51
537467 2015 ME_{54}									
11 7	3 52.82	− 1 35.0	0.946	1.896	12.2	22.3	156 W	43	66
11 12	3 45.15	− 1 49.2	0.921	1.878	11.1	22.2	159 W	43	66
11 17	3 36.85	− 1 55.8	0.902	1.859	11.0	22.1	159 W	43	66
11 22	3 28.21	− 1 53.5	0.889	1.840	11.9	22.1	157 E	43	66
11 27	3 19.54	− 1 41.6	0.882	1.821	13.8	22.1	154 E	43	66
12 2	3 11.15	− 1 19.9	0.881	1.801	16.2	22.2	149 E	44	65
12 7	3 3.33	− 0 48.5	0.886	1.780	18.9	22.3	144 E	44	65
12 12	2 56.33	− 0 8.0	0.895	1.759	21.7	22.3	139 E	45	64
12 17	2 50.35	+ 0 40.9	0.909	1.738	24.4	22.4	133 E	46	63

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
			538657 2016 FG_{12}						
	h m	° ′			°	m	°	°	°
11 7	4 13.36	+25 31.2	1.926	2.870	7.3	23.4	158 W	71	38
11 12	4 7.65	+25 22.0	1.909	2.875	5.3	23.3	164 W	70	39
11 17	4 1.65	+25 10.2	1.899	2.879	3.3	23.2	170 W	70	39
11 22	3 55.50	+24 55.9	1.897	2.882	1.7	23.1	175 W	70	39
11 27	3 49.37	+24 39.7	1.903	2.886	2.1	23.1	174 E	70	39
12 2	3 43.42	+24 22.0	1.917	2.889	4.0	23.3	168 E	69	40
12 7	3 37.80	+24 3.3	1.938	2.892	6.0	23.4	162 E	69	40
12 12	3 32.62	+23 44.4	1.966	2.894	7.9	23.5	156 E	69	40
			527311 2007 TA_{394}						
11 7	5 10.10	+21 3.2	1.326	2.219	14.3	21.6	146 W	66	43
11 17	5 0.43	+20 29.8	1.295	2.245	9.2	21.3	159 W	65	44
11 27	4 48.67	+19 52.8	1.289	2.270	3.8	21.1	171 W	65	44
12 7	4 36.39	+19 15.3	1.311	2.294	2.4	21.1	175 E	64	45
12 17	4 25.19	+18 41.1	1.361	2.317	7.5	21.4	162 E	64	45
12 27	4 16.43	+18 14.5	1.437	2.340	12.2	21.8	150 E	63	46
			523950 1998 SZ_{27}						
11 7	12 53.31	−10 59.4	1.219	0.589	53.6	21.4	29 W	16*	17*
11 12	13 29.17	−11 48.4	1.242	0.540	50.4	21.2	25 W	14*	13*
11 17	14 6.62	−12 30.9	1.272	0.498	45.4	20.9	21 W	12*	9*
11 22	14 45.44	−13 8.8	1.308	0.466	38.6	20.7	17 W	10*	5*
11 27	15 25.24	−13 44.1	1.347	0.449	30.5	20.4	13 W	7*	—
12 2	16 5.30	−14 17.9	1.385	0.450	22.7	20.3	10 W	4*	—
12 7	16 44.78	−14 49.0	1.422	0.469	17.3	20.2	8 W	1*	—
12 12	17 22.91	−15 14.9	1.459	0.502	15.7	20.4	8 E	1*	—
12 17	17 59.17	−15 32.8	1.495	0.546	16.6	20.6	9 E	3*	—
12 22	18 33.32	−15 40.8	1.532	0.595	18.1	20.9	11 E	5*	—
12 27	19 5.29	−15 38.4	1.572	0.648	19.2	21.2	12 E	6*	—
1 1	19 35.14	−15 25.9	1.614	0.701	19.7	21.5	14 E	7*	1*
			525484 2005 GL						
11 7	19 39.21	−34 44.3	0.190	0.932	102.6	21.2	67 E	10*	61*
11 9	20 1.93	−31 15.0	0.184	0.943	99.7	21.0	70 E	14*	64*
11 11	20 23.86	−27 19.6	0.180	0.954	96.4	20.8	73 E	18*	67*
11 13	20 44.78	−23 3.8	0.177	0.964	93.0	20.7	77 E	22	69*
11 15	21 4.52	−18 35.4	0.177	0.975	89.3	20.5	80 E	26	69*
11 17	21 23.00	−14 2.5	0.179	0.986	85.7	20.4	84 E	31	69*
11 18	21 31.77	−11 47.0	0.181	0.991	83.9	20.4	86 E	33	68*
11 19	21 40.21	− 9 33.3	0.183	0.997	82.1	20.4	87 E	35	67*
11 20	21 48.35	− 7 22.2	0.186	1.002	80.4	20.4	89 E	38	66*
11 21	21 56.19	− 5 14.3	0.189	1.007	78.7	20.3	90 E	40	65*
11 22	22 3.73	− 3 10.3	0.192	1.013	77.1	20.3	92 E	42	63*
11 23	22 10.99	− 1 10.5	0.196	1.018	75.6	20.3	93 E	44	62*
11 24	22 17.99	+ 0 44.8	0.200	1.023	74.1	20.3	95 E	46	60*
11 25	22 24.72	+ 2 35.4	0.204	1.028	72.7	20.4	96 E	48	59*
11 26	22 31.20	+ 4 21.1	0.209	1.034	71.4	20.4	97 E	49	57*
11 27	22 37.46	+ 6 1.9	0.214	1.039	70.1	20.4	98 E	51	56*
12 2	23 5.63	+13 15.9	0.244	1.065	64.8	20.6	102 E	58	49*
12 7	23 29.68	+18 48.0	0.278	1.090	60.9	20.8	105 E	64	44*
12 12	23 50.76	+23 2.4	0.315	1.114	58.1	21.0	106 E	68	40*
12 17	0 9.74	+26 20.0	0.355	1.137	56.0	21.3	107 E	71	36*
			527604 2007 VL_{305}						
11 17	4 19.62	− 2 59.4	27.329	28.227	0.9	22.7	155 W	42	67
11 27	4 18.46	− 3 4.1	27.325	28.228	0.8	22.7	156 W	42	67
12 7	4 17.30	− 3 7.2	27.350	28.229	0.9	22.7	153 E	42	67
12 17	4 16.19	− 3 8.7	27.402	28.230	1.1	22.7	147 E	42	67
12 27	4 15.16	− 3 8.5	27.480	28.230	1.3	22.7	139 E	42	67
			528858 2009 CB_{2}						
11 17	5 0.72	−42 49.9	1.507	2.120	25.1	22.8	115 W	2	73
11 22	4 53.99	−43 6.5	1.500	2.117	25.0	22.8	115 W	2	73
11 27	4 46.81	−43 7.9	1.496	2.114	25.0	22.8	115 W	2	73
12 2	4 39.43	−42 53.7	1.494	2.111	25.0	22.7	115 W	2	73
12 7	4 32.10	−42 23.5	1.494	2.107	25.1	22.7	115 E	3	74
12 12	4 25.06	−41 37.6	1.498	2.103	25.3	22.8	114 E	3	74
12 17	4 18.53	−40 36.5	1.504	2.098	25.5	22.8	113 E	4	75
12 22	4 12.71	−39 21.3	1.513	2.094	25.8	22.8	112 E	6	77
			527141 2007 TV_{62}						
11 17	5 39.45	+29 59.4	1.421	2.323	12.8	21.3	149 W	75	34
11 22	5 33.97	+30 9.6	1.405	2.337	10.4	21.2	155 W	75	34
11 27	5 27.85	+30 16.8	1.396	2.350	8.0	21.1	161 W	75	34
12 2	5 21.26	+30 20.6	1.394	2.363	5.6	21.0	166 W	75	34
12 7	5 14.42	+30 20.8	1.398	2.376	3.7	21.0	171 W	75	34
12 12	5 7.54	+30 17.4	1.410	2.389	3.1	20.9	172 E	75	34
12 17	5 0.87	+30 10.5	1.429	2.402	4.5	21.1	169 E	75	34
12 22	4 54.63	+30 0.8	1.454	2.415	6.5	21.2	164 E	75	34
12 27	4 48.99	+29 49.0	1.487	2.427	8.8	21.4	158 E	75	34

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
			527141 2007 TV_{62} *(continuation)*						
	h m	° ′			°	m	°	°	°
1 1	4 44.10	+29 35.8	1.526	2.439	10.9	21.5	152 E	75	34
1 6	4 40.04	+29 21.9	1.571	2.451	12.9	21.7	146 E	74	35
			527188 2007 TD_{140}						
11 17	5 55.39	+ 4 16.8	2.074	2.914	12.2	21.4	142 W	49	60
11 22	5 51.22	+ 3 29.2	2.058	2.931	10.8	21.4	146 W	48	61
11 27	5 46.62	+ 2 44.6	2.048	2.948	9.5	21.3	151 W	48	61
12 2	5 41.70	+ 2 3.5	2.046	2.964	8.4	21.3	154 W	47	62
12 7	5 36.56	+ 1 26.7	2.051	2.981	7.6	21.3	157 W	46	63
12 12	5 31.33	+ 0 54.4	2.063	2.997	7.2	21.3	158 W	46	63
12 17	5 26.13	+ 0 27.3	2.083	3.013	7.4	21.3	157 E	45	64
12 22	5 21.09	+ 0 5.4	2.110	3.029	8.0	21.4	155 E	45	64
12 27	5 16.33	− 0 11.1	2.144	3.044	8.9	21.5	151 E	45	64
1 1	5 11.94	− 0 22.5	2.185	3.060	10.0	21.6	147 E	45	64
1 6	5 8.00	− 0 28.9	2.233	3.075	11.1	21.7	143 E	45	64
1 11	5 4.57	− 0 30.7	2.286	3.090	12.3	21.8	138 E	44	65
			532430 2013 SL						
11 17	6 8.69	+55 7.0	1.678	2.461	17.1	22.0	133 W	80	9
11 22	6 2.22	+56 2.1	1.659	2.471	16.0	21.9	137 W	79	8
11 27	5 54.42	+56 49.8	1.646	2.481	14.9	21.9	140 W	78	7
12 2	5 45.46	+57 28.4	1.638	2.491	14.1	21.9	142 W	78	7
12 7	5 35.64	+57 56.5	1.636	2.500	13.4	21.8	144 W	77	6
12 12	5 25.30	+58 13.2	1.640	2.510	13.1	21.8	145 W	77	6
12 17	5 14.88	+58 17.9	1.650	2.519	13.0	21.9	145 E	77	6
12 22	5 4.82	+58 11.0	1.666	2.528	13.3	21.9	144 E	77	6
12 27	4 55.52	+57 53.5	1.688	2.536	13.8	21.9	142 E	77	6
1 1	4 47.29	+57 27.1	1.716	2.545	14.5	22.0	139 E	78	7
1 6	4 40.34	+56 53.2	1.749	2.553	15.4	22.1	136 E	78	7
1 11	4 34.79	+56 13.9	1.787	2.561	16.3	22.2	133 E	79	8
			529879 2010 SN_{10}						
11 17	6 32.22	+28 46.6	1.342	2.175	17.9	21.5	137 W	74	35
11 27	6 23.53	+28 48.1	1.302	2.209	13.2	21.3	149 W	74	35
12 7	6 11.64	+28 42.1	1.285	2.242	7.9	21.1	162 W	74	35
12 17	5 58.00	+28 25.5	1.294	2.274	2.9	20.8	173 W	73	36
12 27	5 44.53	+27 58.2	1.331	2.306	4.2	21.0	170 E	73	36
1 6	5 32.97	+27 23.6	1.396	2.337	9.1	21.4	158 E	72	37
1 16	5 24.53	+26 46.9	1.486	2.368	13.4	21.7	146 E	72	37
			532112 2013 LW_{1}						
11 17	8 36.66	+11 20.9	1.284	1.825	31.4	21.5	106 W	56	52*
11 27	8 42.90	+ 8 40.9	1.168	1.807	30.0	21.2	114 W	54	55
12 7	8 45.61	+ 5 51.5	1.058	1.788	27.8	20.9	122 W	51	58
12 17	8 44.14	+ 2 55.5	0.960	1.768	24.9	20.6	131 W	48	61
12 27	8 38.00	− 0 1.2	0.876	1.747	21.3	20.3	140 W	45	64
1 1	8 33.13	− 1 26.9	0.840	1.736	19.4	20.1	144 W	44	65
1 6	8 27.12	− 2 48.7	0.809	1.724	17.5	19.9	148 W	42	67
1 11	8 20.08	− 4 4.6	0.784	1.713	16.0	19.8	151 W	41	68
1 16	8 12.20	− 5 12.6	0.764	1.701	15.1	19.7	153 W	40	69
1 21	8 3.78	− 6 10.8	0.749	1.689	14.9	19.6	154 E	39	70
1 26	7 55.14	− 6 57.8	0.740	1.677	15.7	19.6	153 E	38	71
1 31	7 46.63	− 7 32.8	0.737	1.664	17.2	19.7	150 E	37	72
2 5	7 38.59	− 7 55.7	0.738	1.652	19.3	19.7	146 E	37	72
2 10	7 31.33	− 8 6.9	0.744	1.639	21.7	19.8	142 E	37	72
2 15	7 25.13	− 8 7.4	0.754	1.626	24.2	19.9	138 E	37	72
2 20	7 20.18	− 7 59.0	0.768	1.613	26.7	20.0	133 E	37	72
2 25	7 16.58	− 7 43.4	0.784	1.600	29.0	20.1	128 E	37	72
3 2	7 14.38	− 7 22.5	0.803	1.586	31.2	20.2	124 E	38	71
3 7	7 13.56	− 6 57.8	0.823	1.573	33.2	20.3	120 E	38	71
3 12	7 14.08	− 6 30.7	0.845	1.560	35.0	20.3	116 E	38	71
3 17	7 15.90	− 6 2.5	0.868	1.546	36.6	20.4	112 E	39	70
3 22	7 18.95	− 5 34.3	0.891	1.533	38.0	20.5	109 E	39	70
3 27	7 23.12	− 5 7.1	0.914	1.520	39.3	20.6	105 E	40	69
4 1	7 28.33	− 4 41.6	0.938	1.507	40.4	20.6	102 E	40*	69
4 6	7 34.51	− 4 18.2	0.961	1.494	41.4	20.7	99 E	40*	68
4 11	7 41.58	− 3 57.4	0.983	1.481	42.3	20.8	96 E	40*	68
4 16	7 49.48	− 3 39.6	1.005	1.468	43.0	20.8	94 E	39*	68
4 21	7 58.15	− 3 25.1	1.026	1.455	43.7	20.9	92 E	38*	67*
4 26	8 7.52	− 3 14.3	1.047	1.443	44.2	20.9	89 E	37*	67*
5 1	8 17.54	− 3 7.1	1.066	1.431	44.7	20.9	87 E	36*	67*
5 6	8 28.16	− 3 3.7	1.085	1.419	45.1	21.0	85 E	34*	67*
5 11	8 39.36	− 3 4.1	1.104	1.407	45.5	21.0	83 E	32*	66*
5 16	8 51.08	− 3 8.5	1.121	1.396	45.8	21.0	82 E	30*	66*
5 21	9 3.30	− 3 16.8	1.138	1.386	46.0	21.0	80 E	28*	66*
5 26	9 15.98	− 3 28.9	1.154	1.376	46.2	21.1	79 E	26*	65*
5 31	9 29.07	− 3 44.8	1.170	1.366	46.3	21.1	77 E	24*	65*
6 5	9 42.57	− 4 4.3	1.186	1.357	46.4	21.1	76 E	22*	65*
6 10	9 56.44	− 4 27.2	1.201	1.348	46.5	21.1	74 E	21*	64*
6 15	10 10.67	− 4 53.3	1.216	1.341	46.5	21.1	73 E	19*	64*
6 20	10 25.23	− 5 22.6	1.231	1.333	46.5	21.1	72 E	17*	64*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
532112 2013 LW_1									
	h m	° ′			°	m	°	°	°
6 25	10 40.08	− 5 54.5	1.246	1.327	46.4	21.2	71 E	16*	63*
6 30	10 55.21	− 6 28.7	1.261	1.321	46.3	21.2	70 E	15*	62*
7 5	11 10.59	− 7 5.0	1.276	1.316	46.2	21.2	69 E	14*	62*
7 10	11 26.23	− 7 43.0	1.292	1.312	46.0	21.2	68 E	13*	61*
7 15	11 42.08	− 8 22.3	1.308	1.308	45.7	21.2	67 E	13*	61*
7 20	11 58.14	− 9 2.6	1.325	1.305	45.4	21.2	66 E	12*	60*
7 25	12 14.37	− 9 43.2	1.343	1.304	45.1	21.2	65 E	12*	59*
7 30	12 30.75	−10 23.8	1.361	1.302	44.7	21.3	65 E	12*	58*
8 4	12 47.29	−11 4.0	1.380	1.302	44.3	21.3	64 E	12*	58*
8 9	13 3.95	−11 43.4	1.400	1.303	43.9	21.3	63 E	12*	57*
8 14	13 20.71	−12 21.5	1.421	1.304	43.4	21.3	62 E	13*	56*
8 19	13 37.57	−12 58.0	1.443	1.307	42.8	21.3	61 E	13*	55*
8 24	13 54.49	−13 32.4	1.465	1.310	42.3	21.4	61 E	13*	55*
8 29	14 11.46	−14 4.3	1.489	1.314	41.7	21.4	60 E	14*	54*
9 3	14 28.47	−14 33.5	1.514	1.319	41.0	21.4	59 E	14*	53*
9 8	14 45.50	−14 59.7	1.539	1.324	40.3	21.4	58 E	15*	52*
9 13	15 2.52	−15 22.5	1.566	1.330	39.6	21.5	57 E	16*	51*
9 18	15 19.53	−15 41.8	1.593	1.337	38.9	21.5	57 E	16*	50*
530938 2011 XE									
11 17	22 39.32	−56 0.7	0.091	0.983	91.1	17.3	84 E	—	60
11 18	23 7.23	−54 8.8	0.098	0.989	87.1	17.3	87 E	—	62
11 19	23 29.36	−52 13.5	0.105	0.995	83.6	17.3	90 E	—	64
11 20	23 47.06	−50 21.5	0.112	1.000	80.6	17.4	93 E	—	66
11 21	0 1.40	−48 35.8	0.120	1.006	78.0	17.4	95 E	—	67
11 22	0 13.19	−46 57.7	0.128	1.011	75.8	17.5	97 E	—	69
11 23	0 23.02	−45 27.3	0.136	1.017	73.8	17.6	99 E	—	71
11 24	0 31.34	−44 4.4	0.145	1.022	72.1	17.7	100 E	1	72
11 25	0 38.46	−42 48.4	0.153	1.027	70.7	17.8	101 E	2	73
11 26	0 44.64	−41 38.5	0.162	1.032	69.4	17.9	102 E	3	74
11 27	0 50.04	−40 34.2	0.171	1.037	68.2	17.9	103 E	4	75
11 28	0 54.83	−39 34.9	0.179	1.042	67.2	18.0	103 E	5	76
11 29	0 59.10	−38 39.9	0.188	1.047	66.3	18.1	104 E	6	77
11 30	1 2.95	−37 48.7	0.197	1.051	65.5	18.2	104 E	7	78
12 1	1 6.44	−37 1.0	0.206	1.056	64.8	18.3	104 E	8	79
12 2	1 9.63	−36 16.3	0.215	1.060	64.2	18.4	104 E	9	80
12 3	1 12.56	−35 34.4	0.224	1.064	63.6	18.4	105 E	9	80
12 4	1 15.28	−34 54.8	0.232	1.069	63.1	18.5	105 E	10	81
12 5	1 17.81	−34 17.3	0.241	1.073	62.7	18.6	105 E	11	82
12 6	1 20.18	−33 41.8	0.250	1.077	62.3	18.7	105 E	11	82
12 7	1 22.40	−33 7.9	0.259	1.080	61.9	18.7	105 E	12	83
12 9	1 26.52	−32 4.7	0.277	1.088	61.3	18.9	104 E	13	84
12 11	1 30.26	−31 6.4	0.295	1.095	60.7	19.0	104 E	14	85
12 13	1 33.73	−30 12.1	0.313	1.101	60.3	19.1	104 E	15	86
12 15	1 36.99	−29 21.2	0.331	1.107	60.0	19.3	103 E	16	87
12 17	1 40.09	−28 33.1	0.348	1.113	59.7	19.4	103 E	16	87
12 22	1 47.35	−26 42.3	0.392	1.125	59.2	19.6	101 E	18	89
12 27	1 54.21	−25 1.6	0.434	1.134	58.9	19.9	99 E	20	89
1 1	2 0.89	−23 28.2	0.476	1.141	58.8	20.1	97 E	22	87*
1 6	2 7.51	−21 59.8	0.516	1.145	58.9	20.3	94 E	23	84*
1 11	2 14.18	−20 35.3	0.555	1.147	59.0	20.4	92 E	24	81*
1 16	2 20.96	−19 13.7	0.591	1.146	59.1	20.6	90 E	26	78*
1 21	2 27.88	−17 54.6	0.626	1.143	59.4	20.7	87 E	27	75*
1 26	2 34.95	−16 37.8	0.658	1.136	59.7	20.8	85 E	28	72*
1 31	2 42.17	−15 23.0	0.688	1.128	60.1	20.9	83 E	30	69*
2 5	2 49.53	−14 9.8	0.714	1.116	60.6	21.0	80 E	31	67*
2 10	2 57.03	−12 58.0	0.738	1.102	61.1	21.0	78 E	32*	64*
2 15	3 4.68	−11 47.4	0.758	1.085	61.8	21.1	76 E	33*	62*
2 20	3 12.45	−10 38.0	0.774	1.066	62.7	21.1	73 E	33*	60*
2 25	3 20.30	− 9 29.5	0.786	1.043	63.7	21.1	71 E	33*	58*
3 2	3 28.19	− 8 21.7	0.794	1.018	64.9	21.1	69 E	33*	56*
3 7	3 36.07	− 7 14.0	0.798	0.990	66.4	21.1	66 E	33*	54*
3 12	3 43.88	− 6 5.9	0.796	0.960	68.2	21.1	64 E	32*	52*
3 17	3 51.53	− 4 56.8	0.790	0.926	70.4	21.1	61 E	31*	50*
3 22	3 58.86	− 3 45.5	0.778	0.890	73.0	21.1	59 E	29*	47*
3 27	4 5.66	− 2 30.8	0.761	0.850	76.3	21.0	56 E	28*	45*
4 1	4 11.62	− 1 10.5	0.738	0.808	80.4	21.0	53 E	26*	43*
4 6	4 16.32	+ 0 18.6	0.710	0.763	85.5	21.0	49 E	24*	40*
4 11	4 19.07	+ 2 1.1	0.676	0.716	92.1	21.0	46 E	21*	36*
4 16	4 18.89	+ 4 3.1	0.639	0.666	100.5	21.1	41 E	18*	32*
4 21	4 14.31	+ 6 32.7	0.601	0.616	111.4	21.4	35 E	14*	27*
525477 2005 FC_3									
11 27	5 12.30	+ 8 42.8	2.151	3.100	6.0	23.9	161 W	54	55
12 7	5 0.49	+ 8 20.3	2.124	3.088	4.5	23.8	166 W	53	56
12 17	4 48.49	+ 8 7.9	2.129	3.074	6.1	23.9	161 E	53	56
12 27	4 37.37	+ 8 7.0	2.165	3.058	9.1	24.0	150 E	53	56
1 6	4 28.00	+ 8 17.7	2.228	3.041	12.2	24.2	139 E	53	56

(continuation)

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
524498 2002 RT_{112}									
	h m	° ′			°	m	°	°	°
11 27	5 14.25	+27 40.2	2.561	3.521	4.3	23.3	164 W	73	36
12 2	5 8.99	+27 33.6	2.561	3.537	2.7	23.2	170 W	73	36
12 7	5 3.64	+27 25.3	2.569	3.552	1.4	23.1	175 W	72	37
12 12	4 58.33	+27 15.5	2.586	3.566	1.6	23.1	174 E	72	37
12 17	4 53.17	+27 4.5	2.610	3.581	3.0	23.3	169 E	72	37
12 22	4 48.28	+26 52.4	2.642	3.595	4.6	23.4	163 E	72	37
12 27	4 43.74	+26 39.8	2.682	3.609	6.1	23.5	157 E	72	37
524943 2004 HY_{26}									
11 27	5 15.52	+31 38.2	2.260	3.214	5.4	23.2	162 W	77	32
12 2	5 9.54	+31 44.4	2.258	3.227	3.8	23.2	167 W	77	32
12 7	5 3.42	+31 47.7	2.264	3.240	2.8	23.1	171 W	77	32
12 12	4 57.32	+31 48.0	2.277	3.252	2.9	23.2	170 E	77	32
12 17	4 51.38	+31 45.6	2.299	3.264	4.0	23.2	166 E	77	32
12 22	4 45.75	+31 40.8	2.329	3.276	5.5	23.4	161 E	77	32
12 27	4 40.54	+31 34.1	2.366	3.287	7.0	23.5	156 E	77	32
524607 2003 QB_{89}									
11 27	5 55.37	+17 57.0	1.604	2.535	9.3	22.5	155 W	63	46
12 7	5 44.30	+17 50.9	1.587	2.558	4.8	22.3	168 W	63	46
12 17	5 32.33	+17 47.7	1.599	2.580	2.2	22.1	174 E	63	46
12 27	5 20.89	+17 47.9	1.641	2.602	5.9	22.4	164 E	63	46
1 6	5 11.20	+17 52.2	1.711	2.622	10.0	22.7	152 E	63	46
531221 2012 HL_{82}									
11 27	6 28.65	+40 46.4	1.899	2.766	11.8	22.2	145 W	86	23
12 2	6 22.73	+41 32.7	1.882	2.779	10.3	22.1	150 W	87	22
12 7	6 16.08	+42 14.8	1.871	2.791	8.9	22.1	154 W	87	22
12 12	6 8.85	+42 51.8	1.868	2.803	7.7	22.0	157 W	88	21
12 17	6 1.22	+43 22.5	1.872	2.814	7.0	22.0	159 W	88	21
12 22	5 53.43	+43 46.5	1.883	2.826	7.0	22.0	160 E	89	20
12 27	5 45.73	+44 3.6	1.902	2.837	7.5	22.1	158 E	89	20
1 1	5 38.33	+44 14.0	1.928	2.848	8.5	22.2	155 E	89	20
1 6	5 31.44	+44 18.2	1.961	2.859	9.7	22.3	151 E	89	20
1 11	5 25.23	+44 16.8	2.000	2.869	11.1	22.4	146 E	89	20
1 16	5 19.85	+44 10.8	2.046	2.879	12.4	22.5	141 E	89	20
529262 2009 UG_{25}									
11 27	6 38.30	+17 33.1	1.710	2.583	12.5	22.0	145 W	63	46
12 7	6 29.02	+17 22.0	1.675	2.612	8.4	21.8	157 W	62	47
12 17	6 17.98	+17 15.3	1.667	2.640	4.1	21.6	169 W	62	47
12 27	6 6.40	+17 12.9	1.688	2.667	2.7	21.6	173 E	62	47
1 6	5 55.58	+17 14.4	1.740	2.693	6.4	21.8	162 E	62	47
1 16	5 46.62	+17 19.9	1.819	2.718	10.3	22.1	150 E	62	47
537698 2015 TW									
11 27	6 54.89	+ 0 12.3	1.082	1.912	21.4	21.7	135 W	45	64
12 2	6 51.34	+ 0 9.0	1.052	1.915	19.3	21.6	140 W	45	64
12 7	6 46.83	+ 0 13.6	1.027	1.918	17.2	21.5	145 W	45	64
12 12	6 41.46	+ 0 27.0	1.007	1.922	15.1	21.4	149 W	45	64
12 17	6 35.39	+ 0 49.6	0.992	1.924	13.1	21.3	154 W	46	63
12 22	6 28.83	+ 1 21.7	0.983	1.927	11.5	21.2	157 W	46	63
12 27	6 22.02	+ 2 2.8	0.980	1.930	10.7	21.2	159 E	47	62
1 1	6 15.22	+ 2 52.3	0.983	1.932	10.7	21.2	159 E	48	61
1 6	6 8.67	+ 3 48.8	0.992	1.934	11.7	21.2	156 E	49	60
1 11	6 2.61	+ 4 51.2	1.008	1.936	13.4	21.3	153 E	50	59
1 16	5 57.27	+ 5 57.7	1.029	1.938	15.3	21.4	149 E	51	58
1 21	5 52.79	+ 7 7.0	1.056	1.939	17.4	21.6	144 E	52	57
537829 2015 XY_{378}									
11 27	13 55.33	− 7 31.9	1.173	0.684	57.1	21.3	36 W	25*	18*
12 2	14 24.40	−11 27.5	1.174	0.631	57.1	21.1	33 W	21*	17*
12 7	14 56.18	−15 22.4	1.183	0.575	56.0	20.9	29 W	17*	16*
12 12	15 31.23	−19 7.0	1.202	0.518	53.3	20.6	25 W	12*	14*
12 17	16 10.13	−22 28.2	1.230	0.462	48.2	20.3	20 W	8*	12*
12 19	16 26.88	−23 38.2	1.243	0.441	45.3	20.1	19 W	6*	11*
12 21	16 44.32	−24 40.5	1.257	0.422	41.8	20.0	17 W	4*	9*
12 23	17 2.46	−25 33.4	1.272	0.404	37.7	19.8	15 W	2*	8*
12 25	17 21.23	−26 15.6	1.286	0.389	33.0	19.6	12 W	—	6*
12 27	17 40.55	−26 45.6	1.300	0.377	27.9	19.4	10 W	—	4*
12 29	18 0.28	−27 2.2	1.313	0.368	22.4	19.2	8 W	—	2*
12 31	18 20.25	−27 4.6	1.325	0.363	17.0	19.0	6 W	—	—
1 2	18 40.24	−26 52.5	1.335	0.363	12.3	18.9	5 W	—	—
1 4	19 0.02	−26 26.1	1.343	0.367	9.9	18.8	4 E	—	—
1 6	19 19.40	−25 46.4	1.349	0.376	11.1	18.9	4 E	—	—
1 8	19 38.19	−24 54.8	1.354	0.388	14.5	19.1	6 E	—	—
1 10	19 56.29	−23 52.9	1.357	0.403	18.4	19.3	7 E	—	1*
1 12	20 13.64	−22 42.4	1.360	0.420	22.2	19.6	9 E	—	3*
1 14	20 30.19	−21 25.0	1.362	0.440	25.6	19.8	11 E	1*	4*
1 16	20 45.98	−20 2.1	1.364	0.460	28.5	19.9	13 E	3*	5*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
					(continuation)				
	537829 2015 XY_{378}								
	h m	° ′			°	m	°	°	°
1 18	21 1.02	−18 35.2	1.366	0.482	30.9	20.1	15 E	5*	6*
1 20	21 15.35	−17 5.4	1.368	0.505	33.0	20.3	16 E	7*	7*
1 22	21 29.03	−15 33.6	1.371	0.527	34.7	20.4	18 E	9*	7*
1 24	21 42.10	−14 0.7	1.375	0.550	36.0	20.6	19 E	10*	8*
1 26	21 54.61	−12 27.3	1.379	0.573	37.1	20.7	21 E	12*	9*
1 31	22 23.75	− 8 35.1	1.394	0.629	38.8	21.0	24 E	15*	10*
2 5	22 50.35	− 4 49.7	1.412	0.683	39.5	21.2	26 E	18*	10*
2 10	23 14.93	− 1 14.6	1.436	0.733	39.5	21.4	28 E	21*	10*
2 15	23 37.90	+ 2 8.2	1.462	0.779	39.1	21.5	30 E	23*	10*
	528857 2009 CT								
12 7	5 54.30	+24 34.5	1.986	2.952	4.5	23.8	166 W	70	39
12 12	5 47.29	+24 30.0	1.963	2.942	2.4	23.7	173 W	70	39
12 17	5 40.04	+24 23.9	1.948	2.932	0.4	23.5	179 W	69	40
12 22	5 32.72	+24 16.2	1.941	2.921	2.2	23.6	173 E	69	40
12 27	5 25.52	+24 7.0	1.943	2.909	4.5	23.8	167 E	69	40
1 1	5 18.59	+23 56.7	1.953	2.897	6.7	23.9	160 E	69	40
1 6	5 12.10	+23 45.5	1.971	2.884	8.8	24.0	153 E	69	40
	523945 1998 RN_1								
12 7	6 5.42	+58 25.1	2.881	3.708	9.4	24.5	142 W	77	6
12 12	5 56.86	+58 30.7	2.883	3.723	9.0	24.5	144 W	76	5
12 17	5 48.12	+58 29.0	2.891	3.738	8.7	24.5	145 W	77	6
12 22	5 39.45	+58 19.9	2.905	3.753	8.7	24.5	145 E	77	6
12 27	5 31.10	+58 3.9	2.927	3.768	8.8	24.5	144 E	77	6
1 1	5 23.27	+57 41.5	2.956	3.782	9.2	24.6	142 E	77	6
1 6	5 16.11	+57 13.4	2.991	3.796	9.6	24.6	140 E	78	7
	526825 2007 CK_{26}								
12 7	6 10.27	−21 12.8	1.765	2.537	16.6	23.1	133 W	24	85
12 12	6 3.88	−21 20.7	1.741	2.527	16.2	23.1	134 W	24	85
12 17	5 57.14	−21 17.8	1.722	2.517	16.0	23.1	135 W	24	85
12 22	5 50.20	−21 3.7	1.708	2.506	16.0	23.0	135 E	24	85
12 27	5 43.27	−20 38.2	1.701	2.495	16.2	23.0	135 E	24	85
1 1	5 36.51	−20 1.5	1.699	2.483	16.6	23.0	134 E	25	84
1 6	5 30.09	−19 14.3	1.703	2.470	17.2	23.0	132 E	26	83
	530743 2011 UA_{131}								
12 7	6 13.24	− 3 24.3	2.998	3.867	7.8	23.6	148 W	42	67
12 17	6 4.27	− 3 52.5	2.993	3.890	6.8	23.5	152 W	41	68
12 27	5 55.13	− 4 4.5	3.017	3.911	6.8	23.6	152 E	41	68
1 6	5 46.48	− 4 0.4	3.071	3.932	7.9	23.7	147 E	41	68
1 16	5 38.89	− 3 41.7	3.153	3.951	9.3	23.8	139 E	41	68
	539090 2016 NA_{33}								
12 7	6 51.33	+21 16.2	1.630	2.547	10.1	21.7	153 W	66	43
12 12	6 46.17	+21 36.9	1.615	2.560	7.8	21.6	159 W	67	42
12 17	6 40.52	+21 58.1	1.607	2.572	5.4	21.5	166 W	67	42
12 22	6 34.54	+22 19.2	1.606	2.584	2.9	21.4	172 W	67	42
12 27	6 28.41	+22 39.7	1.612	2.595	0.5	21.2	179 W	68	41
1 1	6 22.30	+22 59.3	1.626	2.607	2.0	21.4	175 E	68	41
1 6	6 16.41	+23 17.7	1.648	2.618	4.4	21.6	168 E	68	41
1 11	6 10.88	+23 34.7	1.677	2.629	6.7	21.7	162 E	69	40
1 16	6 5.87	+23 50.2	1.713	2.640	8.9	21.9	156 E	69	40
1 21	6 1.49	+24 4.4	1.755	2.650	10.9	22.0	149 E	69	40
1 26	5 57.84	+24 17.4	1.804	2.661	12.7	22.2	144 E	69	40
	539062 2016 MQ								
12 7	7 1.42	+20 59.3	1.627	2.532	11.0	21.9	151 W	66	43
12 12	6 56.23	+21 8.5	1.616	2.551	8.7	21.8	157 W	66	43
12 17	6 50.55	+21 18.0	1.611	2.569	6.3	21.7	163 W	66	43
12 22	6 44.54	+21 27.7	1.614	2.588	3.9	21.6	170 W	66	43
12 27	6 38.39	+21 37.0	1.624	2.606	1.4	21.4	176 W	67	42
1 1	6 32.26	+21 45.9	1.641	2.624	1.3	21.4	177 E	67	42
1 6	6 26.34	+21 54.0	1.667	2.641	3.6	21.7	170 E	67	42
1 11	6 20.77	+22 1.3	1.699	2.659	5.8	21.8	164 E	67	42
1 16	6 15.71	+22 7.9	1.739	2.676	8.0	22.0	158 E	67	42
1 21	6 11.27	+22 13.8	1.785	2.693	10.0	22.2	152 E	67	42
1 26	6 7.53	+22 19.2	1.838	2.709	11.8	22.3	146 E	67	42
	543248 2013 VG_9								
12 7	7 5.96	+20 12.8	1.664	2.562	11.3	21.9	150 W	65	44
12 17	6 56.03	+20 49.9	1.627	2.581	6.8	21.7	162 W	66	43
12 27	6 44.41	+21 29.4	1.618	2.599	2.0	21.5	175 W	66	43
1 6	6 32.42	+22 7.4	1.639	2.616	3.1	21.6	172 E	67	42
1 16	6 21.42	+22 41.6	1.689	2.632	7.6	21.9	159 E	68	41
1 26	6 12.60	+23 10.9	1.767	2.647	11.7	22.2	147 E	68	41

