19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
				226213 2002 VR_{51}					
	h m	° ′			°	m	°	°	°
12 23	3 26.41	+16 15.9	0.761	1.655	21.1	18.7	143 E	61	48
1 2	3 27.16	+17 31.5	0.815	1.651	25.8	19.0	133 E	63	46
1 12	3 32.51	+18 54.9	0.881	1.650	29.4	19.3	124 E	64	45
1 22	3 42.04	+20 21.9	0.956	1.652	32.1	19.6	117 E	65	44
2 1	3 55.27	+21 48.6	1.038	1.657	34.0	19.8	110 E	67	42*
2 11	4 11.63	+23 11.2	1.127	1.665	35.1	20.0	104 E	68	41*
2 21	4 30.56	+24 25.8	1.220	1.676	35.7	20.2	98 E	69	39*
3 2	4 51.60	+25 29.4	1.317	1.689	35.9	20.4	93 E	70*	38*
3 12	5 14.29	+26 19.4	1.418	1.705	35.6	20.6	88 E	70*	36*
3 22	5 38.21	+26 53.8	1.521	1.723	35.1	20.7	84 E	68*	36*
4 1	6 3.01	+27 11.4	1.627	1.743	34.3	20.9	79 E	64*	35*
4 11	6 28.32	+27 11.5	1.734	1.765	33.3	21.0	75 E	60*	35*
4 21	6 53.83	+26 54.0	1.843	1.789	32.1	21.2	71 E	56*	35*
5 1	7 19.30	+26 19.5	1.953	1.815	30.7	21.3	67 E	51*	35*
5 11	7 44.49	+25 29.1	2.064	1.841	29.3	21.4	63 E	45*	35*
5 21	8 9.23	+24 24.0	2.174	1.869	27.7	21.5	59 E	40*	35*
				159399 1998 UL_{1}					
12 23	3 27.09	−30 54.4	1.034	1.694	32.0	19.1	114 E	14	85
12 28	3 22.41	−31 16.7	1.067	1.682	33.3	19.2	110 E	14	85
1 2	3 18.99	−31 24.3	1.102	1.670	34.4	19.2	106 E	14	85
1 7	3 16.81	−31 19.7	1.136	1.657	35.4	19.3	103 E	14	85
1 12	3 15.86	−31 5.0	1.170	1.645	36.2	19.4	99 E	14	85
1 17	3 16.06	−30 42.0	1.202	1.632	36.8	19.5	96 E	14	85
1 22	3 17.37	−30 12.3	1.234	1.618	37.4	19.5	93 E	15	86*
1 27	3 19.71	−29 36.9	1.264	1.605	37.9	19.6	90 E	15	84*
2 1	3 23.04	−28 57.1	1.292	1.591	38.2	19.6	88 E	16	82*
2 6	3 27.27	−28 13.8	1.317	1.576	38.5	19.6	85 E	17	79*
2 11	3 32.35	−27 27.6	1.341	1.562	38.8	19.7	83 E	18	77*
2 16	3 38.23	−26 39.0	1.362	1.548	39.0	19.7	81 E	18	74*
2 21	3 44.86	−25 48.5	1.380	1.533	39.2	19.7	79 E	19*	72*
2 26	3 52.22	−24 56.3	1.396	1.518	39.4	19.7	77 E	20*	71*
3 2	4 0.27	−24 2.8	1.410	1.503	39.6	19.7	75 E	20*	69*
3 12	4 18.33	−22 12.9	1.429	1.473	40.0	19.7	72 E	20*	66*
3 22	4 38.91	−20 19.6	1.439	1.442	40.5	19.7	70 E	19*	64*
4 1	5 1.94	−18 23.5	1.441	1.412	41.0	19.7	68 E	18*	62*
4 11	5 27.37	−16 25.4	1.437	1.382	41.6	19.6	66 E	16*	60*
4 21	5 55.13	−14 25.3	1.429	1.353	42.3	19.6	65 E	15*	59*
5 1	6 25.16	−12 23.8	1.419	1.325	42.9	19.5	64 E	13*	57*
5 11	6 57.30	−10 22.1	1.411	1.299	43.5	19.5	62 E	11*	56*
5 21	7 31.31	− 8 21.3	1.408	1.275	44.0	19.5	61 E	10*	55*
5 31	8 6.83	− 6 23.9	1.410	1.254	44.3	19.4	60 E	9*	53*
6 10	8 43.40	− 4 32.4	1.421	1.235	44.3	19.4	58 E	8*	52*
6 20	9 20.51	− 2 49.4	1.440	1.221	43.9	19.4	56 E	8*	50*
6 30	9 57.67	− 1 17.5	1.469	1.210	43.3	19.4	55 E	9*	48*
7 10	10 34.43	+ 0 1.6	1.505	1.203	42.3	19.4	53 E	10*	46*
7 20	11 10.49	+ 1 7.1	1.548	1.200	41.0	19.5	51 E	12*	44*
7 30	11 45.68	+ 1 59.1	1.594	1.202	39.5	19.5	49 E	14*	42*
8 9	12 19.93	+ 2 38.5	1.643	1.208	37.9	19.5	47 E	16*	39*
8 19	12 53.33	+ 3 6.4	1.693	1.219	36.3	19.5	45 E	18*	37*
8 29	13 26.01	+ 3 24.5	1.741	1.233	34.7	19.6	44 E	20*	35*
9 8	13 58.12	+ 3 34.9	1.787	1.251	33.2	19.6	43 E	22*	32*
9 18	14 29.87	+ 3 39.2	1.830	1.271	31.8	19.7	42 E	24*	30*
9 28	15 1.42	+ 3 39.7	1.870	1.295	30.6	19.7	41 E	26*	27*
10 8	15 32.90	+ 3 38.5	1.908	1.321	29.5	19.8	41 E	28*	25*
10 18	16 4.42	+ 3 37.8	1.945	1.348	28.5	19.9	40 E	29*	22*
10 28	16 36.04	+ 3 39.7	1.982	1.377	27.6	19.9	40 E	31*	19*
11 7	17 7.73	+ 3 46.3	2.019	1.407	26.7	20.0	40 E	32*	16*
11 17	17 39.45	+ 3 59.2	2.059	1.437	25.8	20.0	39 E	32*	12*
11 27	18 11.09	+ 4 19.8	2.101	1.468	24.9	20.1	39 E	32*	8*
12 7	18 42.51	+ 4 49.0	2.147	1.498	23.9	20.2	38 E	32*	5*
12 17	19 13.58	+ 5 27.0	2.196	1.528	22.7	20.2	37 E	31*	1*
12 27	19 44.13	+ 6 13.8	2.249	1.557	21.5	20.3	36 E	29*	—
1 6	20 14.06	+ 7 8.6	2.305	1.586	20.2	20.3	34 E	27*	—
1 16	20 43.26	+ 8 10.5	2.363	1.614	18.8	20.4	32 E	24*	—
				234148 2000 FF_{1}					
12 23	3 27.91	+ 1 37.6	1.779	2.585	15.1	20.5	137 E	47	62
1 2	3 21.38	+ 3 5.6	1.850	2.560	18.0	20.6	127 E	48	61
1 12	3 17.84	+ 4 44.8	1.937	2.534	20.3	20.8	117 E	50	59
1 22	3 17.28	+ 6 31.1	2.034	2.508	22.0	20.9	107 E	52	57*
2 1	3 19.59	+ 8 21.7	2.139	2.481	23.1	21.0	98 E	53	54*
2 11	3 24.50	+10 13.9	2.247	2.453	23.7	21.1	90 E	55	50*
2 21	3 31.74	+12 5.8	2.354	2.425	23.8	21.2	82 E	56*	46*
3 2	3 41.07	+13 56.1	2.457	2.395	23.5	21.3	75 E	55*	42*
3 12	3 52.25	+15 43.4	2.556	2.366	22.9	21.3	68 E	52*	38*
3 22	4 5.10	+17 26.6	2.647	2.335	21.9	21.3	61 E	47*	34*
4 1	4 19.48	+19 4.7	2.729	2.304	20.8	21.3	55 E	42*	30*
4 11	4 35.23	+20 36.8	2.802	2.273	19.4	21.3	49 E	37*	27*
4 21	4 52.28	+22 1.8	2.865	2.241	17.9	21.3	43 E	31*	24*
5 1	5 10.53	+23 18.8	2.916	2.209	16.3	21.2	38 E	26*	21*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
				234148 2000 FF_{1} *(continuation)*					
	h m	° ′			°	m	°	°	°
5 11	5 29.90	+24 26.9	2.957	2.177	14.5	21.2	33 E	21*	18*
5 21	5 50.32	+25 25.0	2.987	2.144	12.7	21.1	28 E	16*	15*
5 31	6 11.72	+26 12.3	3.007	2.111	10.8	21.0	23 E	12*	11*
6 10	6 34.03	+26 48.0	3.015	2.079	9.0	20.9	19 E	9*	8*
6 20	6 57.16	+27 11.1	3.014	2.046	7.2	20.8	15 E	6*	4*
6 30	7 21.05	+27 21.1	3.003	2.014	5.5	20.7	11 E	3*	1*
7 10	7 45.57	+27 17.2	2.983	1.982	4.1	20.5	8 E	2*	—
7 20	8 10.67	+26 59.2	2.955	1.950	3.6	20.4	7 E	1*	—
7 30	8 36.23	+26 26.8	2.919	1.919	4.2	20.4	8 W	—	—
8 9	9 2.17	+25 40.1	2.878	1.889	5.5	20.4	10 W	4*	—
8 19	9 28.40	+24 39.1	2.830	1.860	7.2	20.4	13 W	7*	—
8 29	9 54.86	+23 24.6	2.778	1.832	9.0	20.4	16 W	10*	—
9 8	10 21.46	+21 57.3	2.722	1.805	10.8	20.4	20 W	13*	—
9 18	10 48.19	+20 18.1	2.664	1.780	12.6	20.4	23 W	16*	—
9 28	11 14.99	+18 28.6	2.604	1.756	14.4	20.4	26 W	19*	—
10 8	11 41.82	+16 30.4	2.543	1.735	16.1	20.4	29 W	23*	—
10 18	12 8.69	+14 25.3	2.482	1.716	17.7	20.4	32 W	26*	2*
10 28	12 35.56	+12 15.5	2.421	1.698	19.3	20.3	34 W	28*	4*
11 7	13 2.41	+10 3.5	2.362	1.684	20.9	20.3	37 W	31*	6*
11 17	13 29.22	+ 7 51.5	2.303	1.672	22.4	20.3	40 W	34*	8*
11 27	13 55.95	+ 5 42.1	2.246	1.663	23.8	20.3	43 W	36*	11*
12 7	14 22.54	+ 3 37.7	2.190	1.656	25.1	20.3	46 W	37*	15*
12 17	14 48.93	+ 1 40.4	2.134	1.653	26.4	20.2	48 W	38*	20*
12 27	15 15.01	− 0 7.9	2.079	1.652	27.7	20.2	51 W	39*	25*
1 6	15 40.68	− 1 46.0	2.023	1.655	28.8	20.2	54 W	39*	30*
1 16	16 5.81	− 3 12.9	1.967	1.661	30.0	20.2	58 W	38*	35*
				219253 1999 XU_{238}					
12 23	3 28.11	+23 13.6	1.061	1.948	17.0	19.5	145 E	68	41
1 2	3 27.95	+22 33.6	1.161	1.978	20.8	19.8	134 E	68	41
1 12	3 31.49	+22 9.8	1.276	2.009	23.7	20.2	125 E	67	42
1 22	3 38.19	+22 0.5	1.403	2.039	25.6	20.5	116 E	67	42
2 1	3 47.58	+22 2.8	1.538	2.070	26.9	20.7	108 E	67	42*
2 11	3 59.15	+22 13.2	1.679	2.101	27.5	21.0	101 E	67	41*
2 21	4 12.48	+22 28.3	1.824	2.131	27.6	21.2	94 E	67	40*
3 2	4 27.26	+22 45.5	1.972	2.162	27.2	21.4	87 E	67*	39*
				177016 2003 BM_{47}					
12 23	3 28.49	−13 0.7	0.586	1.419	33.3	20.9	128 E	32	77
12 28	3 26.22	−10 4.5	0.646	1.454	33.6	21.2	125 E	35	74
1 2	3 25.49	− 7 25.6	0.708	1.486	34.1	21.4	122 E	38	71
1 7	3 26.05	− 5 1.7	0.773	1.517	34.5	21.7	119 E	40	69
1 12	3 27.67	− 2 50.7	0.840	1.547	34.9	21.9	116 E	42	67
				1747 Wright					
12 23	3 29.62	+29 52.3	1.003	1.897	17.1	15.7	145 E	75	34
12 28	3 26.93	+28 10.1	1.035	1.896	19.5	15.8	140 E	73	36
1 2	3 25.51	+26 35.3	1.072	1.896	21.7	15.9	134 E	72	37
1 7	3 25.29	+25 8.8	1.113	1.894	23.7	16.1	129 E	70	39
1 12	3 26.18	+23 51.2	1.158	1.893	25.5	16.2	124 E	69	40
1 22	3 30.90	+21 42.2	1.255	1.890	28.3	16.5	115 E	67	42
2 1	3 38.99	+20 4.7	1.361	1.886	30.2	16.7	106 E	65	44*
2 11	3 49.79	+18 53.1	1.470	1.881	31.3	16.9	98 E	64	44*
2 21	4 2.79	+18 0.7	1.581	1.875	31.8	17.1	91 E	63*	44*
3 2	4 17.60	+17 21.9	1.690	1.868	31.8	17.2	84 E	61*	43*
3 12	4 33.90	+16 51.5	1.797	1.860	31.5	17.3	78 E	58*	42*
3 22	4 51.42	+16 25.2	1.899	1.852	30.8	17.4	72 E	53*	41*
4 1	5 9.99	+15 59.5	1.995	1.843	29.9	17.5	67 E	48*	40*
4 11	5 29.42	+15 31.4	2.085	1.833	28.7	17.5	62 E	42*	39*
4 21	5 49.59	+14 58.5	2.167	1.823	27.5	17.6	57 E	37*	38*
5 1	6 10.38	+14 18.8	2.243	1.811	26.1	17.6	52 E	31*	37*
5 11	6 31.68	+13 30.8	2.310	1.800	24.7	17.6	48 E	25*	36*
5 21	6 53.42	+12 33.3	2.370	1.787	23.2	17.6	44 E	19*	34*
5 31	7 15.52	+11 25.5	2.421	1.774	21.7	17.6	40 E	13*	32*
6 10	7 37.91	+10 6.7	2.466	1.761	20.2	17.5	37 E	7*	30*
6 20	8 0.56	+ 8 36.8	2.502	1.747	18.7	17.5	33 E	3*	27*
6 30	8 23.44	+ 6 55.7	2.532	1.733	17.3	17.5	30 E	—	24*
7 10	8 46.52	+ 5 3.7	2.555	1.719	15.9	17.4	28 E	—	21*
7 20	9 9.82	+ 3 1.2	2.573	1.704	14.5	17.4	25 E	—	18*
7 30	9 33.35	+ 0 49.0	2.584	1.690	13.2	17.3	22 E	—	14*
8 9	9 57.13	− 1 31.7	2.591	1.675	12.0	17.3	20 E	—	11*
8 19	10 21.25	− 3 59.9	2.593	1.661	10.9	17.2	18 E	—	7*
8 29	10 45.74	− 6 34.0	2.591	1.646	10.0	17.1	16 E	—	4*
9 8	11 10.69	− 9 12.0	2.585	1.632	9.2	17.1	15 E	—	1*
9 18	11 36.20	−11 52.0	2.576	1.619	8.5	17.0	14 W	—	2*
9 28	12 2.36	−14 31.5	2.565	1.606	8.2	17.0	13 W	—	3*
10 8	12 29.26	−17 7.8	2.551	1.593	8.0	17.0	13 W	—	5*
10 18	12 57.01	−19 37.9	2.535	1.581	8.2	16.9	13 W	—	6*
10 28	13 25.66	−21 58.8	2.517	1.570	8.7	16.9	14 W	—	7*
11 7	13 55.27	−24 6.9	2.497	1.560	9.4	16.9	15 W	—	9*
11 17	14 25.84	−25 58.9	2.474	1.551	10.3	16.9	16 W	—	10*

1747 Wright *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 27	14 57.29	−27 31.3	2.449	1.543	11.5	16.9	18 W	—	12*
12 7	15 29.49	−28 41.1	2.422	1.536	12.8	17.0	20 W	2*	14*
12 17	16 2.25	−29 25.6	2.392	1.530	14.2	17.0	22 W	3*	16*
12 27	16 35.26	−29 42.7	2.359	1.526	15.8	17.0	25 W	4*	19*
1 6	17 8.22	−29 31.2	2.324	1.523	17.4	17.0	28 W	5*	21*
1 16	17 40.79	−28 50.8	2.285	1.521	19.1	17.0	30 W	6*	24*

467317 2000 QW_7

12 23	3 30.00	+ 8 13.2	0.587	1.484	24.9	20.7	140 E	53	56
1 2	3 37.39	+10 12.3	0.702	1.550	27.6	21.2	133 E	55	54
1 12	3 47.09	+12 1.9	0.828	1.615	29.5	21.7	126 E	57	52
1 22	3 58.65	+13 41.7	0.965	1.679	30.8	22.2	119 E	59	50
2 1	4 11.78	+15 11.5	1.111	1.743	31.5	22.6	112 E	60	49

331785 2003 HL_{15}

12 23	3 30.36	+10 56.3	1.250	2.112	16.8	19.4	142 E	56	53
12 28	3 27.29	+ 9 46.0	1.267	2.087	19.3	19.5	136 E	55	54
1 2	3 25.13	+ 8 42.9	1.290	2.062	21.5	19.6	130 E	54	55
1 7	3 23.91	+ 7 47.4	1.315	2.037	23.6	19.6	124 E	53	56
1 12	3 23.64	+ 6 59.5	1.344	2.012	25.4	19.7	119 E	52	57
1 22	3 25.88	+ 5 45.4	1.408	1.963	28.3	19.9	109 E	51	58
2 1	3 31.62	+ 4 57.1	1.476	1.914	30.4	20.0	100 E	50	58*
2 11	3 40.53	+ 4 29.4	1.544	1.867	31.9	20.1	92 E	49	57*
2 21	3 52.26	+ 4 16.9	1.610	1.821	32.8	20.1	85 E	49*	55*
3 2	4 6.52	+ 4 14.9	1.670	1.777	33.2	20.2	79 E	48*	53*
3 12	4 23.04	+ 4 18.7	1.725	1.734	33.4	20.2	74 E	45*	51*
3 22	4 41.61	+ 4 24.6	1.774	1.695	33.3	20.2	69 E	42*	50*
4 1	5 2.07	+ 4 29.1	1.816	1.658	33.0	20.2	65 E	38*	48*
4 11	5 24.26	+ 4 29.2	1.852	1.625	32.7	20.2	61 E	33*	47*
4 21	5 48.05	+ 4 22.3	1.883	1.595	32.3	20.2	58 E	29*	46*
5 1	6 13.30	+ 4 6.1	1.910	1.569	31.8	20.1	55 E	24*	45*
5 11	6 39.87	+ 3 38.9	1.935	1.548	31.3	20.1	53 E	19*	44*
5 21	7 7.59	+ 2 59.5	1.959	1.532	30.7	20.1	51 E	14*	43*
5 31	7 36.29	+ 2 7.3	1.984	1.522	30.1	20.1	49 E	10*	42*
6 10	8 5.75	+ 1 2.3	2.011	1.517	29.4	20.1	47 E	6*	41*
6 20	8 35.78	− 0 14.5	2.042	1.517	28.6	20.1	46 E	2*	40*
6 30	9 6.14	− 1 41.9	2.079	1.523	27.7	20.1	44 E	—	38*
7 10	9 36.63	− 3 17.7	2.122	1.534	26.6	20.2	42 E	—	36*
7 20	10 7.04	− 4 59.5	2.171	1.550	25.3	20.2	41 E	—	34*
7 30	10 37.24	− 6 44.8	2.228	1.572	23.9	20.2	39 E	—	32*
8 9	11 7.05	− 8 30.8	2.291	1.597	22.3	20.3	37 E	—	29*
8 19	11 36.41	−10 15.1	2.360	1.627	20.5	20.3	34 E	—	27*
8 29	12 5.25	−11 55.5	2.433	1.661	18.7	20.4	32 E	—	24*
9 8	12 33.52	−13 30.0	2.509	1.698	16.6	20.4	29 E	—	22*
9 18	13 1.21	−14 57.2	2.588	1.738	14.5	20.5	26 E	—	19*
9 28	13 28.32	−16 15.7	2.666	1.781	12.3	20.5	22 E	—	16*
10 8	13 54.84	−17 24.6	2.743	1.825	10.1	20.5	19 E	—	12*
10 18	14 20.78	−18 23.0	2.817	1.871	7.8	20.6	15 E	—	9*
10 28	14 46.13	−19 10.3	2.886	1.918	5.5	20.6	11 E	—	5*
11 7	15 10.86	−19 46.1	2.949	1.967	3.1	20.5	6 E	—	—
11 17	15 34.98	−20 10.2	3.004	2.016	0.8	20.4	2 E	—	—
11 27	15 58.42	−20 22.3	3.050	2.066	1.5	20.6	3 W	—	—
12 7	16 21.14	−20 22.4	3.087	2.116	3.8	20.8	8 W	1*	—
12 17	16 43.10	−20 10.7	3.112	2.167	6.0	21.0	13 W	5*	4*
12 27	17 4.22	−19 47.4	3.125	2.217	8.2	21.2	19 W	8*	9*
1 6	17 24.43	−19 12.8	3.127	2.267	10.3	21.3	24 W	12*	14*
1 16	17 43.68	−18 27.6	3.116	2.317	12.3	21.4	30 W	14*	20*