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	535221 2014 YN_{44}								
	h m	° ′			°	m	°	°	°
12 7	7 21.96	+22 18.8	1.238	2.128	14.9	21.8	146 W	67	42
12 12	7 15.95	+23 23.0	1.206	2.130	12.2	21.7	153 W	68	41
12 17	7 8.86	+24 30.1	1.181	2.131	9.3	21.5	159 W	70	39
12 22	7 0.86	+25 38.4	1.163	2.132	6.3	21.4	166 W	71	38
12 27	6 52.14	+26 46.1	1.153	2.132	3.4	21.2	173 W	72	37
1 1	6 42.98	+27 51.3	1.150	2.131	2.2	21.1	175 E	73	36
1 6	6 33.67	+28 52.3	1.155	2.130	4.6	21.3	170 E	74	35
1 11	6 24.54	+29 47.9	1.168	2.129	7.6	21.4	163 E	75	34
1 16	6 15.90	+30 37.3	1.188	2.127	10.6	21.6	157 E	76	33
1 21	6 8.05	+31 20.5	1.215	2.125	13.4	21.7	150 E	76	33
1 26	6 1.19	+31 57.6	1.248	2.121	16.1	21.9	143 E	77	32
	539946 2017 HB_5								
12 7	9 23.71	−21 19.8	1.030	1.557	38.4	21.4	101 W	24	85
12 12	9 28.84	−22 39.1	0.995	1.556	38.0	21.3	104 W	22	87
12 17	9 33.21	−23 52.9	0.961	1.555	37.4	21.2	106 W	21	88
12 22	9 36.76	−24 59.9	0.927	1.554	36.8	21.1	109 W	20	89
12 27	9 39.45	−25 58.7	0.893	1.553	36.1	21.0	112 W	19	90
1 1	9 41.22	−26 47.8	0.860	1.553	35.2	20.9	115 W	18	89
1 6	9 42.02	−27 25.5	0.828	1.552	34.1	20.8	118 W	18	89
1 11	9 41.82	−27 49.7	0.797	1.552	32.9	20.6	121 W	17	88
1 16	9 40.61	−27 58.0	0.768	1.552	31.5	20.5	124 W	17	88
1 21	9 38.46	−27 48.1	0.740	1.552	30.0	20.4	128 W	17	88
1 26	9 35.46	−27 17.8	0.714	1.553	28.3	20.3	132 W	18	89
1 31	9 31.76	−26 25.2	0.691	1.554	26.6	20.2	135 W	19	90
2 5	9 27.56	−25 9.0	0.671	1.554	24.7	20.0	139 W	20	89
2 10	9 23.09	−23 28.4	0.654	1.555	23.0	19.9	142 E	22	87
2 15	9 18.65	−21 24.1	0.642	1.557	21.5	19.8	145 E	24	85
2 20	9 14.54	−18 58.2	0.634	1.558	20.4	19.8	147 E	26	83
2 25	9 11.02	−16 14.6	0.631	1.560	19.9	19.8	148 E	29	80
3 2	9 8.31	−13 18.2	0.633	1.562	20.1	19.8	147 E	32	77
3 7	9 6.58	−10 14.5	0.641	1.563	21.0	19.8	146 E	35	74
3 12	9 5.92	− 7 9.1	0.654	1.566	22.5	19.9	143 E	38	71
3 17	9 6.42	− 4 7.5	0.671	1.568	24.3	20.0	140 E	41	68
3 22	9 8.07	− 1 14.3	0.694	1.570	26.2	20.2	136 E	44	65
3 27	9 10.85	+ 1 27.1	0.721	1.573	28.2	20.3	132 E	46	63
4 1	9 14.66	+ 3 54.5	0.752	1.576	30.1	20.5	128 E	49	60
4 6	9 19.43	+ 6 6.8	0.786	1.579	31.8	20.6	124 E	51	58
4 11	9 25.08	+ 8 3.5	0.823	1.582	33.4	20.8	120 E	53	56
4 16	9 31.51	+ 9 44.7	0.863	1.585	34.7	20.9	116 E	55	54
4 21	9 38.65	+11 11.0	0.906	1.588	35.8	21.1	112 E	56	53
4 26	9 46.39	+12 23.2	0.949	1.592	36.7	21.2	109 E	57	52
5 1	9 54.64	+13 22.2	0.995	1.595	37.5	21.3	106 E	58*	51
5 6	10 3.33	+14 9.1	1.041	1.599	38.0	21.4	103 E	58*	50
	538648 2016 FS_6								
12 7	16 9.16	− 6 19.7	1.606	0.755	26.1	21.0	20 W	14*	—
12 12	16 37.10	− 7 44.8	1.531	0.669	27.2	20.7	18 W	12*	—
12 17	17 8.52	− 9 21.1	1.459	0.578	27.6	20.3	16 W	9*	—
12 22	17 44.03	−11 13.1	1.392	0.485	26.9	19.8	13 W	6*	—
12 27	18 24.26	−13 28.6	1.326	0.395	25.2	19.2	10 E	1*	—
12 29	18 41.77	−14 32.3	1.299	0.362	25.0	18.9	9 E	2*	—
12 31	19 0.04	−15 43.1	1.271	0.333	26.2	18.7	9 E	2*	—
1 2	19 18.97	−17 1.9	1.241	0.310	29.7	18.6	9 E	3*	—
1 4	19 38.32	−18 29.1	1.207	0.295	36.0	18.6	10 E	3*	—
1 6	19 57.77	−20 4.0	1.169	0.290	44.4	18.8	12 E	4*	3*
1 8	20 16.98	−21 44.3	1.129	0.296	53.7	19.0	14 E	4*	6*
1 10	20 35.75	−23 26.7	1.088	0.312	62.5	19.3	16 E	3*	9*
1 12	20 54.03	−25 7.8	1.046	0.336	70.0	19.6	19 E	3*	12*
1 14	21 11.94	−26 45.2	1.006	0.365	76.0	19.9	21 E	3*	15*
1 16	21 29.67	−28 16.7	0.968	0.398	80.4	20.1	24 E	3*	17*
1 18	21 47.42	−29 41.0	0.933	0.433	83.5	20.4	26 E	2*	20*
1 20	22 5.35	−30 57.0	0.901	0.470	85.6	20.5	28 E	2*	22*
1 22	22 23.59	−32 3.6	0.872	0.507	86.8	20.7	31 E	2*	25*
1 24	22 42.22	−33 0.0	0.846	0.544	87.3	20.8	34 E	2*	28*
1 26	23 1.27	−33 45.1	0.823	0.581	87.3	20.9	36 E	2*	30*
1 28	23 20.71	−34 18.1	0.803	0.618	86.7	20.9	39 E	3*	33*
1 30	23 40.49	−34 38.1	0.786	0.654	85.8	21.0	41 E	3*	35*
2 1	0 0.49	−34 44.7	0.771	0.689	84.6	21.0	44 E	4*	38*
2 3	0 20.58	−34 37.5	0.760	0.724	83.2	21.0	47 E	5*	41*
2 5	0 40.59	−34 16.5	0.752	0.758	81.5	21.0	50 E	6*	43*
2 7	1 0.35	−33 42.3	0.746	0.792	79.7	21.0	52 E	7*	46*
2 9	1 19.70	−32 55.5	0.743	0.825	77.8	21.1	55 E	8*	49*
2 11	1 38.49	−31 57.3	0.743	0.857	75.8	21.1	57 E	10*	51*
2 13	1 56.61	−30 49.2	0.745	0.889	73.7	21.1	60 E	11*	54*
2 15	2 13.97	−29 32.7	0.751	0.920	71.7	21.1	62 E	13*	56*
2 17	2 30.50	−28 9.6	0.758	0.950	69.6	21.1	64 E	15*	58*
2 19	2 46.18	−26 41.3	0.768	0.980	67.6	21.2	66 E	16*	60*
2 21	3 1.00	−25 9.6	0.780	1.009	65.6	21.2	68 E	18*	62*
2 23	3 14.99	−23 35.9	0.795	1.038	63.7	21.2	70 E	20*	63*
2 25	3 28.16	−22 1.4	0.811	1.066	61.9	21.3	72 E	22*	65*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
					(continuation)				
	h m	° ′			°	m	°	°	°
538648 2016 FS_6									
2 27	3 40.57	−20 27.2	0.830	1.093	60.1	21.3	73 E	23*	66*
3 1	3 52.26	−18 54.2	0.850	1.120	58.5	21.4	75 E	25*	66*
3 3	4 3.28	−17 23.0	0.872	1.147	56.9	21.5	76 E	26*	67*
532233 2013 PT_{69}									
12 17	7 10.61	+17 36.7	1.867	2.803	7.6	23.4	158 W	63	46
12 27	6 59.48	+18 2.3	1.839	2.812	3.5	23.2	170 W	63	46
1 6	6 47.60	+18 30.9	1.841	2.821	2.1	23.1	174 E	64	45
1 16	6 36.18	+19 0.0	1.875	2.828	6.1	23.4	162 E	64	45
1 26	6 26.37	+19 28.2	1.938	2.834	10.0	23.6	150 E	64	45
524603 2003 QA_{31}									
12 17	7 13.31	+ 9 50.9	1.594	2.514	10.0	23.1	154 W	55	54
12 27	6 59.98	+ 9 58.0	1.524	2.485	6.2	22.8	164 W	55	54
1 6	6 45.01	+10 18.6	1.485	2.453	5.3	22.6	167 E	55	54
1 16	6 29.92	+10 51.3	1.478	2.418	8.7	22.8	158 E	56	53
1 26	6 16.35	+11 33.5	1.499	2.381	13.3	22.9	146 E	57	52
524474 2002 KJ_3									
12 17	7 14.74	+29 34.9	2.254	3.187	6.7	24.0	158 W	75	34
12 22	7 9.09	+29 51.6	2.242	3.198	5.0	23.9	164 W	75	34
12 27	7 3.14	+30 6.4	2.238	3.209	3.4	23.8	169 W	75	34
1 1	6 57.02	+30 19.0	2.242	3.219	2.4	23.8	172 W	75	34
1 6	6 50.89	+30 29.0	2.254	3.229	2.7	23.8	171 E	75	34
1 11	6 44.87	+30 36.2	2.274	3.239	4.0	23.9	167 E	76	33
1 16	6 39.12	+30 40.7	2.301	3.248	5.6	24.0	161 E	76	33
1 21	6 33.76	+30 42.7	2.337	3.257	7.2	24.1	155 E	76	33
526708 2006 VJ_{77}									
12 17	8 1.22	+45 54.8	1.895	2.749	12.3	22.1	144 W	89	18
12 22	7 55.14	+46 51.1	1.884	2.764	11.1	22.1	147 W	88	17
12 27	7 48.24	+47 42.2	1.881	2.778	10.1	22.0	150 W	87	16
1 1	7 40.68	+48 26.7	1.884	2.792	9.4	22.0	152 W	87	16
1 6	7 32.67	+49 3.6	1.894	2.806	9.2	22.0	153 W	86	15
1 11	7 24.46	+49 31.9	1.912	2.820	9.3	22.1	152 E	85	14
1 16	7 16.32	+49 51.5	1.936	2.833	9.9	22.1	150 E	85	14
1 21	7 8.52	+50 2.4	1.967	2.846	10.7	22.2	147 E	85	14
1 26	7 1.30	+50 5.2	2.004	2.858	11.8	22.3	144 E	85	14
1 31	6 54.83	+50 0.7	2.048	2.870	12.8	22.4	140 E	85	14
526449 2006 OH_{15}									
12 17	14 6.10	+ 7 56.0	1.213	1.128	49.6	21.4	61 W	49*	26*
12 22	14 29.86	+ 8 1.8	1.199	1.115	50.2	21.4	60 W	49*	25*
12 27	14 53.76	+ 8 5.9	1.189	1.103	50.6	21.4	60 W	49*	25*
1 1	15 17.62	+ 8 7.7	1.185	1.092	51.0	21.3	60 W	48*	25*
1 6	15 41.28	+ 8 7.2	1.185	1.084	51.1	21.3	59 W	48*	25*
1 11	16 4.55	+ 8 4.2	1.190	1.077	51.1	21.3	58 W	47*	25*
1 16	16 27.31	+ 7 58.8	1.199	1.071	51.0	21.3	58 W	47*	25*
1 21	16 49.42	+ 7 51.3	1.210	1.068	50.7	21.3	57 W	46*	25*
1 26	17 10.82	+ 7 41.6	1.224	1.067	50.3	21.3	56 W	45*	26*
1 31	17 31.46	+ 7 30.2	1.240	1.067	49.9	21.4	56 W	44*	27*
2 5	17 51.33	+ 7 17.3	1.257	1.069	49.3	21.4	55 W	43*	28*
2 10	18 10.42	+ 7 3.3	1.275	1.074	48.8	21.4	55 W	42*	29*
2 15	18 28.75	+ 6 48.3	1.292	1.080	48.2	21.4	55 W	42*	30*
2 20	18 46.34	+ 6 32.7	1.308	1.088	47.6	21.5	54 W	41*	31*
2 25	19 3.24	+ 6 16.5	1.324	1.097	47.1	21.5	54 W	40*	32*
538644 2016 FA_4									
12 17	16 7.73	−18 5.4	1.530	0.719	30.8	21.0	22 W	11*	11*
12 22	16 38.35	−20 20.1	1.461	0.627	31.6	20.7	19 W	9*	10*
12 27	17 14.13	−22 27.0	1.398	0.527	30.9	20.2	16 W	5*	8*
1 1	17 56.45	−24 11.6	1.339	0.422	27.2	19.5	11 W	1*	4*
1 6	18 46.96	−25 6.6	1.282	0.316	17.0	18.4	5 W	—	—
1 8	19 9.70	−25 3.7	1.255	0.278	11.3	17.9	3 W	—	—
1 10	19 33.70	−24 39.5	1.223	0.247	13.3	17.7	3 E	—	—
1 12	19 58.31	−23 48.6	1.182	0.229	26.9	17.9	6 E	—	—
1 14	20 22.37	−22 28.9	1.132	0.227	44.7	18.3	9 E	—	3*
1 16	20 44.71	−20 43.8	1.076	0.243	61.6	18.8	13 E	3*	5*
1 18	21 4.91	−18 39.7	1.018	0.272	75.1	19.3	15 E	6*	7*
1 20	21 23.23	−16 22.1	0.963	0.309	84.8	19.8	18 E	9*	8*
1 22	21 40.20	−13 54.0	0.912	0.350	91.4	20.3	21 E	12*	9*
1 24	21 56.28	−11 17.0	0.866	0.393	95.5	20.6	23 E	14*	10*
1 26	22 11.83	− 8 31.8	0.826	0.435	97.8	20.8	26 E	17*	11*
1 31	22 49.96	− 1 8.8	0.748	0.540	98.5	21.1	33 E	25*	12*
2 5	23 28.52	+ 6 39.9	0.702	0.639	94.5	21.1	40 E	33*	13*
2 10	0 8.15	+14 21.5	0.685	0.731	88.3	21.1	48 E	41*	14*
2 15	0 48.51	+21 19.6	0.694	0.816	81.2	21.1	55 E	48*	15*
2 20	1 28.65	+27 7.2	0.724	0.896	74.3	21.2	61 E	55*	16*
2 25	2 7.47	+31 35.4	0.771	0.971	68.1	21.3	66 E	59*	17*
3 2	2 44.02	+34 49.4	0.830	1.042	62.7	21.4	69 E	63*	17*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
137504 1999 VO_{21}									
h m		° ′			°	m	°	°	°
12 27	0 0.72	+ 2 17.9	1.543	1.766	33.7	20.2	86 E	47	53*
1 6	0 22.42	+ 3 30.5	1.669	1.799	32.7	20.4	81 E	49	48*
1 16	0 44.07	+ 4 50.4	1.797	1.832	31.4	20.5	76 E	50*	44*
1 26	1 5.65	+ 6 14.6	1.928	1.867	30.0	20.7	72 E	50*	41*
2 5	1 27.14	+ 7 40.5	2.060	1.903	28.5	20.8	67 E	49*	37*
2 15	1 48.55	+ 9 5.9	2.191	1.939	26.8	20.9	62 E	47*	34*
2 25	2 9.91	+10 28.9	2.322	1.977	25.0	21.1	58 E	44*	32*
3 7	2 31.19	+11 47.7	2.450	2.014	23.2	21.2	53 E	41*	29*
3 17	2 52.41	+13 1.1	2.574	2.052	21.2	21.3	48 E	37*	27*
3 27	3 13.58	+14 7.7	2.695	2.090	19.3	21.3	44 E	32*	25*
4 6	3 34.65	+15 6.5	2.809	2.128	17.2	21.4	39 E	27*	23*
4 16	3 55.64	+15 56.8	2.918	2.166	15.2	21.4	34 E	22*	21*
4 26	4 16.50	+16 37.9	3.019	2.203	13.1	21.5	30 E	17*	18*
1922 Zulu									
12 27	0 0.87	+17 7.1	3.174	3.351	17.1	18.4	92 E	62	40*
1 6	0 9.25	+16 25.9	3.364	3.395	16.7	18.6	83 E	61	36*
1 16	0 18.49	+16 0.3	3.554	3.438	16.1	18.7	75 E	60*	32*
1 26	0 28.40	+15 48.0	3.739	3.481	15.1	18.8	67 E	56*	27*
2 5	0 38.84	+15 46.7	3.917	3.523	14.0	18.9	60 E	51*	23*
2 15	0 49.71	+15 54.4	4.085	3.564	12.6	19.0	52 E	45*	19*
2 25	1 0.89	+16 9.2	4.241	3.605	11.1	19.0	45 E	38*	15*
3 7	1 12.30	+16 29.4	4.383	3.645	9.5	19.0	37 E	31*	11*
3 17	1 23.87	+16 53.6	4.509	3.684	7.8	19.1	30 E	24*	7*
3 27	1 35.52	+17 20.5	4.618	3.722	6.1	19.1	23 E	17*	3*
4 6	1 47.20	+17 48.9	4.709	3.760	4.3	19.0	16 E	10*	—
4 16	1 58.84	+18 17.8	4.781	3.797	2.6	19.0	10 E	4*	—
4 26	2 10.39	+18 46.2	4.834	3.833	1.4	18.9	5 W	—	—
5 6	2 21.77	+19 13.5	4.866	3.869	2.0	19.0	8 W	1*	—
5 16	2 32.94	+19 38.8	4.878	3.903	3.5	19.1	14 W	3*	6*
5 26	2 43.81	+20 1.6	4.871	3.937	5.1	19.2	20 W	7*	12*
6 5	2 54.32	+20 21.4	4.844	3.971	6.7	19.3	27 W	10*	18*
6 15	3 4.37	+20 37.6	4.799	4.004	8.3	19.4	35 W	15*	24*
6 25	3 13.87	+20 49.7	4.736	4.036	9.7	19.4	42 W	21*	29*
7 5	3 22.72	+20 57.4	4.657	4.067	10.9	19.5	49 W	27*	34*
7 15	3 30.80	+21 0.4	4.562	4.098	12.0	19.5	57 W	34*	37*
7 25	3 37.97	+20 58.1	4.455	4.128	12.9	19.5	65 W	42*	40*
8 4	3 44.11	+20 50.3	4.338	4.157	13.5	19.5	73 W	49*	42*
8 14	3 49.04	+20 36.6	4.212	4.185	13.9	19.4	82 W	56*	43*
8 24	3 52.62	+20 16.5	4.083	4.213	13.9	19.4	90 W	62*	44
9 3	3 54.71	+19 49.7	3.952	4.240	13.6	19.3	100 W	65*	44
9 13	3 55.17	+19 15.9	3.825	4.267	12.9	19.2	109 W	64	45
9 23	3 53.92	+18 34.7	3.707	4.293	11.7	19.1	120 W	64	45
10 3	3 50.96	+17 46.4	3.603	4.318	10.2	19.0	130 W	63	46
10 13	3 46.37	+16 51.2	3.518	4.342	8.3	18.9	141 W	62	47
10 23	3 40.40	+15 50.4	3.458	4.366	6.0	18.8	153 W	61	48
11 2	3 33.41	+14 45.8	3.426	4.389	3.5	18.6	164 W	60	49
11 12	3 25.86	+13 40.0	3.426	4.412	1.3	18.5	174 W	59	50
11 22	3 18.31	+12 36.0	3.459	4.433	2.3	18.6	169 E	58	51
12 2	3 11.28	+11 36.9	3.525	4.455	4.7	18.8	158 E	57	52
12 12	3 5.23	+10 45.3	3.621	4.475	7.0	19.0	147 E	56	53
12 22	3 0.50	+10 3.1	3.743	4.495	8.9	19.1	135 E	55	54
1 1	2 57.28	+ 9 30.9	3.888	4.514	10.4	19.3	124 E	55	54
1 11	2 55.64	+ 9 9.0	4.049	4.533	11.5	19.4	114 E	54	55
1 21	2 55.57	+ 8 56.4	4.221	4.550	12.1	19.5	103 E	54	55*
28565 2000 EO_{58}									
12 27	0 1.33	− 2 57.2	1.547	1.741	34.2	18.6	84 E	42	57*
1 6	0 22.30	− 0 55.6	1.669	1.771	33.1	18.7	79 E	44	51*
1 16	0 43.31	+ 1 8.2	1.793	1.802	31.8	18.9	75 E	46*	47*
1 26	1 4.36	+ 3 12.1	1.918	1.834	30.3	19.0	70 E	47*	42*
2 5	1 25.43	+ 5 14.0	2.044	1.868	28.7	19.2	66 E	47*	38*
2 15	1 46.53	+ 7 12.1	2.170	1.901	27.1	19.3	61 E	45*	35*
2 25	2 7.68	+ 9 5.0	2.295	1.936	25.3	19.4	57 E	43*	32*
3 7	2 28.86	+10 51.3	2.417	1.970	23.4	19.5	52 E	40*	29*
3 17	2 50.10	+12 29.9	2.536	2.005	21.5	19.6	48 E	36*	27*
3 27	3 11.39	+13 59.8	2.650	2.039	19.5	19.6	43 E	32*	24*
4 6	3 32.69	+15 20.1	2.759	2.074	17.5	19.7	39 E	27*	22*
4 16	3 54.01	+16 30.4	2.863	2.108	15.5	19.8	34 E	22*	20*
4 26	4 15.29	+17 30.1	2.959	2.142	13.4	19.8	30 E	17*	17*
5 6	4 36.50	+18 18.8	3.047	2.176	11.3	19.8	25 E	12*	15*
5 16	4 57.60	+18 56.5	3.127	2.209	9.2	19.8	20 E	8*	12*
5 26	5 18.53	+19 23.1	3.198	2.241	7.1	19.8	16 E	3*	9*
6 5	5 39.22	+19 38.7	3.258	2.273	5.1	19.8	11 E	—	5*
6 15	5 59.64	+19 43.7	3.308	2.304	3.1	19.7	7 E	—	1*
6 25	6 19.71	+19 38.4	3.347	2.334	1.7	19.7	4 E	—	—
7 5	6 39.39	+19 23.3	3.375	2.364	2.2	19.8	5 W	—	—
7 15	6 58.61	+18 59.1	3.390	2.393	4.0	19.9	9 W	—	3*
7 25	7 17.33	+18 26.6	3.393	2.421	5.9	20.0	14 W	2*	7*
8 4	7 35.50	+17 46.4	3.383	2.448	7.8	20.1	19 W	7*	11*
8 14	7 53.07	+16 59.4	3.361	2.474	9.8	20.2	24 W	13*	14*
8 24	8 9.99	+16 6.6	3.325	2.499	11.6	20.3	30 W	18*	17*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		28565 2000 EO_{58}				*(continuation)*			
	h m	° ′			°	m	°	°	°
9 3	8 26.21	+15 9.0	3.277	2.524	13.4	20.4	35 W	24*	21*
9 13	8 41.68	+14 7.5	3.216	2.547	15.1	20.4	41 W	30*	24*
9 23	8 56.33	+13 3.5	3.143	2.569	16.7	20.4	47 W	35*	27*
10 3	9 10.09	+11 58.0	3.058	2.591	18.1	20.4	53 W	41*	30*
10 13	9 22.86	+10 52.4	2.963	2.611	19.3	20.4	60 W	45*	34*
10 23	9 34.52	+ 9 48.1	2.857	2.630	20.4	20.4	67 W	49*	38*
11 2	9 44.94	+ 8 46.7	2.744	2.649	21.1	20.3	74 W	52*	42*
11 12	9 53.93	+ 7 50.0	2.624	2.666	21.6	20.3	82 W	53*	47*
11 22	10 1.29	+ 6 59.9	2.500	2.682	21.6	20.2	90 W	52	51*
12 2	10 6.79	+ 6 18.5	2.374	2.698	21.2	20.1	98 W	51	56*
12 12	10 10.14	+ 5 48.3	2.250	2.712	20.3	19.9	107 W	51	58*
12 22	10 11.12	+ 5 31.5	2.132	2.725	18.7	19.8	117 W	51	58
1 1	10 9.51	+ 5 30.4	2.023	2.737	16.5	19.6	128 W	51	58
1 11	10 5.23	+ 5 46.5	1.931	2.748	13.6	19.4	139 W	51	58
1 21	9 58.45	+ 6 19.8	1.858	2.758	10.1	19.2	151 W	51	58
		363560 2003 YC							
12 27	0 1.56	−26 37.3	1.639	1.681	34.4	20.3	75 E	18	67*
1 1	0 11.33	−25 11.6	1.663	1.668	34.3	20.3	73 E	20	65*
1 6	0 21.40	−23 42.2	1.688	1.656	34.2	20.4	71 E	21	62*
1 11	0 31.77	−22 9.5	1.711	1.644	34.0	20.4	69 E	23*	60*
1 16	0 42.40	−20 33.6	1.734	1.632	33.8	20.4	67 E	24*	57*
1 26	1 4.39	−17 13.8	1.778	1.612	33.3	20.4	64 E	27*	53*
2 5	1 27.24	−13 45.6	1.821	1.595	32.7	20.4	61 E	29*	49*
2 15	1 50.89	−10 11.9	1.864	1.581	32.0	20.4	58 E	30*	46*
2 25	2 15.28	− 6 36.2	1.908	1.570	31.2	20.4	55 E	30*	42*
3 7	2 40.38	− 3 2.3	1.954	1.563	30.3	20.4	53 E	30*	40*
3 17	3 6.16	+ 0 26.2	2.003	1.561	29.2	20.5	50 E	29*	37*
3 27	3 32.60	+ 3 45.2	2.054	1.562	28.0	20.5	47 E	28*	35*
4 6	3 59.63	+ 6 51.1	2.110	1.566	26.7	20.5	45 E	26*	33*
4 16	4 27.22	+ 9 40.7	2.169	1.575	25.3	20.5	42 E	24*	30*
4 26	4 55.25	+12 11.3	2.230	1.587	23.7	20.6	39 E	21*	28*
5 6	5 23.61	+14 20.9	2.295	1.603	22.1	20.6	37 E	18*	26*
5 16	5 52.18	+16 8.1	2.362	1.621	20.3	20.6	34 E	15*	24*
5 26	6 20.78	+17 32.5	2.430	1.643	18.4	20.7	31 E	12*	22*
6 5	6 49.26	+18 34.2	2.498	1.668	16.5	20.7	28 E	9*	19*
6 15	7 17.46	+19 14.0	2.565	1.695	14.4	20.7	25 E	7*	17*
6 25	7 45.23	+19 33.3	2.630	1.724	12.4	20.7	21 E	4*	14*
7 5	8 12.45	+19 33.9	2.693	1.755	10.4	20.7	18 E	3*	11*
7 15	8 39.04	+19 17.6	2.753	1.788	8.3	20.7	15 E	1*	8*
7 25	9 4.93	+18 46.9	2.807	1.822	6.3	20.7	11 E	1*	4*
8 4	9 30.08	+18 3.9	2.856	1.858	4.4	20.7	8 E	—	1*
8 14	9 54.49	+17 10.8	2.899	1.894	3.0	20.7	6 E	—	—
8 24	10 18.17	+16 10.0	2.935	1.931	2.7	20.8	5 E	—	—
9 3	10 41.15	+15 3.6	2.964	1.968	3.9	20.9	8 W	1*	—
9 13	11 3.46	+13 53.6	2.984	2.006	5.6	21.0	11 W	5*	—
9 23	11 25.13	+12 42.1	2.995	2.044	7.4	21.2	15 W	9*	—
10 3	11 46.20	+11 30.9	2.997	2.082	9.3	21.3	20 W	14*	—
10 13	12 6.71	+10 21.9	2.989	2.120	11.2	21.4	24 W	18*	1*
10 23	12 26.65	+ 9 16.9	2.971	2.157	13.0	21.5	29 W	23*	3*
		162173 Ryugu							
12 27	0 1.68	−39 58.4	0.061	0.966	105.3	17.0	71 E	5	65*
12 29	0 10.86	−44 7.7	0.061	0.965	106.3	17.1	70 E	1	63*
12 31	0 21.03	−48 15.0	0.061	0.964	106.9	17.1	70 E	—	61*
1 2	0 32.37	−52 17.0	0.061	0.963	107.2	17.2	69 E	—	58*
1 4	0 45.18	−56 10.2	0.062	0.963	107.2	17.2	69 E	—	56*
1 6	0 59.78	−59 51.6	0.063	0.963	106.8	17.2	70 E	—	53*
1 7	1 7.90	−61 36.9	0.064	0.963	106.5	17.2	70 E	—	52*
1 8	1 16.64	−63 18.2	0.064	0.963	106.2	17.2	70 E	—	51*
1 9	1 26.08	−64 55.2	0.065	0.964	105.8	17.2	71 E	—	49*
1 10	1 36.30	−66 27.6	0.066	0.964	105.3	17.2	71 E	—	48*
1 11	1 47.39	−67 55.1	0.067	0.964	104.8	17.2	71 E	—	47*
1 12	1 59.43	−69 17.4	0.068	0.965	104.2	17.2	72 E	—	46*
1 13	2 12.52	−70 34.3	0.069	0.965	103.6	17.2	73 E	—	45*
1 14	2 26.75	−71 45.5	0.070	0.966	102.9	17.2	73 E	—	44*
1 15	2 42.17	−72 50.7	0.071	0.966	102.2	17.2	74 E	—	43*
1 16	2 58.83	−73 49.5	0.072	0.967	101.5	17.2	74 E	—	42*
1 17	3 16.75	−74 41.7	0.073	0.968	100.7	17.2	75 E	—	41
1 18	3 35.87	−75 27.0	0.074	0.968	99.9	17.2	76 E	—	41
1 19	3 56.09	−76 5.3	0.075	0.969	99.1	17.2	77 E	—	40
1 20	4 17.21	−76 36.3	0.076	0.970	98.3	17.2	77 E	—	39
1 21	4 38.97	−77 0.0	0.077	0.971	97.4	17.2	78 E	—	39
1 22	5 1.06	−77 16.6	0.079	0.972	96.6	17.2	79 E	—	39
1 23	5 23.11	−77 26.3	0.080	0.973	95.7	17.2	80 E	—	39
1 24	5 44.77	−77 29.5	0.081	0.974	94.8	17.2	80 E	—	39
1 25	6 5.73	−77 26.8	0.082	0.975	93.9	17.2	81 E	—	39
1 26	6 25.73	−77 18.8	0.084	0.977	93.0	17.2	82 E	—	39
1 27	6 44.58	−77 6.2	0.085	0.978	92.1	17.2	83 E	—	39
1 28	7 2.18	−76 49.5	0.086	0.979	91.2	17.2	84 E	—	39
1 29	7 18.48	−76 29.4	0.087	0.981	90.3	17.2	85 E	—	40