193948 2001 RQ_{47}

12 23	3 30.44	+48 41.7	2.118	2.947	12.2	20.8	141 E	86	15
12 28	3 25.55	+48 10.0	2.152	2.948	13.2	20.9	137 E	87	16
1 2	3 21.66	+47 36.1	2.192	2.948	14.2	21.0	133 E	87	16
1 7	3 18.81	+47 1.3	2.237	2.948	15.2	21.0	128 E	88	17
1 12	3 16.96	+46 26.7	2.286	2.948	16.1	21.1	124 E	89	18
1 17	3 16.09	+45 53.0	2.339	2.948	16.9	21.2	119 E	89	18
1 22	3 16.14	+45 20.9	2.395	2.947	17.6	21.3	115 E	90	19*
1 27	3 17.07	+44 50.9	2.453	2.946	18.2	21.3	111 E	90	19*
2 1	3 18.82	+44 23.2	2.514	2.945	18.7	21.4	106 E	89	19*
2 6	3 21.32	+43 58.2	2.576	2.944	19.1	21.5	102 E	89	19*

132720 2002 PK_1

12 23	3 31.30	+16 50.1	1.247	2.123	15.8	18.8	144 E	62	47
1 2	3 30.65	+16 45.7	1.366	2.165	19.2	19.1	134 E	62	47
1 12	3 33.19	+16 54.7	1.500	2.207	21.6	19.5	124 E	62	47
1 22	3 38.53	+17 14.4	1.646	2.250	23.3	19.7	115 E	62	47
2 1	3 46.26	+17 42.0	1.802	2.292	24.3	20.0	107 E	63	46*
2 11	3 56.00	+18 14.6	1.963	2.335	24.7	20.2	99 E	63	45*
2 21	4 7.35	+18 49.6	2.129	2.377	24.6	20.5	92 E	64	43*
3 2	4 20.05	+19 24.7	2.296	2.419	24.1	20.6	85 E	63*	41*
3 12	4 33.82	+19 58.0	2.463	2.460	23.3	20.8	78 E	60*	39*
3 22	4 48.45	+20 28.2	2.628	2.502	22.2	21.0	72 E	56*	37*

132720 2002 PK_1 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 1	5 3.77	+20 53.9	2.790	2.543	20.9	21.1	65 E	51*	35*
4 11	5 19.60	+21 14.2	2.946	2.583	19.5	21.2	59 E	45*	33*
4 21	5 35.82	+21 28.4	3.096	2.622	17.9	21.3	53 E	39*	31*
5 1	5 52.30	+21 36.1	3.238	2.662	16.2	21.4	47 E	32*	29*
5 11	6 8.93	+21 37.0	3.371	2.700	14.4	21.4	42 E	26*	26*
5 21	6 25.62	+21 30.8	3.493	2.738	12.5	21.4	36 E	20*	23*
5 31	6 42.29	+21 17.8	3.605	2.775	10.6	21.5	30 E	14*	20*
6 10	6 58.85	+20 57.9	3.704	2.811	8.6	21.5	24 E	8*	16*
6 20	7 15.24	+20 31.4	3.790	2.847	6.6	21.5	19 E	3*	12*
6 30	7 31.41	+19 58.8	3.863	2.882	4.6	21.4	13 E	—	7*
7 10	7 47.27	+19 20.4	3.921	2.916	2.6	21.4	7 E	—	1*
7 20	8 2.81	+18 36.8	3.965	2.950	0.8	21.3	2 E	—	—
7 30	8 17.96	+17 48.5	3.993	2.982	1.6	21.4	5 W	—	—

306413 1997 GF_{22}

12 23	3 31.41	+22 3.8	1.708	2.577	12.6	21.3	145 E	67	42
1 2	3 26.13	+21 43.1	1.826	2.605	15.8	21.5	134 E	67	42
1 12	3 24.12	+21 32.2	1.962	2.632	18.2	21.8	123 E	67	42
1 22	3 25.13	+21 31.3	2.111	2.657	19.9	22.0	113 E	67	42
2 1	3 28.82	+21 39.6	2.268	2.681	20.9	22.2	104 E	67	42*

308108 2004 XB

12 23	3 31.53	+33 51.4	0.898	1.797	18.1	18.9	146 E	79	30
12 28	3 30.26	+32 36.0	0.931	1.803	20.2	19.0	141 E	78	31
1 2	3 30.24	+31 25.5	0.969	1.809	22.2	19.2	136 E	76	33
1 7	3 31.41	+30 21.0	1.011	1.815	24.1	19.3	131 E	75	34
1 12	3 33.66	+29 22.9	1.056	1.822	25.7	19.5	127 E	74	35
1 17	3 36.90	+28 31.4	1.103	1.828	27.1	19.6	122 E	74	35
1 22	3 41.02	+27 46.0	1.154	1.834	28.3	19.8	118 E	73	36
1 27	3 45.94	+27 6.5	1.206	1.840	29.3	19.9	114 E	72	37
2 1	3 51.59	+26 32.4	1.261	1.847	30.1	20.0	110 E	72	37*
2 11	4 4.73	+25 37.7	1.374	1.859	31.2	20.3	103 E	71	38*
2 21	4 19.88	+24 56.7	1.491	1.871	31.7	20.5	96 E	70	38*
3 2	4 36.64	+24 24.6	1.610	1.883	31.8	20.7	89 E	69*	38*
3 12	4 54.66	+23 57.2	1.730	1.895	31.4	20.8	84 E	66*	37*
3 22	5 13.66	+23 31.0	1.849	1.906	30.7	21.0	78 E	62*	37*
4 1	5 33.43	+23 2.9	1.966	1.917	29.8	21.1	72 E	57*	37*
4 11	5 53.76	+22 30.8	2.079	1.928	28.6	21.2	67 E	51*	36*
4 21	6 14.49	+21 52.9	2.189	1.938	27.3	21.3	62 E	46*	36*
5 1	6 35.48	+21 7.8	2.295	1.948	25.9	21.3	57 E	40*	35*
5 11	6 56.62	+20 14.7	2.395	1.957	24.3	21.4	53 E	33*	34*
5 21	7 17.79	+19 13.0	2.489	1.966	22.6	21.4	48 E	27*	33*
5 31	7 38.93	+18 2.4	2.576	1.974	20.8	21.5	44 E	21*	32*
6 10	7 59.95	+16 43.0	2.657	1.982	19.0	21.5	40 E	16*	30*
6 20	8 20.82	+15 14.9	2.731	1.989	17.2	21.5	35 E	11*	27*
6 30	8 41.51	+13 38.3	2.796	1.995	15.2	21.5	31 E	6*	24*
7 10	9 1.98	+11 53.9	2.854	2.001	13.3	21.5	27 E	2*	21*
7 20	9 22.26	+10 2.1	2.904	2.006	11.3	21.4	23 E	—	17*
7 30	9 42.35	+ 8 3.6	2.944	2.011	9.4	21.4	19 E	—	13*
8 9	10 2.25	+ 5 59.0	2.977	2.015	7.5	21.3	15 E	—	9*
8 19	10 22.00	+ 3 49.1	3.000	2.018	5.7	21.3	11 E	—	4*
8 29	10 41.64	+ 1 34.6	3.014	2.020	4.1	21.2	8 E	—	—
9 8	11 1.20	− 0 43.6	3.019	2.022	3.3	21.2	7 W	—	—
9 18	11 20.73	− 3 4.7	3.015	2.023	3.7	21.2	7 W	—	1*
9 28	11 40.27	− 5 27.9	3.002	2.023	5.0	21.2	10 W	—	4*
10 8	11 59.88	− 7 52.1	2.979	2.022	6.8	21.3	14 W	2*	7*
10 18	12 19.60	−10 16.5	2.947	2.021	8.7	21.4	18 W	6*	10*
10 28	12 39.48	−12 40.0	2.906	2.019	10.6	21.4	22 W	9*	14*
11 7	12 59.55	−15 1.7	2.856	2.017	12.6	21.5	26 W	12*	17*
11 17	13 19.87	−17 20.5	2.797	2.014	14.6	21.5	31 W	15*	21*
11 27	13 40.44	−19 35.2	2.730	2.010	16.5	21.5	35 W	16*	26*
12 7	14 1.28	−21 44.9	2.656	2.005	18.5	21.5	40 W	17*	30*
12 17	14 22.41	−23 48.4	2.573	2.000	20.3	21.5	45 W	17*	36*
12 27	14 43.78	−25 44.6	2.484	1.994	22.1	21.4	50 W	17*	41*
1 6	15 5.35	−27 32.7	2.388	1.987	23.8	21.4	55 W	16*	47*
1 16	15 27.06	−29 11.7	2.287	1.980	25.4	21.3	60 W	15*	53*

34755 2001 QW_{120}

12 23	3 32.99	−25 1.0	0.850	1.586	32.7	16.3	120 E	20	89
12 28	3 34.66	−22 53.5	0.874	1.593	33.0	16.4	118 E	22	87
1 2	3 37.18	−20 38.9	0.900	1.601	33.4	16.5	116 E	24	85
1 7	3 40.53	−18 19.2	0.928	1.610	33.7	16.6	115 E	27	82
1 12	3 44.65	−15 56.5	0.959	1.620	34.0	16.7	113 E	29	80
1 17	3 49.50	−13 32.7	0.993	1.631	34.2	16.8	111 E	31	78
1 22	3 55.02	−11 9.2	1.030	1.642	34.4	16.9	109 E	34	75
1 27	4 1.17	− 8 47.4	1.069	1.654	34.6	17.0	107 E	36	73
2 1	4 7.91	− 6 28.7	1.111	1.667	34.8	17.1	105 E	39	70
2 6	4 15.18	− 4 14.1	1.155	1.681	34.8	17.2	103 E	41	68*
2 11	4 22.94	− 2 4.4	1.202	1.695	34.9	17.3	101 E	43	66*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		34755 2001 QW_{120}				*(continuation)*			
	h m	° ′			°	m	°	°	°
2 21	4 39.72	+ 1 57.8	1.303	1.724	34.7	17.5	97 E	47	61*
3 2	4 57.96	+ 5 34.2	1.413	1.756	34.3	17.7	92 E	51	57*
3 12	5 17.38	+ 8 43.2	1.531	1.790	33.7	17.9	88 E	53*	54*
3 22	5 37.71	+11 24.3	1.654	1.825	32.8	18.1	83 E	54*	50*
4 1	5 58.73	+13 38.3	1.783	1.861	31.7	18.3	78 E	53*	48*
4 11	6 20.25	+15 26.1	1.915	1.898	30.5	18.4	74 E	50*	45*
4 21	6 42.05	+16 49.6	2.050	1.936	29.0	18.6	69 E	47*	43*
5 1	7 3.98	+17 50.3	2.185	1.974	27.4	18.7	65 E	42*	41*
5 11	7 25.90	+18 30.4	2.319	2.013	25.7	18.8	60 E	37*	39*
5 21	7 47.67	+18 51.6	2.452	2.052	23.9	18.9	55 E	32*	38*
5 31	8 9.21	+18 56.1	2.581	2.091	22.0	19.0	51 E	27*	36*
6 10	8 30.42	+18 45.7	2.706	2.129	20.1	19.1	46 E	23*	33*
6 20	8 51.26	+18 22.3	2.825	2.168	18.0	19.2	41 E	18*	30*
6 30	9 11.70	+17 47.6	2.938	2.207	16.0	19.2	37 E	14*	27*
7 10	9 31.69	+17 3.4	3.043	2.245	13.8	19.3	32 E	11*	23*
7 20	9 51.26	+16 11.2	3.139	2.282	11.7	19.3	27 E	9*	19*
7 30	10 10.40	+15 12.6	3.225	2.319	9.6	19.3	22 E	6*	15*
8 9	10 29.11	+14 9.0	3.302	2.356	7.5	19.3	18 E	5*	10*
8 19	10 47.43	+13 1.7	3.367	2.392	5.5	19.3	13 E	3*	6*
8 29	11 5.37	+11 52.0	3.420	2.427	3.7	19.2	9 E	2*	1*
9 8	11 22.94	+10 41.2	3.460	2.461	2.6	19.2	6 E	—	—
9 18	11 40.17	+ 9 30.6	3.487	2.495	3.1	19.3	8 W	—	—
9 28	11 57.05	+ 8 21.2	3.501	2.528	4.6	19.4	12 W	5*	—
10 8	12 13.60	+ 7 14.4	3.501	2.560	6.4	19.6	17 W	11*	—
10 18	12 29.82	+ 6 11.2	3.487	2.591	8.3	19.7	22 W	16*	1*
10 28	12 45.67	+ 5 13.0	3.459	2.621	10.2	19.7	28 W	22*	4*
11 7	13 1.13	+ 4 20.8	3.417	2.651	12.0	19.8	34 W	27*	9*
11 17	13 16.16	+ 3 36.0	3.362	2.679	13.7	19.9	40 W	32*	13*
11 27	13 30.68	+ 2 59.8	3.293	2.706	15.3	19.9	46 W	37*	18*
12 7	13 44.61	+ 2 33.5	3.213	2.733	16.7	19.9	53 W	41*	24*
12 17	13 57.85	+ 2 18.3	3.123	2.759	17.9	19.9	60 W	44*	30*
12 27	14 10.24	+ 2 15.5	3.022	2.783	18.9	19.9	67 W	46*	37*
1 6	14 21.64	+ 2 26.3	2.915	2.807	19.7	19.9	74 W	47*	44*
1 16	14 31.85	+ 2 51.8	2.802	2.829	20.1	19.8	82 W	48	50*
		5620 Jasonwheeler							
12 23	3 33.21	+ 8 39.3	1.845	2.685	13.2	21.2	141 E	54	55
1 2	3 28.11	+ 9 4.4	1.973	2.717	16.0	21.5	131 E	54	55
1 12	3 25.91	+ 9 40.0	2.117	2.747	18.0	21.8	120 E	55	54
1 22	3 26.40	+10 23.6	2.273	2.776	19.4	22.0	111 E	55	54
2 1	3 29.33	+11 13.1	2.437	2.804	20.1	22.2	101 E	56	52*
		197564 2004 GG_2							
12 23	3 34.25	+17 39.7	1.376	2.253	14.5	19.6	145 E	63	46
1 2	3 31.67	+16 3.8	1.497	2.289	18.1	19.9	134 E	61	48
1 12	3 32.37	+14 55.4	1.634	2.325	20.7	20.2	123 E	60	49
1 22	3 35.92	+14 10.7	1.784	2.361	22.4	20.5	114 E	59	50
2 1	3 41.93	+13 45.3	1.943	2.396	23.4	20.7	105 E	59	50*
2 11	3 49.96	+13 34.3	2.106	2.430	23.8	21.0	97 E	59	49*
2 21	3 59.66	+13 33.4	2.272	2.463	23.7	21.2	89 E	59*	48*
3 2	4 10.72	+13 39.1	2.437	2.496	23.1	21.3	82 E	57*	46*
3 12	4 22.90	+13 48.3	2.599	2.528	22.3	21.5	75 E	54*	43*
		338347 2002 XG_4							
12 23	3 34.48	+19 1.8	0.463	1.390	23.7	18.4	145 E	64	45
12 28	3 32.47	+15 9.4	0.460	1.364	28.4	18.4	139 E	60	49
1 2	3 32.05	+11 24.0	0.462	1.339	32.9	18.5	132 E	56	53
1 7	3 33.24	+ 7 51.2	0.468	1.315	37.1	18.6	126 E	53	56
1 12	3 35.98	+ 4 34.2	0.476	1.293	40.8	18.8	121 E	50	59
1 17	3 40.17	+ 1 34.5	0.486	1.272	44.2	18.9	116 E	47	62
1 22	3 45.73	− 1 7.3	0.498	1.253	47.0	19.0	111 E	44	65
1 27	3 52.57	− 3 32.1	0.511	1.236	49.5	19.0	107 E	41	68
2 1	4 0.60	− 5 40.9	0.524	1.221	51.6	19.1	104 E	39	70
2 6	4 9.71	− 7 35.5	0.537	1.208	53.3	19.2	101 E	37	72*
2 11	4 19.83	− 9 17.3	0.550	1.197	54.6	19.3	98 E	36	73*
2 16	4 30.86	−10 47.7	0.563	1.189	55.7	19.4	96 E	34	74*
2 21	4 42.78	−12 7.7	0.576	1.183	56.4	19.4	95 E	33	75*
2 26	4 55.55	−13 18.5	0.588	1.180	56.9	19.5	93 E	32	76*
3 2	5 9.13	−14 20.8	0.599	1.179	57.2	19.5	92 E	31	77*
3 7	5 23.51	−15 15.4	0.611	1.180	57.2	19.6	92 E	30*	78*
3 12	5 38.63	−16 2.9	0.622	1.184	57.0	19.6	91 E	29*	79*
3 17	5 54.47	−16 43.5	0.633	1.191	56.6	19.6	91 E	28*	79*
3 22	6 11.02	−17 17.3	0.644	1.200	56.1	19.7	91 E	27*	80*
3 27	6 28.25	−17 44.8	0.656	1.212	55.4	19.7	92 E	27*	81*
4 1	6 46.10	−18 6.1	0.669	1.225	54.6	19.8	92 E	26*	81*
4 6	7 4.51	−18 21.7	0.683	1.241	53.6	19.8	93 E	25*	82*
4 11	7 23.37	−18 31.8	0.699	1.259	52.6	19.9	94 E	25*	82*
4 16	7 42.58	−18 36.6	0.717	1.278	51.5	19.9	94 E	24*	83*
4 21	8 2.04	−18 36.7	0.737	1.299	50.4	20.0	95 E	24*	83
4 26	8 21.62	−18 32.7	0.760	1.322	49.2	20.0	96 E	24*	83
5 1	8 41.21	−18 25.5	0.786	1.346	48.1	20.1	96 E	23*	82
5 6	9 0.65	−18 15.9	0.815	1.371	46.9	20.2	97 E	23*	82