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		162173 Ryugu				*(continuation)*			
	h m	° ′			°	m	°	°	°
1 30	7 33.49	−76 6.5	0.089	0.982	89.4	17.2	85 E	—	40
1 31	7 47.27	−75 41.3	0.090	0.983	88.5	17.1	86 E	—	40
2 1	7 59.87	−75 14.2	0.091	0.985	87.6	17.1	87 E	—	41
2 2	8 11.39	−74 45.6	0.092	0.987	86.6	17.1	88 E	—	41
2 3	8 21.91	−74 15.7	0.094	0.988	85.7	17.1	89 E	—	42
2 4	8 31.53	−73 44.8	0.095	0.990	84.8	17.1	90 E	—	42
2 5	8 40.32	−73 13.1	0.096	0.992	83.8	17.1	91 E	—	43
2 6	8 48.38	−72 40.8	0.097	0.993	82.9	17.1	91 E	—	43
2 7	8 55.77	−72 7.8	0.098	0.995	82.0	17.1	92 E	—	44
2 8	9 2.56	−71 34.4	0.100	0.997	81.0	17.1	93 E	—	44
2 9	9 8.81	−71 0.6	0.101	0.999	80.1	17.1	94 E	—	45
2 10	9 14.58	−70 26.4	0.102	1.001	79.1	17.1	95 E	—	46
2 11	9 19.91	−69 51.9	0.103	1.003	78.2	17.1	96 E	—	46
2 12	9 24.86	−69 17.0	0.104	1.005	77.2	17.1	97 E	—	47
2 13	9 29.46	−68 41.8	0.105	1.007	76.3	17.1	98 E	—	47
2 14	9 33.73	−68 6.4	0.106	1.009	75.3	17.1	99 E	—	48
2 15	9 37.72	−67 30.6	0.107	1.011	74.3	17.1	100 E	—	48
2 16	9 41.46	−66 54.5	0.109	1.014	73.4	17.1	101 E	—	49
2 17	9 44.95	−66 18.1	0.110	1.016	72.4	17.1	102 E	—	50
2 18	9 48.23	−65 41.4	0.111	1.018	71.4	17.1	103 E	—	50
2 19	9 51.32	−65 4.4	0.112	1.020	70.4	17.1	103 E	—	51
2 20	9 54.23	−64 27.0	0.113	1.023	69.4	17.0	104 E	—	52
2 21	9 56.97	−63 49.3	0.114	1.025	68.4	17.0	105 E	—	52
2 22	9 59.56	−63 11.2	0.115	1.028	67.4	17.0	106 E	—	53
2 23	10 2.02	−62 32.7	0.116	1.030	66.4	17.0	107 E	—	53
2 24	10 4.35	−61 53.8	0.117	1.032	65.4	17.0	108 E	—	54
2 25	10 6.56	−61 14.5	0.118	1.035	64.4	17.0	109 E	—	55
2 27	10 10.66	−59 54.6	0.120	1.040	62.4	17.0	111 E	—	56
3 1	10 14.40	−58 32.8	0.122	1.045	60.4	17.0	113 E	—	57
3 3	10 17.80	−57 9.1	0.124	1.051	58.4	17.0	115 E	—	59
3 5	10 20.94	−55 43.2	0.126	1.056	56.4	17.0	118 E	—	60
3 7	10 23.84	−54 15.1	0.128	1.062	54.4	17.0	120 E	—	62
3 9	10 26.56	−52 44.7	0.131	1.067	52.4	16.9	122 E	—	63
3 11	10 29.14	−51 12.1	0.133	1.073	50.4	16.9	124 E	—	65
3 13	10 31.62	−49 37.4	0.135	1.079	48.4	16.9	126 E	—	66
3 15	10 34.03	−48 0.9	0.138	1.084	46.5	16.9	128 E	—	68
3 17	10 36.39	−46 22.8	0.141	1.090	44.6	16.9	130 E	—	70
3 22	10 42.24	−42 13.2	0.148	1.105	40.1	17.0	134 E	3	74
3 27	10 48.17	−38 2.6	0.158	1.120	36.3	17.0	138 E	7	78
4 1	10 54.28	−33 57.6	0.168	1.136	33.3	17.1	141 E	11	82
4 6	11 0.61	−30 3.9	0.181	1.151	31.2	17.2	143 E	15	86
4 11	11 7.26	−26 26.3	0.196	1.166	30.3	17.4	144 E	19	90
4 16	11 14.29	−23 9.1	0.213	1.182	30.2	17.6	144 E	22	87
4 21	11 21.71	−20 15.0	0.232	1.197	30.9	17.8	142 E	25	84
4 26	11 29.47	−17 44.7	0.253	1.212	32.0	18.1	140 E	27	82
5 6	11 45.84	−13 51.4	0.301	1.240	35.0	18.6	135 E	31	78
5 16	12 3.21	−11 17.1	0.357	1.268	38.0	19.1	129 E	34	75
5 26	12 21.46	− 9 47.1	0.419	1.294	40.6	19.6	124 E	35*	74
5 31	12 30.83	− 9 21.3	0.452	1.306	41.7	19.8	121 E	36*	73
6 5	12 40.34	− 9 6.1	0.486	1.317	42.6	20.0	118 E	35*	73
6 10	12 50.00	− 8 59.9	0.521	1.328	43.4	20.2	116 E	35*	73
6 15	12 59.81	− 9 1.7	0.558	1.339	44.1	20.4	113 E	34*	73
6 20	13 9.76	− 9 10.3	0.595	1.349	44.7	20.5	111 E	34*	73
6 25	13 19.84	− 9 24.6	0.633	1.358	45.2	20.7	109 E	33*	73
6 30	13 30.04	− 9 43.6	0.672	1.367	45.6	20.9	106 E	32*	74
7 5	13 40.35	−10 6.5	0.711	1.375	45.9	21.0	104 E	31*	74
7 10	13 50.81	−10 32.7	0.751	1.382	46.1	21.1	102 E	30*	75
7 15	14 1.40	−11 1.6	0.791	1.389	46.2	21.3	100 E	29*	75
7 20	14 12.14	−11 32.5	0.832	1.395	46.2	21.4	98 E	28*	76
7 25	14 23.02	−12 4.9	0.873	1.400	46.2	21.5	95 E	27*	76
		495891 2004 VS_{60}							
12 27	0 1.73	+ 7 27.0	1.142	1.481	41.6	21.1	88 E	52	49*
1 6	0 33.82	+ 7 53.5	1.268	1.539	39.5	21.3	85 E	53	47*
1 16	1 3.40	+ 8 29.5	1.404	1.599	37.5	21.6	82 E	53	45*
1 26	1 30.93	+ 9 11.8	1.548	1.660	35.5	21.8	78 E	54*	43*
2 5	1 56.79	+ 9 57.6	1.697	1.721	33.5	22.0	75 E	54*	41*
		409224 2003 YK_{34}							
12 27	0 1.92	+ 1 9.8	1.900	2.070	28.3	21.2	86 E	46	54*
1 6	0 15.13	+ 2 21.0	1.969	2.023	28.5	21.3	79 E	47	48*
1 16	0 30.24	+ 3 44.9	2.034	1.978	28.3	21.3	73 E	48*	42*
1 26	0 47.08	+ 5 19.4	2.095	1.935	27.9	21.3	67 E	48*	38*
2 5	1 5.49	+ 7 2.0	2.151	1.894	27.3	21.3	62 E	46*	33*
2 15	1 25.37	+ 8 50.5	2.202	1.856	26.4	21.3	57 E	44*	30*
2 25	1 46.67	+10 42.3	2.249	1.820	25.5	21.2	52 E	41*	27*
3 7	2 9.31	+12 34.6	2.291	1.788	24.4	21.2	48 E	38*	24*
3 17	2 33.27	+14 24.6	2.330	1.759	23.2	21.2	44 E	34*	22*
3 27	2 58.49	+16 9.2	2.366	1.735	22.0	21.1	41 E	31*	21*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
409224 2003 YK_{34}									
	h m	° ′			°	m	°	°	°
4 6	3 24.89	+17 45.3	2.400	1.714	20.7	21.1	37 E	27*	19*
4 16	3 52.40	+19 9.7	2.433	1.699	19.4	21.1	34 E	24*	18*
4 26	4 20.88	+20 19.6	2.466	1.687	18.0	21.0	31 E	20*	17*
5 6	4 50.13	+21 12.2	2.499	1.681	16.6	21.0	28 E	17*	16*
5 16	5 19.94	+21 45.7	2.533	1.680	15.1	21.0	26 E	13*	15*
5 26	5 50.05	+21 58.5	2.568	1.684	13.6	21.0	23 E	10*	13*
6 5	6 20.17	+21 50.2	2.605	1.692	12.1	21.0	20 E	7*	12*
6 15	6 50.04	+21 21.1	2.644	1.706	10.5	20.9	18 E	4*	10*
6 25	7 19.40	+20 32.0	2.684	1.724	8.9	20.9	15 E	1*	9*
7 5	7 48.05	+19 24.9	2.725	1.746	7.3	20.9	13 E	—	6*
7 15	8 15.84	+18 1.7	2.766	1.773	5.6	20.9	10 E	—	4*
7 25	8 42.65	+16 25.0	2.808	1.803	3.9	20.9	7 E	—	1*
8 4	9 8.45	+14 37.3	2.848	1.837	2.2	20.8	4 E	—	—
8 14	9 33.22	+12 41.2	2.886	1.874	1.0	20.8	2 W	—	—
8 24	9 56.98	+10 38.9	2.922	1.914	1.9	21.0	4 W	—	—
9 3	10 19.77	+ 8 32.8	2.953	1.956	3.6	21.2	7 W	—	—
9 13	10 41.64	+ 6 24.8	2.980	2.000	5.4	21.3	11 W	3*	2*
9 23	11 2.62	+ 4 16.7	3.000	2.046	7.2	21.5	15 W	7*	5*
413002 1999 VG_{22}									
12 27	0 2.05	+ 3 8.6	1.159	1.471	41.8	21.5	86 E	48	52*
1 6	0 19.59	+ 4 35.3	1.201	1.425	42.9	21.5	81 E	50	47*
1 16	0 39.57	+ 6 17.4	1.237	1.378	43.8	21.5	76 E	51*	42*
1 26	1 1.86	+ 8 11.8	1.265	1.333	44.5	21.5	71 E	52*	38*
2 5	1 26.36	+10 14.6	1.286	1.289	45.0	21.5	68 E	51*	35*
2 15	1 53.13	+12 22.2	1.300	1.248	45.6	21.5	64 E	51*	33*
2 25	2 22.22	+14 29.9	1.308	1.210	46.1	21.4	62 E	49*	31*
3 7	2 53.67	+16 32.3	1.311	1.176	46.6	21.4	60 E	48*	30*
3 17	3 27.57	+18 23.2	1.310	1.148	47.2	21.4	58 E	46*	30*
3 27	4 3.86	+19 56.0	1.307	1.126	47.7	21.3	57 E	45*	30*
4 6	4 42.37	+21 3.5	1.303	1.111	48.2	21.3	56 E	43*	30*
4 16	5 22.77	+21 39.1	1.301	1.104	48.5	21.3	55 E	41*	31*
4 26	6 4.53	+21 37.6	1.302	1.104	48.6	21.3	55 E	39*	33*
5 6	6 46.92	+20 56.1	1.309	1.113	48.4	21.3	56 E	37*	35*
5 16	7 29.22	+19 34.8	1.323	1.129	47.9	21.4	56 E	34*	37*
5 26	8 10.73	+17 36.8	1.346	1.152	47.1	21.4	56 E	31*	39*
257594 1999 RA_{31}									
12 27	0 2.18	+34 52.5	1.118	1.600	37.4	18.4	99 E	80	25*
1 1	0 12.01	+35 28.8	1.151	1.599	37.6	18.4	97 E	80	23*
1 6	0 22.71	+36 6.5	1.184	1.598	37.8	18.5	95 E	81	22*
1 11	0 34.24	+36 45.3	1.217	1.599	37.9	18.6	93 E	82	20*
1 16	0 46.58	+37 24.6	1.250	1.600	37.9	18.6	91 E	82*	19*
1 26	1 13.47	+38 42.4	1.319	1.605	37.8	18.7	87 E	81*	17*
2 5	1 43.02	+39 54.4	1.389	1.613	37.4	18.9	84 E	78*	15*
2 15	2 14.87	+40 55.0	1.463	1.625	36.8	19.0	81 E	75*	14*
2 20	2 31.51	+41 19.6	1.501	1.632	36.5	19.0	79 E	73*	14*
2 25	2 48.54	+41 39.5	1.540	1.640	36.1	19.1	78 E	71*	14*
3 2	3 5.88	+41 54.2	1.580	1.649	35.7	19.1	76 E	70*	14*
3 7	3 23.45	+42 3.4	1.621	1.658	35.2	19.2	74 E	68*	14*
3 12	3 41.17	+42 6.6	1.663	1.668	34.7	19.2	73 E	67*	15*
3 17	3 58.97	+42 3.9	1.706	1.679	34.2	19.3	71 E	65*	15*
3 22	4 16.76	+41 54.9	1.751	1.691	33.6	19.4	70 E	64*	15*
3 27	4 34.44	+41 39.9	1.796	1.703	33.0	19.4	68 E	62*	16*
4 1	4 51.96	+41 18.7	1.843	1.715	32.4	19.5	67 E	61*	17*
4 6	5 9.24	+40 51.6	1.891	1.728	31.7	19.5	65 E	59*	17*
4 11	5 26.23	+40 18.9	1.939	1.742	31.0	19.6	64 E	57*	18*
4 16	5 42.89	+39 40.9	1.989	1.756	30.3	19.6	62 E	55*	19*
4 21	5 59.17	+38 57.9	2.039	1.771	29.5	19.7	60 E	53*	19*
4 26	6 15.05	+38 10.2	2.091	1.786	28.7	19.7	59 E	51*	20*
5 1	6 30.50	+37 18.4	2.142	1.801	27.9	19.8	57 E	48*	21*
5 6	6 45.52	+36 22.7	2.195	1.817	27.1	19.8	55 E	46*	21*
5 11	7 0.11	+35 23.6	2.247	1.833	26.2	19.9	53 E	43*	22*
5 16	7 14.28	+34 21.4	2.300	1.849	25.3	19.9	52 E	41*	23*
5 21	7 28.01	+33 16.4	2.354	1.866	24.4	19.9	50 E	38*	23*
5 26	7 41.34	+32 9.1	2.407	1.883	23.5	20.0	48 E	35*	24*
5 31	7 54.25	+30 59.7	2.460	1.900	22.6	20.0	46 E	33*	24*
6 5	8 6.79	+29 48.5	2.512	1.917	21.6	20.1	44 E	30*	24*
6 15	8 30.80	+27 21.7	2.616	1.953	19.6	20.1	40 E	24*	24*
6 25	8 53.48	+24 50.4	2.717	1.988	17.5	20.2	36 E	19*	23*
7 5	9 14.99	+22 16.2	2.814	2.025	15.4	20.2	32 E	15*	21*
7 15	9 35.49	+19 40.0	2.906	2.061	13.3	20.3	28 E	11*	19*
7 25	9 55.07	+17 2.8	2.991	2.097	11.1	20.3	23 E	8*	16*
8 4	10 13.86	+14 25.4	3.068	2.134	8.9	20.3	19 E	4*	12*
8 14	10 31.97	+11 48.3	3.137	2.170	6.6	20.3	14 E	2*	8*
8 24	10 49.47	+ 9 12.0	3.197	2.206	4.4	20.2	10 E	—	3*
9 3	11 6.44	+ 6 36.9	3.246	2.242	2.1	20.2	5 E	—	—
9 13	11 22.94	+ 4 3.3	3.284	2.277	0.1	20.0	0 W	—	—
9 23	11 39.01	+ 1 31.6	3.309	2.312	2.3	20.3	5 W	—	—
10 3	11 54.69	− 0 58.1	3.323	2.347	4.5	20.5	11 W	3*	2*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
257594 1999 RA_{31}									
	h m	° ′			°	m	°	°	°
10 13	12 9.99	− 3 25.5	3.323	2.380	6.7	20.6	16 W	8*	6*
10 23	12 24.91	− 5 50.4	3.310	2.413	8.8	20.7	22 W	12*	10*
11 2	12 39.46	− 8 12.6	3.284	2.446	10.8	20.8	27 W	17*	15*
11 12	12 53.58	−10 32.1	3.244	2.478	12.7	20.9	33 W	20*	20*
11 22	13 7.23	−12 48.6	3.191	2.508	14.5	20.9	39 W	23*	26*
12 2	13 20.34	−15 2.3	3.125	2.539	16.2	21.0	46 W	25*	33*
12 12	13 32.80	−17 13.0	3.047	2.568	17.7	21.0	52 W	25*	40*
12 22	13 44.47	−19 20.9	2.959	2.596	19.0	21.0	59 W	25*	47*
1 1	13 55.18	−21 26.2	2.861	2.624	20.1	21.0	66 W	24*	56*
1 11	14 4.71	−23 28.8	2.756	2.651	20.8	20.9	74 W	22	65*
1 21	14 12.79	−25 28.8	2.644	2.677	21.3	20.9	81 W	20	74*
484247 2007 FL_{3}									
12 27	0 2.24	−42 55.4	1.959	1.878	29.6	21.2	71 E	2	64*
1 1	0 12.03	−41 56.4	2.007	1.889	29.0	21.3	69 E	3	62*
1 6	0 21.97	−40 54.8	2.053	1.900	28.5	21.3	67 E	4	61*
1 11	0 32.03	−39 50.8	2.097	1.911	27.9	21.4	65 E	5*	59*
1 16	0 42.21	−38 44.6	2.139	1.921	27.4	21.4	64 E	6*	58*
1 21	0 52.49	−37 36.5	2.179	1.932	26.8	21.4	62 E	7*	56*
1 26	1 2.86	−36 26.8	2.218	1.942	26.3	21.5	61 E	8*	55*
1 31	1 13.29	−35 15.8	2.255	1.953	25.8	21.5	60 E	8*	54*
243927 2001 OR_{33}									
12 27	0 2.42	− 7 30.4	1.809	1.938	30.2	21.3	82 E	37	60*
1 6	0 18.99	− 5 4.0	1.943	1.968	29.1	21.5	77 E	40	53*
1 16	0 35.98	− 2 38.9	2.078	1.998	27.8	21.6	72 E	42*	48*
1 26	0 53.32	− 0 16.2	2.212	2.028	26.4	21.8	66 E	43*	42*
2 5	1 10.94	+ 2 3.1	2.343	2.058	24.8	21.9	61 E	42*	38*
478808 2012 UM_{174}									
12 27	0 2.65	−27 25.9	1.558	1.615	36.0	19.3	75 E	18	68*
1 1	0 14.06	−24 44.4	1.597	1.625	35.5	19.3	74 E	20	65*
1 6	0 25.28	−22 3.8	1.637	1.636	35.0	19.4	72 E	23	63*
1 11	0 36.33	−19 24.9	1.681	1.649	34.3	19.4	71 E	26	60*
1 16	0 47.24	−16 48.4	1.726	1.661	33.7	19.5	70 E	28*	57*
1 21	0 58.03	−14 14.7	1.773	1.675	33.0	19.6	68 E	30*	54*
1 26	1 8.72	−11 44.6	1.823	1.690	32.3	19.6	66 E	32*	52*
2 5	1 29.83	− 6 56.5	1.927	1.722	30.7	19.7	63 E	35*	46*
2 15	1 50.75	− 2 26.2	2.038	1.756	29.0	19.8	59 E	37*	42*
2 25	2 11.55	+ 1 44.7	2.154	1.793	27.1	20.0	56 E	37*	37*
3 7	2 32.33	+ 5 35.6	2.272	1.832	25.2	20.1	52 E	36*	33*
3 17	2 53.16	+ 9 6.5	2.392	1.873	23.1	20.2	48 E	34*	29*
3 27	3 14.08	+12 17.7	2.512	1.915	21.0	20.2	43 E	31*	26*
4 6	3 35.11	+15 9.7	2.629	1.958	18.8	20.3	39 E	27*	23*
4 16	3 56.26	+17 43.2	2.743	2.003	16.6	20.4	35 E	24*	20*
4 26	4 17.53	+19 59.0	2.852	2.048	14.4	20.4	30 E	20*	16*
5 6	4 38.89	+21 57.8	2.955	2.094	12.1	20.5	26 E	15*	13*
5 16	5 0.30	+23 40.6	3.050	2.140	9.9	20.5	21 E	11*	10*
5 26	5 21.72	+25 8.2	3.136	2.186	7.7	20.5	17 E	8*	6*
6 5	5 43.08	+26 21.6	3.213	2.232	5.6	20.5	12 E	4*	2*
6 15	6 4.33	+27 21.7	3.280	2.279	3.6	20.5	8 E	1*	—
6 25	6 25.39	+28 9.7	3.335	2.325	2.3	20.5	5 E	—	—
7 5	6 46.19	+28 46.8	3.378	2.370	2.7	20.6	6 W	—	—
7 15	7 6.68	+29 14.2	3.409	2.416	4.3	20.8	10 W	4*	—
7 25	7 26.76	+29 33.2	3.427	2.461	6.2	20.9	15 W	9*	—
8 4	7 46.40	+29 45.3	3.433	2.505	8.0	21.0	20 W	14*	2*
8 14	8 5.51	+29 52.1	3.425	2.549	9.9	21.1	26 W	19*	5*
8 24	8 24.05	+29 55.1	3.404	2.592	11.6	21.2	31 W	25*	7*
9 3	8 41.96	+29 56.1	3.370	2.635	13.3	21.3	37 W	31*	9*
9 13	8 59.18	+29 57.0	3.324	2.677	14.8	21.4	43 W	37*	11*
9 23	9 15.63	+29 59.7	3.266	2.718	16.2	21.4	49 W	43*	13*
10 3	9 31.26	+30 6.3	3.197	2.758	17.4	21.4	56 W	49*	15*
10 13	9 45.96	+30 19.1	3.118	2.798	18.4	21.5	62 W	56*	17*
10 23	9 59.62	+30 40.4	3.030	2.836	19.2	21.4	69 W	63*	19*
11 2	10 12.11	+31 12.5	2.937	2.874	19.6	21.4	77 W	69*	21*
11 12	10 23.24	+31 57.7	2.838	2.912	19.8	21.4	84 W	75*	23*
11 22	10 32.79	+32 58.1	2.739	2.948	19.6	21.3	92 W	78	25*
12 2	10 40.51	+34 15.2	2.642	2.983	19.0	21.2	100 W	79	27*
12 12	10 46.08	+35 49.4	2.550	3.018	18.0	21.2	109 W	81	27*
12 22	10 49.17	+37 39.8	2.468	3.051	16.6	21.1	118 W	83	26*
1 1	10 49.43	+39 42.9	2.400	3.084	14.9	21.0	126 W	85	24
1 11	10 46.59	+41 53.0	2.350	3.116	13.1	20.9	134 W	87	22
1 21	10 40.59	+44 1.1	2.322	3.147	11.4	20.8	141 W	89	20
509981 2009 TH_{23}									
12 27	0 3.24	+ 1 3.0	1.495	1.728	34.6	21.1	86 E	46	54*
1 6	0 25.17	+ 2 44.9	1.612	1.756	33.6	21.3	81 E	48	49*
1 16	0 47.20	+ 4 31.0	1.732	1.786	32.4	21.4	77 E	49*	45*
1 26	1 9.28	+ 6 18.6	1.855	1.819	31.1	21.6	72 E	50*	41*
2 5	1 31.37	+ 8 5.3	1.980	1.852	29.6	21.7	68 E	50*	38*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	405895 2006 GJ_{40}								
	h m	° ′			°	m	°	°	°
12 27	0 3.61	+ 1 42.6	1.693	1.899	31.1	20.9	86 E	47	53*
1 6	0 13.97	+ 4 29.2	1.776	1.866	31.2	20.9	79 E	49	46*
1 16	0 26.41	+ 7 19.7	1.856	1.833	30.9	21.0	73 E	52*	39*
1 26	0 40.72	+10 13.6	1.930	1.800	30.4	21.0	68 E	52*	33*
2 5	0 56.77	+13 9.8	1.998	1.769	29.6	21.0	62 E	51*	28*
2 15	1 14.49	+16 7.5	2.059	1.739	28.6	21.0	57 E	49*	23*
2 25	1 33.89	+19 5.1	2.113	1.710	27.5	21.0	53 E	45*	19*
3 7	1 55.00	+22 0.8	2.160	1.682	26.4	21.0	49 E	42*	16*
3 17	2 17.92	+24 52.4	2.201	1.657	25.2	21.0	45 E	39*	13*
3 27	2 42.76	+27 37.0	2.236	1.633	24.0	20.9	42 E	36*	11*
4 6	3 9.62	+30 11.0	2.266	1.612	22.9	20.9	39 E	33*	9*
4 16	3 38.60	+32 30.3	2.291	1.593	21.8	20.9	36 E	30*	7*
4 26	4 9.72	+34 30.3	2.313	1.578	20.7	20.8	34 E	28*	6*
5 6	4 42.86	+36 6.1	2.333	1.565	19.7	20.8	32 E	25*	5*
5 16	5 17.78	+37 12.9	2.352	1.555	18.7	20.8	30 E	23*	5*
5 26	5 54.01	+37 46.7	2.371	1.549	17.8	20.8	28 E	21*	5*
6 5	6 30.93	+37 44.6	2.390	1.546	16.8	20.7	26 E	19*	4*
6 15	7 7.87	+37 5.7	2.411	1.546	15.9	20.7	25 E	18*	4*
6 25	7 44.13	+35 51.3	2.434	1.550	14.8	20.7	23 E	16*	4*
7 5	8 19.15	+34 4.3	2.460	1.558	13.8	20.7	21 E	14*	4*
7 15	8 52.58	+31 48.9	2.487	1.568	12.6	20.7	20 E	13*	4*
7 25	9 24.21	+29 10.3	2.517	1.582	11.4	20.7	18 E	11*	3*
8 4	9 54.02	+26 13.6	2.548	1.598	10.2	20.7	16 E	10*	2*
8 14	10 22.11	+23 3.8	2.580	1.618	8.9	20.7	14 E	8*	—
8 24	10 48.61	+19 45.5	2.613	1.640	7.6	20.7	12 E	6*	—
9 3	11 13.73	+16 22.4	2.644	1.664	6.5	20.7	11 E	5*	—
9 13	11 37.66	+12 57.7	2.673	1.690	5.7	20.7	10 E	3*	—
9 23	12 0.58	+ 9 34.1	2.699	1.718	5.5	20.8	10 E	1*	—
10 3	12 22.66	+ 6 13.6	2.721	1.747	6.0	20.9	11 W	3*	—
10 13	12 44.05	+ 2 57.8	2.737	1.778	7.1	21.0	13 W	6*	—
10 23	13 4.85	− 0 12.0	2.747	1.809	8.6	21.1	16 W	10*	—
11 2	13 25.18	− 3 14.9	2.749	1.842	10.3	21.2	19 W	13*	3*
11 12	13 45.09	− 6 10.3	2.743	1.875	12.1	21.3	23 W	16*	7*
11 22	14 4.63	− 8 57.6	2.727	1.908	13.9	21.4	28 W	19*	12*
12 2	14 23.83	−11 36.8	2.703	1.942	15.8	21.5	32 W	21*	17*
	481844 2008 WH_{94}								
12 27	0 3.67	+26 23.1	2.328	2.621	21.9	21.0	96 E	71	32*
1 6	0 13.94	+25 15.4	2.413	2.578	22.4	21.0	88 E	70	30*
1 16	0 25.96	+24 26.5	2.498	2.534	22.5	21.1	81 E	68*	27*
1 26	0 39.52	+23 54.8	2.581	2.490	22.3	21.1	74 E	64*	24*
2 5	0 54.41	+23 37.8	2.660	2.445	21.8	21.1	67 E	59*	21*
2 15	1 10.49	+23 33.0	2.732	2.400	20.9	21.1	60 E	53*	18*
2 25	1 27.65	+23 37.9	2.796	2.354	19.9	21.1	54 E	48*	15*
3 7	1 45.80	+23 49.6	2.851	2.308	18.6	21.0	48 E	42*	13*
3 17	2 4.88	+24 5.8	2.897	2.261	17.2	21.0	42 E	36*	11*
3 27	2 24.84	+24 23.9	2.933	2.215	15.6	20.9	37 E	30*	9*
4 6	2 45.64	+24 41.3	2.959	2.168	13.9	20.8	31 E	25*	8*
4 16	3 7.26	+24 55.7	2.974	2.121	12.1	20.7	26 E	20*	6*
4 26	3 29.65	+25 4.8	2.979	2.075	10.2	20.6	21 E	15*	4*
5 6	3 52.76	+25 6.2	2.975	2.029	8.2	20.5	17 E	10*	3*
5 16	4 16.56	+24 57.8	2.960	1.983	6.1	20.3	12 E	5*	1*
5 26	4 40.96	+24 37.4	2.937	1.939	4.1	20.1	8 E	1*	—
6 5	5 5.90	+24 3.2	2.906	1.895	1.9	19.9	4 E	—	—
6 15	5 31.30	+23 13.3	2.868	1.852	0.2	19.7	0 W	—	—
6 25	5 57.04	+22 6.1	2.824	1.812	2.4	19.8	4 W	—	—
7 5	6 23.04	+20 40.4	2.774	1.773	4.6	19.9	8 W	—	2*
7 15	6 49.20	+18 55.3	2.720	1.736	6.7	19.9	12 W	—	5*
7 25	7 15.44	+16 50.3	2.663	1.702	8.8	19.9	15 W	1*	8*
8 4	7 41.69	+14 25.1	2.605	1.670	10.9	19.9	18 W	4*	11*
8 14	8 7.91	+11 40.2	2.546	1.642	12.9	19.9	21 W	6*	14*
8 24	8 34.06	+ 8 36.6	2.488	1.618	14.8	19.8	24 W	9*	16*
9 3	9 0.16	+ 5 15.9	2.432	1.598	16.6	19.8	27 W	11*	19*
9 13	9 26.22	+ 1 40.1	2.379	1.581	18.2	19.8	29 W	13*	21*
9 23	9 52.26	− 2 7.8	2.329	1.570	19.7	19.8	32 W	15*	23*
10 3	10 18.37	− 6 4.4	2.285	1.563	21.1	19.8	34 W	16*	26*
10 13	10 44.59	−10 5.8	2.245	1.561	22.4	19.8	37 W	17*	28*
10 23	11 10.99	−14 7.7	2.210	1.564	23.5	19.8	39 W	17*	30*
10 28	11 24.28	−16 7.4	2.194	1.567	24.0	19.8	40 W	17*	32*
11 2	11 37.63	−18 5.7	2.179	1.572	24.5	19.8	41 W	17*	33*
11 7	11 51.05	−20 1.8	2.165	1.577	24.9	19.8	42 W	16*	34*
11 12	12 4.54	−21 55.4	2.152	1.584	25.4	19.8	43 W	16*	35*
11 17	12 18.10	−23 45.9	2.139	1.592	25.8	19.8	44 W	15*	37*
11 22	12 31.72	−25 32.7	2.127	1.601	26.2	19.8	46 W	15*	38*
11 27	12 45.41	−27 15.7	2.114	1.611	26.6	19.9	47 W	14*	40*
12 2	12 59.15	−28 54.3	2.102	1.622	27.0	19.9	48 W	13*	41*
12 7	13 12.93	−30 28.2	2.090	1.634	27.3	19.9	50 W	12*	43*
12 12	13 26.73	−31 57.1	2.078	1.647	27.7	19.9	51 W	11*	44*
12 17	13 40.51	−33 20.8	2.065	1.661	28.0	19.9	53 W	10*	46*
12 22	13 54.27	−34 39.0	2.051	1.676	28.4	19.9	54 W	10*	48*
12 27	14 7.97	−35 51.8	2.037	1.691	28.7	19.9	56 W	9*	50*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	481844 2008 WH_{94} *(continuation)*								
	h m	° ′			°	m	°	°	°
1 1	14 21.57	−36 58.9	2.021	1.707	29.1	20.0	57 W	8*	51*
1 6	14 35.03	−38 0.5	2.005	1.725	29.4	20.0	59 W	7*	53*
1 11	14 48.29	−38 56.3	1.987	1.742	29.7	20.0	61 W	6*	55*
1 16	15 1.32	−39 46.7	1.968	1.761	29.9	20.0	63 W	5*	57*
1 21	15 14.05	−40 31.6	1.947	1.779	30.2	20.0	65 W	4*	59*
	5230 Asahina								
12 27	0 3.95	− 6 30.5	1.664	1.826	32.3	17.0	83 E	38	60*
1 6	0 20.03	− 5 59.0	1.732	1.784	32.4	17.0	77 E	39	54*
1 16	0 37.85	− 5 10.3	1.794	1.744	32.2	17.0	71 E	40*	49*
1 26	0 57.24	− 4 7.4	1.851	1.706	31.8	17.0	66 E	39*	45*
2 5	1 18.04	− 2 53.2	1.902	1.670	31.2	17.0	61 E	38*	42*
2 15	1 40.17	− 1 30.4	1.947	1.636	30.5	17.0	57 E	37*	39*
2 25	2 3.57	− 0 1.8	1.986	1.605	29.7	17.0	53 E	35*	37*
3 7	2 28.17	+ 1 29.8	2.020	1.578	28.8	17.0	50 E	32*	35*
3 17	2 53.95	+ 3 1.8	2.051	1.554	28.0	17.0	47 E	29*	33*
3 27	3 20.86	+ 4 30.9	2.078	1.534	27.1	16.9	44 E	26*	32*
4 6	3 48.83	+ 5 54.4	2.105	1.519	26.2	16.9	42 E	23*	31*
4 16	4 17.79	+ 7 9.4	2.131	1.508	25.3	16.9	40 E	20*	30*
4 26	4 47.58	+ 8 13.0	2.158	1.501	24.4	16.9	38 E	17*	29*
5 6	5 18.05	+ 9 2.8	2.188	1.500	23.5	16.9	36 E	13*	28*
5 16	5 49.00	+ 9 36.8	2.221	1.504	22.5	16.9	35 E	10*	27*
5 26	6 20.19	+ 9 53.7	2.257	1.512	21.4	16.9	33 E	7*	26*
6 5	6 51.35	+ 9 52.8	2.299	1.525	20.2	16.9	31 E	3*	25*
6 15	7 22.26	+ 9 34.4	2.344	1.543	18.9	17.0	29 E	—	23*
6 25	7 52.69	+ 8 59.4	2.394	1.565	17.5	17.0	28 E	—	21*
7 5	8 22.46	+ 8 9.4	2.448	1.590	15.9	17.0	25 E	—	19*
7 15	8 51.45	+ 7 6.1	2.505	1.620	14.2	17.0	23 E	—	17*
7 25	9 19.56	+ 5 52.0	2.564	1.652	12.5	17.1	21 E	—	14*
8 4	9 46.77	+ 4 29.3	2.623	1.687	10.6	17.1	18 E	—	11*
8 14	10 13.07	+ 3 0.2	2.683	1.724	8.7	17.1	15 E	—	8*
8 24	10 38.49	+ 1 27.0	2.740	1.763	6.8	17.1	12 E	—	4*
9 3	11 3.08	− 0 8.4	2.795	1.804	4.8	17.1	9 E	—	1*
9 13	11 26.90	− 1 44.1	2.844	1.846	3.1	17.1	6 E	—	—
9 23	11 50.00	− 3 18.5	2.888	1.889	2.2	17.1	4 W	—	—
10 3	12 12.45	− 4 50.1	2.926	1.933	3.0	17.3	6 W	—	—
10 13	12 34.30	− 6 17.5	2.954	1.977	4.8	17.4	10 W	2*	2*
10 23	12 55.57	− 7 39.3	2.974	2.022	6.8	17.6	14 W	6*	4*
11 2	13 16.29	− 8 54.6	2.984	2.067	8.8	17.7	19 W	10*	7*
11 12	13 36.47	−10 2.2	2.982	2.112	10.8	17.9	24 W	14*	11*
11 22	13 56.08	−11 1.0	2.969	2.156	12.7	18.0	29 W	18*	14*
12 2	14 15.09	−11 50.4	2.945	2.201	14.6	18.1	34 W	22*	19*
12 12	14 33.43	−12 29.3	2.909	2.245	16.4	18.2	40 W	25*	24*
12 22	14 51.01	−12 57.1	2.861	2.288	18.0	18.2	46 W	27*	30*
1 1	15 7.73	−13 13.2	2.802	2.331	19.5	18.3	52 W	29*	37*
1 11	15 23.44	−13 16.8	2.732	2.374	20.7	18.3	59 W	30*	44*
1 21	15 37.98	−13 7.7	2.653	2.415	21.7	18.3	65 W	31*	51*
	417655 2006 YF_{13}								
12 27	0 4.13	−15 37.1	0.497	1.018	71.7	20.9	80 E	29	65*
1 1	0 32.88	−13 12.6	0.527	1.049	68.2	21.0	82 E	32	65*
1 6	0 58.37	−10 51.5	0.561	1.078	65.1	21.1	84 E	34	65*
1 11	1 21.11	− 8 36.7	0.598	1.105	62.5	21.2	85 E	36	64*
1 16	1 41.62	− 6 29.6	0.639	1.130	60.2	21.3	85 E	39	62*
1 21	2 0.34	− 4 30.6	0.680	1.153	58.3	21.5	86 E	40	61*
	249725 2000 SY_{25}								
12 27	0 4.40	+ 1 35.5	1.379	1.641	36.7	20.1	86 E	47	54*
1 6	0 25.56	+ 3 7.0	1.458	1.634	36.5	20.2	82 E	48	49*
1 16	0 47.87	+ 4 48.4	1.537	1.630	36.0	20.3	77 E	50*	45*
1 26	1 11.14	+ 6 36.3	1.617	1.628	35.3	20.4	73 E	51*	41*
2 5	1 35.24	+ 8 27.1	1.698	1.630	34.4	20.4	69 E	51*	38*
2 15	2 0.06	+10 17.6	1.779	1.635	33.3	20.5	65 E	50*	36*
2 25	2 25.52	+12 4.5	1.861	1.643	32.0	20.6	62 E	48*	33*
3 7	2 51.53	+13 44.9	1.944	1.653	30.7	20.7	58 E	45*	32*
3 17	3 18.01	+15 16.1	2.027	1.667	29.2	20.7	55 E	43*	30*
3 27	3 44.86	+16 35.8	2.110	1.682	27.7	20.8	52 E	39*	29*
4 6	4 11.96	+17 42.0	2.194	1.700	26.1	20.8	48 E	36*	28*
4 16	4 39.21	+18 33.3	2.277	1.721	24.4	20.9	45 E	32*	27*
4 26	5 6.46	+19 8.7	2.360	1.743	22.6	21.0	42 E	28*	26*
5 6	5 33.58	+19 27.7	2.441	1.767	20.8	21.0	39 E	23*	25*
5 16	6 0.43	+19 30.2	2.522	1.793	19.0	21.0	35 E	19*	23*
5 26	6 26.89	+19 16.6	2.600	1.820	17.1	21.1	32 E	14*	22*
6 5	6 52.84	+18 47.7	2.676	1.849	15.2	21.1	29 E	10*	20*
6 15	7 18.20	+18 4.3	2.748	1.878	13.3	21.1	25 E	6*	18*
6 25	7 42.89	+17 7.9	2.817	1.909	11.3	21.2	22 E	2*	15*
7 5	8 6.88	+15 59.6	2.881	1.939	9.3	21.2	18 E	—	12*
7 15	8 30.14	+14 41.0	2.939	1.971	7.4	21.1	14 E	—	8*
7 25	8 52.67	+13 13.5	2.992	2.003	5.4	21.1	11 E	—	5*
8 4	9 14.48	+11 38.5	3.037	2.035	3.6	21.1	7 E	—	1*
8 14	9 35.60	+ 9 57.4	3.075	2.067	2.2	21.1	5 E	—	—
8 24	9 56.05	+ 8 11.5	3.105	2.099	2.3	21.1	5 W	—	—