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		338347 2002 XG_4				*(continuation)*			
	h m	° ′			°	m	°	°	°
5 11	9 19.84	−18 4.6	0.847	1.397	45.8	20.3	97 E	22*	82
5 16	9 38.66	−17 52.3	0.883	1.424	44.8	20.4	97 E	22*	82
5 21	9 57.04	−17 39.9	0.923	1.452	43.7	20.5	97 E	22*	82
5 26	10 14.94	−17 28.1	0.966	1.481	42.8	20.6	97 E	21*	81
5 31	10 32.30	−17 17.5	1.013	1.510	41.8	20.8	96 E	20*	81
6 5	10 49.09	−17 8.5	1.063	1.540	41.0	20.9	96 E	20*	81
6 10	11 5.30	−17 1.5	1.117	1.570	40.1	21.0	95 E	19*	81
6 15	11 20.95	−16 56.5	1.174	1.601	39.3	21.1	94 E	18*	81
6 20	11 36.06	−16 53.7	1.234	1.632	38.5	21.3	92 E	18*	81
6 25	11 50.66	−16 53.1	1.297	1.663	37.7	21.4	91 E	17*	81*
		326769 2003 SE_{192}							
12 23	3 34.91	+24 10.8	1.549	2.430	13.0	20.4	146 E	69	40
1 2	3 30.35	+23 26.6	1.662	2.458	16.4	20.7	135 E	68	41
1 12	3 29.22	+22 54.8	1.792	2.486	19.0	21.0	125 E	68	41
1 22	3 31.21	+22 35.6	1.935	2.512	20.8	21.3	115 E	68	41
2 1	3 35.94	+22 28.1	2.087	2.538	21.9	21.5	106 E	67	41*
		3102 Krok							
12 23	3 36.57	+ 3 54.1	1.075	1.934	19.2	18.7	140 E	49	60
12 28	3 35.50	+ 4 25.1	1.139	1.962	20.7	18.9	135 E	49	60
1 2	3 35.33	+ 4 59.2	1.206	1.990	22.1	19.1	130 E	50	59
1 7	3 36.02	+ 5 35.7	1.277	2.018	23.2	19.3	126 E	51	58
1 12	3 37.49	+ 6 14.0	1.350	2.046	24.1	19.4	122 E	51	58
1 22	3 42.50	+ 7 33.3	1.505	2.100	25.5	19.8	113 E	53	56
2 1	3 49.90	+ 8 53.7	1.668	2.154	26.1	20.1	106 E	54	55*
2 11	3 59.24	+10 12.3	1.836	2.206	26.3	20.3	98 E	55	53*
2 21	4 10.16	+11 27.1	2.008	2.256	26.0	20.6	91 E	56	50*
3 2	4 22.36	+12 36.8	2.181	2.305	25.3	20.8	84 E	57*	48*
3 12	4 35.58	+13 40.3	2.353	2.353	24.4	21.0	78 E	55*	45*
3 22	4 49.63	+14 36.7	2.523	2.400	23.2	21.1	71 E	51*	42*
4 1	5 4.34	+15 25.5	2.688	2.445	21.8	21.2	65 E	47*	40*
4 11	5 19.56	+16 6.3	2.848	2.488	20.2	21.4	59 E	41*	37*
4 21	5 35.16	+16 38.8	3.000	2.530	18.6	21.5	53 E	35*	35*
		354101 2001 YF_1							
12 23	3 37.07	+36 35.0	0.806	1.712	18.7	20.9	146 E	82	27
12 28	3 30.34	+34 28.2	0.815	1.694	21.6	20.9	141 E	79	30
1 2	3 25.41	+32 22.6	0.829	1.674	24.6	21.1	135 E	77	32
1 7	3 22.24	+30 21.8	0.847	1.654	27.4	21.2	129 E	75	34
1 12	3 20.73	+28 28.2	0.869	1.634	30.1	21.3	124 E	73	36
1 17	3 20.75	+26 43.2	0.893	1.613	32.5	21.4	118 E	72	37
1 22	3 22.17	+25 7.5	0.920	1.591	34.6	21.5	113 E	70	39*
		92383 2000 HE_{75}							
12 23	3 37.62	+30 47.4	1.732	2.613	11.8	19.3	147 E	76	33
12 28	3 33.42	+30 53.1	1.786	2.627	13.5	19.4	141 E	76	33
1 2	3 30.14	+30 58.0	1.845	2.641	15.0	19.6	136 E	76	33
1 7	3 27.77	+31 2.6	1.909	2.654	16.4	19.7	130 E	76	33
1 12	3 26.30	+31 7.6	1.976	2.667	17.5	19.8	125 E	76	33
1 22	3 25.91	+31 19.8	2.122	2.693	19.3	20.1	115 E	76	33
2 1	3 28.65	+31 36.3	2.276	2.718	20.4	20.3	106 E	77	32*
2 11	3 34.08	+31 57.7	2.436	2.742	20.9	20.5	97 E	77	30*
2 21	3 41.79	+32 23.2	2.598	2.765	20.9	20.6	89 E	77*	28*
3 2	3 51.46	+32 52.0	2.759	2.788	20.6	20.7	81 E	72*	26*
3 12	4 2.75	+33 22.9	2.915	2.810	19.9	20.9	74 E	66*	24*
3 22	4 15.42	+33 54.6	3.066	2.830	18.9	21.0	67 E	60*	22*
4 1	4 29.26	+34 25.8	3.209	2.850	17.7	21.0	60 E	53*	20*
4 11	4 44.09	+34 55.6	3.343	2.869	16.4	21.1	54 E	47*	18*
4 21	4 59.73	+35 22.7	3.467	2.887	14.9	21.1	48 E	41*	15*
5 1	5 16.07	+35 46.6	3.578	2.904	13.3	21.2	42 E	35*	13*
5 11	5 32.97	+36 6.4	3.677	2.921	11.7	21.2	36 E	29*	10*
5 21	5 50.30	+36 21.7	3.763	2.936	10.1	21.2	31 E	24*	8*
5 31	6 7.98	+36 32.1	3.834	2.950	8.5	21.2	25 E	19*	4*
6 10	6 25.89	+36 37.3	3.892	2.964	7.0	21.1	21 E	14*	1*
6 20	6 43.93	+36 37.4	3.934	2.977	5.7	21.1	17 E	11*	—
6 30	7 2.03	+36 32.6	3.962	2.988	4.9	21.1	14 E	8*	—
7 10	7 20.08	+36 23.0	3.974	2.999	4.8	21.1	14 E	6*	—
7 20	7 38.02	+36 9.1	3.972	3.009	5.4	21.1	16 W	9*	—
7 30	7 55.77	+35 51.5	3.954	3.018	6.5	21.2	20 W	13*	—
8 9	8 13.25	+35 31.0	3.922	3.026	7.9	21.2	24 W	18*	—
8 19	8 30.42	+35 8.5	3.875	3.033	9.4	21.3	29 W	23*	—
8 29	8 47.19	+34 44.9	3.815	3.039	10.9	21.3	35 W	29*	3*
9 8	9 3.51	+34 21.4	3.741	3.044	12.4	21.3	40 W	34*	5*
9 18	9 19.32	+33 59.4	3.654	3.048	13.8	21.3	46 W	40*	7*
9 28	9 34.53	+33 40.4	3.556	3.052	15.1	21.3	53 W	47*	10*
10 8	9 49.07	+33 26.0	3.447	3.054	16.3	21.3	59 W	53*	12*
10 18	10 2.84	+33 18.0	3.329	3.056	17.3	21.2	66 W	60*	14*
10 28	10 15.71	+33 18.4	3.204	3.056	18.1	21.2	73 W	66*	17*
11 7	10 27.53	+33 29.1	3.073	3.056	18.6	21.1	80 W	73*	19*

92383 2000 *HE_{75}* *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
11 17	10 38.13	+33 52.3	2.939	3.054	18.9	21.0	87 W	78*	22*
11 27	10 47.26	+34 29.7	2.805	3.052	18.8	20.9	95 W	79	24*
12 7	10 54.64	+35 22.8	2.673	3.049	18.4	20.8	103 W	80	26*
12 17	10 59.95	+36 32.3	2.547	3.045	17.5	20.7	111 W	82	27*
12 27	11 2.78	+37 57.5	2.432	3.040	16.3	20.5	120 W	83	26
1 6	11 2.79	+39 35.6	2.330	3.034	14.8	20.4	128 W	85	24
1 16	10 59.62	+41 21.3	2.245	3.027	13.2	20.2	136 W	86	23

306490 1999 *TR_{232}*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 39.58	+15 23.1	1.748	2.618	12.3	20.5	145 E	60	49
1 2	3 34.83	+15 43.4	1.876	2.658	15.3	20.8	134 E	61	48
1 12	3 33.06	+16 11.0	2.022	2.697	17.6	21.1	124 E	61	48
1 22	3 34.06	+16 45.0	2.182	2.735	19.2	21.4	114 E	62	47
2 1	3 37.55	+17 24.0	2.350	2.772	20.1	21.6	105 E	62	46*

137052 Tjelvar

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 41.40	+25 27.6	0.938	1.846	16.4	19.0	148 E	70	39
12 28	3 32.79	+25 7.0	1.011	1.880	19.3	19.3	141 E	70	39
1 2	3 26.38	+24 49.4	1.089	1.911	21.6	19.5	134 E	70	39
1 7	3 21.88	+24 35.6	1.171	1.941	23.4	19.8	128 E	70	39
1 12	3 19.02	+24 25.9	1.257	1.969	24.9	20.0	123 E	69	40
1 17	3 17.57	+24 20.1	1.345	1.996	26.0	20.2	117 E	69	40
1 22	3 17.31	+24 17.9	1.435	2.022	26.8	20.4	112 E	69	40*
1 27	3 18.10	+24 19.1	1.526	2.046	27.4	20.6	107 E	69	39*
2 1	3 19.78	+24 23.3	1.617	2.068	27.7	20.8	103 E	69	39*
2 6	3 22.24	+24 30.1	1.709	2.090	27.8	20.9	98 E	70	38*
2 11	3 25.36	+24 39.1	1.801	2.110	27.8	21.0	94 E	70	37*
2 16	3 29.07	+24 49.9	1.892	2.128	27.7	21.2	90 E	70*	36*
2 21	3 33.29	+25 2.2	1.983	2.146	27.4	21.3	86 E	69*	35*
2 26	3 37.96	+25 15.8	2.071	2.162	26.9	21.4	82 E	68*	33*
3 2	3 43.05	+25 30.4	2.159	2.176	26.4	21.5	78 E	65*	32*

144870 2004 *MA_8*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 42.88	+29 15.2	3.518	4.386	6.8	20.7	148 E	74	35
1 2	3 36.69	+28 52.5	3.583	4.355	8.8	20.9	137 E	74	35
1 12	3 32.26	+28 31.2	3.670	4.324	10.6	21.0	126 E	74	35
1 22	3 29.74	+28 13.5	3.774	4.291	11.9	21.1	116 E	73	36
2 1	3 29.16	+28 0.7	3.890	4.258	12.9	21.2	105 E	73	36*
2 11	3 30.45	+27 53.8	4.012	4.225	13.4	21.2	96 E	73	34*
2 21	3 33.47	+27 52.8	4.137	4.190	13.6	21.3	86 E	72*	32*
3 2	3 38.08	+27 57.5	4.258	4.155	13.5	21.3	77 E	67*	29*
3 12	3 44.10	+28 7.2	4.373	4.119	13.0	21.3	69 E	60*	26*
3 22	3 51.38	+28 21.1	4.479	4.082	12.3	21.3	61 E	52*	23*
4 1	3 59.78	+28 38.3	4.573	4.045	11.3	21.3	53 E	45*	20*
4 11	4 9.15	+28 57.9	4.652	4.006	10.2	21.3	45 E	37*	17*
4 21	4 19.38	+29 19.0	4.715	3.967	8.9	21.3	38 E	30*	14*
5 1	4 30.37	+29 40.9	4.761	3.927	7.5	21.2	31 E	23*	10*
5 11	4 42.00	+30 2.8	4.790	3.887	6.0	21.1	24 E	17*	6*
5 21	4 54.20	+30 24.1	4.799	3.845	4.5	21.0	17 E	11*	2*
5 31	5 6.89	+30 44.2	4.790	3.803	3.1	20.9	12 E	6*	—
6 10	5 19.98	+31 2.7	4.762	3.760	2.2	20.8	8 E	1*	—
6 20	5 33.40	+31 19.2	4.715	3.716	2.5	20.8	9 W	3*	—
6 30	5 47.08	+31 33.6	4.650	3.671	3.8	20.8	14 W	7*	—
7 10	6 0.94	+31 45.5	4.568	3.626	5.4	20.8	20 W	12*	4*
7 20	6 14.91	+31 55.2	4.468	3.579	7.1	20.8	26 W	18*	8*
7 30	6 28.92	+32 2.7	4.352	3.532	8.7	20.8	32 W	24*	11*
8 9	6 42.86	+32 8.2	4.222	3.484	10.4	20.8	38 W	30*	14*
8 19	6 56.67	+32 12.3	4.077	3.435	12.0	20.8	45 W	37*	17*
8 29	7 10.23	+32 15.5	3.920	3.385	13.5	20.7	52 W	44*	19*
9 8	7 23.44	+32 18.7	3.752	3.335	14.9	20.6	58 W	51*	21*
9 18	7 36.18	+32 22.7	3.575	3.283	16.1	20.5	65 W	58*	23*
9 28	7 48.30	+32 28.9	3.390	3.231	17.2	20.4	72 W	64*	25*
10 8	7 59.63	+32 38.6	3.201	3.178	18.0	20.3	80 W	71*	26*
10 18	8 9.99	+32 53.5	3.008	3.124	18.6	20.1	87 W	76*	28*
10 28	8 19.11	+33 15.5	2.815	3.069	18.8	19.9	95 W	78	29*
11 7	8 26.73	+33 46.4	2.624	3.014	18.6	19.7	104 W	79	30*
11 17	8 32.49	+34 27.8	2.440	2.958	18.0	19.5	112 W	79	29*
11 27	8 35.97	+35 21.1	2.264	2.901	16.9	19.3	121 W	80	29
12 7	8 36.77	+36 26.2	2.102	2.843	15.3	19.0	131 W	81	28
12 17	8 34.43	+37 41.3	1.958	2.785	13.1	18.7	140 W	83	26
12 22	8 31.99	+38 21.3	1.893	2.755	11.9	18.6	145 W	83	26
12 27	8 28.68	+39 1.8	1.834	2.725	10.6	18.5	149 W	84	25
1 1	8 24.51	+39 41.7	1.781	2.696	9.4	18.3	153 W	85	24
1 6	8 19.54	+40 20.0	1.735	2.666	8.4	18.2	157 W	85	24
1 11	8 13.84	+40 55.1	1.695	2.636	7.8	18.1	159 W	86	23
1 16	8 7.56	+41 25.9	1.662	2.605	7.7	18.0	159 W	86	23

220921 2005 *GS_{21}*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 42.94	+11 49.8	1.778	2.644	12.3	21.4	145 E	57	52
1 2	3 37.54	+11 55.1	1.878	2.655	15.5	21.6	134 E	57	52
1 12	3 35.03	+12 12.2	1.996	2.665	18.0	21.9	123 E	57	52
1 22	3 35.35	+12 39.6	2.127	2.673	19.8	22.1	113 E	58	51
2 1	3 38.28	+13 15.1	2.266	2.681	20.9	22.2	104 E	58	50*

276620 2003 *UV_{116}*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	3 43.70	+10 22.2	0.997	1.886	17.6	20.3	144 E	55	54
1 2	3 42.52	+10 50.6	1.093	1.915	21.5	20.6	134 E	56	53
1 12	3 44.96	+11 34.1	1.202	1.944	24.4	21.0	125 E	57	52
1 22	3 50.62	+12 27.7	1.323	1.973	26.4	21.3	117 E	57	52
2 1	3 59.05	+13 27.2	1.452	2.002	27.7	21.6	109 E	58	51

397441 2007 *EH_1*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 44.18	+ 4 36.7	1.377	2.234	15.8	20.0	142 E	50	59
1 2	3 38.33	+ 3 19.9	1.435	2.204	19.9	20.2	130 E	48	61
1 12	3 35.87	+ 2 32.2	1.508	2.173	23.1	20.4	120 E	48	61
1 22	3 36.80	+ 2 10.0	1.591	2.142	25.5	20.5	110 E	47	62
2 1	3 40.94	+ 2 8.5	1.679	2.111	27.2	20.7	102 E	47	62*
2 11	3 47.99	+ 2 22.6	1.768	2.079	28.3	20.8	94 E	47	60*
2 21	3 57.59	+ 2 47.4	1.856	2.048	28.8	20.9	86 E	48*	57*
3 2	4 9.47	+ 3 18.9	1.940	2.017	28.9	20.9	80 E	47*	54*
3 12	4 23.35	+ 3 53.3	2.018	1.986	28.7	21.0	74 E	45*	52*
3 22	4 38.99	+ 4 27.6	2.091	1.956	28.3	21.0	68 E	41*	49*
4 1	4 56.23	+ 4 59.2	2.156	1.926	27.6	21.0	63 E	37*	47*
4 11	5 14.88	+ 5 25.6	2.214	1.897	26.8	21.0	59 E	32*	45*
4 21	5 34.82	+ 5 44.9	2.266	1.868	25.9	21.0	54 E	27*	43*
5 1	5 55.93	+ 5 55.3	2.310	1.841	25.0	21.0	50 E	22*	41*
5 11	6 18.07	+ 5 55.3	2.349	1.815	24.0	21.0	47 E	17*	39*
5 21	6 41.14	+ 5 43.7	2.382	1.790	22.9	20.9	44 E	12*	36*
5 31	7 5.02	+ 5 19.6	2.411	1.767	21.9	20.9	40 E	7*	34*
6 10	7 29.60	+ 4 42.6	2.436	1.745	20.8	20.9	38 E	2*	32*
6 20	7 54.77	+ 3 52.5	2.458	1.726	19.7	20.8	35 E	—	29*
6 30	8 20.44	+ 2 49.6	2.478	1.708	18.6	20.8	32 E	—	26*
7 10	8 46.48	+ 1 34.6	2.497	1.693	17.4	20.7	30 E	—	23*
7 20	9 12.83	+ 0 8.6	2.515	1.680	16.2	20.7	27 E	—	20*
7 30	9 39.42	− 1 26.8	2.533	1.670	14.9	20.7	25 E	—	17*
8 9	10 6.17	− 3 10.0	2.551	1.662	13.6	20.6	23 E	—	14*
8 19	10 33.05	− 4 58.7	2.569	1.657	12.2	20.6	20 E	—	11*
8 29	11 0.03	− 6 50.8	2.588	1.655	10.8	20.5	18 E	—	8*
9 8	11 27.08	− 8 43.9	2.606	1.656	9.2	20.5	15 E	—	5*
9 18	11 54.21	−10 35.6	2.625	1.660	7.7	20.4	13 E	—	2*
9 28	12 21.39	−12 23.6	2.642	1.666	6.2	20.4	10 E	—	—
10 8	12 48.62	−14 5.5	2.658	1.675	5.0	20.4	8 W	—	—
10 18	13 15.89	−15 39.2	2.671	1.687	4.2	20.3	7 W	—	—
10 28	13 43.16	−17 2.6	2.681	1.701	4.4	20.4	8 W	—	2*
11 7	14 10.39	−18 14.0	2.688	1.718	5.4	20.5	9 W	—	3*
11 17	14 37.53	−19 11.8	2.689	1.737	7.0	20.6	12 W	2*	5*
11 27	15 4.47	−19 54.6	2.686	1.757	8.8	20.7	16 W	5*	7*
12 7	15 31.12	−20 21.4	2.676	1.780	10.7	20.8	20 W	8*	10*
12 17	15 57.37	−20 31.5	2.661	1.804	12.7	20.9	24 W	11*	14*
12 27	16 23.06	−20 24.5	2.638	1.830	14.6	20.9	28 W	13*	18*
1 6	16 48.07	−20 0.2	2.608	1.856	16.6	21.0	33 W	15*	22*
1 16	17 12.25	−19 18.9	2.571	1.884	18.4	21.1	37 W	17*	27*

101818 1999 *JD_{13}*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 44.55	+15 35.6	1.807	2.684	11.6	20.7	147 E	61	48
1 2	3 39.05	+15 15.0	1.909	2.697	14.9	21.0	135 E	60	49
1 12	3 36.47	+15 6.8	2.030	2.710	17.4	21.2	124 E	60	49
1 22	3 36.70	+15 10.2	2.164	2.721	19.2	21.4	114 E	60	49
2 1	3 39.54	+15 23.6	2.307	2.731	20.4	21.6	105 E	60	48*

405397 2004 *LB_{12}*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 45.07	+17 24.7	1.032	1.934	15.9	21.1	147 E	62	47
1 2	3 40.83	+17 24.3	1.131	1.963	20.3	21.4	136 E	62	47
1 12	3 40.77	+17 37.5	1.246	1.990	23.5	21.8	126 E	63	46
1 22	3 44.39	+18 1.8	1.371	2.016	25.8	22.1	117 E	63	46
2 1	3 51.16	+18 34.3	1.505	2.042	27.3	22.4	108 E	64	45*

436063 2009 *RG_{70}*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 45.21	+32 1.0	1.422	2.319	12.8	20.7	149 E	77	32
12 28	3 42.07	+31 31.7	1.469	2.332	14.6	20.9	143 E	77	32
1 2	3 39.91	+31 3.7	1.521	2.346	16.3	21.0	138 E	76	33
1 7	3 38.73	+30 37.7	1.578	2.359	17.8	21.2	133 E	76	33
1 12	3 38.49	+30 14.2	1.639	2.372	19.1	21.3	128 E	75	34
1 17	3 39.13	+29 53.5	1.703	2.385	20.3	21.5	123 E	75	34

486006 2012 *PD_{19}*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 46.07	+ 7 32.5	1.111	1.990	17.0	19.8	144 E	53	56
12 28	3 44.83	+ 7 35.6	1.164	2.010	18.9	20.0	139 E	53	56
1 2	3 44.46	+ 7 44.0	1.222	2.030	20.5	20.2	134 E	53	56
1 7	3 44.93	+ 7 57.2	1.283	2.050	21.9	20.4	129 E	53	56
1 12	3 46.20	+ 8 14.3	1.348	2.070	23.1	20.5	124 E	53	56
1 17	3 48.21	+ 8 34.6	1.415	2.090	24.0	20.7	120 E	54	55
1 22	3 50.90	+ 8 57.5	1.485	2.109	24.8	20.8	116 E	54	55
1 27	3 54.24	+ 9 22.4	1.557	2.129	25.4	21.0	112 E	54	55
2 1	3 58.15	+ 9 48.8	1.631	2.149	25.9	21.1	108 E	55	54*
2 6	4 2.61	+10 16.2	1.707	2.168	26.2	21.2	104 E	55	54*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
						(continuation)			
	486006 2012 PD_{19}								
	h m	° ′			°	m	°	°	°
2 11	4 7.54	+10 44.1	1.783	2.188	26.3	21.3	100 E	56	53*
2 16	4 12.90	+11 12.1	1.861	2.207	26.4	21.5	97 E	56	52*
	51773 2001 MV								
12 23	3 46.10	+17 34.6	1.162	2.061	14.8	16.9	148 E	63	46
1 2	3 43.66	+15 30.8	1.272	2.097	18.9	17.3	136 E	61	48
1 12	3 44.74	+14 1.7	1.400	2.132	21.9	17.6	126 E	59	50
1 22	3 48.85	+13 2.4	1.540	2.167	24.0	17.9	117 E	58	51
1 27	3 51.91	+12 42.0	1.614	2.184	24.7	18.1	112 E	58	51
2 1	3 55.55	+12 26.7	1.689	2.202	25.2	18.2	108 E	57	52*
2 6	3 59.72	+12 15.8	1.766	2.219	25.6	18.3	104 E	57	52*
2 11	4 4.37	+12 8.4	1.844	2.236	25.8	18.5	100 E	57	51*
2 21	4 14.90	+12 2.0	2.002	2.270	25.8	18.7	92 E	57	50*
3 2	4 26.84	+12 3.2	2.161	2.304	25.4	18.9	85 E	56*	49*
3 12	4 39.92	+12 8.2	2.319	2.337	24.6	19.0	79 E	54*	47*
3 22	4 53.90	+12 14.1	2.474	2.370	23.6	19.2	72 E	50*	45*
4 1	5 8.61	+12 18.7	2.624	2.402	22.4	19.3	66 E	45*	43*
4 11	5 23.89	+12 20.1	2.768	2.433	21.0	19.4	60 E	39*	41*
4 21	5 39.60	+12 17.0	2.905	2.464	19.4	19.5	55 E	33*	39*
5 1	5 55.64	+12 8.3	3.034	2.494	17.8	19.5	49 E	27*	36*
5 11	6 11.90	+11 53.2	3.154	2.523	16.1	19.6	44 E	20*	34*
5 21	6 28.28	+11 31.1	3.264	2.551	14.3	19.6	39 E	13*	30*
5 31	6 44.72	+11 1.8	3.363	2.578	12.5	19.6	33 E	7*	27*
6 10	7 1.12	+10 25.0	3.450	2.605	10.8	19.6	29 E	1*	23*
6 20	7 17.44	+ 9 40.7	3.526	2.631	9.0	19.6	24 E	—	18*
6 30	7 33.63	+ 8 48.8	3.589	2.655	7.5	19.6	20 E	—	13*
7 10	7 49.61	+ 7 49.7	3.640	2.679	6.1	19.6	16 E	—	7*
7 20	8 5.35	+ 6 43.4	3.677	2.702	5.2	19.6	14 E	—	2*
7 30	8 20.81	+ 5 30.4	3.701	2.725	5.0	19.6	14 W	—	3*
8 9	8 35.95	+ 4 10.8	3.711	2.746	5.6	19.7	15 W	—	8*
8 19	8 50.73	+ 2 45.2	3.707	2.766	6.7	19.8	19 W	—	12*
8 29	9 5.10	+ 1 13.9	3.689	2.785	8.1	19.8	23 W	3*	17*
9 8	9 19.03	− 0 22.5	3.658	2.804	9.6	19.9	28 W	9*	21*
9 18	9 32.46	− 2 3.7	3.613	2.821	11.1	19.9	33 W	14*	25*
9 28	9 45.34	− 3 49.2	3.555	2.837	12.6	20.0	38 W	19*	29*
10 8	9 57.60	− 5 38.2	3.485	2.853	14.1	20.0	44 W	23*	34*
10 18	10 9.16	− 7 30.4	3.402	2.867	15.5	20.0	50 W	27*	38*
10 28	10 19.90	− 9 24.9	3.309	2.881	16.7	20.0	56 W	30*	43*
11 7	10 29.71	−11 21.0	3.206	2.893	17.8	20.0	63 W	32*	49*
11 17	10 38.44	−13 17.8	3.095	2.905	18.6	19.9	70 W	31*	56*
11 27	10 45.90	−15 14.1	2.977	2.915	19.2	19.9	77 W	30	63*
12 7	10 51.88	−17 8.5	2.855	2.925	19.6	19.8	84 W	28	71*
12 17	10 56.13	−18 59.0	2.731	2.933	19.6	19.7	92 W	26	79*
12 27	10 58.40	−20 43.0	2.608	2.941	19.2	19.6	100 W	24	85
1 6	10 58.45	−22 17.3	2.489	2.948	18.5	19.5	108 W	23	86
1 16	10 56.08	−23 37.7	2.379	2.953	17.3	19.3	117 W	21	88
	436869 2012 TJ_{14}								
12 23	3 46.80	+21 8.8	1.526	2.421	12.2	21.1	149 E	66	43
1 2	3 41.11	+21 19.0	1.637	2.451	15.8	21.4	137 E	66	43
1 12	3 38.85	+21 34.9	1.766	2.480	18.6	21.7	127 E	67	42
1 22	3 39.80	+21 57.0	1.908	2.509	20.5	21.9	117 E	67	42
2 1	3 43.64	+22 24.6	2.060	2.536	21.8	22.1	107 E	67	41*
	438165 2005 SQ_{280}								
12 23	3 47.15	+ 4 19.0	1.570	2.423	14.4	21.2	142 E	49	60
1 2	3 42.82	+ 4 51.6	1.682	2.452	17.3	21.5	132 E	50	59
1 12	3 41.48	+ 5 37.9	1.810	2.481	19.6	21.7	122 E	51	58
1 22	3 42.95	+ 6 34.0	1.951	2.508	21.1	22.0	113 E	52	57
2 1	3 46.97	+ 7 36.2	2.100	2.535	22.1	22.2	105 E	53	56*
	387814 2004 FK_1								
12 23	3 47.42	− 9 45.0	2.225	2.986	13.9	21.4	133 E	35	74
1 2	3 42.08	− 8 56.8	2.326	2.996	15.7	21.6	125 E	36	73
1 12	3 39.10	− 7 52.7	2.442	3.006	17.1	21.7	116 E	37	72
1 22	3 38.49	− 6 37.4	2.569	3.014	18.2	21.9	107 E	38	71
2 1	3 40.13	− 5 15.3	2.704	3.021	18.8	22.0	99 E	40	69*
	131045 2000 YH_{32}								
12 23	3 48.29	+11 49.0	0.859	1.763	18.1	18.1	146 E	57	52
1 2	3 47.81	+12 46.6	0.946	1.791	22.2	18.5	136 E	58	51
1 12	3 51.14	+13 53.5	1.047	1.821	25.4	18.9	127 E	59	50
1 22	3 57.87	+15 5.4	1.160	1.851	27.6	19.2	119 E	60	49
2 1	4 7.51	+16 18.4	1.281	1.882	29.1	19.5	112 E	61	48
2 11	4 19.57	+17 29.4	1.410	1.914	29.9	19.8	105 E	62	46*
2 21	4 33.59	+18 35.8	1.545	1.946	30.2	20.0	98 E	64	45*
3 2	4 49.20	+19 35.7	1.683	1.979	30.0	20.2	92 E	65*	43*
3 12	5 6.08	+20 27.4	1.823	2.011	29.5	20.4	86 E	64*	42*
3 22	5 23.94	+21 9.7	1.965	2.044	28.7	20.6	80 E	61*	40*
4 1	5 42.58	+21 41.9	2.106	2.076	27.6	20.7	75 E	57*	39*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
						(continuation)			
	131045 2000 YH_{32}								
	h m	° ′			°	m	°	°	°
4 11	6 1.77	+22 3.4	2.246	2.108	26.4	20.9	69 E	52*	37*
4 21	6 21.34	+22 13.8	2.384	2.140	24.9	21.0	64 E	47*	36*
5 1	6 41.14	+22 13.3	2.517	2.172	23.4	21.1	59 E	41*	35*
5 11	7 1.03	+22 1.8	2.646	2.203	21.7	21.2	54 E	35*	33*
5 21	7 20.90	+21 39.9	2.770	2.234	19.9	21.3	49 E	29*	32*
5 31	7 40.67	+21 8.0	2.887	2.264	18.0	21.3	44 E	24*	30*
6 10	8 0.24	+20 26.6	2.996	2.293	16.1	21.4	39 E	18*	27*
6 20	8 19.57	+19 36.6	3.097	2.322	14.1	21.4	34 E	13*	24*
6 30	8 38.60	+18 38.7	3.189	2.349	12.0	21.4	29 E	9*	21*
7 10	8 57.30	+17 33.7	3.271	2.377	10.0	21.4	24 E	6*	17*
7 20	9 15.66	+16 22.5	3.342	2.403	7.9	21.4	19 E	3*	12*
7 30	9 33.66	+15 5.8	3.402	2.428	5.7	21.3	14 E	—	7*
8 9	9 51.29	+13 44.7	3.450	2.453	3.6	21.3	9 E	—	3*
8 19	10 8.57	+12 20.0	3.486	2.477	1.5	21.2	4 E	—	—
8 29	10 25.48	+10 52.4	3.509	2.500	0.8	21.1	2 W	—	—
9 8	10 42.04	+ 9 23.1	3.518	2.522	2.8	21.3	7 W	1*	—
9 18	10 58.23	+ 7 52.6	3.514	2.543	4.9	21.5	13 W	6*	1*
	337096 1998 WE_6								
12 23	3 49.42	+26 14.0	1.050	1.964	14.6	18.9	150 E	71	38
1 2	3 45.49	+26 43.5	1.150	1.999	18.9	19.3	139 E	72	37
1 12	3 45.80	+27 12.2	1.266	2.034	22.1	19.6	129 E	72	37
1 22	3 49.91	+27 41.9	1.395	2.070	24.3	19.9	120 E	73	36
2 1	3 57.30	+28 12.9	1.534	2.106	25.8	20.2	112 E	73	36*
2 11	4 7.41	+28 44.7	1.680	2.141	26.6	20.5	104 E	74	35*
2 21	4 19.72	+29 15.8	1.831	2.177	26.8	20.7	97 E	74	34*
3 2	4 33.83	+29 44.9	1.984	2.212	26.6	20.9	90 E	74*	32*
3 12	4 49.39	+30 10.5	2.138	2.247	26.0	21.1	83 E	71*	31*
3 22	5 6.07	+30 31.4	2.292	2.282	25.2	21.3	77 E	66*	30*
4 1	5 23.65	+30 46.3	2.443	2.316	24.1	21.4	71 E	61*	29*
	3920 Aubignan								
12 23	3 49.65	+ 8 29.0	1.097	1.984	16.6	15.6	145 E	53	56
12 28	3 47.71	+ 9 9.0	1.144	2.000	18.5	15.7	140 E	54	55
1 2	3 46.68	+ 9 51.1	1.196	2.015	20.2	15.9	135 E	55	54
1 7	3 46.56	+10 34.6	1.252	2.031	21.7	16.1	130 E	56	53
1 12	3 47.32	+11 19.1	1.311	2.048	22.9	16.2	126 E	56	53
1 22	3 51.24	+12 49.1	1.438	2.080	24.9	16.5	117 E	58	51
2 1	3 58.05	+14 18.3	1.575	2.112	26.2	16.8	109 E	59	50*
2 11	4 7.31	+15 44.2	1.719	2.144	26.8	17.0	101 E	61	48*
2 21	4 18.59	+17 5.2	1.867	2.176	26.9	17.3	94 E	62	46*
3 2	4 31.55	+18 19.8	2.018	2.208	26.6	17.4	87 E	63*	43*
3 12	4 45.89	+19 27.0	2.169	2.240	26.0	17.6	81 E	61*	41*
3 22	5 1.34	+20 25.9	2.320	2.271	25.0	17.8	75 E	58*	39*
4 1	5 17.71	+21 15.8	2.467	2.301	23.9	17.9	69 E	53*	37*
4 11	5 34.79	+21 56.4	2.611	2.331	22.5	18.0	63 E	48*	35*
4 21	5 52.41	+22 27.2	2.749	2.361	21.0	18.1	57 E	42*	33*
5 1	6 10.45	+22 48.2	2.881	2.390	19.3	18.2	52 E	36*	30*
5 11	6 28.76	+22 59.4	3.006	2.418	17.5	18.2	46 E	30*	28*
5 21	6 47.22	+23 0.9	3.122	2.446	15.7	18.3	41 E	24*	26*
5 31	7 5.75	+22 53.0	3.228	2.472	13.7	18.3	35 E	19*	23*
6 10	7 24.23	+22 36.2	3.325	2.499	11.7	18.3	30 E	14*	20*
6 20	7 42.61	+22 10.8	3.410	2.524	9.7	18.3	25 E	9*	16*
6 30	8 0.82	+21 37.6	3.484	2.548	7.7	18.3	20 E	5*	12*
7 10	8 18.79	+20 57.1	3.545	2.572	5.6	18.3	14 E	2*	7*
7 20	8 36.50	+20 10.2	3.594	2.595	3.5	18.2	9 E	—	2*
7 30	8 53.89	+19 17.6	3.629	2.617	1.5	18.1	4 E	—	—
8 9	9 10.94	+18 20.1	3.650	2.638	1.1	18.1	3 W	—	—
8 19	9 27.62	+17 18.6	3.658	2.658	2.9	18.2	8 W	2*	—
8 29	9 43.92	+16 14.0	3.651	2.678	5.0	18.4	13 W	7*	1*
9 8	9 59.79	+15 7.4	3.629	2.696	7.0	18.5	19 W	12*	4*
9 18	10 15.24	+13 59.6	3.594	2.714	8.9	18.5	25 W	18*	8*
9 28	10 30.22	+12 51.8	3.543	2.730	10.8	18.6	31 W	24*	11*
10 8	10 44.69	+11 45.0	3.480	2.746	12.6	18.6	37 W	29*	15*
10 18	10 58.62	+10 40.4	3.402	2.761	14.3	18.7	43 W	35*	18*
10 28	11 11.92	+ 9 39.4	3.312	2.775	15.8	18.7	50 W	40*	23*
11 7	11 24.54	+ 8 43.3	3.210	2.787	17.2	18.7	56 W	45*	27*
11 17	11 36.36	+ 7 53.4	3.098	2.799	18.4	18.6	63 W	49*	32*
11 27	11 47.25	+ 7 11.5	2.976	2.810	19.4	18.6	71 W	51*	37*
12 7	11 57.07	+ 6 39.1	2.847	2.820	20.0	18.5	78 W	52*	43*
12 17	12 5.61	+ 6 18.0	2.714	2.829	20.3	18.4	86 W	51	49*
12 27	12 12.65	+ 6 10.1	2.578	2.837	20.2	18.3	95 W	51	54*
1 6	12 17.94	+ 6 17.0	2.444	2.844	19.6	18.2	104 W	51	57*
1 16	12 21.21	+ 6 40.1	2.314	2.851	18.5	18.0	113 W	52	57
	118307 1998 VM_1								
12 23	3 49.65	+30 28.3	1.259	2.166	13.2	18.6	150 E	75	34
12 28	3 46.66	+30 17.3	1.308	2.183	15.3	18.7	144 E	75	34
1 2	3 44.70	+30 6.7	1.362	2.200	17.1	18.9	139 E	75	34
1 7	3 43.76	+29 57.1	1.420	2.217	18.7	19.0	134 E	75	34
1 12	3 43.79	+29 49.0	1.481	2.233	20.1	19.2	129 E	75	34