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
249725 2000 SY_{25} *(continuation)*									
	h m	° ′			°	m	°	°	°
9 3	10 15.86	+ 6 22.2	3.126	2.131	3.8	21.3	8 W	—	2*
9 13	10 35.08	+ 4 30.5	3.136	2.163	5.6	21.4	12 W	3*	5*
467496 2006 VM_{63}									
12 27	0 4.87	+ 0 18.6	1.442	1.686	35.6	21.4	86 E	45	55*
1 6	0 26.85	+ 2 43.9	1.561	1.720	34.4	21.6	82 E	48	50*
1 16	0 48.83	+ 5 6.6	1.685	1.757	33.1	21.7	77 E	50*	45*
1 26	1 10.81	+ 7 25.1	1.812	1.795	31.7	21.9	73 E	51*	41*
2 5	1 32.76	+ 9 37.7	1.942	1.834	30.1	22.1	69 E	51*	37*
360211 1999 CS_{45}									
12 27	0 5.05	− 7 35.7	1.990	2.106	27.6	21.1	83 E	37	60*
1 6	0 17.32	− 5 56.5	2.063	2.062	27.6	21.2	76 E	39	54*
1 16	0 31.36	− 4 7.0	2.132	2.019	27.2	21.2	70 E	40*	47*
1 26	0 46.96	− 2 8.9	2.196	1.977	26.6	21.2	64 E	41*	42*
2 5	1 3.99	− 0 4.0	2.253	1.936	25.8	21.2	59 E	40*	37*
2 15	1 22.36	+ 2 5.8	2.303	1.896	24.9	21.2	54 E	38*	33*
2 25	1 41.99	+ 4 18.8	2.348	1.858	23.8	21.1	49 E	35*	30*
3 7	2 2.85	+ 6 32.9	2.387	1.822	22.6	21.1	45 E	32*	27*
3 17	2 24.91	+ 8 45.9	2.420	1.789	21.3	21.0	41 E	29*	24*
3 27	2 48.17	+10 55.4	2.449	1.758	20.0	21.0	37 E	25*	22*
4 6	3 12.61	+12 58.9	2.475	1.730	18.6	20.9	33 E	22*	20*
4 16	3 38.21	+14 53.8	2.497	1.705	17.2	20.9	30 E	18*	18*
4 26	4 4.93	+16 37.4	2.517	1.684	15.8	20.8	27 E	15*	16*
5 6	4 32.68	+18 6.8	2.535	1.666	14.3	20.7	24 E	12*	14*
5 16	5 1.34	+19 19.8	2.553	1.653	12.9	20.7	21 E	8*	12*
5 26	5 30.74	+20 14.1	2.571	1.643	11.4	20.6	19 E	5*	11*
6 5	6 0.68	+20 48.1	2.589	1.638	9.9	20.6	16 E	3*	9*
6 15	6 30.92	+21 0.8	2.608	1.638	8.4	20.5	14 E	—	7*
6 25	7 1.18	+20 51.9	2.628	1.642	6.8	20.5	11 E	—	5*
7 5	7 31.23	+20 22.2	2.648	1.650	5.2	20.4	9 E	—	2*
7 15	8 0.84	+19 32.7	2.670	1.662	3.6	20.4	6 E	—	—
7 25	8 29.81	+18 25.4	2.691	1.678	2.0	20.3	3 E	—	—
8 4	8 58.01	+17 2.7	2.713	1.699	0.3	20.2	1 E	—	—
8 14	9 25.36	+15 27.1	2.734	1.722	1.4	20.4	2 W	—	—
8 24	9 51.78	+13 41.4	2.754	1.750	3.1	20.5	5 W	—	—
9 3	10 17.30	+11 48.2	2.771	1.780	4.8	20.7	9 W	2*	—
9 13	10 41.91	+ 9 50.2	2.785	1.812	6.6	20.8	12 W	6*	1*
9 23	11 5.65	+ 7 49.7	2.795	1.848	8.4	20.9	16 W	9*	3*
10 3	11 28.56	+ 5 49.1	2.800	1.885	10.1	21.1	19 W	13*	5*
10 13	11 50.69	+ 3 50.4	2.799	1.924	11.9	21.2	23 W	16*	7*
10 23	12 12.05	+ 1 55.4	2.791	1.965	13.6	21.3	28 W	20*	10*
11 2	12 32.67	+ 0 5.7	2.776	2.006	15.3	21.4	32 W	24*	13*
11 12	12 52.56	− 1 37.3	2.752	2.049	16.9	21.5	37 W	28*	17*
469503 2003 DY_9									
12 27	0 6.78	+13 21.6	1.803	2.076	28.3	21.3	92 E	58	44*
1 6	0 16.06	+14 56.1	1.889	2.040	28.7	21.4	84 E	60	39*
1 16	0 27.64	+16 40.8	1.971	2.004	28.6	21.4	78 E	61*	33*
1 26	0 41.31	+18 34.4	2.048	1.969	28.3	21.5	71 E	60*	28*
2 5	0 56.89	+20 35.3	2.118	1.935	27.7	21.5	66 E	57*	23*
2 15	1 14.31	+22 41.7	2.182	1.902	26.9	21.5	61 E	53*	19*
2 25	1 33.54	+24 51.6	2.238	1.869	26.0	21.5	56 E	49*	16*
3 7	1 54.56	+27 2.4	2.286	1.838	24.9	21.5	51 E	45*	13*
3 17	2 17.44	+29 11.5	2.328	1.808	23.9	21.4	47 E	41*	11*
3 27	2 42.23	+31 15.4	2.364	1.781	22.8	21.4	44 E	38*	9*
4 6	3 8.97	+33 10.6	2.395	1.755	21.6	21.4	40 E	34*	7*
4 16	3 37.68	+34 52.8	2.421	1.731	20.5	21.3	37 E	31*	6*
4 26	4 8.28	+36 17.6	2.443	1.710	19.4	21.3	34 E	28*	5*
5 6	4 40.59	+37 20.6	2.463	1.691	18.3	21.2	32 E	26*	4*
5 16	5 14.31	+37 57.6	2.481	1.675	17.2	21.2	29 E	23*	4*
5 26	5 48.97	+38 5.6	2.499	1.663	16.1	21.2	27 E	21*	4*
6 5	6 24.03	+37 42.3	2.517	1.653	15.0	21.1	25 E	18*	3*
6 15	6 58.89	+36 47.3	2.535	1.647	13.9	21.1	23 E	16*	3*
6 25	7 33.02	+35 21.7	2.554	1.644	12.7	21.1	21 E	14*	3*
7 5	8 5.99	+33 28.2	2.575	1.644	11.4	21.0	19 E	12*	2*
7 15	8 37.52	+31 10.0	2.597	1.648	10.1	21.0	17 E	10*	1*
7 25	9 7.46	+28 31.5	2.619	1.655	8.8	21.0	14 E	8*	—
8 4	9 35.81	+25 36.6	2.642	1.666	7.5	21.0	12 E	6*	—
8 14	10 2.64	+22 29.4	2.665	1.679	6.3	20.9	11 E	4*	—
8 24	10 28.07	+19 13.8	2.687	1.696	5.3	20.9	9 E	3*	—
9 3	10 52.26	+15 52.7	2.707	1.715	4.9	20.9	8 E	1*	—
9 13	11 15.37	+12 29.0	2.725	1.737	5.1	21.0	9 W	2*	—
9 23	11 37.54	+ 9 5.1	2.738	1.761	6.0	21.1	11 W	4*	—
10 3	11 58.93	+ 5 42.6	2.747	1.788	7.4	21.2	13 W	7*	—
10 13	12 19.65	+ 2 23.2	2.750	1.816	9.0	21.3	17 W	10*	1*
10 23	12 39.79	− 0 52.0	2.747	1.846	10.8	21.4	20 W	14*	5*
256412 2007 BT_2									
12 27	0 7.36	+ 2 32.8	1.677	1.903	31.1	20.8	87 E	48	53*
1 6	0 16.54	+ 5 11.6	1.783	1.885	30.9	20.9	80 E	50	46*
1 16	0 27.67	+ 7 51.4	1.885	1.866	30.4	20.9	74 E	52*	39*
1 26	0 40.51	+10 32.3	1.980	1.845	29.6	21.0	68 E	52*	33*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
256412 2007 BT_2 *(continuation)*									
	h m	° ′			°	m	°	°	°
2 5	0 54.88	+13 13.9	2.066	1.822	28.5	21.0	62 E	51*	28*
2 15	1 10.69	+15 56.1	2.144	1.798	27.3	21.1	56 E	48*	23*
2 25	1 27.90	+18 38.3	2.212	1.773	25.9	21.0	51 E	44*	19*
3 7	1 46.53	+21 19.5	2.270	1.747	24.5	21.0	47 E	40*	15*
3 17	2 6.65	+23 58.7	2.317	1.720	23.0	21.0	42 E	36*	12*
3 27	2 28.36	+26 34.2	2.354	1.692	21.5	20.9	39 E	32*	9*
4 6	2 51.79	+29 4.0	2.381	1.663	20.2	20.9	35 E	29*	6*
4 16	3 17.12	+31 25.5	2.399	1.633	18.8	20.8	32 E	26*	4*
4 26	3 44.49	+33 35.6	2.408	1.602	17.6	20.8	29 E	23*	3*
5 6	4 14.02	+35 30.1	2.409	1.572	16.6	20.7	26 E	20*	1*
5 16	4 45.80	+37 4.6	2.404	1.541	15.7	20.6	24 E	18*	—
5 26	5 19.73	+38 14.0	2.393	1.510	15.0	20.5	23 E	17*	—
6 5	5 55.59	+38 52.9	2.378	1.479	14.4	20.4	21 E	15*	—
6 10	6 14.11	+38 59.3	2.369	1.464	14.2	20.4	21 E	15*	—
6 15	6 32.94	+38 56.4	2.360	1.449	14.0	20.4	20 E	14*	—
6 20	6 51.99	+38 43.7	2.351	1.435	13.8	20.3	20 E	14*	—
6 25	7 11.17	+38 20.8	2.341	1.421	13.6	20.3	19 E	13*	—
6 30	7 30.39	+37 47.4	2.331	1.407	13.4	20.3	19 E	13*	—
7 5	7 49.56	+37 3.7	2.321	1.393	13.3	20.2	18 E	12*	—
7 10	8 8.59	+36 9.5	2.312	1.380	13.1	20.2	18 E	12*	—
7 15	8 27.42	+35 5.1	2.303	1.367	12.9	20.1	17 E	11*	—
7 20	8 45.96	+33 50.9	2.294	1.355	12.7	20.1	17 E	11*	—
7 25	9 4.16	+32 27.2	2.286	1.344	12.4	20.1	17 E	11*	—
7 30	9 21.99	+30 54.6	2.279	1.333	12.2	20.0	16 E	10*	—
8 4	9 39.42	+29 13.6	2.272	1.322	11.8	20.0	16 E	10*	—
8 9	9 56.44	+27 24.9	2.266	1.313	11.5	20.0	15 E	9*	—
8 14	10 13.05	+25 29.4	2.261	1.304	11.1	19.9	14 E	8*	—
8 19	10 29.25	+23 27.6	2.257	1.296	10.6	19.9	14 E	8*	—
8 24	10 45.06	+21 20.3	2.254	1.289	10.1	19.9	13 E	7*	—
8 29	11 0.51	+19 8.3	2.252	1.283	9.6	19.8	12 E	6*	—
9 3	11 15.62	+16 52.3	2.251	1.278	9.0	19.8	11 E	5*	—
9 8	11 30.43	+14 32.9	2.250	1.274	8.4	19.8	11 E	5*	—
9 13	11 44.97	+12 11.0	2.250	1.270	7.7	19.7	10 E	4*	—
9 18	11 59.28	+ 9 47.1	2.251	1.268	7.1	19.7	9 E	3*	—
9 23	12 13.40	+ 7 22.0	2.253	1.267	6.4	19.7	8 E	2*	—
10 3	12 41.22	+ 2 30.1	2.257	1.268	5.1	19.6	6 E	—	—
10 13	13 8.76	− 2 20.2	2.262	1.272	4.2	19.6	5 W	—	—
10 23	13 36.31	− 7 4.9	2.268	1.281	4.2	19.6	5 W	—	—
11 2	14 4.17	−11 40.1	2.274	1.294	5.1	19.7	7 W	—	—
11 12	14 32.64	−16 2.4	2.280	1.310	6.5	19.8	9 W	1*	1*
11 22	15 1.93	−20 8.4	2.284	1.329	8.3	19.9	11 W	1*	4*
12 2	15 32.27	−23 54.7	2.287	1.351	10.1	20.0	14 W	2*	7*
12 12	16 3.77	−27 18.2	2.288	1.375	12.0	20.1	17 W	1*	10*
12 22	16 36.48	−30 15.7	2.287	1.402	13.8	20.2	20 W	1*	14*
1 1	17 10.33	−32 44.6	2.283	1.430	15.5	20.3	23 W	—	17*
1 11	17 45.13	−34 42.9	2.278	1.459	17.2	20.4	26 W	—	20*
1 21	18 20.51	−36 9.5	2.270	1.489	18.7	20.5	29 W	—	23*
7025 1993 QA									
12 27	0 7.51	−19 30.9	0.771	1.127	58.9	20.1	79 E	25	67*
1 6	0 32.84	−16 5.9	0.764	1.090	61.1	20.1	76 E	29	62*
1 16	1 0.29	−12 10.2	0.750	1.059	63.2	20.0	74 E	33	58*
1 26	1 29.92	− 7 43.4	0.730	1.035	65.1	20.0	73 E	37*	54*
2 5	2 1.88	− 2 46.7	0.708	1.019	66.8	19.9	72 E	41*	51*
2 15	2 36.56	+ 2 37.0	0.686	1.011	68.1	19.9	72 E	46*	47*
2 20	2 55.07	+ 5 26.6	0.676	1.011	68.5	19.9	72 E	48*	46*
2 25	3 14.45	+ 8 19.3	0.667	1.013	68.7	19.9	72 E	50*	44*
3 2	3 34.76	+11 13.0	0.659	1.017	68.7	19.8	73 E	52*	43*
3 7	3 56.04	+14 5.0	0.654	1.023	68.5	19.8	74 E	54*	42*
3 12	4 18.36	+16 52.3	0.652	1.031	68.1	19.8	74 E	56*	40*
3 17	4 41.70	+19 31.4	0.652	1.042	67.5	19.8	75 E	58*	39*
3 22	5 6.03	+21 58.6	0.655	1.054	66.7	19.8	76 E	60*	38*
3 27	5 31.21	+24 10.3	0.662	1.068	65.7	19.9	77 E	62*	37*
4 1	5 57.08	+26 3.5	0.671	1.083	64.5	19.9	78 E	63*	36*
4 6	6 23.39	+27 35.6	0.685	1.100	63.2	19.9	79 E	64*	35*
4 11	6 49.89	+28 45.2	0.701	1.119	61.9	20.0	80 E	65*	34*
4 16	7 16.26	+29 31.9	0.721	1.138	60.5	20.0	81 E	66*	34*
4 21	7 42.21	+29 56.0	0.745	1.159	59.1	20.1	81 E	66*	34*
4 26	8 7.45	+29 58.9	0.771	1.180	57.6	20.2	82 E	66*	34*
5 1	8 31.76	+29 42.7	0.800	1.202	56.2	20.3	82 E	65*	34
5 6	8 55.00	+29 9.6	0.832	1.224	54.8	20.3	83 E	64*	35
5 11	9 17.11	+28 22.0	0.867	1.247	53.5	20.4	83 E	63*	36
5 16	9 38.06	+27 22.3	0.903	1.270	52.2	20.5	83 E	61*	37
5 21	9 57.87	+26 12.9	0.943	1.293	50.9	20.6	83 E	60*	38
5 26	10 16.59	+24 55.7	0.984	1.317	49.7	20.7	82 E	58*	39
5 31	10 34.28	+23 32.6	1.027	1.340	48.5	20.8	82 E	55*	40
6 5	10 51.03	+22 5.0	1.072	1.364	47.4	20.9	82 E	53*	42
6 10	11 6.96	+20 34.1	1.119	1.387	46.3	21.0	81 E	51*	43
6 15	11 22.13	+19 1.0	1.167	1.410	45.2	21.1	80 E	49*	45
6 20	11 36.64	+17 26.5	1.216	1.433	44.2	21.2	79 E	46*	47

7025 1993 *QA* (*continuation*)

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 25	11 50.57	+15 51.5	1.267	1.456	43.1	21.3	78 E	44*	48*
6 30	12 3.97	+14 16.4	1.319	1.478	42.1	21.4	77 E	42*	50*
7 5	12 16.93	+12 41.7	1.372	1.501	41.2	21.5	76 E	40*	51*