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		118307 1998 VM_1			*(continuation)*				
	h m	° ′			°	m	°	°	°
1 22	3 46.55	+29 38.0	1.615	2.266	22.2	19.5	119 E	75	34
2 1	3 52.49	+29 34.3	1.758	2.299	23.6	19.7	111 E	75	34*
2 11	4 1.10	+29 36.9	1.909	2.332	24.4	20.0	103 E	75	34*
2 21	4 11.89	+29 44.2	2.064	2.363	24.6	20.2	95 E	75	33*
3 2	4 24.47	+29 54.1	2.221	2.395	24.4	20.4	88 E	74*	32*
3 12	4 38.49	+30 4.8	2.377	2.425	23.9	20.5	81 E	70*	30*
3 22	4 53.67	+30 14.5	2.532	2.455	23.0	20.7	74 E	64*	29*
4 1	5 9.79	+30 21.8	2.683	2.484	21.9	20.8	68 E	58*	28*
4 11	5 26.62	+30 25.2	2.828	2.513	20.6	20.9	62 E	52*	26*
4 21	5 44.00	+30 23.9	2.967	2.541	19.1	21.0	56 E	46*	25*
5 1	6 1.79	+30 17.0	3.098	2.568	17.5	21.0	50 E	39*	23*
5 11	6 19.82	+30 4.1	3.220	2.594	15.8	21.1	44 E	33*	22*
5 21	6 38.00	+29 44.8	3.333	2.620	14.0	21.1	39 E	27*	19*
5 31	6 56.22	+29 19.0	3.434	2.644	12.1	21.1	33 E	21*	17*
6 10	7 14.37	+28 46.7	3.525	2.668	10.2	21.1	28 E	16*	14*
6 20	7 32.39	+28 8.1	3.603	2.691	8.3	21.1	22 E	12*	10*
6 30	7 50.21	+27 23.6	3.668	2.713	6.3	21.1	17 E	8*	6*
7 10	8 7.76	+26 33.5	3.719	2.734	4.5	21.0	12 E	4*	2*
7 20	8 25.01	+25 38.5	3.757	2.754	2.9	21.0	8 E	2*	—
7 30	8 41.90	+24 39.0	3.781	2.773	2.3	21.0	6 E	—	—
8 9	8 58.41	+23 35.8	3.789	2.792	3.2	21.0	9 W	3*	—
8 19	9 14.50	+22 29.6	3.784	2.809	4.8	21.1	13 W	7*	—
8 29	9 30.15	+21 21.1	3.763	2.826	6.6	21.2	19 W	13*	2*
9 8	9 45.31	+20 11.3	3.727	2.841	8.5	21.3	24 W	18*	5*
9 18	9 59.97	+19 1.1	3.677	2.856	10.3	21.4	30 W	24*	8*
9 28	10 14.07	+17 51.3	3.612	2.870	12.0	21.4	37 W	30*	12*
10 8	10 27.57	+16 43.2	3.534	2.883	13.6	21.4	43 W	36*	16*
10 18	10 40.41	+15 37.6	3.443	2.894	15.1	21.4	49 W	42*	19*
10 28	10 52.49	+14 36.0	3.339	2.905	16.5	21.4	56 W	47*	24*
11 7	11 3.72	+13 39.6	3.224	2.915	17.7	21.4	63 W	52*	28*
11 17	11 13.98	+12 49.8	3.100	2.924	18.6	21.3	71 W	55*	33*
11 27	11 23.09	+12 8.0	2.969	2.932	19.2	21.3	78 W	57*	38*
12 7	11 30.89	+11 35.8	2.832	2.939	19.5	21.2	86 W	57	43*
12 17	11 37.15	+11 14.8	2.693	2.945	19.4	21.1	95 W	56	48*
12 27	11 41.60	+11 6.5	2.555	2.950	18.9	21.0	104 W	56	52*
1 6	11 43.99	+11 11.8	2.422	2.954	17.8	20.8	113 W	56	53
1 16	11 44.08	+11 31.4	2.298	2.958	16.1	20.6	124 W	57	52
		397241 2006 OE_{13}							
12 23	3 51.26	+ 4 42.2	0.920	1.807	19.0	19.3	143 E	50	59
12 28	3 51.40	+ 5 15.8	0.969	1.829	20.7	19.5	139 E	50	59
1 2	3 52.37	+ 5 53.2	1.022	1.851	22.2	19.7	135 E	51	58
1 7	3 54.12	+ 6 33.5	1.078	1.873	23.5	19.8	131 E	52	57
1 12	3 56.62	+ 7 15.8	1.138	1.896	24.6	20.0	127 E	52	57
1 22	4 3.65	+ 8 43.3	1.266	1.942	26.4	20.3	119 E	54	55
2 1	4 13.07	+10 11.2	1.405	1.990	27.4	20.7	112 E	55	54
2 11	4 24.45	+11 35.9	1.551	2.038	27.9	20.9	105 E	57	52*
2 21	4 37.42	+12 54.7	1.704	2.086	28.0	21.2	98 E	58	51*
3 2	4 51.69	+14 6.1	1.862	2.135	27.6	21.4	92 E	59*	49*
		162082 1998 HL_1							
12 23	3 52.66	−38 7.8	0.374	1.173	51.4	19.0	111 E	7	78
12 28	3 56.82	−36 41.8	0.404	1.187	50.8	19.2	111 E	8	79
1 2	4 1.47	−35 7.0	0.433	1.202	50.3	19.4	110 E	10	81
1 7	4 6.64	−33 25.1	0.463	1.217	49.7	19.5	109 E	12	83
1 12	4 12.32	−31 37.6	0.492	1.231	49.2	19.6	109 E	13	84
1 17	4 18.50	−29 45.5	0.521	1.246	48.7	19.8	108 E	15	86
1 22	4 25.18	−27 49.9	0.550	1.260	48.3	19.9	107 E	17	88
1 27	4 32.37	−25 51.8	0.579	1.274	47.9	20.0	106 E	19	90
2 1	4 40.06	−23 52.2	0.609	1.288	47.5	20.2	105 E	21	88
2 6	4 48.22	−21 52.4	0.639	1.302	47.2	20.3	104 E	23	86
2 11	4 56.82	−19 53.2	0.669	1.315	46.9	20.4	103 E	25	84
2 16	5 5.83	−17 55.4	0.700	1.328	46.6	20.5	102 E	27	82
2 21	5 15.24	−15 59.8	0.731	1.340	46.3	20.6	101 E	29	80
2 26	5 25.04	−14 6.9	0.763	1.352	46.1	20.7	100 E	31	78
3 2	5 35.20	−12 17.7	0.796	1.364	45.9	20.8	99 E	33	76
3 7	5 45.70	−10 32.8	0.830	1.375	45.7	20.9	98 E	34	75*
3 12	5 56.50	− 8 52.7	0.864	1.386	45.5	21.0	96 E	36	73*
3 17	6 7.57	− 7 17.7	0.899	1.396	45.3	21.1	95 E	38*	71*
3 22	6 18.91	− 5 48.3	0.935	1.405	45.1	21.2	93 E	39*	70*
3 27	6 30.49	− 4 24.7	0.971	1.414	44.8	21.3	92 E	40*	68*
4 1	6 42.29	− 3 7.3	1.008	1.423	44.6	21.4	90 E	40*	67*
4 6	6 54.28	− 1 56.2	1.046	1.431	44.4	21.5	89 E	41*	65*
		162433 2000 FK_{10}							
12 23	3 52.90	+38 2.8	0.883	1.798	16.5	21.1	149 E	83	26
12 28	3 45.29	+37 31.6	0.933	1.818	18.9	21.3	143 E	83	26
1 2	3 39.67	+36 59.7	0.986	1.836	21.2	21.5	138 E	82	27
1 7	3 35.91	+36 29.1	1.044	1.854	23.1	21.7	132 E	81	28
1 12	3 33.84	+36 1.2	1.105	1.870	24.8	21.9	127 E	81	28

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		271533 2004 HY_{32}							
	h m	° ′			°	m	°	°	°
12 23	3 52.91	+24 55.4	1.636	2.539	11.0	20.8	150 E	70	39
1 2	3 46.21	+25 0.9	1.742	2.566	14.6	21.1	139 E	70	39
1 12	3 42.89	+25 9.3	1.868	2.592	17.4	21.3	128 E	70	39
1 22	3 42.82	+25 22.5	2.008	2.618	19.4	21.6	118 E	70	39
2 1	3 45.72	+25 40.8	2.159	2.643	20.7	21.8	109 E	71	38*
		26879 Haines							
12 23	3 53.02	+ 7 8.7	1.381	2.258	14.5	17.5	145 E	52	57
1 2	3 48.93	+ 6 19.5	1.502	2.298	17.9	17.8	134 E	51	58
1 12	3 48.05	+ 5 56.6	1.640	2.337	20.4	18.1	124 E	51	58
1 22	3 50.08	+ 5 54.5	1.790	2.376	22.1	18.4	115 E	51	58
2 1	3 54.68	+ 6 7.5	1.948	2.414	23.1	18.7	106 E	51	58*
2 11	4 1.44	+ 6 30.9	2.111	2.451	23.5	18.9	98 E	52	57*
2 21	4 9.99	+ 7 0.4	2.277	2.487	23.4	19.1	90 E	52	55*
3 2	4 20.03	+ 7 33.0	2.442	2.522	23.0	19.2	83 E	52*	52*
3 12	4 31.30	+ 8 5.8	2.604	2.556	22.2	19.4	76 E	49*	49*
3 22	4 43.57	+ 8 36.8	2.763	2.590	21.1	19.5	70 E	46*	47*
4 1	4 56.65	+ 9 4.5	2.915	2.622	19.9	19.6	63 E	41*	44*
4 11	5 10.39	+ 9 27.4	3.060	2.654	18.5	19.7	57 E	35*	41*
4 21	5 24.64	+ 9 44.7	3.196	2.684	17.0	19.8	51 E	29*	38*
5 1	5 39.28	+ 9 55.5	3.323	2.714	15.4	19.8	46 E	22*	35*
5 11	5 54.21	+ 9 59.3	3.438	2.743	13.7	19.9	40 E	15*	31*
5 21	6 9.33	+ 9 55.7	3.542	2.770	12.0	19.9	35 E	9*	28*
5 31	6 24.57	+ 9 44.5	3.634	2.797	10.3	19.9	30 E	3*	23*
6 10	6 39.82	+ 9 25.5	3.712	2.822	8.7	19.9	25 E	—	19*
6 20	6 55.04	+ 8 58.8	3.777	2.846	7.1	19.9	20 E	—	13*
6 30	7 10.15	+ 8 24.3	3.828	2.870	5.9	19.9	17 E	—	8*
7 10	7 25.08	+ 7 42.2	3.864	2.892	5.1	19.9	15 E	—	2*
7 20	7 39.79	+ 6 52.8	3.886	2.913	5.0	19.9	14 W	—	4*
7 30	7 54.22	+ 5 56.4	3.893	2.934	5.6	19.9	16 W	—	9*
8 9	8 8.30	+ 4 53.3	3.885	2.953	6.7	20.0	20 W	—	14*
8 19	8 21.99	+ 3 43.8	3.863	2.971	8.1	20.1	24 W	3*	18*
8 29	8 35.22	+ 2 28.4	3.826	2.988	9.6	20.1	29 W	9*	23*
9 8	8 47.93	+ 1 7.7	3.774	3.004	11.1	20.2	35 W	15*	27*
9 18	9 0.05	− 0 18.0	3.709	3.019	12.5	20.2	41 W	21*	31*
9 28	9 11.49	− 1 48.1	3.630	3.033	13.9	20.2	47 W	26*	35*
10 8	9 22.16	− 3 21.7	3.540	3.046	15.2	20.2	53 W	30*	40*
10 18	9 31.95	− 4 58.3	3.438	3.057	16.3	20.2	60 W	34*	45*
10 28	9 40.71	− 6 37.0	3.327	3.068	17.3	20.2	66 W	36*	50*
11 7	9 48.29	− 8 16.5	3.207	3.078	18.0	20.1	74 W	36*	56*
11 17	9 54.51	− 9 55.7	3.082	3.086	18.4	20.0	81 W	35	63*
11 27	9 59.14	−11 32.7	2.953	3.094	18.6	20.0	89 W	33	70*
12 7	10 2.00	−13 5.4	2.824	3.100	18.4	19.9	97 W	32	76*
12 17	10 2.83	−14 31.1	2.698	3.106	17.8	19.7	105 W	30	79
12 27	10 1.47	−15 46.0	2.578	3.110	16.8	19.6	114 W	29	80
1 6	9 57.83	−16 46.1	2.469	3.113	15.4	19.5	123 W	28	81
1 16	9 51.98	−17 26.9	2.375	3.115	13.7	19.3	131 W	28	81
		368157 1998 RM_{44}							
12 23	3 53.39	+31 50.5	0.959	1.878	15.0	20.3	150 E	77	32
12 28	3 51.57	+31 31.3	1.006	1.898	17.2	20.5	145 E	77	32
1 2	3 50.89	+31 13.0	1.057	1.919	19.1	20.7	140 E	76	33
1 7	3 51.30	+30 56.3	1.112	1.939	20.8	20.9	135 E	76	33
1 12	3 52.73	+30 41.6	1.171	1.960	22.3	21.1	131 E	76	33
1 17	3 55.09	+30 29.0	1.232	1.981	23.6	21.2	126 E	75	34
1 22	3 58.31	+30 18.5	1.297	2.002	24.6	21.4	122 E	75	34
		1131 Porzia							
12 23	3 53.48	+17 35.3	1.094	2.004	14.5	15.4	149 E	63	46
1 2	3 50.04	+17 54.2	1.195	2.038	18.7	15.8	138 E	63	46
1 12	3 50.38	+18 22.0	1.313	2.072	21.8	16.1	128 E	63	46
1 22	3 54.12	+18 56.8	1.443	2.107	24.0	16.4	119 E	64	45
2 1	4 0.84	+19 36.6	1.583	2.141	25.5	16.7	111 E	65	44
2 11	4 10.04	+20 18.9	1.730	2.175	26.3	17.0	103 E	65	43*
2 21	4 21.28	+21 1.4	1.881	2.208	26.5	17.2	96 E	66	42*
3 2	4 34.20	+21 42.4	2.035	2.241	26.2	17.4	89 E	66*	40*
3 12	4 48.48	+22 19.9	2.190	2.273	25.6	17.6	82 E	64*	38*
3 22	5 3.85	+22 52.6	2.343	2.305	24.7	17.7	76 E	60*	37*
4 1	5 20.09	+23 19.3	2.493	2.337	23.6	17.8	69 E	55*	35*
4 11	5 37.00	+23 39.2	2.639	2.367	22.3	17.9	63 E	50*	33*
4 21	5 54.42	+23 51.5	2.779	2.397	20.7	18.0	58 E	44*	32*
5 1	6 12.21	+23 56.0	2.913	2.426	19.1	18.1	52 E	37*	30*
5 11	6 30.24	+23 52.2	3.039	2.455	17.3	18.2	46 E	31*	28*
5 21	6 48.38	+23 40.3	3.156	2.482	15.5	18.2	41 E	25*	25*
5 31	7 6.56	+23 20.2	3.264	2.509	13.6	18.2	36 E	19*	23*
6 10	7 24.68	+22 52.2	3.361	2.535	11.6	18.3	30 E	14*	19*
6 20	7 42.67	+22 16.7	3.446	2.560	9.6	18.3	25 E	9*	16*
6 30	8 0.46	+21 34.0	3.520	2.584	7.5	18.2	19 E	5*	12*
7 10	8 18.01	+20 44.9	3.581	2.607	5.5	18.2	14 E	2*	7*
7 20	8 35.28	+19 49.8	3.629	2.629	3.4	18.1	9 E	—	2*
7 30	8 52.22	+18 49.4	3.663	2.650	1.3	18.0	3 E	—	—
8 9	9 8.82	+17 44.4	3.683	2.670	1.0	18.0	3 W	—	—

1131 Porzia *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 19	9 25.04	+16 35.6	3.689	2.690	3.0	18.2	8 W	1*	—
8 29	9 40.86	+15 23.8	3.680	2.708	5.0	18.3	14 W	7*	2*
9 8	9 56.26	+14 9.9	3.656	2.725	7.0	18.4	19 W	12*	6*
9 18	10 11.22	+12 54.6	3.618	2.742	9.0	18.5	25 W	18*	9*
9 28	10 25.68	+11 38.9	3.565	2.757	10.8	18.5	31 W	24*	13*
10 8	10 39.63	+10 23.8	3.498	2.772	12.6	18.6	37 W	29*	16*
10 18	10 53.01	+ 9 10.3	3.418	2.785	14.3	18.6	44 W	35*	20*
10 28	11 5.73	+ 7 59.6	3.325	2.797	15.9	18.6	50 W	40*	25*
11 7	11 17.73	+ 6 52.8	3.219	2.809	17.2	18.6	57 W	44*	29*
11 17	11 28.90	+ 5 51.3	3.104	2.819	18.4	18.6	64 W	48*	35*
11 27	11 39.09	+ 4 56.3	2.979	2.828	19.3	18.5	72 W	49*	40*
12 7	11 48.15	+ 4 9.5	2.847	2.837	20.0	18.4	79 W	49	46*
12 17	11 55.86	+ 3 32.3	2.710	2.844	20.2	18.3	88 W	49	52*
12 27	12 2.00	+ 3 6.7	2.571	2.850	20.1	18.2	96 W	48	58*
1 6	12 6.31	+ 2 54.1	2.434	2.855	19.4	18.1	105 W	48	61*
1 16	12 8.53	+ 2 56.2	2.302	2.859	18.2	17.9	115 W	48	61

228695 2002 PU_{92}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 53.48	+20 8.9	1.289	2.196	13.0	20.9	150 E	65	44
1 2	3 49.02	+19 48.0	1.399	2.234	16.9	21.3	139 E	65	44
1 12	3 48.15	+19 39.4	1.527	2.271	19.9	21.6	128 E	65	44
1 22	3 50.53	+19 42.1	1.668	2.307	22.0	21.9	119 E	65	44
2 1	3 55.77	+19 54.2	1.820	2.343	23.3	22.2	110 E	65	44*

416286 2003 PR_{11}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 53.56	+36 48.3	0.752	1.674	17.5	18.4	149 E	82	27
12 28	3 56.14	+35 16.0	0.794	1.699	19.0	18.6	146 E	80	29
1 2	3 59.49	+33 50.7	0.840	1.725	20.6	18.8	142 E	79	30
1 7	4 3.56	+32 33.1	0.891	1.751	22.0	19.0	138 E	78	31
1 12	4 8.27	+31 23.1	0.946	1.778	23.4	19.2	134 E	76	33
1 22	4 19.32	+29 25.1	1.068	1.833	25.6	19.6	127 E	74	35
2 1	4 32.17	+27 52.5	1.203	1.890	27.1	20.0	119 E	73	36
2 11	4 46.42	+26 40.2	1.349	1.948	28.0	20.3	112 E	72	37
2 21	5 1.69	+25 42.5	1.505	2.007	28.4	20.7	105 E	71	38*
3 2	5 17.74	+24 54.8	1.669	2.067	28.3	20.9	99 E	70	39*
3 12	5 34.33	+24 12.9	1.838	2.128	27.8	21.2	93 E	69*	39*
3 22	5 51.27	+23 33.9	2.011	2.188	27.0	21.4	86 E	66*	40*

22168 Weissflog

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 54.97	+20 34.9	1.640	2.542	11.0	19.5	150 E	66	43
1 2	3 48.78	+20 5.4	1.739	2.561	14.7	19.8	139 E	65	44
1 12	3 45.79	+19 46.4	1.858	2.580	17.6	20.0	128 E	65	44
1 22	3 45.89	+19 38.4	1.991	2.597	19.6	20.3	118 E	65	44
2 1	3 48.82	+19 40.5	2.135	2.614	21.0	20.5	108 E	65	44*
2 11	3 54.24	+19 50.9	2.285	2.629	21.7	20.6	99 E	65	43*
2 21	4 1.76	+20 7.4	2.437	2.644	22.0	20.8	91 E	65*	42*
3 2	4 11.09	+20 28.1	2.589	2.657	21.7	20.9	83 E	64*	39*
3 12	4 21.92	+20 50.8	2.737	2.669	21.1	21.1	76 E	60*	37*
3 22	4 34.01	+21 13.8	2.881	2.681	20.2	21.1	68 E	55*	35*
4 1	4 47.16	+21 35.4	3.018	2.691	19.1	21.2	62 E	49*	33*
4 11	5 1.19	+21 54.5	3.146	2.700	17.7	21.3	55 E	42*	30*
4 21	5 15.94	+22 9.7	3.264	2.709	16.2	21.3	49 E	36*	28*
5 1	5 31.28	+22 20.3	3.371	2.716	14.5	21.3	43 E	29*	25*
5 11	5 47.09	+22 25.4	3.466	2.722	12.8	21.3	37 E	23*	22*
5 21	6 3.26	+22 24.5	3.549	2.727	10.9	21.3	31 E	16*	19*
5 31	6 19.69	+22 17.2	3.617	2.731	9.0	21.3	25 E	11*	15*
6 10	6 36.30	+22 3.1	3.673	2.734	7.0	21.2	19 E	5*	11*
6 20	6 52.99	+21 42.2	3.713	2.736	5.0	21.2	13 E	1*	7*
6 30	7 9.71	+21 14.4	3.740	2.736	2.9	21.1	8 E	—	2*
7 10	7 26.38	+20 39.8	3.751	2.736	1.0	20.9	3 E	—	—
7 20	7 42.93	+19 58.7	3.748	2.735	1.3	20.9	4 W	—	—
7 30	7 59.32	+19 11.3	3.730	2.732	3.4	21.1	9 W	—	2*
8 9	8 15.48	+18 18.1	3.697	2.729	5.4	21.2	15 W	6*	6*
8 19	8 31.37	+17 19.4	3.650	2.724	7.4	21.2	20 W	11*	9*
8 29	8 46.93	+16 15.9	3.589	2.719	9.4	21.3	26 W	17*	13*
9 8	9 2.11	+15 8.1	3.513	2.712	11.4	21.3	32 W	22*	16*
9 18	9 16.87	+13 56.8	3.425	2.704	13.2	21.3	38 W	28*	20*
9 28	9 31.15	+12 42.8	3.324	2.696	15.0	21.3	44 W	34*	23*
10 8	9 44.86	+11 26.9	3.211	2.686	16.6	21.3	50 W	39*	27*
10 18	9 57.95	+10 10.2	3.088	2.675	18.2	21.2	57 W	44*	31*
10 28	10 10.29	+ 8 53.6	2.955	2.663	19.5	21.2	63 W	48*	35*
11 7	10 21.78	+ 7 38.5	2.814	2.650	20.6	21.1	70 W	50*	40*
11 17	10 32.26	+ 6 26.2	2.667	2.636	21.5	21.0	77 W	51*	45*
11 27	10 41.55	+ 5 18.2	2.515	2.621	22.0	20.9	85 W	50	50*
12 7	10 49.42	+ 4 16.5	2.361	2.605	22.2	20.7	93 W	49	55*
12 17	10 55.60	+ 3 22.9	2.208	2.588	21.9	20.5	101 W	48	59*
12 27	10 59.78	+ 2 40.0	2.058	2.570	21.0	20.3	110 W	48	61
1 6	11 1.65	+ 2 10.0	1.915	2.551	19.5	20.1	120 W	47	62
1 16	11 0.88	+ 1 55.7	1.784	2.531	17.3	19.9	130 W	47	62

239832 1998 YS_{31}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 23	3 56.69	+18 31.7	1.041	1.957	14.4	18.2	150 E	64	45
12 28	3 53.05	+17 2.0	1.057	1.940	17.3	18.3	144 E	62	47
1 2	3 50.42	+15 38.8	1.078	1.924	20.0	18.4	138 E	61	48
1 7	3 48.85	+14 23.1	1.103	1.908	22.5	18.5	132 E	59	50
1 12	3 48.35	+13 15.6	1.133	1.892	24.7	18.6	127 E	58	51
1 22	3 50.42	+11 24.9	1.200	1.860	28.3	18.8	116 E	56	53
2 1	3 56.30	+10 4.3	1.274	1.830	30.9	19.0	107 E	55	54*
2 11	4 5.55	+ 9 8.5	1.352	1.801	32.7	19.1	100 E	54	54*
2 21	4 17.67	+ 8 31.3	1.431	1.774	33.8	19.2	92 E	54	54*
3 2	4 32.29	+ 8 6.8	1.508	1.748	34.5	19.3	86 E	53*	53*
3 12	4 49.04	+ 7 49.8	1.582	1.724	34.6	19.4	81 E	51*	52*
3 22	5 7.63	+ 7 35.7	1.652	1.703	34.5	19.5	76 E	47*	51*
4 1	5 27.83	+ 7 20.7	1.719	1.684	34.1	19.5	71 E	43*	50*
4 11	5 49.42	+ 7 1.6	1.781	1.668	33.6	19.6	67 E	39*	49*
4 21	6 12.21	+ 6 35.7	1.839	1.654	32.9	19.6	63 E	34*	48*
5 1	6 36.04	+ 6 1.2	1.894	1.643	32.1	19.6	60 E	29*	48*
5 11	7 0.72	+ 5 16.3	1.947	1.636	31.2	19.7	57 E	24*	47*
5 21	7 26.10	+ 4 20.3	1.998	1.631	30.3	19.7	54 E	18*	46*
5 31	7 52.04	+ 3 12.8	2.048	1.630	29.3	19.7	52 E	13*	45*
6 10	8 18.37	+ 1 53.9	2.098	1.632	28.2	19.7	50 E	9*	43*
6 20	8 44.98	+ 0 24.5	2.149	1.638	27.1	19.7	47 E	5*	41*
6 30	9 11.74	− 1 14.5	2.201	1.646	25.9	19.8	45 E	1*	39*
7 10	9 38.54	− 3 1.4	2.255	1.658	24.6	19.8	43 E	—	36*
7 20	10 5.32	− 4 54.4	2.312	1.672	23.2	19.8	40 E	—	34*
7 30	10 32.01	− 6 51.5	2.371	1.689	21.7	19.9	38 E	—	31*
8 9	10 58.57	− 8 50.7	2.432	1.709	20.1	19.9	35 E	—	28*
8 19	11 24.97	−10 49.8	2.494	1.731	18.4	19.9	33 E	—	25*
8 29	11 51.21	−12 46.9	2.558	1.756	16.6	20.0	30 E	—	22*
9 8	12 17.27	−14 40.0	2.621	1.782	14.8	20.0	27 E	—	19*
9 18	12 43.16	−16 27.5	2.684	1.810	12.9	20.0	24 E	—	15*
9 28	13 8.89	−18 7.8	2.745	1.839	10.9	20.0	20 E	—	12*
10 8	13 34.44	−19 39.6	2.803	1.870	8.9	20.0	17 E	—	9*
10 18	13 59.80	−21 1.7	2.857	1.901	6.9	20.0	13 E	—	5*
10 28	14 24.96	−22 13.0	2.905	1.934	5.0	20.0	10 E	—	1*
11 7	14 49.86	−23 12.8	2.947	1.967	3.5	20.0	7 E	—	—
11 17	15 14.48	−24 0.4	2.981	2.001	3.0	20.0	6 W	—	—
11 27	15 38.72	−24 35.3	3.006	2.035	4.1	20.1	8 W	—	2*
12 7	16 2.50	−24 57.3	3.022	2.070	5.8	20.2	12 W	—	6*
12 17	16 25.75	−25 6.3	3.027	2.104	7.8	20.4	17 W	3*	10*
12 27	16 48.36	−25 2.4	3.021	2.139	9.8	20.5	22 W	6*	14*
1 6	17 10.21	−24 45.9	3.004	2.173	11.8	20.6	27 W	9*	19*
1 16	17 31.21	−24 17.3	2.975	2.208	13.8	20.7	32 W	11*	25*

1198 Atlantis

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	3 57.15	+20 49.7	1.095	2.012	13.7	16.8	151 E	66	43
1 2	3 53.76	+20 21.3	1.201	2.053	18.0	17.2	140 E	65	44
1 12	3 54.14	+20 7.1	1.324	2.093	21.2	17.5	130 E	65	44
1 22	3 57.88	+20 5.7	1.460	2.133	23.4	17.9	120 E	65	44
2 1	4 4.50	+20 14.4	1.606	2.173	24.9	18.2	112 E	65	44
2 11	4 13.51	+20 30.1	1.760	2.213	25.7	18.4	104 E	66	43*
2 21	4 24.44	+20 50.0	1.918	2.251	25.9	18.7	96 E	66	42*
3 2	4 36.95	+21 11.4	2.079	2.289	25.6	18.9	89 E	66*	41*
3 12	4 50.71	+21 32.1	2.241	2.327	25.0	19.0	82 E	64*	39*
3 22	5 5.47	+21 50.4	2.401	2.363	24.1	19.2	76 E	60*	38*
4 1	5 21.02	+22 4.6	2.559	2.399	23.0	19.3	70 E	54*	36*
4 11	5 37.18	+22 13.8	2.711	2.434	21.6	19.4	63 E	49*	35*
4 21	5 53.78	+22 17.1	2.858	2.468	20.1	19.5	57 E	42*	33*
5 1	6 10.70	+22 13.9	2.998	2.501	18.4	19.6	52 E	36*	31*
5 11	6 27.81	+22 3.8	3.129	2.533	16.7	19.7	46 E	30*	29*
5 21	6 45.02	+21 46.6	3.251	2.564	14.8	19.7	40 E	23*	26*
5 31	7 2.24	+21 22.3	3.363	2.595	12.9	19.8	35 E	17*	23*
6 10	7 19.37	+20 51.0	3.463	2.624	10.9	19.8	29 E	12*	20*
6 20	7 36.37	+20 12.9	3.551	2.652	8.9	19.8	24 E	7*	16*
6 30	7 53.18	+19 28.4	3.626	2.679	6.8	19.7	18 E	2*	11*
7 10	8 9.73	+18 38.0	3.688	2.705	4.7	19.7	13 E	—	6*
7 20	8 26.00	+17 41.9	3.735	2.730	2.7	19.6	7 E	—	1*
7 30	8 41.94	+16 40.9	3.768	2.754	0.8	19.5	2 E	—	—
8 9	8 57.52	+15 35.5	3.787	2.777	1.6	19.6	4 W	—	—
8 19	9 12.72	+14 26.3	3.790	2.799	3.6	19.8	10 W	2*	2*
8 29	9 27.49	+13 14.0	3.777	2.820	5.6	19.9	16 W	8*	6*
9 8	9 41.81	+11 59.4	3.749	2.839	7.6	20.0	22 W	13*	10*
9 18	9 55.64	+10 43.0	3.706	2.858	9.5	20.1	28 W	19*	14*
9 28	10 8.93	+ 9 25.9	3.648	2.875	11.3	20.1	34 W	25*	17*
10 8	10 21.63	+ 8 8.8	3.575	2.892	13.0	20.1	41 W	31*	21*
10 18	10 33.67	+ 6 52.6	3.488	2.907	14.6	20.1	47 W	36*	26*
10 28	10 44.95	+ 5 38.5	3.389	2.921	16.0	20.1	54 W	41*	30*
11 7	10 55.38	+ 4 27.3	3.277	2.934	17.2	20.1	61 W	44*	35*
11 17	11 4.84	+ 3 20.4	3.156	2.946	18.2	20.1	69 W	47*	41*
11 27	11 13.14	+ 2 19.0	3.026	2.957	18.9	20.0	77 W	47*	47*
12 7	11 20.11	+ 1 24.7	2.890	2.967	19.3	19.9	85 W	46	53*
12 17	11 25.53	+ 0 39.1	2.751	2.976	19.3	19.8	93 W	46	59*

1198 Atlantis *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 27	11 29.16	+ 0 3.9	2.612	2.983	18.8	19.7	102 W	45	63*
1 6	11 30.77	− 0 19.1	2.477	2.990	17.7	19.6	112 W	45	64
1 16	11 30.14	− 0 28.0	2.351	2.995	16.1	19.4	122 W	45	64

12008 Kandrup

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 57.18	+29 24.8	1.720	2.626	10.3	17.0	151 E	74	35
12 28	3 52.50	+28 17.4	1.754	2.624	12.2	17.1	146 E	73	36
1 2	3 48.70	+27 12.5	1.795	2.623	14.0	17.3	140 E	72	37
1 7	3 45.80	+26 11.0	1.841	2.621	15.7	17.4	134 E	71	38
1 12	3 43.79	+25 13.7	1.893	2.618	17.1	17.5	128 E	70	39
1 22	3 42.31	+23 33.0	2.008	2.612	19.5	17.7	118 E	69	40
2 1	3 43.94	+22 11.6	2.134	2.605	21.1	17.9	107 E	67	42*
2 11	3 48.27	+21 8.0	2.267	2.597	22.1	18.0	98 E	66	42*
2 21	3 54.88	+20 19.5	2.402	2.587	22.5	18.1	89 E	65*	41*
3 2	4 3.43	+19 42.9	2.535	2.576	22.3	18.2	81 E	62*	39*
3 12	4 13.59	+19 15.1	2.664	2.563	21.8	18.3	73 E	57*	38*
3 22	4 25.09	+18 53.0	2.785	2.549	20.9	18.4	66 E	51*	36*
4 1	4 37.75	+18 34.1	2.897	2.534	19.8	18.4	59 E	45*	34*
4 11	4 51.38	+18 16.1	2.998	2.517	18.4	18.4	53 E	38*	31*
4 21	5 5.82	+17 57.0	3.087	2.499	16.9	18.4	46 E	31*	29*
5 1	5 20.96	+17 35.0	3.163	2.480	15.2	18.4	40 E	24*	26*
5 11	5 36.68	+17 8.7	3.226	2.459	13.4	18.4	34 E	17*	24*
5 21	5 52.90	+16 36.8	3.274	2.437	11.6	18.3	29 E	11*	20*
5 31	6 9.54	+15 58.1	3.308	2.414	9.7	18.2	24 E	4*	17*
6 10	6 26.51	+15 11.8	3.327	2.390	7.9	18.2	19 E	—	13*
6 20	6 43.77	+14 16.9	3.333	2.364	6.3	18.1	15 E	—	8*
6 30	7 1.26	+13 12.8	3.324	2.337	5.0	18.0	12 E	—	4*
7 10	7 18.93	+11 58.8	3.302	2.308	4.5	17.9	10 E	—	—
7 20	7 36.75	+10 34.4	3.267	2.279	5.0	17.9	11 W	—	3*
7 30	7 54.69	+ 8 59.0	3.219	2.248	6.3	17.9	14 W	—	8*
8 9	8 12.73	+ 7 12.4	3.160	2.216	8.0	17.9	18 W	—	12*
8 19	8 30.86	+ 5 14.2	3.090	2.183	9.9	17.9	22 W	3*	16*
8 29	8 49.07	+ 3 4.0	3.011	2.149	11.9	17.9	26 W	7*	19*
9 8	9 7.39	+ 0 41.7	2.923	2.114	13.9	17.8	30 W	11*	23*
9 18	9 25.84	− 1 52.9	2.828	2.078	15.9	17.8	34 W	15*	26*
9 28	9 44.45	− 4 39.9	2.726	2.040	17.8	17.8	39 W	18*	30*
10 8	10 3.28	− 7 39.2	2.620	2.002	19.7	17.7	43 W	21*	33*
10 18	10 22.41	−10 50.5	2.510	1.964	21.6	17.6	47 W	23*	37*
10 28	10 41.92	−14 13.4	2.398	1.924	23.5	17.5	50 W	23*	41*
11 7	11 1.94	−17 47.0	2.285	1.884	25.2	17.4	54 W	23*	45*
11 17	11 22.62	−21 30.3	2.173	1.844	26.9	17.3	58 W	22*	49*
11 27	11 44.16	−25 21.4	2.062	1.804	28.6	17.2	61 W	19*	53*
12 2	11 55.32	−27 19.2	2.007	1.783	29.4	17.2	63 W	17*	55*
12 7	12 6.79	−29 18.0	1.953	1.763	30.2	17.1	64 W	16*	57*
12 12	12 18.61	−31 17.4	1.900	1.743	31.0	17.0	66 W	14*	59*
12 17	12 30.83	−33 16.9	1.848	1.723	31.8	17.0	67 W	12	61*
12 22	12 43.47	−35 15.9	1.796	1.703	32.5	16.9	68 W	10	62*
12 27	12 56.61	−37 13.8	1.746	1.683	33.3	16.8	70 W	8	64*
1 1	13 10.29	−39 9.8	1.697	1.663	34.0	16.8	71 W	6	65*
1 6	13 24.57	−41 3.3	1.648	1.644	34.8	16.7	72 W	4	66*
1 11	13 39.51	−42 53.3	1.601	1.624	35.5	16.6	74 W	2	66*
1 16	13 55.16	−44 39.0	1.554	1.605	36.2	16.6	75 W	—	66*

270085 2001 QQ_{98}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 58.21	+21 13.5	1.531	2.440	11.2	21.0	151 E	66	43
1 2	3 52.65	+20 46.5	1.636	2.469	14.9	21.3	140 E	66	43
1 12	3 50.37	+20 29.9	1.761	2.498	17.8	21.5	129 E	65	44
1 22	3 51.20	+20 23.9	1.900	2.527	19.9	21.8	119 E	65	44
2 1	3 54.85	+20 27.4	2.050	2.554	21.3	22.0	110 E	65	44*

75933 2000 CB_{75}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 58.49	−38 50.2	1.124	1.742	31.7	17.6	111 E	6	77
12 28	3 58.56	−36 52.2	1.149	1.756	31.6	17.7	111 E	8	79
1 2	3 59.45	−34 45.5	1.177	1.772	31.4	17.7	110 E	10	81
1 7	4 1.14	−32 31.9	1.206	1.788	31.3	17.8	109 E	12	83
1 12	4 3.58	−30 13.2	1.239	1.804	31.2	17.9	108 E	15	86
1 17	4 6.74	−27 51.1	1.274	1.822	31.1	18.0	107 E	17	88
1 22	4 10.55	−25 27.1	1.311	1.839	31.0	18.0	106 E	20	89
1 27	4 14.98	−23 2.7	1.352	1.857	30.9	18.1	104 E	22	87
2 1	4 19.98	−20 39.1	1.395	1.875	30.8	18.2	103 E	24	85
2 6	4 25.50	−18 17.7	1.442	1.894	30.7	18.3	101 E	27	82
2 11	4 31.48	−15 59.5	1.491	1.913	30.6	18.4	99 E	29	80*
2 16	4 37.88	−13 45.3	1.543	1.933	30.5	18.5	97 E	31	78*
2 21	4 44.67	−11 35.8	1.598	1.952	30.3	18.6	95 E	33	75*
2 26	4 51.80	− 9 31.5	1.655	1.972	30.1	18.7	93 E	35	72*
3 2	4 59.24	− 7 32.9	1.715	1.993	29.8	18.8	91 E	37	70*
3 12	5 14.92	− 3 54.0	1.841	2.034	29.2	18.9	86 E	40*	65*
3 22	5 31.48	− 0 40.4	1.974	2.075	28.3	19.1	81 E	42*	61*
4 1	5 48.71	+ 2 7.8	2.114	2.117	27.3	19.3	77 E	41*	57*