208879 2002 TF_{58}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	0 8.13	+21 34.2	2.097	2.394	24.2	21.0	95 E	67	37*
1 6	0 15.17	+22 13.5	2.227	2.390	24.3	21.2	87 E	67	33*
1 16	0 24.22	+23 4.9	2.354	2.385	24.0	21.3	80 E	67*	28*
1 26	0 34.98	+24 7.4	2.475	2.378	23.3	21.4	73 E	64*	23*
2 5	0 47.22	+25 19.3	2.588	2.370	22.4	21.4	66 E	59*	18*
2 15	1 0.78	+26 39.1	2.692	2.361	21.3	21.5	60 E	54*	14*
2 25	1 15.55	+28 5.4	2.786	2.350	20.0	21.5	54 E	48*	11*
3 7	1 31.44	+29 36.6	2.869	2.338	18.6	21.5	49 E	43*	7*
3 17	1 48.43	+31 11.3	2.941	2.324	17.2	21.5	44 E	37*	4*
3 27	2 6.51	+32 47.8	3.000	2.309	15.7	21.5	39 E	32*	1*
4 6	2 25.68	+34 24.6	3.047	2.293	14.3	21.4	34 E	28*	—
4 16	2 45.99	+36 0.2	3.082	2.275	12.9	21.4	30 E	24*	—
4 26	3 7.46	+37 32.7	3.106	2.255	11.7	21.3	27 E	20*	—
5 6	3 30.13	+39 0.3	3.118	2.235	10.6	21.3	24 E	16*	—
5 16	3 54.05	+40 21.2	3.118	2.213	9.8	21.2	22 E	14*	—
5 26	4 19.19	+41 33.2	3.109	2.189	9.4	21.2	21 E	11*	—
6 5	4 45.55	+42 34.4	3.089	2.165	9.3	21.1	20 W	11*	—
6 15	5 13.07	+43 22.5	3.060	2.139	9.6	21.1	21 W	13*	—
6 25	5 41.60	+43 55.7	3.023	2.111	10.2	21.1	22 W	15*	—
7 5	6 10.98	+44 12.1	2.977	2.083	11.1	21.1	23 W	17*	—
7 15	6 40.98	+44 10.1	2.925	2.053	12.3	21.0	25 W	19*	—
7 25	7 11.31	+43 48.7	2.866	2.023	13.5	21.0	28 W	21*	—
8 4	7 41.69	+43 7.1	2.801	1.991	14.9	21.0	30 W	24*	—
8 14	8 11.85	+42 5.5	2.730	1.958	16.3	20.9	33 W	26*	—
8 24	8 41.50	+40 44.0	2.655	1.924	17.8	20.9	36 W	29*	—
9 3	9 10.49	+39 3.6	2.576	1.890	19.3	20.8	38 W	31*	—
9 13	9 38.66	+37 5.5	2.492	1.855	20.9	20.8	41 W	34*	—
9 23	10 5.93	+34 50.9	2.406	1.819	22.4	20.7	44 W	37*	1*
10 3	10 32.29	+32 21.3	2.316	1.782	24.1	20.6	47 W	40*	3*
10 13	10 57.74	+29 38.1	2.223	1.746	25.7	20.5	49 W	43*	5*
10 23	11 22.33	+26 42.5	2.127	1.709	27.4	20.4	52 W	46*	8*
11 2	11 46.14	+23 35.4	2.029	1.672	29.1	20.3	55 W	49*	11*
11 12	12 9.27	+20 17.3	1.929	1.636	30.9	20.2	58 W	51*	15*
11 22	12 31.78	+16 48.6	1.826	1.600	32.7	20.1	61 W	53*	19*
12 2	12 53.81	+13 8.5	1.723	1.565	34.5	20.0	64 W	53*	24*
12 12	13 15.46	+ 9 16.3	1.618	1.532	36.3	19.8	67 W	52*	30*
12 22	13 36.84	+ 5 10.1	1.512	1.499	38.1	19.7	70 W	49*	37*
1 1	13 58.12	+ 0 47.1	1.408	1.469	39.9	19.6	73 W	46*	45*
1 11	14 19.45	− 3 55.8	1.305	1.442	41.6	19.4	77 W	41	53*
1 21	14 41.04	− 9 2.8	1.205	1.417	43.2	19.2	80 W	36	61*

204517 2005 EL_{21}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	0 8.42	− 7 49.8	1.468	1.671	35.8	19.1	83 E	37	61*
1 6	0 28.05	− 5 17.6	1.537	1.656	35.6	19.2	79 E	40	55*
1 16	0 48.98	− 2 37.3	1.606	1.646	35.2	19.3	75 E	42*	50*
1 26	1 11.05	+ 0 8.1	1.677	1.639	34.5	19.3	71 E	44*	46*
2 5	1 34.10	+ 2 55.1	1.748	1.636	33.7	19.4	67 E	45*	42*
2 15	1 58.05	+ 5 40.4	1.821	1.637	32.6	19.4	63 E	45*	38*
2 25	2 22.84	+ 8 20.6	1.895	1.642	31.5	19.5	60 E	44*	35*
3 7	2 48.35	+10 52.5	1.971	1.651	30.2	19.6	57 E	43*	33*
3 17	3 14.54	+13 13.1	2.049	1.664	28.8	19.6	54 E	40*	31*
3 27	3 41.29	+15 19.7	2.129	1.681	27.3	19.7	50 E	38*	29*
4 6	4 8.49	+17 10.1	2.211	1.701	25.7	19.7	47 E	35*	28*
4 16	4 36.02	+18 42.5	2.294	1.725	24.0	19.8	44 E	31*	26*
4 26	5 3.70	+19 55.8	2.379	1.751	22.2	19.9	41 E	28*	25*
5 6	5 31.37	+20 49.4	2.464	1.780	20.4	19.9	38 E	24*	23*
5 16	5 58.86	+21 23.3	2.549	1.811	18.5	20.0	35 E	20*	22*
5 26	6 26.00	+21 38.1	2.633	1.845	16.6	20.0	31 E	16*	20*
6 5	6 52.64	+21 34.9	2.715	1.880	14.7	20.1	28 E	12*	18*
6 15	7 18.65	+21 14.9	2.795	1.918	12.7	20.1	24 E	8*	16*
6 25	7 43.93	+20 39.9	2.872	1.956	10.6	20.1	21 E	5*	13*
7 5	8 8.42	+19 51.5	2.945	1.995	8.6	20.1	17 E	2*	10*
7 15	8 32.08	+18 51.6	3.012	2.036	6.5	20.1	13 E	—	7*
7 25	8 54.89	+17 42.2	3.073	2.077	4.5	20.1	9 E	—	3*
8 4	9 16.86	+16 24.9	3.127	2.119	2.4	20.1	5 E	—	—
8 14	9 38.02	+15 1.4	3.173	2.161	0.5	20.0	1 E	—	—
8 24	9 58.38	+13 33.4	3.210	2.203	1.8	20.2	4 W	—	—
9 3	10 17.98	+12 2.4	3.238	2.245	3.8	20.4	9 W	2*	—
9 13	10 36.85	+10 29.8	3.255	2.288	5.8	20.5	13 W	7*	2*
9 23	10 55.02	+ 8 57.0	3.260	2.330	7.8	20.7	18 W	12*	4*
10 3	11 12.50	+ 7 25.2	3.255	2.372	9.7	20.8	24 W	17*	8*
10 13	11 29.30	+ 5 55.7	3.237	2.414	11.6	20.9	29 W	22*	11*
10 23	11 45.40	+ 4 29.7	3.206	2.455	13.3	21.0	35 W	27*	15*
11 2	12 0.79	+ 3 8.2	3.164	2.496	15.0	21.0	41 W	31*	19*
11 12	12 15.42	+ 1 52.6	3.109	2.536	16.5	21.1	47 W	36*	23*
11 22	12 29.21	+ 0 43.9	3.042	2.576	17.9	21.1	53 W	39*	29*
12 2	12 42.08	− 0 16.6	2.965	2.615	19.1	21.1	60 W	42*	34*

204517 2005 EL_{21} (*continuation*)

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 12	12 53.89	− 1 7.9	2.877	2.654	20.0	21.1	67 W	43*	41*
12 22	13 4.49	− 1 48.6	2.782	2.692	20.6	21.1	75 W	43*	48*
1 1	13 13.69	− 2 17.7	2.680	2.730	20.9	21.0	82 W	43	55*
1 11	13 21.26	− 2 33.9	2.574	2.766	20.8	21.0	91 W	42	61*
1 21	13 26.98	− 2 36.2	2.467	2.802	20.3	20.9	99 W	42	66*

306517 1999 *WY*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	0 8.54	+34 10.4	1.095	1.593	37.4	17.2	100 E	79	26*
1 1	0 25.45	+33 33.7	1.134	1.607	37.2	17.3	99 E	79	26*
1 6	0 42.23	+32 57.5	1.175	1.622	37.0	17.4	97 E	78	26*
1 11	0 58.82	+32 22.2	1.220	1.638	36.7	17.5	95 E	77	26*
1 16	1 15.18	+31 47.9	1.268	1.655	36.4	17.6	94 E	77	27*
1 21	1 31.27	+31 14.8	1.319	1.672	36.0	17.7	92 E	76	27*
1 26	1 47.04	+30 43.0	1.373	1.691	35.6	17.8	90 E	76*	27*
1 31	2 2.49	+30 12.4	1.430	1.710	35.2	17.9	88 E	75*	27*
2 5	2 17.59	+29 43.0	1.489	1.730	34.7	18.0	86 E	74*	28*
2 10	2 32.37	+29 14.7	1.551	1.750	34.1	18.1	84 E	73*	28*
2 15	2 46.83	+28 47.4	1.615	1.771	33.5	18.2	82 E	71*	28*
2 25	3 14.80	+27 55.5	1.748	1.814	32.2	18.4	78 E	67*	29*
3 7	3 41.56	+27 5.8	1.886	1.859	30.7	18.5	73 E	63*	29*
3 17	4 7.25	+26 17.0	2.029	1.906	29.1	18.7	69 E	58*	29*
3 27	4 31.95	+25 27.8	2.173	1.953	27.3	18.9	64 E	53*	29*
4 6	4 55.72	+24 36.8	2.318	2.002	25.5	19.0	59 E	48*	29*
4 16	5 18.67	+23 43.1	2.462	2.051	23.5	19.1	55 E	42*	29*
4 26	5 40.84	+22 46.0	2.602	2.100	21.5	19.2	50 E	36*	29*
5 6	6 2.25	+21 44.7	2.739	2.150	19.4	19.3	45 E	30*	28*
5 16	6 22.98	+20 38.9	2.870	2.199	17.3	19.4	40 E	23*	27*
5 26	6 43.02	+19 28.3	2.993	2.249	15.2	19.5	36 E	17*	25*
6 5	7 2.40	+18 12.7	3.109	2.298	13.1	19.5	31 E	11*	22*
6 15	7 21.16	+16 52.1	3.216	2.347	11.0	19.6	26 E	6*	19*
6 25	7 39.29	+15 26.7	3.313	2.395	8.9	19.6	21 E	—	15*
7 5	7 56.81	+13 56.5	3.398	2.443	6.9	19.6	17 E	—	11*
7 15	8 13.74	+12 21.8	3.472	2.491	5.2	19.6	13 E	—	6*
7 25	8 30.08	+10 42.8	3.534	2.537	3.8	19.6	10 E	—	1*
8 4	8 45.84	+ 8 59.8	3.582	2.584	3.4	19.7	9 W	—	—
8 14	9 1.02	+ 7 13.0	3.617	2.629	4.2	19.8	11 W	—	4*
8 24	9 15.60	+ 5 22.8	3.638	2.674	5.6	19.9	15 W	—	9*
9 3	9 29.58	+ 3 29.5	3.644	2.717	7.3	20.0	20 W	5*	13*
9 13	9 42.93	+ 1 33.5	3.637	2.760	9.0	20.1	25 W	10*	18*
9 23	9 55.62	− 0 25.0	3.615	2.802	10.6	20.2	31 W	15*	22*
10 3	10 7.59	− 2 25.4	3.579	2.844	12.2	20.3	37 W	20*	26*
10 13	10 18.79	− 4 27.5	3.529	2.884	13.7	20.3	43 W	25*	31*
10 23	10 29.12	− 6 30.8	3.467	2.924	15.0	20.4	50 W	29*	37*
11 2	10 38.49	− 8 34.7	3.392	2.962	16.2	20.4	56 W	31*	42*
11 12	10 46.75	−10 38.7	3.308	3.000	17.2	20.4	64 W	33*	49*
11 22	10 53.75	−12 41.7	3.214	3.037	17.9	20.4	71 W	32*	56*
12 2	10 59.30	−14 43.0	3.115	3.073	18.3	20.4	78 W	30	64*
12 12	11 3.17	−16 40.8	3.011	3.108	18.4	20.3	86 W	28	72*
12 22	11 5.17	−18 33.4	2.906	3.142	18.2	20.2	95 W	26	81*
1 1	11 5.06	−20 18.0	2.803	3.175	17.6	20.2	103 W	25	84
1 11	11 2.68	−21 51.4	2.708	3.207	16.5	20.1	112 W	23	86
1 21	10 57.98	−23 9.5	2.623	3.238	15.1	20.0	121 W	22	87

491567 2012 RG_3

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	0 8.57	−19 6.1	1.098	1.331	46.6	20.6	79 E	26	67*
1 6	0 20.30	−15 39.6	1.099	1.248	49.0	20.5	73 E	29	59*
1 16	0 34.78	−11 52.2	1.086	1.163	51.7	20.4	68 E	33*	52*
1 26	0 51.68	− 7 41.6	1.059	1.078	54.9	20.3	64 E	36*	46*
2 5	1 10.75	− 3 4.6	1.016	0.994	58.8	20.1	60 E	38*	40*
2 10	1 21.03	− 0 34.6	0.988	0.953	61.1	20.1	58 E	38*	38*
2 15	1 31.78	+ 2 3.9	0.957	0.914	63.7	20.0	56 E	39*	35*
2 20	1 42.96	+ 4 51.8	0.922	0.877	66.6	19.9	55 E	40*	33*
2 25	1 54.51	+ 7 50.0	0.883	0.843	69.9	19.8	53 E	40*	30*
3 2	2 6.37	+10 59.3	0.841	0.813	73.6	19.7	52 E	40*	28*
3 7	2 18.47	+14 20.9	0.796	0.787	77.7	19.7	51 E	41*	25*
3 17	2 43.06	+21 45.7	0.700	0.752	86.5	19.6	49 E	41*	20*
3 27	3 7.71	+30 14.3	0.601	0.743	95.3	19.7	48 E	42*	13*
4 6	3 32.75	+39 58.7	0.508	0.761	102.2	19.7	48 E	42*	6*
4 11	3 46.33	+45 23.9	0.466	0.780	104.2	19.6	49 E	42*	3*
4 16	4 1.95	+51 13.6	0.427	0.805	104.9	19.6	51 E	43*	—
4 21	4 21.82	+57 28.5	0.392	0.834	104.2	19.4	54 E	44*	—
4 26	4 50.81	+64 5.1	0.361	0.867	102.0	19.2	57 E	46*	—
4 27	4 58.53	+65 25.8	0.355	0.874	101.4	19.2	58 E	47*	—
4 28	5 7.20	+66 46.6	0.350	0.881	100.7	19.1	59 E	47*	—
4 29	5 17.00	+68 7.0	0.345	0.889	99.9	19.1	60 E	48*	—
4 30	5 28.16	+69 26.4	0.340	0.896	99.1	19.0	61 E	48*	—
5 1	5 40.97	+70 44.4	0.335	0.903	98.2	18.9	63 E	49*	—
5 2	5 55.76	+72 0.0	0.330	0.911	97.3	18.9	64 E	50*	—

491567 2012 RG_3 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 3	6 12.92	+73 12.1	0.326	0.919	96.3	18.8	65 E	50*	—
5 4	6 32.87	+74 19.3	0.322	0.926	95.3	18.8	66 E	51*	—
5 5	6 56.03	+75 19.8	0.318	0.934	94.2	18.7	67 E	52*	—
5 6	7 22.69	+76 11.4	0.314	0.942	93.1	18.7	69 E	53*	—
5 7	7 52.89	+76 51.5	0.311	0.950	91.9	18.6	70 E	54*	—
5 8	8 26.19	+77 17.5	0.308	0.958	90.6	18.6	72 E	55*	—
5 9	9 1.57	+77 27.1	0.305	0.966	89.4	18.5	73 E	56*	—
5 10	9 37.53	+77 18.9	0.303	0.974	88.0	18.4	75 E	57*	—
5 11	10 12.40	+76 52.7	0.300	0.982	86.7	18.4	76 E	58*	—
5 12	10 44.79	+76 9.6	0.298	0.990	85.3	18.3	78 E	59*	—
5 13	11 13.86	+75 11.5	0.296	0.998	83.8	18.3	79 E	60*	—
5 14	11 39.35	+74 0.8	0.295	1.007	82.4	18.2	81 E	61	—
5 15	12 1.39	+72 39.6	0.294	1.015	80.9	18.2	82 E	62	—
5 16	12 20.32	+71 10.0	0.293	1.023	79.4	18.2	84 E	64	—
5 17	12 36.57	+69 33.8	0.292	1.032	77.8	18.1	86 E	65	—
5 18	12 50.56	+67 52.2	0.292	1.040	76.3	18.1	87 E	67	—
5 19	13 2.65	+66 6.5	0.292	1.048	74.8	18.0	89 E	69	—
5 20	13 13.17	+64 17.7	0.293	1.057	73.2	18.0	91 E	71	—
5 21	13 22.38	+62 26.5	0.293	1.065	71.6	18.0	92 E	73	2
5 22	13 30.49	+60 33.6	0.295	1.074	70.1	18.0	94 E	74	3
5 23	13 37.68	+58 39.6	0.296	1.082	68.6	17.9	96 E	76	5
5 24	13 44.11	+56 45.0	0.298	1.091	67.1	17.9	97 E	78	7
5 25	13 49.87	+54 50.1	0.300	1.099	65.6	17.9	99 E	80	9
5 26	13 55.08	+52 55.5	0.302	1.108	64.1	17.9	100 E	82	11
5 27	13 59.81	+51 1.5	0.305	1.116	62.6	17.9	102 E	84	13
5 28	14 4.12	+49 8.3	0.308	1.125	61.2	17.9	103 E	86	15
5 29	14 8.08	+47 16.2	0.311	1.133	59.8	17.9	105 E	88	17
5 30	14 11.73	+45 25.4	0.315	1.142	58.5	17.9	106 E	90	19
5 31	14 15.11	+43 36.2	0.319	1.151	57.2	17.9	107 E	89	20
6 1	14 18.26	+41 48.7	0.323	1.159	55.9	17.9	109 E	87	22
6 2	14 21.19	+40 3.1	0.328	1.168	54.7	17.9	110 E	85	24
6 3	14 23.95	+38 19.5	0.333	1.176	53.6	17.9	111 E	83	26
6 4	14 26.54	+36 38.0	0.338	1.185	52.4	17.9	112 E	82	27
6 5	14 28.99	+34 58.7	0.344	1.193	51.4	18.0	113 E	80	29
6 7	14 33.52	+31 46.9	0.356	1.210	49.4	18.0	115 E	77	32
6 9	14 37.65	+28 44.5	0.369	1.227	47.5	18.1	117 E	74	35
6 11	14 41.46	+25 51.5	0.383	1.244	45.9	18.1	118 E	71	38
6 13	14 45.02	+23 7.9	0.399	1.261	44.5	18.2	120 E	68	41
6 15	14 48.37	+20 33.5	0.415	1.277	43.2	18.3	121 E	66	43
6 20	14 56.11	+14 45.6	0.459	1.319	40.7	18.5	122 E	60	49
6 25	15 3.26	+ 9 46.7	0.508	1.360	39.0	18.8	123 E	55	54
6 30	15 10.08	+ 5 29.8	0.562	1.400	37.9	19.0	122 E	50	59
7 5	15 16.75	+ 1 48.0	0.620	1.439	37.2	19.3	121 E	47*	62
7 10	15 23.40	− 1 24.4	0.682	1.478	36.7	19.5	120 E	44*	65
7 15	15 30.12	− 4 12.4	0.747	1.516	36.4	19.7	118 E	41*	68
7 20	15 36.95	− 6 39.9	0.814	1.553	36.1	20.0	116 E	38*	71
7 25	15 43.91	− 8 50.1	0.885	1.590	35.9	20.2	113 E	36*	73
7 30	15 51.01	−10 45.6	0.958	1.625	35.7	20.4	111 E	33*	75
8 4	15 58.28	−12 28.6	1.033	1.660	35.5	20.6	108 E	31*	76
8 9	16 5.71	−14 0.9	1.110	1.693	35.2	20.8	106 E	30*	78
8 14	16 13.32	−15 23.9	1.188	1.726	34.9	21.0	103 E	28*	79
8 19	16 21.10	−16 38.6	1.268	1.758	34.5	21.2	100 E	27*	81
8 24	16 29.05	−17 46.0	1.350	1.790	34.1	21.3	98 E	26*	82
8 29	16 37.14	−18 46.8	1.432	1.820	33.6	21.5	95 E	24*	83*

26858 Misterrogers

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	0 9.48	− 4 36.5	1.510	1.728	34.5	16.4	85 E	40	59*
1 6	0 27.46	− 4 21.4	1.580	1.695	34.7	16.5	79 E	41	55*
1 16	0 47.06	− 3 46.9	1.646	1.664	34.6	16.5	74 E	41*	50*
1 26	1 8.09	− 2 56.6	1.708	1.636	34.2	16.5	69 E	41*	47*
2 5	1 30.38	− 1 54.2	1.766	1.611	33.6	16.6	65 E	40*	44*
2 15	1 53.83	− 0 42.9	1.820	1.588	32.8	16.6	61 E	39*	41*
2 25	2 18.38	+ 0 34.0	1.869	1.570	32.0	16.6	57 E	37*	39*
3 7	2 43.92	+ 1 53.3	1.915	1.555	31.1	16.6	54 E	35*	38*
3 17	3 10.43	+ 3 12.0	1.959	1.544	30.1	16.6	51 E	32*	36*
3 27	3 37.81	+ 4 26.9	2.002	1.537	29.2	16.6	49 E	29*	35*
4 6	4 5.97	+ 5 35.2	2.044	1.535	28.2	16.6	46 E	26*	35*
4 16	4 34.80	+ 6 34.3	2.086	1.537	27.1	16.6	44 E	23*	34*
4 26	5 4.14	+ 7 21.5	2.130	1.543	26.0	16.7	42 E	19*	33*
5 6	5 33.83	+ 7 55.2	2.177	1.554	24.9	16.7	40 E	15*	32*
5 16	6 3.68	+ 8 13.8	2.226	1.568	23.7	16.7	39 E	12*	31*
5 26	6 33.47	+ 8 16.5	2.279	1.586	22.4	16.8	37 E	8*	30*
6 5	7 3.00	+ 8 3.5	2.335	1.608	21.0	16.8	35 E	4*	28*
6 15	7 32.11	+ 7 35.1	2.395	1.633	19.6	16.8	33 E	1*	27*
6 25	8 0.62	+ 6 52.5	2.457	1.661	18.0	16.9	30 E	—	24*
7 5	8 28.43	+ 5 57.2	2.522	1.691	16.3	16.9	28 E	—	22*
7 15	8 55.46	+ 4 50.9	2.587	1.724	14.6	17.0	25 E	—	19*
7 25	9 21.68	+ 3 35.4	2.653	1.759	12.8	17.0	23 E	—	15*
8 4	9 47.06	+ 2 12.8	2.719	1.795	10.9	17.0	20 E	—	12*
8 14	10 11.64	+ 0 44.8	2.782	1.833	9.1	17.0	17 E	—	8*
8 24	10 35.44	− 0 46.7	2.841	1.872	7.2	17.1	13 E	—	5*

26858 Misterrogers *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 3	10 58.52	− 2 20.0	2.896	1.912	5.4	17.1	10 E	—	1*
9 13	11 20.93	− 3 53.9	2.944	1.952	4.0	17.1	8 W	—	—
9 23	11 42.71	− 5 26.6	2.986	1.993	3.5	17.1	7 W	—	—
10 3	12 3.92	− 6 57.0	3.019	2.034	4.2	17.2	8 W	—	2*
10 13	12 24.60	− 8 23.9	3.042	2.076	5.7	17.4	12 W	2*	5*
10 23	12 44.75	− 9 46.1	3.055	2.117	7.5	17.5	16 W	6*	8*
11 2	13 4.42	−11 2.6	3.057	2.158	9.4	17.6	21 W	10*	11*
11 12	13 23.57	−12 12.4	3.047	2.199	11.3	17.7	26 W	15*	14*
11 22	13 42.19	−13 14.5	3.025	2.239	13.2	17.8	31 W	18*	18*
12 2	14 0.24	−14 8.0	2.990	2.279	15.0	17.9	37 W	22*	23*
12 12	14 17.63	−14 52.1	2.943	2.318	16.8	18.0	43 W	24*	29*
12 22	14 34.27	−15 25.9	2.883	2.357	18.3	18.0	49 W	26*	35*
1 1	14 50.04	−15 48.9	2.813	2.395	19.8	18.0	55 W	27*	42*
1 11	15 4.78	−16 0.1	2.731	2.433	20.9	18.0	62 W	28*	49*
1 21	15 18.31	−15 59.1	2.641	2.470	21.9	18.0	69 W	29*	57*

374849 2006 VO_1

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	0 9.97	− 0 47.9	1.344	1.617	37.4	21.0	87 E	44	56*
1 6	0 31.20	+ 1 8.6	1.419	1.610	37.2	21.1	82 E	46	52*
1 16	0 53.62	+ 3 13.6	1.495	1.607	36.8	21.2	78 E	48*	47*
1 26	1 17.06	+ 5 23.6	1.573	1.607	36.0	21.3	74 E	50*	43*
2 5	1 41.35	+ 7 34.9	1.652	1.611	35.1	21.4	70 E	50*	40*
2 15	2 6.40	+ 9 44.1	1.733	1.619	34.1	21.5	67 E	50*	37*

154302 2002 UQ_3

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	0 9.99	−45 23.1	0.417	0.937	83.7	18.5	71 E	—	63*
12 29	0 7.68	−47 6.8	0.422	0.922	85.5	18.6	69 E	—	61*
12 31	0 5.08	−48 48.3	0.427	0.906	87.3	18.6	67 E	—	58*
1 2	0 2.10	−50 27.6	0.432	0.891	88.9	18.7	65 E	—	56*
1 4	23 58.65	−52 4.6	0.437	0.877	90.5	18.7	63 E	—	53*
1 6	23 54.63	−53 39.4	0.442	0.863	92.0	18.8	61 E	—	51*
1 8	23 49.93	−55 11.5	0.446	0.850	93.5	18.8	60 E	—	49*
1 10	23 44.43	−56 40.7	0.450	0.837	94.8	18.9	58 E	—	46*
1 12	23 37.99	−58 6.4	0.455	0.825	96.1	18.9	57 E	—	44*
1 14	23 30.48	−59 28.0	0.459	0.814	97.3	19.0	55 E	—	41*
1 16	23 21.77	−60 44.5	0.463	0.803	98.4	19.0	54 E	—	39*
1 18	23 11.74	−61 54.9	0.467	0.794	99.3	19.0	53 E	—	37*
1 20	23 0.31	−62 57.9	0.471	0.785	100.2	19.1	52 E	—	34*
1 22	22 47.46	−63 52.1	0.474	0.777	100.9	19.1	51 E	—	32*
1 24	22 33.25	−64 36.1	0.478	0.771	101.4	19.1	50 E	—	30*
1 26	22 17.84	−65 8.3	0.482	0.765	101.9	19.2	49 E	—	27*
1 27	22 9.78	−65 19.6	0.484	0.762	102.0	19.2	49 E	—	26*
1 28	22 1.54	−65 27.6	0.486	0.760	102.1	19.2	49 E	—	25*
1 29	21 53.17	−65 32.0	0.488	0.758	102.2	19.2	49 E	—	24*
1 30	21 44.72	−65 32.9	0.490	0.757	102.2	19.2	49 E	—	23*
1 31	21 36.27	−65 30.1	0.493	0.756	102.2	19.2	49 E	—	21*
2 1	21 27.86	−65 23.8	0.495	0.755	102.1	19.2	48 E	—	20*
2 2	21 19.56	−65 13.8	0.497	0.754	102.0	19.2	48 E	—	19*
2 3	21 11.42	−65 0.4	0.499	0.753	101.9	19.2	48 E	—	18*
2 4	21 3.50	−64 43.5	0.501	0.753	101.7	19.2	48 W	—	18*
2 5	20 55.84	−64 23.3	0.503	0.753	101.5	19.2	48 W	—	19*
2 6	20 48.48	−63 59.9	0.506	0.754	101.2	19.2	49 W	—	20*
2 7	20 41.44	−63 33.5	0.508	0.755	100.9	19.2	49 W	—	21*
2 8	20 34.76	−63 4.3	0.510	0.756	100.6	19.2	49 W	—	22*
2 9	20 28.44	−62 32.4	0.512	0.757	100.2	19.2	49 W	—	23*
2 10	20 22.49	−61 58.0	0.515	0.758	99.8	19.2	49 W	—	24*
2 11	20 16.93	−61 21.4	0.517	0.760	99.4	19.2	49 W	—	26*
2 12	20 11.74	−60 42.7	0.519	0.762	99.0	19.2	50 W	—	27*
2 13	20 6.92	−60 2.1	0.522	0.765	98.5	19.2	50 W	—	28*
2 14	20 2.46	−59 19.8	0.524	0.768	97.9	19.2	50 W	—	29*
2 15	19 58.35	−58 36.0	0.526	0.771	97.4	19.1	51 W	—	30*
2 17	19 51.11	−57 4.2	0.531	0.777	96.3	19.1	51 W	—	32*
2 19	19 45.07	−55 28.0	0.536	0.785	95.0	19.1	52 W	—	34*
2 21	19 40.11	−53 48.4	0.541	0.794	93.7	19.1	53 W	—	37*
2 23	19 36.09	−52 6.3	0.545	0.803	92.4	19.1	54 W	—	39*
2 25	19 32.88	−50 22.3	0.550	0.814	91.0	19.1	55 W	—	41*
2 27	19 30.37	−48 37.2	0.554	0.825	89.5	19.1	56 W	—	43*
3 1	19 28.45	−46 51.3	0.558	0.837	88.1	19.0	58 W	—	45*
3 3	19 27.03	−45 5.1	0.563	0.850	86.6	19.0	59 W	—	47*
3 5	19 26.02	−43 18.8	0.567	0.863	85.2	19.0	60 W	—	49*
3 7	19 25.36	−41 32.8	0.570	0.877	83.7	19.0	61 W	—	51*
3 9	19 24.97	−39 47.1	0.574	0.891	82.2	19.0	63 W	—	53*
3 11	19 24.80	−38 2.0	0.577	0.906	80.8	19.0	64 W	1*	55*
3 13	19 24.80	−36 17.5	0.580	0.922	79.3	19.0	66 W	3*	57*
3 15	19 24.93	−34 33.6	0.583	0.937	77.9	19.0	67 W	5*	59*
3 17	19 25.14	−32 50.5	0.586	0.953	76.4	19.0	69 W	7*	61*
3 22	19 25.86	−28 35.7	0.592	0.995	72.9	19.0	73 W	12*	66*
3 27	19 26.52	−24 25.2	0.596	1.037	69.3	19.0	77 W	16*	71*
4 1	19 26.83	−20 18.8	0.600	1.081	65.9	19.0	81 W	21*	74*
4 6	19 26.53	−16 16.3	0.603	1.125	62.4	19.0	85 W	26*	76*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
154302 2002 UQ_3									*(continuation)*
	h m	° ′			°	m	°	°	°
4 11	19 25.41	−12 17.6	0.605	1.170	58.9	19.0	90 W	30*	76*
4 16	19 23.29	− 8 23.1	0.608	1.214	55.5	19.0	95 W	35*	72
4 21	19 20.04	− 4 33.7	0.611	1.259	52.0	18.9	99 W	39*	69
4 26	19 15.58	− 0 51.0	0.616	1.303	48.5	18.9	104 W	44*	65
5 1	19 9.85	+ 2 43.0	0.622	1.346	45.0	18.9	109 W	48*	61
5 6	19 2.82	+ 6 5.7	0.630	1.390	41.6	18.9	114 W	51	58
5 11	18 54.53	+ 9 14.0	0.641	1.432	38.3	18.9	119 W	54	55
5 16	18 45.10	+12 4.5	0.656	1.474	35.1	19.0	123 W	57	52
5 21	18 34.73	+14 34.0	0.674	1.515	32.3	19.0	127 W	60	49
5 26	18 23.70	+16 40.3	0.696	1.556	29.8	19.1	130 W	62	47
5 31	18 12.33	+18 21.7	0.723	1.596	27.8	19.1	133 W	63	46
6 5	18 0.96	+19 38.0	0.754	1.635	26.2	19.2	135 W	65	44
6 10	17 49.94	+20 29.8	0.789	1.673	25.1	19.4	136 W	65	44
6 15	17 39.58	+20 58.6	0.829	1.710	24.5	19.5	136 W	66	43
6 20	17 30.14	+21 7.0	0.873	1.747	24.3	19.6	135 E	66	43
6 25	17 21.81	+20 57.9	0.921	1.783	24.3	19.8	134 E	66	43
6 30	17 14.66	+20 34.5	0.973	1.818	24.6	20.0	132 E	66	43
7 5	17 8.73	+19 59.3	1.028	1.852	24.9	20.2	130 E	65	44
7 10	17 4.02	+19 15.0	1.087	1.886	25.4	20.3	127 E	64	45
7 15	17 0.49	+18 23.9	1.149	1.918	25.8	20.5	125 E	63	46
7 20	16 58.08	+17 28.0	1.213	1.950	26.3	20.7	122 E	62	47
7 25	16 56.69	+16 28.9	1.280	1.982	26.7	20.8	119 E	61	48
7 30	16 56.24	+15 28.0	1.349	2.012	27.0	21.0	116 E	60	49
8 4	16 56.64	+14 26.3	1.419	2.042	27.2	21.1	113 E	59	50
8 9	16 57.82	+13 24.4	1.492	2.070	27.4	21.3	110 E	58*	51
8 14	16 59.71	+12 23.3	1.566	2.099	27.5	21.4	107 E	57*	52
360249 2000 GQ_{127}									
12 27	0 10.06	+64 43.2	1.778	2.302	23.7	20.7	110 E	70	—
1 1	0 13.98	+63 57.8	1.835	2.324	23.8	20.8	107 E	71	—
1 6	0 19.21	+63 18.3	1.893	2.345	23.9	20.9	105 E	72	—
1 11	0 25.56	+62 44.5	1.952	2.366	24.0	20.9	102 E	72*	—
1 16	0 32.88	+62 16.3	2.012	2.386	24.0	21.0	100 E	72*	—
1 21	0 41.06	+61 53.5	2.073	2.407	23.9	21.1	97 E	72*	—
1 26	0 49.99	+61 35.5	2.134	2.427	23.8	21.2	95 E	71*	—
1 31	0 59.59	+61 22.1	2.196	2.446	23.7	21.3	93 E	70*	—
2 5	1 9.81	+61 12.6	2.258	2.466	23.6	21.3	90 E	69*	—
2 10	1 20.61	+61 6.5	2.320	2.485	23.4	21.4	88 E	67*	—
2 15	1 31.95	+61 3.6	2.382	2.504	23.2	21.5	85 E	66*	—
474441 2003 OE_{13}									
12 27	0 10.08	+ 8 13.7	1.846	2.095	28.0	21.3	90 E	53	49*
1 6	0 25.77	+ 9 32.2	2.011	2.146	27.1	21.5	84 E	55	44*
1 16	0 41.87	+10 53.9	2.177	2.198	26.0	21.7	78 E	56*	39*
1 26	0 58.30	+12 17.5	2.343	2.249	24.7	21.9	72 E	55*	35*
2 5	1 14.99	+13 41.7	2.508	2.300	23.1	22.0	66 E	53*	31*
66407 1999 LQ_{28}									
12 27	0 10.16	−22 0.4	0.624	1.055	66.0	20.3	79 E	23	69*
1 1	0 25.06	−17 25.4	0.624	1.056	65.9	20.3	79 E	28	66*
1 6	0 39.66	−12 44.5	0.626	1.058	65.7	20.3	79 E	32	62*
1 11	0 54.09	− 8 0.9	0.631	1.061	65.5	20.3	79 E	37	58*
1 16	1 8.44	− 3 17.8	0.638	1.064	65.1	20.4	79 E	42	54*
1 21	1 22.82	+ 1 21.7	0.648	1.068	64.7	20.4	79 E	46*	50*
1 26	1 37.30	+ 5 54.5	0.660	1.073	64.1	20.4	79 E	51*	46*
1 31	1 51.97	+10 18.0	0.674	1.079	63.6	20.5	79 E	55*	43*
2 5	2 6.92	+14 30.1	0.691	1.085	62.9	20.5	78 E	59*	39*
2 10	2 22.24	+18 29.1	0.710	1.091	62.3	20.6	78 E	62*	36*
2 15	2 38.04	+22 13.7	0.731	1.099	61.5	20.6	78 E	64*	33*
2 20	2 54.39	+25 43.0	0.753	1.106	60.8	20.7	78 E	66*	30*
2 25	3 11.34	+28 56.2	0.776	1.114	60.0	20.7	77 E	68*	27*
3 2	3 28.96	+31 52.9	0.800	1.123	59.3	20.8	77 E	69*	25*
3 7	3 47.30	+34 32.7	0.825	1.131	58.5	20.9	76 E	69*	23*
3 12	4 6.39	+36 55.3	0.850	1.140	57.7	20.9	76 E	69*	21*
3 17	4 26.26	+39 0.5	0.876	1.149	56.9	21.0	75 E	69*	20*
3 22	4 46.87	+40 48.2	0.902	1.159	56.2	21.0	75 E	69*	19*
3 27	5 8.16	+42 18.1	0.928	1.168	55.4	21.1	75 E	68*	18*
4 1	5 30.03	+43 30.2	0.954	1.178	54.7	21.1	74 E	68*	18*
4 6	5 52.37	+44 24.4	0.980	1.187	54.0	21.2	74 E	68*	17*
4 11	6 15.02	+45 0.9	1.006	1.197	53.3	21.3	73 E	67*	17*
4 16	6 37.82	+45 20.0	1.032	1.206	52.6	21.3	73 E	66*	17*
4 21	7 0.57	+45 22.1	1.057	1.215	51.9	21.4	72 E	66*	17*
4 26	7 23.09	+45 7.9	1.082	1.224	51.3	21.4	72 E	65*	18*
5 1	7 45.21	+44 38.4	1.107	1.233	50.6	21.5	71 E	64*	19*
316695 1996 TE_9									
12 27	0 10.16	+39 23.0	0.724	1.338	45.9	20.5	102 E	84	21*
1 1	0 24.73	+40 46.4	0.764	1.356	45.4	20.6	101 E	86	19*
1 6	0 40.03	+42 1.6	0.805	1.375	44.8	20.7	100 E	87	18*
1 11	0 56.02	+43 8.8	0.847	1.394	44.2	20.9	99 E	88	17*
1 16	1 12.64	+44 8.3	0.890	1.414	43.6	21.0	98 E	89	15*
1 21	1 29.82	+45 0.3	0.934	1.435	42.9	21.1	97 E	90	14*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
316695 1996 TE_9									*(continuation)*
	h m	° ′			°	m	°	°	°
1 26	1 47.49	+45 44.8	0.979	1.455	42.3	21.2	96 E	89*	14*
1 31	2 5.56	+46 21.6	1.025	1.477	41.7	21.3	95 E	88*	13*
2 5	2 23.93	+46 50.8	1.072	1.498	41.1	21.4	93 E	86*	13*
250315 2003 QZ_{107}									
12 27	0 10.34	− 8 47.6	1.543	1.734	34.3	20.5	84 E	36	62*
1 6	0 30.78	− 5 59.8	1.664	1.767	33.1	20.6	79 E	39	56*
1 16	0 51.21	− 3 14.4	1.788	1.802	31.8	20.8	75 E	42*	51*
1 26	1 11.64	− 0 33.5	1.914	1.837	30.3	20.9	71 E	44*	46*
2 5	1 32.07	+ 2 1.4	2.042	1.874	28.8	21.1	66 E	44*	42*
2 15	1 52.54	+ 4 29.1	2.170	1.912	27.1	21.2	62 E	44*	38*
2 25	2 13.05	+ 6 48.4	2.298	1.950	25.3	21.3	57 E	42*	34*
3 7	2 33.60	+ 8 58.4	2.424	1.988	23.4	21.4	53 E	39*	31*
887 Alinda									
12 27	0 10.51	−11 22.7	0.857	1.218	53.2	16.3	83 E	34	64*
1 6	0 31.32	− 7 27.0	0.843	1.164	56.0	16.3	79 E	38	57*
1 16	0 55.67	− 2 59.1	0.823	1.120	58.5	16.2	76 E	42*	52*
1 26	1 23.68	+ 2 0.0	0.801	1.087	60.6	16.2	74 E	47*	47*
1 31	1 39.14	+ 4 40.0	0.789	1.076	61.5	16.2	74 E	49*	45*
2 5	1 55.65	+ 7 25.9	0.778	1.068	62.3	16.1	73 E	51*	42*
2 10	2 13.30	+10 16.3	0.767	1.063	62.8	16.1	73 E	53*	41*
2 15	2 32.17	+13 9.4	0.758	1.063	63.1	16.1	74 E	55*	39*
2 20	2 52.33	+16 2.5	0.752	1.066	63.2	16.1	74 E	57*	37*
2 25	3 13.85	+18 52.5	0.747	1.073	62.9	16.1	75 E	60*	36*
3 2	3 36.74	+21 35.7	0.746	1.083	62.4	16.1	76 E	62*	35*
3 7	4 0.99	+24 8.0	0.749	1.097	61.7	16.1	77 E	63*	34*
3 12	4 26.50	+26 25.3	0.756	1.114	60.7	16.1	78 E	65*	33*
3 17	4 53.08	+28 23.6	0.767	1.134	59.4	16.1	79 E	67*	32*
3 22	5 20.44	+29 59.8	0.782	1.157	58.1	16.2	80 E	68*	32*
3 27	5 48.19	+31 11.6	0.803	1.182	56.6	16.2	81 E	69*	31*
4 1	6 15.91	+31 58.3	0.828	1.209	55.0	16.3	82 E	70*	31*
4 6	6 43.17	+32 20.3	0.858	1.238	53.3	16.3	83 E	71*	31*
4 11	7 9.60	+32 19.4	0.893	1.269	51.7	16.4	84 E	71*	32*
4 16	7 34.91	+31 58.2	0.932	1.302	50.1	16.5	84 E	70*	32*
4 21	7 58.90	+31 19.7	0.976	1.335	48.5	16.6	85 E	69*	33
4 26	8 21.46	+30 27.0	1.023	1.370	47.0	16.7	85 E	68*	34
5 1	8 42.58	+29 23.2	1.075	1.405	45.6	16.8	85 E	66*	35
5 6	9 2.29	+28 10.9	1.130	1.442	44.1	16.9	85 E	65*	36
5 11	9 20.70	+26 52.4	1.189	1.478	42.8	17.0	84 E	62*	37
5 16	9 37.90	+25 29.5	1.251	1.516	41.5	17.1	83 E	60*	39
5 21	9 54.01	+24 3.8	1.315	1.553	40.3	17.2	83 E	57*	40
5 26	10 9.14	+22 36.4	1.382	1.591	39.0	17.4	82 E	55*	41
5 31	10 23.39	+21 8.5	1.452	1.629	37.9	17.5	81 E	52*	43
6 5	10 36.87	+19 40.5	1.524	1.667	36.7	17.6	79 E	49*	44
6 10	10 49.67	+18 13.0	1.598	1.705	35.6	17.7	78 E	46*	46*
6 15	11 1.89	+16 46.5	1.673	1.743	34.5	17.8	76 E	44*	47*
6 25	11 24.82	+13 57.2	1.829	1.818	32.4	18.0	73 E	38*	49*
7 5	11 46.12	+11 14.3	1.989	1.893	30.2	18.2	70 E	34*	51*
7 15	12 6.19	+ 8 38.2	2.151	1.967	28.1	18.3	66 E	30*	51*
7 25	12 25.31	+ 6 9.3	2.315	2.039	26.0	18.5	62 E	26*	50*
8 4	12 43.68	+ 3 47.9	2.478	2.111	23.9	18.6	57 E	23*	47*
8 14	13 1.49	+ 1 33.6	2.639	2.181	21.7	18.7	53 E	20*	44*
8 24	13 18.85	− 0 33.3	2.796	2.249	19.5	18.8	48 E	18*	40*
9 3	13 35.87	− 2 32.8	2.947	2.316	17.3	18.9	43 E	16*	36*
9 13	13 52.63	− 4 25.1	3.091	2.382	15.1	18.9	38 E	14*	31*
9 23	14 9.17	− 6 10.0	3.226	2.445	12.9	18.9	33 E	12*	26*
10 3	14 25.53	− 7 47.5	3.351	2.508	10.7	19.0	28 E	10*	20*
10 13	14 41.73	− 9 17.6	3.465	2.568	8.4	19.0	22 E	8*	15*
10 23	14 57.77	−10 40.0	3.565	2.628	6.2	18.9	17 E	6*	9*
11 2	15 13.64	−11 54.7	3.651	2.685	4.2	18.9	11 E	4*	3*
11 12	15 29.32	−13 1.8	3.722	2.741	2.5	18.8	7 E	1*	—
11 22	15 44.76	−14 1.1	3.776	2.796	2.2	18.9	6 W	—	—
12 2	15 59.92	−14 52.6	3.813	2.849	3.6	19.0	10 W	4*	—
12 12	16 14.73	−15 36.6	3.833	2.900	5.4	19.2	16 W	9*	3*
12 22	16 29.11	−16 13.0	3.834	2.950	7.4	19.4	23 W	13*	10*
1 1	16 42.97	−16 42.3	3.818	2.999	9.2	19.5	29 W	16*	17*
1 11	16 56.20	−17 4.6	3.785	3.046	11.0	19.7	36 W	19*	24*
1 21	17 8.69	−17 20.6	3.735	3.091	12.6	19.8	43 W	21*	32*
168714 2000 JQ_{10}									
12 27	0 10.60	+ 1 57.2	1.582	1.830	32.5	20.6	88 E	47	54*
1 6	0 29.75	+ 3 34.4	1.716	1.866	31.5	20.8	83 E	49	49*
1 16	0 49.12	+ 5 14.8	1.853	1.901	30.3	20.9	78 E	50*	45*
1 26	1 8.65	+ 6 56.6	1.991	1.938	29.0	21.1	73 E	51*	41*
2 5	1 28.31	+ 8 37.7	2.129	1.974	27.5	21.2	68 E	50*	37*
2 15	1 48.10	+10 16.6	2.266	2.011	25.8	21.4	63 E	48*	33*
2 25	2 8.00	+11 51.9	2.400	2.048	24.1	21.5	58 E	45*	30*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	253898 2004 BY_{102}								
	h m	° ′			°	m	°	°	°
12 27	0 10.71	−20 43.4	2.066	2.115	27.2	20.1	79 E	24	68*
1 6	0 20.84	−17 28.3	2.136	2.073	27.0	20.1	73 E	28	60*
1 16	0 32.66	−14 9.9	2.203	2.031	26.5	20.2	67 E	31*	53*
1 26	0 45.94	−10 49.2	2.265	1.989	25.7	20.1	61 E	32*	46*
2 5	1 0.51	− 7 27.1	2.321	1.947	24.8	20.1	56 E	33*	40*
2 15	1 16.27	− 4 4.3	2.371	1.906	23.6	20.1	51 E	32*	35*
2 25	1 33.16	− 0 41.6	2.415	1.865	22.4	20.0	46 E	30*	30*
3 7	1 51.14	+ 2 39.9	2.452	1.825	20.9	20.0	41 E	27*	26*
3 17	2 10.24	+ 5 59.5	2.483	1.786	19.4	19.9	37 E	24*	22*
3 27	2 30.50	+ 9 15.8	2.507	1.749	17.8	19.8	32 E	21*	19*
4 6	2 51.96	+12 27.3	2.525	1.713	16.1	19.8	28 E	18*	16*
4 16	3 14.72	+15 32.5	2.538	1.679	14.4	19.7	25 E	15*	13*
4 26	3 38.89	+18 29.2	2.545	1.647	12.7	19.6	21 E	12*	10*
5 6	4 4.53	+21 15.0	2.548	1.618	11.0	19.5	18 E	9*	7*
5 16	4 31.76	+23 47.3	2.547	1.592	9.4	19.4	15 E	7*	4*
5 26	5 0.60	+26 2.8	2.543	1.569	8.0	19.3	12 E	5*	2*
6 5	5 31.04	+27 58.4	2.537	1.550	6.8	19.2	10 E	4*	—
6 15	6 3.01	+29 30.7	2.529	1.534	6.0	19.1	9 E	3*	—
6 25	6 36.28	+30 36.5	2.520	1.523	5.8	19.1	9 E	3*	—
7 5	7 10.55	+31 13.3	2.512	1.516	6.0	19.1	9 E	3*	—
7 15	7 45.43	+31 19.5	2.505	1.514	6.7	19.1	10 E	3*	—
7 25	8 20.44	+30 54.7	2.499	1.516	7.5	19.1	11 E	3*	—
8 4	8 55.13	+30 0.1	2.496	1.523	8.4	19.2	13 W	4*	—
8 14	9 29.08	+28 38.0	2.495	1.534	9.3	19.2	14 W	6*	—
8 24	10 1.98	+26 52.2	2.497	1.549	10.3	19.3	16 W	7*	—
9 3	10 33.62	+24 46.9	2.501	1.568	11.1	19.4	17 W	9*	—
9 13	11 3.91	+22 26.8	2.506	1.590	12.0	19.4	19 W	11*	—
9 23	11 32.83	+19 56.7	2.513	1.616	12.8	19.5	21 W	13*	—
10 3	12 0.42	+17 21.0	2.520	1.645	13.7	19.6	23 W	15*	—
10 13	12 26.76	+14 43.7	2.526	1.677	14.6	19.7	25 W	18*	—
10 23	12 51.94	+12 8.5	2.531	1.711	15.6	19.7	27 W	21*	—
11 2	13 16.05	+ 9 38.1	2.532	1.747	16.6	19.8	30 W	24*	—
11 12	13 39.16	+ 7 14.9	2.528	1.784	17.7	19.9	33 W	27*	2*
11 22	14 1.32	+ 5 0.9	2.519	1.823	18.8	20.0	37 W	30*	6*
12 2	14 22.55	+ 2 57.3	2.503	1.863	20.0	20.0	40 W	33*	11*
12 12	14 42.86	+ 1 5.0	2.479	1.904	21.2	20.1	44 W	36*	16*
12 22	15 2.20	− 0 35.4	2.446	1.945	22.4	20.2	49 W	37*	22*
1 1	15 20.52	− 2 3.9	2.405	1.987	23.5	20.2	54 W	38*	29*
1 11	15 37.70	− 3 20.5	2.354	2.029	24.5	20.2	59 W	39*	36*
1 21	15 53.63	− 4 25.8	2.295	2.071	25.4	20.2	64 W	39*	43*
	182328 2001 PS_{13}								
12 27	0 11.34	− 3 4.0	1.598	1.817	32.7	20.6	86 E	42	58*
1 6	0 30.77	− 0 44.5	1.736	1.859	31.5	20.8	81 E	44	53*
1 16	0 50.19	+ 1 32.8	1.877	1.903	30.2	21.0	76 E	47*	48*
1 26	1 9.63	+ 3 46.5	2.020	1.947	28.7	21.1	72 E	48*	43*
2 5	1 29.05	+ 5 55.3	2.164	1.992	27.0	21.3	67 E	48*	39*
2 15	1 48.50	+ 7 58.4	2.307	2.037	25.3	21.4	62 E	46*	35*
	366599 2002 XL_8								
12 27	0 11.69	+ 7 47.8	1.274	1.615	37.5	20.1	90 E	53	50*
1 6	0 34.63	+ 9 42.7	1.368	1.631	37.0	20.2	86 E	55	45*
1 16	0 58.30	+11 39.5	1.466	1.650	36.2	20.4	82 E	57*	42*
1 26	1 22.54	+13 35.3	1.568	1.672	35.2	20.5	78 E	58*	38*
2 5	1 47.21	+15 27.1	1.673	1.697	34.0	20.7	74 E	58*	35*
2 15	2 12.23	+17 12.8	1.782	1.725	32.7	20.8	70 E	57*	33*
2 25	2 37.53	+18 50.0	1.894	1.755	31.2	20.9	67 E	55*	31*
3 7	3 3.00	+20 17.1	2.008	1.786	29.6	21.1	63 E	52*	29*
3 17	3 28.58	+21 32.5	2.123	1.820	27.9	21.2	59 E	49*	27*
3 27	3 54.18	+22 35.2	2.238	1.854	26.1	21.3	55 E	45*	26*
4 6	4 19.69	+23 24.3	2.353	1.890	24.3	21.4	51 E	41*	25*
4 16	4 45.05	+23 59.5	2.466	1.927	22.4	21.5	47 E	36*	24*
	101610 1999 CW_7								
12 27	0 12.61	+26 6.8	0.897	1.417	43.4	18.4	98 E	71	34*
1 6	0 32.37	+27 16.1	0.934	1.389	45.0	18.5	93 E	72	30*
1 16	0 55.93	+28 36.2	0.969	1.364	46.1	18.6	89 E	74*	27*
1 26	1 23.08	+30 1.3	1.002	1.343	46.9	18.6	85 E	74*	25*
2 5	1 53.58	+31 23.9	1.034	1.325	47.5	18.7	82 E	73*	23*
2 15	2 27.22	+32 35.9	1.065	1.312	47.7	18.7	79 E	72*	23*
2 25	3 3.63	+33 29.1	1.097	1.304	47.7	18.8	77 E	70*	23*
3 2	3 22.69	+33 46.0	1.114	1.302	47.7	18.8	76 E	69*	23*
3 7	3 42.20	+33 55.2	1.132	1.301	47.5	18.8	75 E	68*	23*
3 12	4 2.07	+33 56.2	1.151	1.301	47.3	18.9	74 E	67*	24*
3 17	4 22.17	+33 48.3	1.170	1.303	47.1	18.9	73 E	66*	24*
3 22	4 42.40	+33 31.3	1.191	1.305	46.8	18.9	73 E	65*	25*
3 27	5 2.61	+33 5.0	1.213	1.309	46.4	19.0	72 E	63*	26*
4 1	5 22.70	+32 29.4	1.237	1.314	46.0	19.0	71 E	62*	27*
4 6	5 42.57	+31 44.8	1.262	1.321	45.5	19.0	70 E	60*	28*
4 11	6 2.12	+30 51.8	1.289	1.328	45.0	19.1	70 E	59*	30*
4 16	6 21.28	+29 50.9	1.317	1.337	44.4	19.1	69 E	57*	31*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	101610 1999 CW_7 *(continuation)*								
	h m	° ′			°	m	°	°	°
4 21	6 40.00	+28 42.7	1.347	1.346	43.8	19.2	68 E	55*	32*
4 26	6 58.23	+27 28.1	1.378	1.357	43.2	19.2	67 E	53*	33*
5 1	7 15.94	+26 7.8	1.411	1.369	42.5	19.3	67 E	50*	35*
5 6	7 33.11	+24 42.7	1.446	1.381	41.7	19.3	66 E	48*	36*
5 11	7 49.77	+23 13.4	1.482	1.394	41.0	19.4	65 E	45*	38*
5 16	8 5.91	+21 40.7	1.520	1.408	40.2	19.4	64 E	42*	39*
5 21	8 21.56	+20 5.3	1.559	1.423	39.3	19.5	63 E	39*	40*
5 26	8 36.73	+18 27.7	1.599	1.439	38.5	19.5	62 E	36*	42*
5 31	8 51.45	+16 48.6	1.641	1.454	37.6	19.6	61 E	34*	43*
6 5	9 5.75	+15 8.4	1.684	1.471	36.7	19.7	60 E	31*	44*
6 15	9 33.22	+11 46.3	1.773	1.505	34.9	19.8	58 E	25*	45*
6 25	9 59.38	+ 8 24.1	1.865	1.541	33.0	19.9	56 E	20*	46*
7 5	10 24.45	+ 5 4.1	1.960	1.578	31.1	20.0	53 E	15*	45*
7 15	10 48.66	+ 1 47.5	2.057	1.616	29.1	20.1	51 E	11*	44*
7 25	11 12.19	− 1 24.4	2.154	1.654	27.1	20.2	48 E	8*	42*
8 4	11 35.20	− 4 30.7	2.251	1.692	25.1	20.3	45 E	5*	39*
8 14	11 57.85	− 7 30.9	2.347	1.730	23.0	20.3	42 E	3*	36*
8 24	12 20.27	−10 24.2	2.441	1.768	20.9	20.4	39 E	1*	32*
9 3	12 42.58	−13 10.2	2.532	1.805	18.8	20.5	35 E	—	29*
9 13	13 4.88	−15 48.3	2.618	1.842	16.8	20.5	32 E	—	25*
9 23	13 27.24	−18 17.9	2.700	1.878	14.7	20.5	28 E	—	21*
10 3	13 49.75	−20 38.3	2.776	1.913	12.6	20.6	25 E	—	17*
10 13	14 12.46	−22 49.2	2.845	1.947	10.6	20.6	21 E	—	14*
10 23	14 35.39	−24 49.8	2.907	1.979	8.6	20.6	17 E	—	10*
11 2	14 58.57	−26 39.6	2.960	2.011	6.8	20.6	14 E	—	6*
11 12	15 21.98	−28 18.0	3.004	2.042	5.4	20.6	11 E	—	2*
11 22	15 45.59	−29 44.6	3.038	2.071	4.6	20.6	10 W	—	—
12 2	16 9.35	−30 58.9	3.061	2.099	4.9	20.7	10 W	—	3*
12 12	16 33.18	−32 0.9	3.073	2.125	6.0	20.7	13 W	—	7*
12 22	16 56.98	−32 50.5	3.073	2.150	7.6	20.8	17 W	—	11*
1 1	17 20.64	−33 27.9	3.062	2.174	9.4	20.9	21 W	—	15*
1 11	17 44.04	−33 53.6	3.039	2.196	11.3	21.0	26 W	—	20*
1 21	18 7.02	−34 8.2	3.003	2.217	13.2	21.1	31 W	—	25*
	428507 2007 XQ_{56}								
12 27	0 13.10	+ 7 19.4	1.324	1.656	36.4	21.2	91 E	52	50*
1 6	0 31.85	+ 9 37.4	1.407	1.652	36.4	21.3	86 E	55	45*
1 16	0 52.20	+11 58.3	1.491	1.652	36.0	21.4	81 E	57*	40*
1 26	1 13.96	+14 19.5	1.576	1.654	35.4	21.5	77 E	58*	36*
2 5	1 36.95	+16 38.1	1.662	1.658	34.5	21.6	73 E	58*	33*
	307068 2002 AX_{14}								
12 27	0 13.55	+17 40.9	1.150	1.573	38.5	20.9	95 E	63	41*
1 6	0 35.82	+16 35.0	1.228	1.563	39.0	21.1	89 E	62	40*
1 16	0 59.03	+15 52.6	1.309	1.553	39.0	21.2	84 E	61	38*
1 26	1 23.01	+15 28.8	1.389	1.543	38.8	21.3	79 E	60*	37*
2 5	1 47.60	+15 18.5	1.469	1.532	38.3	21.4	74 E	58*	35*
2 15	2 12.74	+15 17.3	1.546	1.522	37.6	21.5	70 E	55*	34*
	380008 2013 NT_6								
12 27	0 13.64	+ 7 22.6	1.549	1.844	32.2	20.1	91 E	52	50*
1 6	0 30.47	+ 9 46.2	1.687	1.881	31.4	20.3	85 E	55	45*
1 16	0 48.01	+12 4.9	1.827	1.919	30.3	20.5	80 E	57*	40*
1 26	1 6.16	+14 18.4	1.968	1.957	29.0	20.7	75 E	58*	35*
2 5	1 24.82	+16 26.3	2.110	1.996	27.6	20.9	70 E	57*	31*
2 15	1 43.95	+18 28.1	2.250	2.035	26.0	21.0	65 E	55*	27*
2 25	2 3.51	+20 23.3	2.388	2.074	24.3	21.1	60 E	51*	24*
3 7	2 23.44	+22 11.2	2.523	2.113	22.6	21.2	55 E	47*	21*
3 17	2 43.73	+23 51.2	2.653	2.151	20.7	21.3	50 E	43*	18*
3 27	3 4.33	+25 22.9	2.778	2.190	18.8	21.4	45 E	38*	16*
4 6	3 25.20	+26 45.5	2.896	2.228	16.9	21.4	40 E	33*	14*
4 16	3 46.30	+27 58.7	3.007	2.265	14.9	21.5	35 E	28*	12*
	13920 Montecorvino								
12 27	0 14.14	+ 5 29.7	1.677	1.945	30.4	18.6	90 E	50	52*
1 6	0 30.46	+ 7 0.3	1.813	1.973	29.7	18.8	84 E	52	47*
1 16	0 47.49	+ 8 34.9	1.950	2.001	28.8	18.9	79 E	53*	42*
1 26	1 5.11	+10 11.9	2.087	2.030	27.6	19.1	73 E	54*	38*
2 5	1 23.22	+11 49.4	2.222	2.058	26.3	19.2	68 E	53*	34*
2 15	1 41.76	+13 25.8	2.355	2.087	24.8	19.3	62 E	50*	30*
2 25	2 0.69	+14 59.9	2.485	2.115	23.1	19.4	57 E	47*	27*
3 7	2 19.94	+16 30.2	2.609	2.144	21.4	19.5	52 E	43*	24*
3 17	2 39.50	+17 55.6	2.728	2.171	19.5	19.5	47 E	38*	21*
3 27	2 59.32	+19 15.0	2.841	2.199	17.6	19.6	42 E	33*	19*
4 6	3 19.37	+20 27.4	2.946	2.226	15.6	19.6	37 E	28*	17*
4 16	3 39.61	+21 32.2	3.043	2.253	13.6	19.7	32 E	23*	14*
4 26	3 59.99	+22 28.5	3.131	2.279	11.5	19.7	27 E	18*	12*
5 6	4 20.46	+23 15.9	3.209	2.304	9.4	19.7	22 E	13*	9*
5 16	4 40.97	+23 53.9	3.277	2.329	7.3	19.6	17 E	8*	6*
5 26	5 1.45	+24 22.4	3.334	2.353	5.2	19.6	12 E	4*	3*
6 5	5 21.83	+24 41.2	3.379	2.376	3.1	19.5	7 E	—	—