75933 2000 CB_{75} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	6 6.45	+ 4 31.4	2.257	2.160	26.1	19.4	72 E	39*	53*
4 21	6 24.54	+ 6 31.7	2.402	2.202	24.7	19.6	66 E	36*	50*
5 1	6 42.86	+ 8 10.3	2.548	2.245	23.2	19.7	61 E	32*	47*
5 11	7 1.28	+ 9 28.7	2.692	2.287	21.5	19.8	56 E	27*	44*
5 21	7 19.70	+10 28.8	2.832	2.329	19.7	19.9	51 E	22*	40*
5 31	7 38.05	+11 12.5	2.967	2.371	17.8	20.0	46 E	17*	37*
6 10	7 56.25	+11 41.3	3.096	2.413	15.8	20.0	40 E	12*	32*
6 20	8 14.24	+11 56.9	3.217	2.454	13.7	20.1	35 E	7*	28*
6 30	8 31.98	+12 1.0	3.328	2.495	11.6	20.1	30 E	3*	23*
7 10	8 49.43	+11 55.1	3.428	2.535	9.5	20.1	24 E	—	18*
7 20	9 6.57	+11 40.5	3.516	2.574	7.3	20.1	19 E	—	13*
7 30	9 23.38	+11 18.7	3.592	2.613	5.1	20.1	13 E	—	7*
8 9	9 39.82	+10 51.1	3.653	2.652	2.9	20.0	8 E	—	1*
8 19	9 55.90	+10 18.9	3.700	2.689	0.9	19.9	3 E	—	—
8 29	10 11.61	+ 9 43.4	3.731	2.726	1.7	20.1	5 W	—	—
9 8	10 26.92	+ 9 5.9	3.747	2.762	3.8	20.2	10 W	3*	1*
9 18	10 41.82	+ 8 27.7	3.746	2.798	5.9	20.4	16 W	9*	5*
9 28	10 56.29	+ 7 50.0	3.730	2.832	7.9	20.5	23 W	15*	8*
10 8	11 10.29	+ 7 14.3	3.696	2.866	9.8	20.6	29 W	22*	11*
10 18	11 23.79	+ 6 41.9	3.647	2.899	11.6	20.6	36 W	28*	15*
10 28	11 36.72	+ 6 14.4	3.583	2.931	13.3	20.7	43 W	34*	19*
11 7	11 49.02	+ 5 53.2	3.504	2.962	14.8	20.7	50 W	39*	24*
11 17	12 0.59	+ 5 40.2	3.412	2.992	16.1	20.7	57 W	44*	28*
11 27	12 11.33	+ 5 37.1	3.308	3.022	17.2	20.7	65 W	48*	34*
12 7	12 21.09	+ 5 45.8	3.196	3.050	18.0	20.7	73 W	50*	39*
12 17	12 29.70	+ 6 8.2	3.076	3.078	18.4	20.6	81 W	51	45*
12 27	12 36.98	+ 6 46.4	2.952	3.105	18.5	20.6	90 W	52	50*
1 6	12 42.70	+ 7 41.8	2.828	3.131	18.1	20.5	99 W	53	54*
1 16	12 46.65	+ 8 55.7	2.708	3.156	17.2	20.4	108 W	54	55*

163081 2002 AG_{29}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	3 59.93	− 9 4.8	0.406	1.306	31.7	18.4	136 E	36	73
12 28	3 53.54	− 9 6.5	0.428	1.304	34.8	18.6	131 E	36	73
1 2	3 49.07	− 8 50.8	0.451	1.301	37.6	18.8	126 E	36	73
1 7	3 46.43	− 8 21.2	0.475	1.297	40.2	18.9	122 E	37	72
1 12	3 45.48	− 7 40.8	0.500	1.293	42.5	19.1	117 E	37	72
1 17	3 46.05	− 6 52.2	0.526	1.287	44.5	19.3	114 E	38	71
1 22	3 48.02	− 5 57.3	0.551	1.281	46.3	19.4	110 E	39	70
1 27	3 51.25	− 4 57.6	0.576	1.274	47.9	19.5	106 E	40	69
2 1	3 55.61	− 3 54.6	0.601	1.266	49.3	19.6	103 E	41	68*
2 6	4 1.00	− 2 49.4	0.625	1.257	50.5	19.8	100 E	42	67*
2 11	4 7.29	− 1 42.9	0.647	1.247	51.7	19.8	97 E	43	65*
2 16	4 14.41	− 0 35.9	0.669	1.237	52.8	19.9	95 E	44	63*
2 21	4 22.29	+ 0 31.3	0.689	1.226	53.7	20.0	92 E	46	62*
3 2	4 40.16	+ 2 44.0	0.725	1.201	55.5	20.1	87 E	48*	59*
3 12	5 0.53	+ 4 51.8	0.754	1.174	57.2	20.2	83 E	48*	56*
3 22	5 23.12	+ 6 52.3	0.776	1.144	58.9	20.3	79 E	48*	53*
4 1	5 47.82	+ 8 43.9	0.789	1.112	60.6	20.3	76 E	47*	51*
4 11	6 14.50	+10 24.9	0.794	1.079	62.5	20.3	73 E	45*	49*
4 21	6 43.04	+11 54.7	0.790	1.045	64.7	20.3	70 E	43*	48*
5 1	7 13.41	+13 12.8	0.778	1.011	67.1	20.2	68 E	40*	46*
5 11	7 45.49	+14 19.6	0.757	0.978	69.9	20.2	65 E	38*	45*
5 21	8 19.19	+15 16.5	0.728	0.947	73.1	20.1	63 E	35*	44*
5 31	8 54.43	+16 5.3	0.693	0.919	76.6	20.1	62 E	33*	43*
6 10	9 31.07	+16 49.1	0.651	0.895	80.4	20.0	60 E	32*	43*
6 20	10 8.99	+17 31.5	0.606	0.878	84.3	20.0	59 E	31*	42*
6 30	10 48.18	+18 15.1	0.557	0.868	88.2	19.9	59 E	32*	41*
7 5	11 8.22	+18 38.1	0.532	0.866	90.0	19.9	58 E	32*	40*
7 10	11 28.59	+19 1.8	0.508	0.866	91.7	19.9	58 E	33*	40*
7 15	11 49.31	+19 25.9	0.483	0.868	93.2	19.8	58 E	34*	39*
7 20	12 10.44	+19 49.6	0.459	0.872	94.5	19.8	59 E	35*	39*
7 25	12 32.07	+20 11.9	0.436	0.877	95.4	19.7	59 E	37*	38*
7 30	12 54.26	+20 31.8	0.413	0.885	96.1	19.7	60 E	39*	38*
8 4	13 17.11	+20 47.5	0.391	0.894	96.3	19.6	61 E	41*	38*
8 9	13 40.75	+20 56.8	0.370	0.905	96.2	19.5	63 E	43*	38*
8 14	14 5.35	+20 57.0	0.350	0.917	95.6	19.4	64 E	45*	38*
8 19	14 31.06	+20 45.0	0.332	0.930	94.5	19.2	66 E	47*	39*
8 24	14 58.03	+20 17.8	0.316	0.945	92.9	19.1	69 E	50*	40*
8 29	15 26.34	+19 32.4	0.301	0.960	90.8	18.9	72 E	52*	41*
9 3	15 56.00	+18 25.7	0.289	0.976	88.2	18.8	75 E	54*	43*
9 8	16 26.89	+16 55.5	0.279	0.992	85.1	18.6	79 E	55*	45*
9 13	16 58.80	+15 1.3	0.272	1.009	81.7	18.4	83 E	56*	48*
9 18	17 31.35	+12 45.3	0.269	1.026	78.0	18.3	87 E	56*	50*
9 23	18 4.06	+10 12.6	0.269	1.043	74.2	18.2	91 E	55*	53*
9 28	18 36.34	+ 7 31.0	0.274	1.060	70.4	18.2	95 E	52*	56*
10 3	19 7.64	+ 4 49.1	0.282	1.077	66.9	18.2	98 E	50	59*
10 8	19 37.52	+ 2 15.0	0.295	1.094	63.8	18.2	101 E	47	62
10 13	20 5.72	− 0 4.7	0.312	1.110	61.1	18.3	103 E	45	64
10 18	20 32.11	− 2 6.0	0.332	1.126	58.9	18.4	104 E	43	66

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		163081 2002 AG_{29} *(continuation)*							
	h m	° ′			°	m	°	°	°
10 28	21 19.57	− 5 7.0	0.383	1.157	55.7	18.7	106 E	40	69
11 7	22 0.60	− 6 51.4	0.444	1.186	53.8	19.0	105 E	38	71
11 17	22 36.53	− 7 33.4	0.512	1.212	52.6	19.3	103 E	37	72*
11 22	22 53.02	− 7 35.6	0.549	1.224	52.2	19.5	102 E	37	71*
11 27	23 8.70	− 7 27.5	0.587	1.235	51.8	19.6	100 E	38	71*
12 2	23 23.69	− 7 10.7	0.625	1.246	51.4	19.8	99 E	38	70*
12 7	23 38.10	− 6 46.4	0.665	1.256	51.1	19.9	97 E	38	69*
12 12	23 52.02	− 6 15.7	0.705	1.265	50.8	20.0	96 E	39	68*
12 17	0 5.56	− 5 39.4	0.745	1.273	50.5	20.2	94 E	39	66*
12 22	0 18.78	− 4 58.5	0.786	1.280	50.2	20.3	92 E	40	64*
12 27	0 31.74	− 4 13.7	0.826	1.287	49.8	20.4	90 E	41	62*
1 1	0 44.49	− 3 25.7	0.867	1.292	49.5	20.5	88 E	42	61*
1 6	0 57.07	− 2 35.1	0.907	1.297	49.2	20.6	87 E	42	59*
1 11	1 9.54	− 1 42.4	0.947	1.301	48.8	20.7	85 E	43	57*
1 16	1 21.94	− 0 48.0	0.986	1.304	48.5	20.8	83 E	44	55*
		331984 2005 EM_{76}							
12 23	4 0.79	+ 9 16.2	1.430	2.321	13.1	20.9	148 E	54	55
1 2	3 55.41	+ 9 32.2	1.532	2.349	16.6	21.2	137 E	55	54
1 12	3 53.25	+10 2.0	1.653	2.375	19.4	21.4	127 E	55	54
1 22	3 54.17	+10 42.3	1.786	2.401	21.4	21.7	117 E	56	53
2 1	3 57.89	+11 29.9	1.930	2.426	22.7	21.9	108 E	56	53*
		319421 2006 HR_{77}							
12 23	4 1.08	+19 6.2	1.485	2.396	11.3	21.2	151 E	64	45
1 2	3 54.55	+18 51.7	1.580	2.415	15.3	21.4	140 E	64	45
1 12	3 51.40	+18 47.4	1.693	2.433	18.4	21.7	129 E	64	45
1 22	3 51.54	+18 53.2	1.821	2.450	20.6	22.0	119 E	64	45
2 1	3 54.67	+19 7.8	1.959	2.466	22.2	22.2	109 E	64	45*
		228404 2001 EQ_{17}							
12 23	4 1.86	+45 41.1	1.028	1.929	16.1	19.2	147 E	89	18
12 28	3 53.15	+46 10.8	1.041	1.914	18.5	19.2	142 E	89	18
1 2	3 45.75	+46 32.2	1.060	1.900	20.7	19.3	137 E	88	17
1 7	3 39.89	+46 47.2	1.083	1.886	22.9	19.4	132 E	88	17
1 12	3 35.70	+46 57.7	1.109	1.873	24.8	19.5	127 E	88	17
1 17	3 33.22	+47 5.4	1.138	1.859	26.6	19.6	122 E	88	17
1 22	3 32.43	+47 11.5	1.169	1.846	28.2	19.7	118 E	88	17
1 27	3 33.29	+47 17.3	1.202	1.833	29.5	19.8	114 E	88	17*
2 1	3 35.74	+47 23.3	1.236	1.820	30.7	19.9	110 E	88	16*
2 6	3 39.67	+47 30.2	1.271	1.807	31.7	20.0	106 E	87	16*
2 11	3 45.00	+47 37.8	1.306	1.795	32.5	20.0	102 E	87	16*
2 16	3 51.61	+47 46.0	1.341	1.783	33.2	20.1	99 E	87	15*
2 21	3 59.45	+47 54.6	1.376	1.772	33.7	20.1	96 E	87*	15*
2 26	4 8.44	+48 3.2	1.411	1.760	34.2	20.2	93 E	85*	14*
3 2	4 18.50	+48 11.2	1.445	1.750	34.5	20.2	90 E	83*	14*
3 7	4 29.56	+48 18.0	1.478	1.739	34.7	20.3	87 E	80*	14*
3 12	4 41.54	+48 23.0	1.511	1.729	34.9	20.3	85 E	78*	13*
3 17	4 54.36	+48 25.5	1.543	1.720	35.0	20.4	82 E	76*	13*
3 22	5 7.96	+48 24.8	1.574	1.711	35.0	20.4	80 E	74*	13*
3 27	5 22.27	+48 20.1	1.605	1.702	35.0	20.4	78 E	72*	13*
4 1	5 37.20	+48 10.9	1.635	1.694	34.9	20.5	76 E	70*	14*
4 6	5 52.65	+47 56.6	1.663	1.687	34.7	20.5	74 E	68*	14*
4 11	6 8.52	+47 36.5	1.692	1.680	34.6	20.5	72 E	66*	14*
4 16	6 24.72	+47 10.3	1.720	1.674	34.4	20.5	70 E	64*	15*
4 21	6 41.16	+46 37.5	1.747	1.668	34.1	20.5	69 E	63*	15*
4 26	6 57.73	+45 57.8	1.774	1.663	33.9	20.6	67 E	61*	16*
5 1	7 14.35	+45 11.2	1.800	1.659	33.6	20.6	65 E	59*	17*
5 6	7 30.92	+44 17.7	1.827	1.655	33.2	20.6	64 E	57*	18*
5 11	7 47.36	+43 17.1	1.853	1.652	32.9	20.6	63 E	55*	19*
5 16	8 3.60	+42 9.8	1.879	1.649	32.5	20.6	61 E	53*	20*
5 21	8 19.60	+40 56.0	1.906	1.647	32.1	20.6	60 E	51*	21*
5 26	8 35.30	+39 35.9	1.932	1.646	31.6	20.7	58 E	48*	22*
5 31	8 50.69	+38 10.1	1.959	1.645	31.1	20.7	57 E	46*	23*
6 5	9 5.71	+36 38.9	1.987	1.646	30.6	20.7	56 E	44*	24*
6 10	9 20.38	+35 2.8	2.015	1.646	30.1	20.7	54 E	41*	25*
6 15	9 34.67	+33 22.4	2.043	1.648	29.6	20.7	53 E	39*	26*
6 20	9 48.61	+31 38.1	2.072	1.650	29.0	20.7	52 E	37*	27*
6 25	10 2.20	+29 50.5	2.101	1.653	28.3	20.8	51 E	34*	28*
6 30	10 15.46	+28 0.0	2.131	1.656	27.7	20.8	49 E	32*	29*
7 5	10 28.38	+26 7.2	2.162	1.660	27.0	20.8	48 E	30*	29*
7 10	10 41.00	+24 12.6	2.193	1.665	26.3	20.8	46 E	28*	29*
7 15	10 53.35	+22 16.5	2.225	1.671	25.5	20.8	45 E	26*	30*
7 20	11 5.43	+20 19.5	2.257	1.677	24.8	20.8	44 E	24*	30*
7 25	11 17.28	+18 21.8	2.290	1.683	23.9	20.9	42 E	23*	30*
7 30	11 28.92	+16 23.9	2.323	1.690	23.1	20.9	41 E	21*	29*
8 4	11 40.36	+14 26.2	2.357	1.698	22.2	20.9	39 E	19*	29*
8 9	11 51.64	+12 28.9	2.390	1.706	21.4	20.9	38 E	18*	28*
8 14	12 2.76	+10 32.4	2.424	1.715	20.4	20.9	36 E	16*	27*
8 19	12 13.76	+ 8 36.7	2.458	1.724	19.5	20.9	35 E	15*	26*
8 24	12 24.65	+ 6 42.3	2.492	1.734	18.5	20.9	33 E	14*	25*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		228404 2001 EQ_{17} *(continuation)*							
	h m	° ′			°	m	°	°	°
8 29	12 35.44	+ 4 49.4	2.526	1.744	17.5	20.9	31 E	13*	23*
9 3	12 46.17	+ 2 58.1	2.559	1.754	16.5	20.9	30 E	11*	22*
9 8	12 56.83	+ 1 8.5	2.592	1.765	15.5	21.0	28 E	10*	21*
9 13	13 7.46	− 0 39.0	2.625	1.777	14.4	21.0	26 E	9*	19*
9 18	13 18.06	− 2 24.6	2.656	1.788	13.3	21.0	24 E	8*	17*
9 23	13 28.65	− 4 7.9	2.687	1.800	12.3	21.0	22 E	7*	16*
9 28	13 39.24	− 5 48.8	2.717	1.813	11.2	21.0	20 E	5*	14*
10 3	13 49.83	− 7 27.3	2.746	1.825	10.0	20.9	19 E	4*	12*
10 8	14 0.45	− 9 3.3	2.774	1.838	8.9	20.9	17 E	3*	10*
10 13	14 11.11	−10 36.7	2.800	1.852	7.8	20.9	15 E	2*	8*
10 18	14 21.80	−12 7.4	2.825	1.865	6.7	20.9	13 E	1*	6*
10 23	14 32.55	−13 35.3	2.848	1.879	5.5	20.9	10 E	—	4*
10 28	14 43.35	−15 0.3	2.870	1.892	4.4	20.9	8 E	—	2*
11 2	14 54.20	−16 22.5	2.890	1.906	3.2	20.8	6 E	—	—
11 7	15 5.12	−17 41.7	2.908	1.921	2.1	20.8	4 E	—	—
11 12	15 16.11	−18 58.0	2.924	1.935	1.1	20.7	2 E	—	—
11 17	15 27.16	−20 11.2	2.938	1.949	0.7	20.7	1 W	—	—
11 22	15 38.29	−21 21.4	2.949	1.964	1.6	20.8	3 W	—	—
11 27	15 49.48	−22 28.4	2.959	1.978	2.7	20.9	5 W	—	—
12 2	16 0.73	−23 32.4	2.966	1.993	3.8	21.0	8 W	—	1*
12 7	16 12.03	−24 33.2	2.970	2.008	4.9	21.1	10 W	—	4*
12 12	16 23.40	−25 31.0	2.973	2.022	6.0	21.2	12 W	—	6*
12 17	16 34.82	−26 25.6	2.972	2.037	7.1	21.2	15 W	1*	8*
12 22	16 46.27	−27 17.2	2.970	2.052	8.2	21.3	17 W	2*	11*
12 27	16 57.74	−28 5.8	2.964	2.067	9.3	21.4	20 W	2*	13*
1 1	17 9.24	−28 51.4	2.957	2.082	10.4	21.4	22 W	3*	16*
1 6	17 20.74	−29 34.1	2.946	2.096	11.4	21.5	25 W	3*	19*
		385200 1999 RB_{25}							
12 23	4 2.99	+34 53.9	1.103	2.023	13.3	19.8	152 E	80	29
12 28	3 59.93	+34 17.5	1.147	2.042	15.4	20.0	147 E	79	30
1 2	3 58.00	+33 41.9	1.196	2.060	17.2	20.2	142 E	79	30
1 7	3 57.18	+33 8.2	1.250	2.078	18.9	20.3	137 E	78	31
1 12	3 57.42	+32 37.1	1.307	2.096	20.4	20.5	132 E	78	31
1 17	3 58.63	+32 8.8	1.368	2.114	21.8	20.7	127 E	77	32
1 22	4 0.75	+31 43.6	1.433	2.132	22.9	20.8	123 E	77	32
1 27	4 3.71	+31 21.5	1.500	2.149	23.8	21.0	118 E	76	33
2 1	4 7.42	+31 2.3	1.570	2.167	24.5	21.1	114 E	76	33
2 6	4 11.81	+30 45.8	1.641	2.185	25.1	21.2	110 E	76	33*
2 11	4 16.80	+30 31.8	1.715	2.202	25.5	21.4	106 E	76	33*
2 16	4 22.33	+30 19.7	1.790	2.220	25.8	21.5	102 E	75	33*
		314716 2006 SX_{52}							
12 23	4 5.02	+24 50.9	1.357	2.279	11.2	19.4	153 E	70	39
1 2	3 59.09	+25 1.0	1.478	2.331	15.1	19.8	142 E	70	39
1 12	3 56.84	+25 13.0	1.618	2.383	18.1	20.2	131 E	70	39
1 22	3 57.97	+25 28.3	1.772	2.434	20.2	20.5	121 E	70	39
2 1	4 2.08	+25 47.5	1.939	2.485	21.5	20.8	112 E	71	38
2 11	4 8.70	+26 9.7	2.113	2.534	22.2	21.0	104 E	71	38*
2 21	4 17.38	+26 33.9	2.293	2.583	22.4	21.2	96 E	72	36*
3 2	4 27.76	+26 58.8	2.474	2.631	22.1	21.4	88 E	71*	35*
		192563 1998 WZ_{6}							
12 23	4 5.61	+58 51.3	0.289	1.216	32.1	16.4	139 E	76	5
12 25	3 45.25	+61 4.3	0.288	1.204	35.5	16.5	135 E	74	3
12 27	3 22.48	+63 1.8	0.288	1.191	38.8	16.5	131 E	72	1
12 29	2 57.47	+64 41.2	0.289	1.178	42.2	16.6	126 E	70	—
12 31	2 30.62	+66 0.4	0.291	1.165	45.4	16.7	122 E	69	—
1 2	2 2.58	+66 58.8	0.294	1.153	48.6	16.8	118 E	68	—
1 3	1 48.36	+67 20.1	0.296	1.146	50.1	16.8	117 E	68	—
1 4	1 34.14	+67 36.5	0.298	1.140	51.6	16.9	115 E	67	—
1 5	1 20.05	+67 48.1	0.300	1.134	53.1	16.9	113 E	67	—
1 6	1 6.17	+67 55.1	0.302	1.127	54.5	16.9	111 E	67	—
1 7	0 52.59	+67 58.0	0.304	1.121	55.9	17.0	109 E	67	—
1 8	0 39.40	+67 56.9	0.307	1.115	57.2	17.0	108 E	67	—
1 9	0 26.64	+67 52.4	0.310	1.109	58.5	17.1	106 E	67	—
1 10	0 14.37	+67 44.8	0.312	1.103	59.8	17.1	104 E	67*	—
1 11	0 2.61	+67 34.4	0.315	1.096	61.1	17.2	103 E	67*	—
1 12	23 51.38	+67 21.5	0.318	1.090	62.3	17.2	101 E	67*	—
1 14	23 30.53	+66 49.8	0.324	1.078	64.6	17.3	98 E	66*	—
1 16	23 11.76	+66 11.8	0.330	1.066	66.8	17.4	95 E	65*	—
1 18	22 54.91	+65 29.4	0.336	1.054	68.8	17.5	93 E	63*	—
1 20	22 39.79	+64 44.0	0.342	1.042	70.7	17.5	90 E	61*	—
1 22	22 26.18	+63 56.6	0.348	1.031	72.6	17.6	88 E	59*	—
1 23	22 19.88	+63 32.4	0.351	1.025	73.5	17.6	87 E	58*	—
1 24	22 13.89	+63 7.9	0.354	1.019	74.3	17.7	85 E	56*	—
1 25	22 8.18	+62 43.2	0.357	1.014	75.1	17.7	84 E	55*	—
1 26	22 2.73	+62 18.3	0.359	1.008	76.0	17.7	83 E	54*	—
1 27	21 57.53	+61 53.2	0.362	1.002	76.7	17.8	82 E	53*	—
1 28	21 52.55	+61 28.0	0.365	0.997	77.5	17.8	81 E	52*	—