13920 Montecorvino *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 15	5 42.06	+24 50.4	3.413	2.399	1.1	19.4	3 E	—	—
6 25	6 2.05	+24 50.1	3.435	2.421	1.4	19.5	3 W	—	—
7 5	6 21.73	+24 40.7	3.444	2.442	3.4	19.7	8 W	—	—
7 15	6 41.04	+24 22.6	3.441	2.462	5.4	19.8	13 W	4*	4*
7 25	6 59.90	+23 56.5	3.425	2.482	7.4	19.9	18 W	9*	8*
8 4	7 18.26	+23 22.9	3.396	2.500	9.4	20.0	24 W	14*	11*
8 14	7 36.05	+22 42.8	3.354	2.518	11.3	20.0	29 W	19*	14*
8 24	7 53.20	+21 56.9	3.300	2.535	13.1	20.1	35 W	25*	17*
9 3	8 9.65	+21 6.2	3.233	2.551	14.9	20.1	40 W	31*	20*
9 13	8 25.33	+20 12.0	3.155	2.566	16.5	20.1	46 W	37*	23*
9 23	8 40.14	+19 15.2	3.065	2.580	18.0	20.1	52 W	42*	26*
10 3	8 54.01	+18 17.2	2.965	2.593	19.3	20.1	59 W	48*	29*
10 13	9 6.81	+17 19.4	2.855	2.605	20.4	20.1	66 W	53*	32*
10 23	9 18.40	+16 23.4	2.737	2.617	21.3	20.0	73 W	57*	36*
11 2	9 28.63	+15 30.8	2.612	2.627	21.8	19.9	80 W	60*	40*
11 12	9 37.28	+14 43.4	2.483	2.637	22.0	19.8	88 W	60	43*
11 22	9 44.11	+14 3.2	2.352	2.645	21.8	19.7	96 W	59	47*
12 2	9 48.85	+13 32.2	2.222	2.653	21.1	19.6	105 W	59	50*
12 12	9 51.19	+13 12.4	2.097	2.659	19.7	19.4	114 W	58	51
12 22	9 50.88	+13 5.4	1.980	2.665	17.7	19.2	125 W	58	51
1 1	9 47.71	+13 12.2	1.877	2.669	14.9	19.0	136 W	58	51
1 11	9 41.68	+13 32.5	1.792	2.673	11.5	18.8	147 W	59	50
1 21	9 33.11	+14 3.9	1.731	2.675	7.4	18.6	160 W	59	50

237551 2000 WQ_{19}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	0 15.11	+23 9.1	0.909	1.420	43.4	20.5	97 E	68	37*
1 1	0 23.30	+25 11.1	0.977	1.444	42.7	20.7	95 E	70	33*
1 6	0 31.82	+27 2.0	1.046	1.468	42.0	20.9	93 E	72	30*
1 11	0 40.66	+28 44.0	1.115	1.492	41.2	21.0	90 E	74	28*
1 16	0 49.84	+30 18.7	1.184	1.515	40.5	21.2	88 E	75*	25*
1 21	0 59.36	+31 47.3	1.253	1.538	39.7	21.3	86 E	76*	23*
1 26	1 9.20	+33 10.7	1.321	1.559	38.9	21.4	84 E	76*	21*

247745 2003 NX_8

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	0 15.22	−10 56.5	1.812	1.966	29.8	20.6	84 E	34	65*
1 6	0 32.30	− 9 40.1	1.954	2.000	28.8	20.7	78 E	35	59*
1 16	0 49.68	− 8 15.4	2.095	2.034	27.5	20.9	73 E	37*	54*
1 26	1 7.29	− 6 45.4	2.234	2.068	26.1	21.0	68 E	37*	49*
2 5	1 25.07	− 5 12.7	2.370	2.103	24.5	21.1	62 E	37*	44*
2 15	1 43.02	− 3 39.2	2.502	2.137	22.9	21.2	57 E	35*	41*
2 25	2 1.10	− 2 7.0	2.629	2.171	21.2	21.3	52 E	33*	37*
3 7	2 19.28	− 0 37.7	2.750	2.205	19.4	21.4	48 E	29*	34*
3 17	2 37.58	+ 0 47.4	2.863	2.238	17.6	21.5	43 E	25*	31*

138868 2000 XR_{15}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	0 15.37	+17 52.4	1.181	1.604	37.6	20.1	95 E	63	41*
1 6	0 35.68	+19 4.1	1.282	1.618	37.4	20.3	90 E	64	38*
1 16	0 57.12	+20 20.9	1.383	1.632	36.9	20.5	85 E	65*	34*
1 26	1 19.55	+21 40.4	1.485	1.646	36.2	20.6	81 E	66*	31*
2 5	1 42.82	+22 59.8	1.587	1.659	35.3	20.8	76 E	65*	29*
2 15	2 6.86	+24 16.8	1.689	1.672	34.2	20.9	72 E	62*	27*
2 25	2 31.61	+25 29.0	1.788	1.684	33.0	21.0	68 E	59*	25*
3 7	2 56.96	+26 34.2	1.886	1.695	31.6	21.1	64 E	56*	23*
3 17	3 22.88	+27 30.3	1.981	1.706	30.1	21.1	59 E	52*	22*
3 27	3 49.26	+28 15.4	2.073	1.716	28.6	21.2	55 E	48*	21*
4 6	4 15.99	+28 48.1	2.161	1.725	27.0	21.3	51 E	43*	21*
4 16	4 42.98	+29 6.9	2.245	1.734	25.3	21.3	48 E	39*	20*
4 26	5 10.09	+29 10.9	2.324	1.741	23.5	21.3	44 E	35*	19*
5 6	5 37.18	+28 59.5	2.397	1.748	21.7	21.4	40 E	30*	19*
5 16	6 4.14	+28 32.4	2.465	1.753	19.9	21.4	36 E	25*	18*
5 26	6 30.84	+27 49.6	2.527	1.758	18.0	21.4	32 E	21*	17*
6 5	6 57.17	+26 51.4	2.583	1.762	16.1	21.4	29 E	16*	16*
6 15	7 23.06	+25 38.2	2.631	1.765	14.1	21.3	25 E	12*	14*
6 25	7 48.43	+24 11.0	2.673	1.766	12.1	21.3	21 E	8*	12*
7 5	8 13.27	+22 30.6	2.708	1.767	10.1	21.3	18 E	5*	10*
7 15	8 37.57	+20 37.8	2.735	1.767	8.1	21.2	14 E	2*	7*
7 25	9 1.34	+18 33.9	2.755	1.766	6.0	21.1	11 E	—	4*
8 4	9 24.61	+16 19.7	2.767	1.763	4.0	21.0	7 E	—	1*
8 14	9 47.44	+13 56.4	2.771	1.760	1.9	20.9	3 E	—	—
8 24	10 9.90	+11 25.1	2.767	1.756	0.2	20.7	0 W	—	—
9 3	10 32.06	+ 8 46.7	2.756	1.751	2.3	20.9	4 W	—	—
9 13	10 54.02	+ 6 2.3	2.737	1.745	4.4	21.0	8 W	1*	—
9 23	11 15.85	+ 3 12.9	2.710	1.738	6.5	21.1	11 W	4*	2*
10 3	11 37.67	+ 0 19.6	2.676	1.730	8.7	21.1	15 W	7*	5*
10 13	11 59.58	− 2 36.6	2.635	1.721	10.8	21.2	19 W	10*	8*
10 23	12 21.69	− 5 34.5	2.588	1.711	12.9	21.2	23 W	13*	11*
11 2	12 44.11	− 8 32.8	2.534	1.701	14.9	21.2	26 W	16*	14*
11 12	13 6.97	−11 30.3	2.474	1.690	17.0	21.2	30 W	18*	18*
11 22	13 30.38	−14 25.4	2.409	1.678	19.0	21.2	34 W	19*	22*
12 2	13 54.47	−17 16.6	2.339	1.666	21.0	21.2	37 W	19*	26*
12 12	14 19.36	−20 1.9	2.264	1.653	23.0	21.2	41 W	19*	30*
12 22	14 45.16	−22 39.4	2.186	1.640	24.9	21.1	45 W	18*	35*

138868 2000 XR_{15} *(continuation)*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 1	15 11.97	−25 6.9	2.106	1.626	26.8	21.1	48 W	17*	40*
1 11	15 39.85	−27 22.0	2.023	1.612	28.6	21.0	52 W	16*	44*
1 21	16 8.82	−29 22.0	1.938	1.597	30.4	21.0	55 W	14*	49*

345705 2006 VB_{14}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	0 15.53	+11 8.3	0.413	1.084	65.0	19.1	93 E	56	47*
1 1	0 31.18	+ 7 30.7	0.445	1.077	65.9	19.2	90 E	53	50*
1 6	0 45.29	+ 4 25.8	0.478	1.067	66.9	19.4	87 E	49	51*
1 11	0 58.18	+ 1 48.1	0.511	1.055	67.8	19.5	83 E	47	52*
1 16	1 10.09	− 0 27.8	0.542	1.040	68.8	19.7	80 E	45	53*
1 21	1 21.16	− 2 26.4	0.572	1.022	69.8	19.8	77 E	43*	53*
1 26	1 31.48	− 4 11.8	0.600	1.002	70.9	19.9	74 E	41*	52*
1 31	1 41.10	− 5 47.3	0.624	0.979	72.0	20.0	71 E	39*	52*
2 5	1 50.02	− 7 15.8	0.646	0.953	73.3	20.0	68 E	36*	51*
2 10	1 58.21	− 8 39.4	0.663	0.924	74.9	20.1	65 E	34*	50*
2 15	2 5.60	−10 0.1	0.676	0.893	76.7	20.1	62 E	31*	49*
2 20	2 12.03	−11 19.6	0.684	0.859	78.8	20.1	58 E	28*	47*
2 25	2 17.25	−12 39.3	0.687	0.822	81.4	20.1	55 E	25*	46*
3 2	2 20.91	−13 59.5	0.685	0.783	84.6	20.1	52 E	21*	44*
3 7	2 22.53	−15 19.7	0.677	0.741	88.6	20.1	48 E	17*	41*
3 12	2 21.41	−16 37.3	0.665	0.698	93.6	20.2	45 E	13*	38*
3 17	2 16.65	−17 46.6	0.649	0.653	99.7	20.2	40 E	7*	34*
3 19	2 13.49	−18 9.6	0.642	0.635	102.5	20.3	38 E	5*	32*
3 21	2 9.49	−18 28.4	0.634	0.616	105.6	20.4	37 E	2*	30*
3 23	2 4.60	−18 41.5	0.627	0.598	108.8	20.5	35 E	—	28*
3 25	1 58.76	−18 47.2	0.620	0.580	112.3	20.6	33 E	—	26*
3 27	1 51.98	−18 43.7	0.614	0.563	115.9	20.7	30 E	—	23*
3 29	1 44.26	−18 28.6	0.609	0.545	119.6	20.9	28 E	—	20*
3 31	1 35.71	−17 59.7	0.606	0.529	123.2	21.1	26 E	—	16*
4 2	1 26.48	−17 15.0	0.605	0.513	126.6	21.3	24 E	—	13*

207027 2004 VD_{59}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	0 16.08	+ 6 50.4	1.597	1.890	31.3	20.9	91 E	52	51*
1 6	0 33.98	+ 8 7.4	1.736	1.926	30.6	21.1	85 E	53	47*
1 16	0 52.29	+ 9 29.3	1.878	1.962	29.6	21.3	80 E	54*	42*
1 26	1 10.95	+10 54.2	2.021	1.998	28.4	21.5	75 E	55*	38*
2 5	1 29.87	+12 20.0	2.163	2.035	26.9	21.6	69 E	54*	35*

416676 2004 XO_5

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	0 16.26	+23 16.4	1.139	1.599	37.6	19.8	97 E	68	37*
1 6	0 44.66	+22 26.9	1.233	1.623	37.2	20.0	93 E	67	36*
1 16	1 12.66	+21 51.5	1.337	1.651	36.6	20.2	89 E	67	35*
1 26	1 40.12	+21 27.6	1.448	1.680	35.7	20.4	85 E	66*	34*
2 5	2 6.98	+21 12.3	1.566	1.712	34.6	20.6	81 E	65*	34*
2 15	2 33.23	+21 2.6	1.689	1.745	33.4	20.7	76 E	63*	33*
2 25	2 58.92	+20 55.8	1.815	1.779	31.9	20.9	72 E	60*	32*
3 7	3 24.04	+20 49.5	1.944	1.815	30.4	21.0	68 E	56*	32*
3 17	3 48.65	+20 41.6	2.073	1.851	28.7	21.2	63 E	51*	31*
3 27	4 12.77	+20 30.4	2.202	1.888	26.9	21.3	59 E	47*	31*
4 6	4 36.39	+20 14.3	2.330	1.926	25.0	21.4	54 E	42*	30*

337328 2001 DU_{40}

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 27	0 17.30	− 9 36.8	1.511	1.726	34.6	20.0	85 E	35	64*
1 6	0 34.49	− 7 22.8	1.574	1.698	34.7	20.1	80 E	38	58*
1 16	0 53.38	− 4 57.5	1.635	1.672	34.6	20.1	75 E	40*	52*
1 26	1 13.79	− 2 23.8	1.694	1.649	34.2	20.2	70 E	42*	48*
2 5	1 35.55	+ 0 15.3	1.752	1.631	33.7	20.2	66 E	43*	44*
2 15	1 58.56	+ 2 56.6	1.809	1.616	32.9	20.2	63 E	43*	40*
2 25	2 22.75	+ 5 36.8	1.866	1.605	32.0	20.2	59 E	42*	37*
3 7	2 48.02	+ 8 12.4	1.923	1.598	31.0	20.3	56 E	40*	35*
3 17	3 14.32	+10 39.9	1.981	1.596	29.9	20.3	53 E	38*	33*
3 27	3 41.54	+12 56.0	2.040	1.598	28.7	20.3	50 E	36*	31*
4 6	4 9.57	+14 57.3	2.102	1.604	27.3	20.4	47 E	33*	29*
4 16	4 38.26	+16 41.3	2.165	1.614	25.9	20.4	45 E	30*	28*
4 26	5 7.43	+18 5.7	2.231	1.629	24.4	20.4	42 E	27*	27*
5 6	5 36.87	+19 9.1	2.299	1.648	22.8	20.5	39 E	24*	26*
5 16	6 6.34	+19 50.7	2.369	1.670	21.2	20.5	37 E	20*	24*
5 26	6 35.63	+20 10.6	2.441	1.695	19.4	20.6	34 E	16*	23*
6 5	7 4.49	+20 9.5	2.513	1.724	17.6	20.6	31 E	13*	21*
6 15	7 32.77	+19 48.9	2.586	1.755	15.8	20.6	28 E	10*	19*
6 25	8 0.29	+19 10.6	2.659	1.789	13.8	20.7	25 E	7*	17*
7 5	8 26.97	+18 16.7	2.730	1.824	11.9	20.7	22 E	4*	15*
7 15	8 52.74	+17 9.5	2.799	1.862	9.9	20.7	18 E	2*	12*
7 25	9 17.57	+15 51.3	2.865	1.901	7.9	20.7	15 E	—	9*
8 4	9 41.48	+14 24.4	2.926	1.942	5.9	20.7	11 E	—	5*
8 14	10 4.51	+12 50.9	2.983	1.983	3.9	20.7	8 E	—	1*
8 24	10 26.68	+11 12.6	3.033	2.025	1.9	20.7	4 E	—	—
9 3	10 48.07	+ 9 31.6	3.076	2.068	0.9	20.7	2 E	—	—
9 13	11 8.71	+ 7 49.3	3.111	2.111	2.6	20.9	5 W	—	—
9 23	11 28.66	+ 6 7.4	3.137	2.155	4.6	21.0	10 W	4*	—
10 3	11 47.96	+ 4 27.2	3.153	2.199	6.6	21.2	15 W	8*	1*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
337328 2001 DU_{40}									*(continuation)*
	h m	° ′			°	m	°	°	°
10 13	12 6.64	+ 2 50.0	3.158	2.242	8.5	21.3	19 W	13*	4*
10 23	12 24.71	+ 1 17.0	3.153	2.286	10.4	21.5	25 W	18*	7*
489486 2007 GS_3									
12 27	0 17.60	− 8 51.9	0.709	1.163	57.4	21.1	85 E	36	64*
1 1	0 34.27	− 8 11.5	0.740	1.169	56.8	21.1	84 E	37	62*
1 6	0 50.41	− 7 26.7	0.770	1.175	56.2	21.2	83 E	38	61*
1 11	1 6.12	− 6 38.2	0.801	1.180	55.6	21.3	82 E	38	60*
1 16	1 21.47	− 5 46.6	0.831	1.185	55.1	21.4	81 E	39	58*
1 21	1 36.52	− 4 52.7	0.860	1.188	54.6	21.4	80 E	40	57*
477885 2011 JT_9									
12 27	0 18.49	−20 18.3	1.758	1.876	31.2	21.0	81 E	25	70*
1 6	0 37.55	−17 2.2	1.911	1.939	29.6	21.2	77 E	28	64*
1 16	0 55.99	−13 54.7	2.067	2.003	27.9	21.4	72 E	31*	58*
1 26	1 13.98	−10 56.8	2.225	2.067	26.2	21.6	68 E	33*	52*
2 5	1 31.61	− 8 9.1	2.385	2.130	24.4	21.8	63 E	34*	47*
5407 1992 AX									
12 27	0 18.50	−11 8.4	2.166	2.291	25.3	18.6	84 E	34	65*
1 6	0 28.95	− 9 16.5	2.305	2.303	24.6	18.8	78 E	36	58*
1 16	0 40.55	− 7 22.0	2.440	2.314	23.7	18.9	71 E	37*	51*
1 26	0 53.12	− 5 26.0	2.569	2.323	22.5	19.0	65 E	38*	45*
2 5	1 6.50	− 3 29.9	2.692	2.331	21.1	19.0	58 E	37*	40*
2 15	1 20.57	− 1 34.3	2.806	2.338	19.5	19.1	52 E	35*	35*
2 25	1 35.25	+ 0 19.6	2.911	2.343	17.9	19.1	47 E	31*	30*
3 7	1 50.45	+ 2 11.1	3.005	2.346	16.1	19.1	41 E	27*	26*
3 17	2 6.15	+ 3 59.5	3.088	2.348	14.2	19.1	35 E	22*	23*
3 27	2 22.30	+ 5 43.8	3.160	2.348	12.2	19.1	30 E	17*	19*
4 6	2 38.85	+ 7 23.5	3.219	2.347	10.3	19.0	25 E	12*	15*
4 16	2 55.81	+ 8 57.9	3.266	2.345	8.3	19.0	20 E	7*	12*
4 26	3 13.12	+10 26.3	3.299	2.341	6.3	18.9	15 E	2*	8*
5 6	3 30.78	+11 48.1	3.320	2.335	4.5	18.8	11 E	—	5*
5 16	3 48.77	+13 2.7	3.327	2.328	3.2	18.8	7 E	—	1*
5 26	4 7.06	+14 9.7	3.322	2.320	3.0	18.7	7 W	—	—
6 5	4 25.61	+15 8.5	3.304	2.310	4.2	18.8	10 W	—	3*
6 15	4 44.41	+15 58.9	3.273	2.299	6.0	18.9	14 W	—	8*
6 25	5 3.40	+16 40.4	3.230	2.286	7.9	18.9	18 W	—	12*
7 5	5 22.56	+17 13.0	3.176	2.271	9.9	18.9	23 W	4*	16*
7 15	5 41.82	+17 36.4	3.109	2.256	12.0	19.0	27 W	9*	19*
7 25	6 1.14	+17 50.6	3.032	2.238	14.0	19.0	32 W	15*	22*
8 4	6 20.47	+17 55.9	2.944	2.220	16.0	18.9	37 W	20*	25*
8 14	6 39.74	+17 52.4	2.847	2.200	17.9	18.9	42 W	26*	27*
8 24	6 58.89	+17 40.6	2.740	2.178	19.8	18.9	47 W	32*	29*
9 3	7 17.86	+17 21.1	2.625	2.155	21.6	18.8	52 W	37*	31*
9 13	7 36.59	+16 54.7	2.502	2.131	23.4	18.7	57 W	43*	33*
9 23	7 54.99	+16 22.5	2.373	2.105	25.0	18.6	62 W	48*	35*
10 3	8 13.02	+15 45.7	2.238	2.079	26.5	18.5	68 W	52*	37*
10 13	8 30.57	+15 5.8	2.099	2.051	27.8	18.4	73 W	55*	40*
10 23	8 47.55	+14 24.9	1.957	2.021	28.9	18.3	79 W	58*	42*
11 2	9 3.86	+13 45.2	1.812	1.991	29.8	18.1	85 W	59*	44*
11 12	9 19.35	+13 9.7	1.667	1.959	30.3	17.9	91 W	58	47*
11 22	9 33.84	+12 41.9	1.523	1.927	30.5	17.7	98 W	58	49*
12 2	9 47.12	+12 26.2	1.382	1.893	30.2	17.4	105 W	57	51*
12 12	9 58.85	+12 28.0	1.245	1.859	29.3	17.1	112 W	57	52*
12 17	10 4.02	+12 37.4	1.179	1.841	28.6	16.9	116 W	58	51
12 22	10 8.67	+12 53.6	1.116	1.823	27.7	16.8	120 W	58	51
12 27	10 12.71	+13 17.6	1.054	1.806	26.6	16.6	125 W	58	51
1 1	10 16.09	+13 50.3	0.995	1.788	25.2	16.4	129 W	59	50
1 6	10 18.70	+14 32.7	0.939	1.770	23.6	16.2	134 W	60	49
1 11	10 20.49	+15 25.5	0.887	1.751	21.7	16.0	139 W	60	49
1 16	10 21.39	+16 29.2	0.838	1.733	19.5	15.8	144 W	61	48
1 21	10 21.33	+17 43.9	0.794	1.715	17.1	15.6	149 W	63	46
490112 2008 UD_{49}									
12 27	0 19.15	+ 2 45.3	1.416	1.725	34.7	21.5	90 E	48	55*
1 6	0 35.37	+ 5 13.9	1.490	1.706	35.0	21.6	85 E	50	49*
1 16	0 53.52	+ 7 48.2	1.563	1.689	34.9	21.6	80 E	53*	44*
1 26	1 13.43	+10 25.4	1.637	1.677	34.5	21.7	75 E	54*	39*
2 5	1 34.90	+13 2.7	1.710	1.667	33.9	21.8	71 E	55*	35*
271518 2004 GT_{28}									
12 27	0 19.24	− 2 18.6	1.900	2.110	27.8	21.4	88 E	43	59*
1 6	0 27.65	+ 0 14.2	1.990	2.075	27.9	21.4	81 E	45	52*
1 16	0 38.08	+ 2 51.5	2.076	2.039	27.6	21.5	74 E	48*	44*
1 26	0 50.33	+ 5 32.2	2.158	2.004	27.0	21.5	68 E	48*	38*
2 5	1 4.18	+ 8 15.4	2.232	1.969	26.2	21.5	62 E	47*	32*
2 15	1 19.56	+11 0.4	2.300	1.935	25.1	21.5	56 E	45*	27*
2 25	1 36.38	+13 46.1	2.360	1.902	23.9	21.5	51 E	42*	23*
3 7	1 54.61	+16 31.2	2.412	1.869	22.6	21.5	46 E	38*	19*
3 17	2 14.30	+19 14.4	2.457	1.838	21.1	21.4	42 E	34*	16*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
271518 2004 GT_{28}									*(continuation)*
	h m	° ′			°	m	°	°	°
3 27	2 35.49	+21 53.9	2.493	1.808	19.7	21.4	38 E	31*	13*
4 6	2 58.23	+24 27.5	2.523	1.780	18.2	21.3	34 E	27*	10*
4 16	3 22.62	+26 52.8	2.546	1.753	16.8	21.2	30 E	24*	8*
4 26	3 48.71	+29 7.0	2.563	1.728	15.4	21.2	27 E	21*	6*
5 6	4 16.55	+31 6.7	2.575	1.706	14.0	21.1	24 E	18*	4*
5 16	4 46.13	+32 48.4	2.583	1.686	12.8	21.1	22 E	15*	2*
5 26	5 17.31	+34 8.5	2.588	1.669	11.8	21.0	20 E	13*	1*
6 5	5 49.89	+35 3.5	2.591	1.654	10.8	20.9	18 E	12*	—
6 15	6 23.53	+35 30.5	2.592	1.643	10.0	20.9	16 E	10*	—
6 25	6 57.77	+35 27.7	2.593	1.635	9.4	20.9	15 E	9*	—
7 5	7 32.13	+34 54.1	2.595	1.630	8.9	20.8	14 E	8*	—
7 15	8 6.12	+33 50.5	2.597	1.628	8.6	20.8	14 E	8*	—
7 25	8 39.29	+32 18.8	2.600	1.630	8.4	20.8	14 E	7*	—
8 4	9 11.32	+30 22.2	2.604	1.635	8.3	20.8	14 E	6*	—
8 14	9 42.03	+28 4.5	2.610	1.643	8.4	20.8	14 E	6*	—
8 24	10 11.30	+25 29.9	2.616	1.655	8.7	20.9	14 E	5*	—
9 3	10 39.17	+22 42.4	2.622	1.670	9.1	20.9	15 W	6*	—
9 13	11 5.70	+19 46.3	2.628	1.687	9.7	21.0	16 W	8*	—
9 23	11 30.98	+16 45.1	2.632	1.707	10.5	21.0	18 W	11*	—
10 3	11 55.15	+13 41.9	2.634	1.730	11.5	21.1	20 W	13*	—
10 13	12 18.33	+10 39.6	2.632	1.754	12.7	21.2	23 W	16*	—
10 23	12 40.62	+ 7 40.4	2.626	1.781	14.0	21.2	26 W	20*	1*
11 2	13 2.12	+ 4 46.1	2.614	1.810	15.4	21.3	29 W	23*	4*
11 12	13 22.89	+ 1 58.2	2.596	1.840	16.8	21.4	33 W	26*	8*
11 22	13 42.98	− 0 42.1	2.570	1.871	18.3	21.5	37 W	29*	13*
369550 2011 AZ_{47}									
12 27	0 19.35	−24 27.9	1.543	1.675	35.3	20.7	80 E	21	71*
1 1	0 28.93	−22 58.5	1.573	1.667	35.2	20.7	78 E	22	68*
1 6	0 38.81	−21 25.8	1.603	1.660	35.0	20.8	76 E	24	65*
1 11	0 48.95	−19 50.3	1.632	1.653	34.8	20.8	74 E	25	63*
1 16	0 59.35	−18 12.2	1.661	1.647	34.6	20.8	72 E	27	60*
1 21	1 9.98	−16 32.1	1.690	1.642	34.3	20.8	70 E	28*	58*
1 26	1 20.82	−14 50.2	1.719	1.638	34.0	20.9	68 E	30*	56*
1 31	1 31.85	−13 7.2	1.749	1.634	33.6	20.9	67 E	31*	53*
2 5	1 43.06	−11 23.2	1.778	1.632	33.3	20.9	65 E	32*	51*
2 10	1 54.46	− 9 38.9	1.808	1.630	32.8	20.9	64 E	33*	50*
2 15	2 6.03	− 7 54.5	1.838	1.629	32.4	20.9	62 E	33*	48*
2 20	2 17.77	− 6 10.6	1.868	1.628	31.9	21.0	61 E	34*	46*
2 25	2 29.66	− 4 27.7	1.899	1.629	31.4	21.0	59 E	34*	44*
3 2	2 41.70	− 2 46.1	1.931	1.630	30.9	21.0	58 E	34*	43*
3 7	2 53.88	− 1 6.3	1.963	1.632	30.3	21.0	56 E	33*	41*
3 12	3 6.21	+ 0 31.2	1.996	1.635	29.7	21.1	55 E	33*	40*
3 17	3 18.69	+ 2 6.2	2.029	1.639	29.1	21.1	53 E	32*	39*
3 22	3 31.29	+ 3 38.1	2.063	1.643	28.4	21.1	52 E	32*	38*
3 27	3 44.02	+ 5 6.6	2.098	1.648	27.7	21.1	50 E	31*	36*
4 1	3 56.86	+ 6 31.4	2.133	1.654	27.0	21.2	49 E	29*	35*
4 6	4 9.80	+ 7 52.1	2.169	1.661	26.2	21.2	47 E	28*	34*
4 11	4 22.85	+ 9 8.6	2.206	1.669	25.5	21.2	46 E	27*	33*
4 16	4 35.99	+10 20.6	2.243	1.677	24.7	21.2	44 E	26*	32*
4 21	4 49.21	+11 27.8	2.281	1.685	23.8	21.2	43 E	24*	31*
4 26	5 2.48	+12 30.1	2.319	1.695	23.0	21.3	41 E	22*	30*
5 1	5 15.80	+13 27.4	2.357	1.705	22.1	21.3	40 E	21*	28*
5 6	5 29.15	+14 19.7	2.395	1.716	21.2	21.3	38 E	19*	27*
5 11	5 42.53	+15 6.7	2.434	1.727	20.3	21.3	36 E	17*	26*
5 16	5 55.91	+15 48.6	2.472	1.739	19.3	21.3	35 E	15*	25*
5 21	6 9.27	+16 25.4	2.510	1.751	18.4	21.4	33 E	14*	24*
5 26	6 22.60	+16 57.1	2.548	1.763	17.4	21.4	31 E	12*	23*
5 31	6 35.88	+17 23.7	2.586	1.777	16.4	21.4	30 E	10*	21*
6 5	6 49.09	+17 45.5	2.623	1.790	15.4	21.4	28 E	9*	20*
6 10	7 2.23	+18 2.5	2.659	1.804	14.4	21.4	26 E	7*	19*
6 15	7 15.29	+18 14.9	2.695	1.819	13.3	21.4	24 E	6*	17*
6 20	7 28.23	+18 22.9	2.730	1.833	12.3	21.4	23 E	4*	16*
6 25	7 41.05	+18 26.6	2.764	1.848	11.2	21.4	21 E	3*	14*
6 30	7 53.75	+18 26.3	2.797	1.864	10.2	21.4	19 E	2*	12*
7 5	8 6.31	+18 22.2	2.828	1.879	9.1	21.4	17 E	1*	11*
7 10	8 18.73	+18 14.5	2.858	1.895	8.0	21.4	15 E	—	9*
7 15	8 31.00	+18 3.5	2.887	1.911	7.0	21.4	13 E	—	7*
7 20	8 43.11	+17 49.3	2.914	1.928	5.9	21.4	11 E	—	5*
7 25	8 55.06	+17 32.2	2.940	1.944	4.8	21.4	9 E	—	3*
7 30	9 6.85	+17 12.6	2.964	1.961	3.8	21.4	7 E	—	1*
8 4	9 18.48	+16 50.4	2.986	1.978	2.8	21.3	5 E	—	—
8 9	9 29.95	+16 26.2	3.005	1.995	1.8	21.3	4 E	—	—
8 14	9 41.26	+16 0.0	3.023	2.012	1.2	21.3	2 E	—	—
8 19	9 52.40	+15 32.1	3.039	2.029	1.3	21.3	3 W	—	—
8 24	10 3.38	+15 2.8	3.053	2.046	2.1	21.4	4 W	—	—
464764 2003 US_{20}									
12 27	0 20.41	+ 2 8.8	1.763	2.021	29.1	21.4	90 E	47	56*
1 6	0 34.49	+ 4 17.7	1.907	2.053	28.4	21.6	84 E	49	50*
1 16	0 49.44	+ 6 25.2	2.053	2.085	27.5	21.8	78 E	51*	44*
1 26	1 5.13	+ 8 30.8	2.198	2.118	26.3	21.9	72 E	52*	39*
2 5	1 21.42	+10 33.5	2.341	2.150	24.9	22.1	67 E	51*	34*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
376713 1995 WQ_5									
12 27	0 20.58	−18 36.8	1.175	1.425	43.1	19.5	82 E	26	70*
1 1	0 33.38	−15 38.7	1.209	1.437	42.5	19.6	81 E	29	67*
1 6	0 45.99	−12 43.0	1.246	1.451	41.9	19.6	80 E	32	63*
1 11	0 58.46	− 9 50.6	1.286	1.466	41.2	19.7	79 E	35	60*
1 16	1 10.81	− 7 2.5	1.329	1.482	40.5	19.8	78 E	38	57*
1 21	1 23.07	− 4 19.5	1.374	1.499	39.8	19.8	77 E	41*	54*
1 26	1 35.25	− 1 42.2	1.422	1.517	39.0	19.9	76 E	43*	51*
2 5	1 59.45	+ 3 13.4	1.526	1.556	37.3	20.1	73 E	47*	46*
2 15	2 23.56	+ 7 42.1	1.638	1.598	35.5	20.2	70 E	49*	42*
2 25	2 47.71	+11 42.9	1.757	1.642	33.6	20.4	67 E	50*	38*
3 7	3 11.93	+15 16.0	1.881	1.689	31.7	20.6	63 E	50*	34*
3 17	3 36.29	+18 22.1	2.009	1.737	29.7	20.7	60 E	48*	31*
3 27	4 0.77	+21 2.3	2.139	1.786	27.6	20.8	56 E	45*	28*
4 6	4 25.35	+23 17.9	2.270	1.836	25.5	21.0	52 E	42*	26*
4 16	4 49.99	+25 10.3	2.399	1.887	23.4	21.1	48 E	38*	24*
4 26	5 14.61	+26 40.8	2.526	1.938	21.3	21.2	44 E	34*	22*
5 6	5 39.11	+27 50.9	2.650	1.989	19.1	21.3	40 E	30*	20*
5 16	6 3.43	+28 42.2	2.769	2.040	17.0	21.4	36 E	25*	18*
5 26	6 27.44	+29 16.0	2.881	2.090	14.8	21.4	32 E	21*	15*
6 5	6 51.06	+29 33.9	2.987	2.140	12.7	21.5	28 E	17*	13*
483406 1999 RK_{30}									
12 27	0 20.89	+57 56.3	0.954	1.580	36.0	19.6	109 E	77	4*
1 1	0 37.51	+57 36.9	0.977	1.588	36.0	19.6	108 E	77	4*
1 6	0 55.32	+57 14.5	1.001	1.597	36.0	19.7	107 E	78	5*
1 11	1 14.08	+56 48.2	1.027	1.607	36.0	19.8	106 E	78	5*
1 16	1 33.59	+56 17.5	1.055	1.618	36.0	19.8	105 E	79	6*
1 21	1 53.59	+55 41.8	1.086	1.630	35.9	19.9	104 E	79	6*
1 26	2 13.84	+55 0.9	1.119	1.643	35.8	20.0	103 E	80	7*
1 31	2 34.14	+54 14.6	1.154	1.657	35.7	20.1	101 E	81	8*
2 5	2 54.29	+53 23.0	1.192	1.672	35.5	20.2	100 E	82	9*
2 10	3 14.14	+52 26.4	1.233	1.688	35.3	20.2	98 E	83	10*
2 15	3 33.58	+51 25.3	1.276	1.704	35.1	20.3	97 E	84*	11*
2 20	3 52.50	+50 20.3	1.322	1.721	34.9	20.4	95 E	84*	12*
2 25	4 10.84	+49 12.0	1.371	1.739	34.6	20.5	93 E	85*	13*
3 2	4 28.56	+48 0.9	1.422	1.757	34.3	20.6	92 E	84*	15*
3 7	4 45.64	+46 47.7	1.476	1.776	34.0	20.7	90 E	83*	16*
3 12	5 2.10	+45 32.8	1.533	1.796	33.6	20.8	88 E	82*	17*
3 17	5 17.94	+44 16.8	1.591	1.816	33.1	20.9	86 E	80*	18*
3 22	5 33.20	+43 0.0	1.652	1.836	32.7	21.0	84 E	78*	20*
3 27	5 47.88	+41 42.9	1.715	1.857	32.1	21.1	82 E	75*	21*
4 1	6 2.02	+40 25.6	1.779	1.878	31.6	21.2	80 E	73*	22*
4 6	6 15.65	+39 8.3	1.845	1.900	31.0	21.3	78 E	70*	23*
4 11	6 28.82	+37 51.3	1.913	1.921	30.3	21.3	75 E	67*	25*
4 16	6 41.54	+36 34.6	1.981	1.944	29.6	21.4	73 E	64*	26*
4 21	6 53.86	+35 18.3	2.051	1.966	28.9	21.5	71 E	61*	27*
238503 2004 SF_{54}									
12 27	0 21.16	− 4 21.2	1.694	1.925	30.7	21.1	88 E	41	61*
1 6	0 37.99	− 2 39.6	1.834	1.959	29.8	21.3	82 E	42	55*
1 16	0 55.23	− 0 54.0	1.974	1.992	28.7	21.4	77 E	44*	50*
1 26	1 12.81	+ 0 53.4	2.115	2.026	27.4	21.6	71 E	45*	45*
2 5	1 30.67	+ 2 40.5	2.253	2.060	25.9	21.7	66 E	45*	41*
6569 Ondaatje									
12 27	0 21.72	−24 19.3	1.556	1.693	34.9	19.9	80 E	21	72*
1 6	0 40.30	−20 24.7	1.664	1.721	33.7	20.1	76 E	25	66*
1 16	0 58.86	−16 36.7	1.775	1.748	32.4	20.2	72 E	28*	60*
1 26	1 17.46	−12 56.7	1.886	1.773	31.0	20.4	68 E	32*	54*
2 5	1 36.14	− 9 25.9	1.997	1.797	29.5	20.5	64 E	33*	49*
2 15	1 54.97	− 6 5.1	2.106	1.820	27.9	20.6	60 E	34*	44*
2 25	2 13.98	− 2 55.0	2.214	1.842	26.3	20.6	55 E	33*	40*
3 7	2 33.19	+ 0 3.8	2.318	1.862	24.5	20.7	51 E	32*	37*
3 17	2 52.65	+ 2 50.9	2.418	1.881	22.6	20.8	47 E	29*	33*
3 27	3 12.38	+ 5 25.9	2.513	1.899	20.7	20.8	42 E	26*	30*
4 6	3 32.37	+ 7 48.5	2.602	1.914	18.8	20.8	38 E	22*	27*
4 16	3 52.66	+ 9 58.5	2.683	1.929	16.7	20.9	34 E	18*	23*
4 26	4 13.24	+11 55.8	2.757	1.941	14.6	20.9	29 E	13*	20*
5 6	4 34.08	+13 40.1	2.821	1.953	12.5	20.9	25 E	9*	17*
5 16	4 55.20	+15 11.5	2.877	1.962	10.4	20.8	20 E	5*	13*
5 26	5 16.55	+16 30.0	2.922	1.970	8.2	20.8	16 E	—	10*
6 5	5 38.10	+17 35.6	2.958	1.976	6.1	20.7	12 E	—	6*
6 15	5 59.84	+18 28.5	2.982	1.981	4.0	20.6	8 E	—	2*
6 25	6 21.71	+19 9.1	2.995	1.984	2.3	20.5	5 E	—	—
7 5	6 43.67	+19 37.6	2.997	1.985	2.2	20.5	4 W	—	—
7 15	7 5.70	+19 54.5	2.988	1.985	3.8	20.6	7 W	—	1*
7 25	7 27.74	+20 0.5	2.967	1.983	5.9	20.7	12 W	2*	4*
8 4	7 49.77	+19 56.3	2.935	1.979	8.1	20.8	16 W	6*	7*
8 14	8 11.77	+19 42.6	2.892	1.974	10.3	20.8	20 W	11*	9*
8 24	8 33.70	+19 20.3	2.837	1.967	12.5	20.9	25 W	16*	11*
9 3	8 55.58	+18 50.6	2.773	1.958	14.7	20.9	29 W	21*	13*

20/22	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6569 Ondaatje *(continuation)*									
9 13	9 17.39	+18 14.5	2.698	1.948	16.8	20.9	34 W	26*	14*
9 23	9 39.14	+17 33.4	2.614	1.936	18.9	20.9	39 W	31*	16*
10 3	10 0.85	+16 48.7	2.522	1.922	21.0	20.9	43 W	36*	18*
10 13	10 22.55	+16 1.9	2.421	1.908	23.0	20.8	48 W	40*	20*
10 23	10 44.26	+15 14.9	2.314	1.891	24.9	20.8	53 W	45*	22*
11 2	11 6.02	+14 29.5	2.201	1.873	26.7	20.7	58 W	49*	24*
11 12	11 27.86	+13 47.9	2.084	1.853	28.4	20.6	63 W	52*	26*
11 22	11 49.82	+13 12.6	1.963	1.833	29.9	20.5	68 W	55*	29*
12 2	12 11.92	+12 46.1	1.841	1.810	31.3	20.4	73 W	56*	32*
12 12	12 34.16	+12 31.3	1.719	1.787	32.6	20.2	78 W	57*	36*
12 22	12 56.54	+12 31.4	1.597	1.762	33.6	20.0	82 W	58	39*
1 1	13 19.04	+12 49.4	1.478	1.736	34.5	19.9	87 W	58	42*
1 11	13 41.55	+13 28.8	1.363	1.709	35.1	19.7	92 W	58	45*
1 21	14 3.95	+14 32.4	1.254	1.681	35.6	19.5	97 W	60	47*
307986 2004 QT_{26}									
12 27	0 21.76	+19 48.3	1.558	1.946	30.1	19.8	97 E	65	40*
1 6	0 38.97	+20 47.0	1.695	1.984	29.7	20.0	92 E	66	37*
1 16	0 57.09	+21 50.5	1.836	2.022	29.0	20.2	86 E	67*	33*
1 26	1 15.93	+22 57.1	1.980	2.062	28.1	20.4	81 E	67*	30*
2 5	1 35.35	+24 5.1	2.124	2.102	27.0	20.6	75 E	65*	27*
2 15	1 55.25	+25 12.6	2.269	2.143	25.7	20.7	70 E	62*	24*
2 25	2 15.55	+26 18.3	2.413	2.183	24.2	20.8	65 E	57*	22*
3 7	2 36.16	+27 20.7	2.555	2.224	22.6	21.0	60 E	53*	20*
3 17	2 57.04	+28 18.5	2.693	2.265	20.9	21.1	54 E	48*	18*
3 27	3 18.11	+29 10.6	2.827	2.306	19.2	21.1	49 E	43*	16*
4 6	3 39.30	+29 56.2	2.955	2.346	17.3	21.2	44 E	38*	14*
4 16	4 0.56	+30 34.5	3.076	2.386	15.5	21.3	39 E	33*	12*
4 26	4 21.81	+31 5.0	3.190	2.426	13.5	21.3	34 E	27*	10*
5 6	4 42.98	+31 27.2	3.295	2.466	11.6	21.4	29 E	22*	8*
5 16	5 3.99	+31 41.2	3.390	2.505	9.6	21.4	24 E	17*	6*
5 26	5 24.77	+31 46.7	3.474	2.543	7.7	21.4	20 E	13*	3*
6 5	5 45.24	+31 43.9	3.547	2.581	5.9	21.4	15 E	9*	—
6 15	6 5.33	+31 33.3	3.608	2.618	4.2	21.4	11 E	5*	—
6 25	6 24.97	+31 15.1	3.657	2.655	3.1	21.3	8 E	2*	—
7 5	6 44.10	+30 50.0	3.692	2.690	3.2	21.4	8 W	2*	—
133249 2003 RS_6									
12 27	0 22.75	− 7 25.4	2.200	2.361	24.6	21.1	87 E	38	63*
1 6	0 33.82	− 5 42.4	2.356	2.391	23.9	21.3	80 E	39	57*
1 16	0 45.85	− 3 57.0	2.511	2.420	22.9	21.4	73 E	41*	50*
1 26	0 58.65	− 2 10.5	2.662	2.449	21.7	21.5	67 E	41*	44*
2 5	1 12.09	− 0 24.2	2.807	2.477	20.3	21.6	61 E	40*	39*
294698 2008 BJ_2									
12 27	0 23.07	− 5 45.4	1.393	1.671	36.0	20.8	88 E	39	62*
1 6	0 42.71	− 2 50.2	1.490	1.685	35.4	21.0	83 E	42	56*
1 16	1 3.06	+ 0 4.5	1.590	1.700	34.6	21.1	79 E	45	51*
1 26	1 24.03	+ 2 56.1	1.693	1.718	33.5	21.2	75 E	48*	46*
2 5	1 45.52	+ 5 42.2	1.798	1.739	32.3	21.3	71 E	49*	42*
2 15	2 7.50	+ 8 21.0	1.905	1.761	30.9	21.5	66 E	49*	38*
416223 2002 XJ_{69}									
12 27	0 23.41	+29 50.9	1.063	1.583	37.5	21.3	101 E	75	31*
1 1	0 34.91	+28 40.1	1.083	1.568	38.3	21.4	99 E	74	31*
1 6	0 46.97	+27 34.6	1.104	1.553	39.0	21.4	96 E	73	32*
1 11	0 59.53	+26 34.3	1.127	1.539	39.7	21.5	93 E	72	32*
1 16	1 12.52	+25 38.8	1.151	1.525	40.2	21.5	91 E	71	32*
3908 Nyx									
12 27	0 23.88	+ 3 46.8	0.522	1.126	60.8	18.3	92 E	49	55*
1 1	0 49.24	+ 6 3.2	0.539	1.147	58.8	18.4	93 E	51	53*
1 6	1 14.07	+ 8 12.4	0.561	1.171	56.8	18.4	95 E	53	52*
1 11	1 38.19	+10 12.3	0.588	1.196	54.9	18.5	96 E	55	50*
1 16	2 1.51	+12 1.6	0.620	1.222	53.1	18.6	97 E	57	49*
1 26	2 45.42	+15 6.5	0.696	1.278	49.8	18.9	98 E	60	47*
2 5	3 25.60	+17 27.7	0.787	1.338	46.9	19.2	97 E	62	45*
2 15	4 2.37	+19 10.7	0.893	1.400	44.5	19.5	96 E	64	44*
2 20	4 19.62	+19 50.0	0.950	1.432	43.4	19.6	95 E	65	43*
2 25	4 36.18	+20 22.0	1.010	1.464	42.4	19.8	94 E	65	43*
3 2	4 52.12	+20 47.4	1.072	1.496	41.4	19.9	93 E	66*	42*
3 7	5 7.48	+21 6.9	1.137	1.528	40.5	20.1	91 E	66*	42*
3 12	5 22.32	+21 20.9	1.204	1.560	39.6	20.2	90 E	66*	42*
3 17	5 36.70	+21 30.0	1.273	1.591	38.7	20.4	88 E	65*	42*
3 22	5 50.64	+21 34.4	1.343	1.623	37.8	20.5	87 E	64*	41*
3 27	6 4.18	+21 34.6	1.415	1.655	36.9	20.6	85 E	63*	41*
4 1	6 17.35	+21 30.9	1.488	1.686	36.0	20.8	83 E	62*	41*
4 6	6 30.16	+21 23.4	1.563	1.717	35.1	20.9	81 E	60*	41*
4 11	6 42.67	+21 12.6	1.638	1.748	34.2	21.0	79 E	58*	41*
4 16	6 54.87	+20 58.5	1.714	1.779	33.3	21.1	77 E	56*	42*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		3908 Nyx				*(continuation)*			
	h m	° ′			°	m	°	°	°
4 21	7 6.80	+20 41.5	1.791	1.809	32.4	21.2	75 E	54*	42*
4 26	7 18.46	+20 21.6	1.868	1.839	31.5	21.3	73 E	51*	42*
5 1	7 29.87	+19 59.1	1.945	1.868	30.6	21.4	71 E	48*	42*
		427521 2002 JK_{20}							
12 27	0 24.50	− 8 6.8	2.154	2.321	25.0	20.8	87 E	37	64*
1 6	0 36.17	− 5 53.1	2.322	2.368	24.2	21.0	80 E	39	57*
1 16	0 48.57	− 3 42.2	2.491	2.414	23.1	21.2	74 E	41*	51*
1 26	1 1.57	− 1 34.6	2.657	2.460	21.7	21.3	68 E	42*	45*
2 5	1 15.03	+ 0 29.2	2.820	2.506	20.2	21.5	62 E	41*	39*
		307190 2002 EK_{130}							
12 27	0 25.09	+15 31.4	2.742	3.015	18.9	21.5	96 E	61	44*
1 6	0 32.62	+15 36.9	2.922	3.052	18.8	21.6	88 E	61	40*
1 16	0 41.35	+15 54.0	3.101	3.089	18.3	21.8	80 E	61*	36*
1 26	0 51.09	+16 20.9	3.277	3.124	17.5	21.9	72 E	59*	31*
2 5	1 1.65	+16 55.9	3.446	3.159	16.4	22.0	65 E	55*	26*
		380636 2004 XN_{14}							
12 27	0 26.32	−13 59.0	0.740	1.179	56.2	21.4	85 E	31	69*
1 6	0 48.67	− 9 18.9	0.794	1.176	55.9	21.6	82 E	36	62*
1 16	1 10.91	− 4 49.8	0.845	1.167	55.8	21.7	79 E	40	56*
1 26	1 33.40	− 0 30.8	0.890	1.152	55.9	21.8	76 E	44*	50*
2 5	1 56.39	+ 3 38.4	0.929	1.132	56.1	21.8	72 E	47*	45*
		166044 2002 CE_{14}							
12 27	0 26.33	+47 29.8	1.107	1.686	33.8	19.0	107 E	87	15*
1 1	0 39.07	+47 5.5	1.143	1.696	33.9	19.1	106 E	88	14*
1 6	0 52.43	+46 42.5	1.182	1.707	34.0	19.1	104 E	88	14*
1 11	1 6.30	+46 20.3	1.222	1.718	34.1	19.2	102 E	89	14*
1 16	1 20.61	+45 58.8	1.264	1.729	34.1	19.3	100 E	89	14*
1 21	1 35.26	+45 37.6	1.307	1.741	34.0	19.4	98 E	89	14*
1 26	1 50.18	+45 16.5	1.352	1.754	33.9	19.5	96 E	90*	14*
1 31	2 5.29	+44 55.0	1.399	1.766	33.8	19.6	94 E	88*	15*
2 5	2 20.52	+44 33.0	1.448	1.780	33.6	19.7	92 E	86*	15*
2 10	2 35.82	+44 10.1	1.499	1.793	33.4	19.7	90 E	84*	15*
2 15	2 51.15	+43 46.2	1.551	1.807	33.1	19.8	88 E	82*	15*
2 20	3 6.44	+43 21.1	1.604	1.821	32.8	19.9	86 E	80*	16*
2 25	3 21.67	+42 54.8	1.659	1.835	32.4	20.0	84 E	78*	16*
3 2	3 36.78	+42 26.9	1.715	1.850	32.0	20.1	82 E	76*	17*
3 7	3 51.74	+41 57.5	1.772	1.865	31.5	20.1	79 E	73*	17*
3 12	4 6.54	+41 26.4	1.831	1.880	31.0	20.2	77 E	71*	17*
3 17	4 21.16	+40 53.7	1.890	1.895	30.5	20.3	75 E	69*	18*
3 22	4 35.57	+40 19.3	1.951	1.911	29.9	20.4	73 E	67*	18*
3 27	4 49.75	+39 43.2	2.011	1.926	29.3	20.4	71 E	64*	19*
4 1	5 3.69	+39 5.3	2.073	1.942	28.6	20.5	68 E	62*	20*
4 6	5 17.38	+38 25.8	2.135	1.958	27.9	20.5	66 E	59*	20*
4 11	5 30.82	+37 44.5	2.197	1.973	27.1	20.6	64 E	57*	21*
4 16	5 44.01	+37 1.7	2.259	1.989	26.4	20.7	62 E	54*	21*
4 21	5 56.94	+36 17.2	2.320	2.005	25.6	20.7	59 E	51*	21*
4 26	6 9.61	+35 31.2	2.382	2.021	24.7	20.8	57 E	49*	22*
5 1	6 22.02	+34 43.7	2.443	2.037	23.9	20.8	55 E	46*	22*
5 6	6 34.17	+33 54.7	2.504	2.053	23.0	20.8	53 E	43*	22*
5 11	6 46.07	+33 4.2	2.563	2.069	22.1	20.9	50 E	40*	23*
5 16	6 57.73	+32 12.5	2.622	2.085	21.1	20.9	48 E	37*	23*
5 21	7 9.14	+31 19.5	2.680	2.101	20.2	21.0	46 E	34*	23*
5 26	7 20.32	+30 25.2	2.737	2.117	19.2	21.0	43 E	31*	22*
5 31	7 31.25	+29 29.8	2.792	2.133	18.2	21.0	41 E	28*	22*
6 5	7 41.97	+28 33.2	2.845	2.149	17.2	21.0	39 E	25*	22*
6 10	7 52.47	+27 35.6	2.898	2.165	16.1	21.1	36 E	22*	21*
6 15	8 2.76	+26 37.0	2.948	2.180	15.1	21.1	34 E	19*	20*
6 20	8 12.85	+25 37.5	2.996	2.196	14.0	21.1	32 E	17*	19*
6 25	8 22.74	+24 37.0	3.042	2.211	13.0	21.1	29 E	14*	18*
6 30	8 32.44	+23 35.8	3.086	2.227	11.9	21.1	27 E	12*	17*
7 5	8 41.96	+22 33.7	3.128	2.242	10.8	21.1	24 E	10*	15*
7 10	8 51.30	+21 30.9	3.168	2.257	9.7	21.1	22 E	8*	13*
7 15	9 0.48	+20 27.4	3.204	2.272	8.6	21.1	20 E	6*	12*
7 20	9 9.49	+19 23.3	3.239	2.286	7.5	21.1	17 E	4*	10*
7 25	9 18.34	+18 18.6	3.270	2.301	6.4	21.1	15 E	2*	7*
7 30	9 27.04	+17 13.3	3.299	2.316	5.3	21.0	12 E	1*	5*
8 4	9 35.60	+16 7.5	3.324	2.330	4.1	21.0	10 E	—	3*
8 9	9 44.02	+15 1.3	3.347	2.344	3.0	21.0	7 E	—	1*
8 14	9 52.30	+13 54.6	3.367	2.358	1.9	20.9	4 E	—	—
8 19	10 0.45	+12 47.5	3.383	2.372	0.8	20.9	2 E	—	—
8 24	10 8.47	+11 40.1	3.396	2.385	0.4	20.8	1 W	—	—
8 29	10 16.37	+10 32.4	3.406	2.399	1.4	21.0	3 W	—	—
9 3	10 24.15	+ 9 24.5	3.413	2.412	2.5	21.1	6 W	—	—
9 8	10 31.81	+ 8 16.2	3.416	2.425	3.6	21.1	9 W	2*	1*
9 13	10 39.35	+ 7 7.8	3.416	2.438	4.7	21.2	12 W	4*	3*
9 18	10 46.77	+ 5 59.3	3.412	2.450	5.8	21.3	14 W	6*	5*
9 23	10 54.07	+ 4 50.6	3.405	2.463	6.9	21.3	17 W	9*	7*
9 28	11 1.26	+ 3 41.8	3.394	2.475	7.9	21.4	20 W	11*	9*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		166044 2002 CE_{14}				*(continuation)*			
	h m	° ′			°	m	°	°	°
10 3	11 8.33	+ 2 32.9	3.380	2.487	8.9	21.4	23 W	14*	11*
10 8	11 15.29	+ 1 24.0	3.362	2.499	10.0	21.5	26 W	16*	13*
		509193 2006 OX_{19}							
12 27	0 26.78	− 9 47.2	1.563	1.801	33.0	21.0	87 E	35	66*
1 6	0 46.06	− 7 32.5	1.702	1.846	31.9	21.2	82 E	37	60*
1 16	1 5.21	− 5 17.6	1.843	1.891	30.5	21.4	77 E	40	55*
1 26	1 24.29	− 3 4.6	1.987	1.937	29.0	21.6	73 E	42*	50*
2 5	1 43.29	− 0 55.3	2.130	1.983	27.4	21.8	68 E	42*	46*
		427643 2003 VF_{1}							
12 27	0 27.05	−17 3.3	1.559	1.756	33.9	20.9	84 E	28	70*
1 6	0 29.46	−11 41.4	1.638	1.707	34.1	20.9	77 E	33	59*
1 16	0 34.59	− 6 31.5	1.715	1.657	33.9	21.0	70 E	38*	49*
1 26	0 41.94	− 1 32.5	1.788	1.606	33.2	21.0	63 E	41*	41*
2 5	0 51.12	+ 3 17.8	1.852	1.553	32.2	21.0	57 E	42*	33*
2 15	1 1.96	+ 8 2.1	1.907	1.499	30.9	20.9	51 E	40*	26*
2 25	1 14.36	+12 43.2	1.948	1.445	29.4	20.8	46 E	38*	19*
3 7	1 28.37	+17 23.3	1.976	1.391	28.0	20.7	41 E	34*	14*
3 17	1 44.18	+22 4.8	1.988	1.337	26.7	20.6	37 E	31*	8*
3 27	2 2.13	+26 49.3	1.984	1.284	25.8	20.5	34 E	28*	4*
4 6	2 22.81	+31 37.5	1.964	1.234	25.4	20.4	32 E	26*	—
4 11	2 34.45	+34 2.8	1.948	1.210	25.5	20.3	31 E	25*	—
4 16	2 47.15	+36 28.5	1.929	1.186	25.8	20.3	31 E	24*	—
4 21	3 1.11	+38 54.1	1.906	1.164	26.3	20.2	31 E	24*	—
4 26	3 16.55	+41 18.4	1.881	1.143	27.0	20.2	31 E	24*	—
5 1	3 33.75	+43 40.1	1.852	1.124	27.9	20.1	32 E	24*	—
5 6	3 53.04	+45 57.1	1.822	1.106	29.0	20.1	32 E	24*	—
5 11	4 14.77	+48 6.5	1.789	1.090	30.3	20.1	33 E	25*	—
5 16	4 39.28	+50 4.5	1.756	1.076	31.6	20.0	34 E	26*	—
5 21	5 6.84	+51 46.0	1.722	1.065	33.0	20.0	35 E	27*	—
5 26	5 37.52	+53 5.0	1.689	1.055	34.4	20.0	36 E	29*	—
5 28	5 50.64	+53 28.8	1.676	1.052	35.0	20.0	37 E	29*	—
5 30	6 4.19	+53 47.4	1.664	1.049	35.5	20.0	37 E	30*	—
6 1	6 18.12	+54 0.5	1.651	1.047	36.1	20.0	37 E	31*	—
6 3	6 32.40	+54 7.7	1.639	1.045	36.6	20.0	38 E	31*	—
6 5	6 46.93	+54 8.5	1.628	1.043	37.1	20.0	38 E	32*	—
6 7	7 1.65	+54 2.7	1.617	1.042	37.6	19.9	39 E	32*	—
6 9	7 16.47	+53 50.1	1.607	1.041	38.0	19.9	39 E	33*	—
6 11	7 31.29	+53 30.6	1.597	1.041	38.5	19.9	40 E	34*	—
6 13	7 46.03	+53 3.9	1.588	1.041	38.9	19.9	40 E	34*	—
6 15	8 0.60	+52 30.3	1.579	1.041	39.3	19.9	40 E	34*	1*
6 17	8 14.92	+51 49.7	1.572	1.042	39.6	19.9	41 E	35*	2*
6 19	8 28.92	+51 2.5	1.565	1.044	39.9	19.9	41 E	35*	3*
6 21	8 42.54	+50 8.8	1.559	1.045	40.2	19.9	42 E	35*	4*
6 23	8 55.73	+49 8.9	1.555	1.047	40.4	20.0	42 E	36*	6*
6 25	9 8.46	+48 3.4	1.551	1.050	40.6	20.0	42 E	36*	7*
6 30	9 38.16	+44 57.1	1.545	1.058	40.8	20.0	43 E	36*	10*
7 5	10 4.78	+41 24.7	1.547	1.068	40.8	20.0	43 E	35*	14*
7 10	10 28.52	+37 33.3	1.555	1.081	40.6	20.0	44 E	34*	17*
7 15	10 49.70	+33 29.9	1.570	1.095	40.1	20.1	44 E	33*	20*
7 20	11 8.67	+29 20.2	1.592	1.112	39.4	20.1	44 E	31*	23*
7 25	11 25.79	+25 9.2	1.619	1.130	38.4	20.2	44 E	29*	26*
7 30	11 41.39	+21 0.8	1.653	1.150	37.3	20.2	43 E	26*	28*
8 4	11 55.74	+16 57.8	1.691	1.171	36.1	20.3	43 E	24*	30*
8 9	12 9.08	+13 2.2	1.734	1.194	34.7	20.3	42 E	21*	31*
8 14	12 21.61	+ 9 15.5	1.779	1.217	33.3	20.4	41 E	19*	32*
8 24	12 44.85	+ 2 10.7	1.879	1.267	30.2	20.5	39 E	14*	32*
9 3	13 6.48	− 4 15.4	1.984	1.319	27.1	20.6	37 E	10*	30*
9 13	13 27.23	−10 5.6	2.090	1.372	24.1	20.7	34 E	5*	28*
9 23	13 47.62	−15 23.8	2.193	1.427	21.1	20.8	31 E	2*	25*
10 3	14 8.06	−20 14.3	2.290	1.481	18.4	20.9	28 E	—	21*
10 13	14 28.90	−24 40.7	2.380	1.535	15.9	21.0	25 E	—	18*
10 23	14 50.39	−28 45.9	2.461	1.588	13.9	21.1	22 E	—	14*
11 2	15 12.80	−32 32.2	2.532	1.640	12.3	21.1	21 E	—	11*
11 12	15 36.34	−36 1.2	2.592	1.691	11.2	21.2	19 E	—	8*
11 22	16 1.21	−39 13.3	2.641	1.740	10.8	21.3	19 E	—	6*
12 2	16 27.60	−42 8.9	2.679	1.787	11.0	21.4	20 W	—	5*
12 12	16 55.68	−44 47.6	2.707	1.833	11.7	21.5	22 W	—	9*
		515030 2009 UM_{130}							
12 27	0 27.09	− 0 2.3	1.290	1.633	37.0	20.4	91 E	45	58*
1 6	0 46.06	+ 3 34.6	1.388	1.650	36.5	20.6	86 E	49	52*
1 16	1 6.03	+ 7 2.5	1.490	1.669	35.7	20.7	82 E	52	46*
1 26	1 26.91	+10 19.8	1.597	1.692	34.7	20.9	78 E	55*	41*
2 5	1 48.56	+13 25.2	1.706	1.718	33.5	21.0	74 E	56*	37*
2 15	2 10.94	+16 17.5	1.819	1.746	32.1	21.2	70 E	56*	33*
2 25	2 33.99	+18 55.5	1.934	1.776	30.6	21.3	66 E	55*	30*
3 7	2 57.63	+21 18.4	2.050	1.808	29.0	21.4	62 E	52*	27*