192563 1998 WZ_6 *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 29	21 47.77	+61 2.6	0.368	0.992	78.2	17.8	80 E	50*	—
1 30	21 43.20	+60 37.1	0.370	0.986	79.0	17.9	79 E	49*	—
1 31	21 38.80	+60 11.3	0.373	0.981	79.7	17.9	78 E	48*	—
2 1	21 34.58	+59 45.4	0.375	0.976	80.4	17.9	78 E	47*	—
2 3	21 26.59	+58 52.8	0.380	0.966	81.7	18.0	76 E	44*	—
2 5	21 19.18	+57 59.2	0.385	0.956	83.0	18.0	74 E	42*	—
2 7	21 12.28	+57 4.3	0.389	0.946	84.2	18.1	73 W	41*	—
2 9	21 5.86	+56 7.9	0.393	0.937	85.3	18.1	71 W	42*	—
2 11	20 59.89	+55 9.7	0.397	0.929	86.4	18.2	70 W	43*	—
2 16	20 46.81	+52 35.2	0.405	0.909	88.9	18.3	67 W	46*	—
2 21	20 36.20	+49 46.1	0.411	0.892	91.1	18.3	64 W	48*	—
2 26	20 27.95	+46 40.4	0.415	0.878	92.9	18.4	62 W	50*	—
3 2	20 22.00	+43 17.2	0.418	0.868	94.2	18.5	61 W	52*	—
3 7	20 18.30	+39 36.3	0.420	0.862	95.2	18.5	60 W	53*	6*
3 12	20 16.80	+35 38.8	0.420	0.860	95.6	18.5	59 W	53*	12*
3 17	20 17.40	+31 27.2	0.420	0.862	95.6	18.5	60 W	53*	18*
3 22	20 19.90	+27 4.4	0.420	0.868	95.0	18.5	60 W	52*	24*
3 27	20 24.09	+22 32.9	0.419	0.878	93.9	18.5	61 W	50*	31*
4 1	20 29.72	+17 55.5	0.418	0.891	92.2	18.4	63 W	47*	37*
4 6	20 36.60	+13 14.5	0.418	0.908	90.2	18.4	65 W	44*	42*
4 11	20 44.50	+ 8 31.9	0.417	0.928	87.7	18.3	68 W	41*	48*
4 16	20 53.21	+ 3 49.5	0.417	0.950	84.9	18.3	71 W	37*	54*
4 21	21 2.51	− 0 51.9	0.416	0.975	81.9	18.2	74 W	33*	60*
5 1	21 21.99	−10 10.6	0.417	1.030	75.2	18.1	81 W	25*	71*
5 11	21 41.47	−19 24.1	0.421	1.089	68.0	18.0	89 W	18*	82*
5 21	21 59.45	−28 32.4	0.428	1.152	60.5	17.9	98 W	10*	87
5 26	22 7.34	−33 3.9	0.433	1.184	56.8	17.9	102 W	7*	83
5 31	22 14.17	−37 32.1	0.441	1.215	53.1	17.9	107 W	3*	78
6 5	22 19.68	−41 55.1	0.450	1.247	49.5	17.9	111 W	—	74
6 10	22 23.57	−46 10.7	0.461	1.279	46.1	17.9	115 W	—	70
6 15	22 25.45	−50 15.9	0.474	1.310	42.9	17.9	119 W	—	66
6 20	22 24.83	−54 7.7	0.490	1.342	40.0	18.0	122 W	—	62
6 22	22 23.78	−55 35.7	0.498	1.354	39.0	18.0	123 W	—	60
6 24	22 22.21	−57 0.7	0.505	1.366	37.9	18.0	124 W	—	59
6 26	22 20.11	−58 22.3	0.513	1.378	37.0	18.0	125 W	—	58
6 28	22 17.44	−59 40.3	0.522	1.391	36.1	18.1	126 W	—	56
6 30	22 14.18	−60 54.4	0.531	1.403	35.3	18.1	127 W	—	55
7 5	22 3.34	−63 41.0	0.555	1.432	33.5	18.2	129 W	—	52
7 10	21 48.61	−65 57.9	0.583	1.462	32.2	18.3	130 W	—	50
7 15	21 30.35	−67 41.9	0.613	1.490	31.2	18.4	131 W	—	48
7 20	21 9.62	−68 51.2	0.646	1.518	30.6	18.6	131 W	—	47
7 22	21 1.00	−69 9.3	0.660	1.529	30.4	18.6	130 W	—	47
7 24	20 52.37	−69 21.9	0.675	1.540	30.3	18.7	130 W	—	47
7 26	20 43.87	−69 29.3	0.690	1.551	30.2	18.8	130 W	—	47
7 28	20 35.61	−69 31.9	0.705	1.562	30.1	18.8	129 W	—	46
7 30	20 27.69	−69 30.0	0.721	1.572	30.1	18.9	129 E	—	47
8 1	20 20.19	−69 23.8	0.737	1.583	30.1	18.9	128 E	—	47
8 3	20 13.19	−69 13.8	0.754	1.593	30.2	19.0	128 E	—	47
8 5	20 6.73	−69 0.4	0.771	1.603	30.2	19.1	127 E	—	47
8 7	20 0.84	−68 43.9	0.788	1.613	30.3	19.1	127 E	—	47
8 9	19 55.54	−68 24.7	0.806	1.623	30.4	19.2	126 E	—	48
8 14	19 44.86	−67 26.9	0.852	1.648	30.7	19.4	124 E	—	49
8 19	19 37.66	−66 18.5	0.900	1.672	31.0	19.5	122 E	—	50
8 24	19 33.55	−65 3.1	0.950	1.695	31.3	19.7	120 E	—	51
8 29	19 32.07	−63 43.4	1.002	1.717	31.5	19.8	117 E	—	52
8 31	19 32.11	−63 10.8	1.024	1.726	31.6	19.9	116 E	—	53
9 2	19 32.45	−62 37.9	1.045	1.735	31.7	19.9	115 E	—	53
9 4	19 33.09	−62 4.7	1.067	1.743	31.8	20.0	114 E	—	54
9 6	19 33.98	−61 31.3	1.089	1.752	31.9	20.1	113 E	—	54
9 8	19 35.13	−60 57.9	1.111	1.760	32.0	20.1	112 E	—	55
9 13	19 38.91	−59 33.8	1.168	1.780	32.2	20.3	110 E	—	56
9 18	19 43.83	−58 9.7	1.226	1.799	32.3	20.4	107 E	—	58
9 23	19 49.68	−56 45.7	1.285	1.818	32.3	20.5	105 E	—	59
9 28	19 56.25	−55 22.1	1.346	1.836	32.3	20.6	102 E	—	61
10 3	20 3.40	−53 58.9	1.407	1.853	32.2	20.7	99 E	—	62
10 8	20 11.01	−52 36.1	1.469	1.870	32.1	20.9	97 E	—	63
10 13	20 18.98	−51 13.7	1.531	1.885	31.9	21.0	94 E	—	65
10 18	20 27.24	−49 51.5	1.594	1.900	31.6	21.1	91 E	—	66
10 23	20 35.74	−48 29.6	1.657	1.914	31.3	21.1	89 E	—	67*
10 28	20 44.42	−47 7.8	1.720	1.928	30.9	21.2	86 E	—	69*
11 2	20 53.22	−45 46.2	1.782	1.940	30.5	21.3	84 E	—	69*
11 7	21 2.12	−44 24.7	1.845	1.952	30.1	21.4	81 E	1	69*
11 12	21 11.08	−43 3.1	1.907	1.964	29.6	21.5	78 E	2	69*

215122 1999 LG_4

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 23	4 6.17	+15 50.9	1.299	2.215	12.2	19.0	152 E	61	48
1 2	4 0.43	+13 59.0	1.402	2.244	16.5	19.4	140 E	59	50
1 12	3 58.25	+12 36.9	1.525	2.273	19.7	19.7	129 E	58	51
1 22	3 59.35	+11 41.5	1.662	2.302	22.0	20.0	119 E	57	52
2 1	4 3.33	+11 8.0	1.808	2.329	23.5	20.2	109 E	56	53
2 11	4 9.75	+10 51.0	1.961	2.357	24.3	20.5	101 E	56	53*
2 21	4 18.18	+10 45.7	2.117	2.383	24.5	20.7	93 E	56	52*
3 2	4 28.28	+10 47.9	2.274	2.409	24.2	20.8	86 E	55*	50*
3 12	4 39.75	+10 54.2	2.428	2.434	23.6	21.0	79 E	53*	48*
3 22	4 52.33	+11 1.6	2.578	2.458	22.7	21.1	72 E	49*	46*
4 1	5 5.82	+11 8.1	2.722	2.481	21.5	21.2	66 E	44*	44*
4 11	5 20.05	+11 11.6	2.860	2.504	20.2	21.3	59 E	38*	41*
4 21	5 34.86	+11 10.8	2.989	2.525	18.7	21.3	54 E	31*	39*
5 1	5 50.13	+11 4.7	3.108	2.546	17.1	21.4	48 E	25*	36*
5 11	6 5.74	+10 52.2	3.218	2.566	15.4	21.4	43 E	18*	33*
5 21	6 21.60	+10 32.7	3.316	2.585	13.7	21.5	37 E	12*	30*
5 31	6 37.61	+10 5.9	3.403	2.603	12.0	21.5	32 E	5*	26*
6 10	6 53.71	+ 9 31.4	3.478	2.620	10.3	21.5	28 E	—	22*
6 20	7 9.81	+ 8 49.0	3.540	2.636	8.7	21.4	23 E	—	17*
6 30	7 25.86	+ 7 58.7	3.589	2.651	7.3	21.4	19 E	—	12*
7 10	7 41.80	+ 7 0.6	3.626	2.665	6.1	21.4	16 E	—	6*
7 20	7 57.58	+ 5 54.7	3.648	2.678	5.5	21.4	15 W	—	1*
7 30	8 13.16	+ 4 41.3	3.658	2.691	5.6	21.4	15 W	—	6*
8 9	8 28.47	+ 3 20.6	3.654	2.702	6.4	21.5	17 W	—	10*

217683 1999 RP_{36}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	4 7.05	+26 36.8	0.592	1.537	16.5	19.4	154 E	72	37
12 28	4 7.45	+26 56.7	0.634	1.561	19.0	19.6	149 E	72	37
1 2	4 8.94	+27 14.4	0.679	1.585	21.3	19.9	144 E	72	37
1 7	4 11.46	+27 30.3	0.728	1.609	23.3	20.1	140 E	73	36
1 12	4 14.93	+27 44.8	0.780	1.634	25.0	20.4	135 E	73	36
1 17	4 19.26	+27 58.2	0.836	1.659	26.4	20.6	131 E	73	36
1 22	4 24.36	+28 10.5	0.894	1.685	27.6	20.8	128 E	73	36
1 27	4 30.16	+28 21.8	0.955	1.711	28.6	21.0	124 E	73	36
2 1	4 36.59	+28 32.1	1.019	1.737	29.4	21.2	120 E	74	35
2 6	4 43.56	+28 41.3	1.085	1.763	30.0	21.4	117 E	74	35

101901 1999 QD_2

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	4 7.47	−23 4.8	1.015	1.779	26.7	19.8	126 E	22	87
12 28	4 3.93	−21 45.0	1.039	1.781	27.5	19.9	123 E	23	86
1 2	4 1.39	−20 15.5	1.065	1.782	28.3	19.9	121 E	25	84
1 7	3 59.88	−18 38.3	1.094	1.783	29.1	20.0	118 E	26	83
1 12	3 59.41	−16 55.4	1.126	1.784	29.9	20.1	115 E	28	81
1 17	3 59.93	−15 8.6	1.160	1.785	30.6	20.2	113 E	30	79
1 22	4 1.39	−13 19.4	1.196	1.786	31.2	20.3	110 E	32	77
1 27	4 3.76	−11 28.9	1.233	1.787	31.8	20.4	107 E	34	75
2 1	4 6.98	− 9 38.4	1.273	1.787	32.3	20.5	104 E	35	74
2 6	4 10.99	− 7 48.9	1.314	1.788	32.8	20.5	101 E	37	72*
2 11	4 15.71	− 6 1.2	1.357	1.788	33.1	20.6	98 E	39	70*
2 16	4 21.10	− 4 15.7	1.400	1.788	33.4	20.7	95 E	41	67*
2 21	4 27.11	− 2 33.2	1.444	1.788	33.5	20.8	93 E	42	65*
2 26	4 33.70	− 0 53.8	1.490	1.788	33.6	20.8	90 E	44	63*
3 2	4 40.81	+ 0 41.9	1.536	1.788	33.6	20.9	87 E	46*	60*
3 7	4 48.42	+ 2 13.7	1.582	1.787	33.6	21.0	85 E	47*	58*
3 12	4 56.47	+ 3 41.3	1.628	1.787	33.4	21.0	82 E	47*	56*
3 17	5 4.93	+ 5 4.6	1.675	1.786	33.2	21.1	80 E	47*	54*
3 22	5 13.79	+ 6 23.6	1.722	1.785	33.0	21.1	77 E	47*	53*
3 27	5 23.00	+ 7 37.9	1.768	1.784	32.6	21.2	75 E	46*	51*
4 1	5 32.55	+ 8 47.6	1.815	1.783	32.2	21.2	72 E	45*	49*
4 6	5 42.41	+ 9 52.5	1.861	1.782	31.8	21.3	70 E	44*	48*
4 11	5 52.55	+10 52.7	1.906	1.781	31.3	21.3	67 E	42*	46*
4 16	6 2.94	+11 48.0	1.951	1.779	30.8	21.3	65 E	41*	45*
4 21	6 13.58	+12 38.5	1.995	1.777	30.2	21.4	63 E	39*	44*
4 26	6 24.44	+13 24.2	2.039	1.776	29.6	21.4	61 E	37*	42*
5 1	6 35.50	+14 5.0	2.081	1.774	28.9	21.4	58 E	35*	41*
5 6	6 46.73	+14 41.0	2.123	1.772	28.2	21.4	56 E	33*	40*
5 11	6 58.13	+15 12.3	2.163	1.770	27.5	21.4	54 E	30*	39*
5 16	7 9.67	+15 38.8	2.202	1.767	26.8	21.5	52 E	28*	37*
5 21	7 21.34	+16 0.6	2.241	1.765	26.0	21.5	50 E	26*	36*
5 26	7 33.12	+16 17.9	2.277	1.762	25.2	21.5	48 E	24*	35*
5 31	7 44.99	+16 30.6	2.313	1.760	24.3	21.5	46 E	21*	34*
6 5	7 56.95	+16 38.9	2.347	1.757	23.5	21.5	44 E	19*	33*
6 10	8 8.96	+16 42.9	2.379	1.754	22.6	21.5	42 E	17*	31*
6 15	8 21.04	+16 42.7	2.410	1.751	21.7	21.5	40 E	16*	30*
6 20	8 33.15	+16 38.4	2.439	1.748	20.8	21.5	38 E	14*	28*
6 25	8 45.31	+16 30.2	2.467	1.745	19.9	21.5	36 E	12*	27*
6 30	8 57.49	+16 18.1	2.493	1.742	18.9	21.5	34 E	11*	26*
7 5	9 9.68	+16 2.4	2.517	1.739	18.0	21.4	32 E	10*	24*
7 10	9 21.88	+15 43.3	2.539	1.735	17.0	21.4	30 E	9*	22*
7 15	9 34.09	+15 20.7	2.560	1.732	16.1	21.4	28 E	8*	21*
7 20	9 46.31	+14 55.0	2.579	1.728	15.1	21.4	26 E	7*	19*
7 25	9 58.52	+14 26.3	2.596	1.725	14.2	21.4	25 E	6*	17*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		101901 1999 QD_2				*(continuation)*			
	h m	° ′			°	m	°	°	°
7 30	10 10.74	+13 54.7	2.611	1.721	13.2	21.3	23 E	6*	16*
8 4	10 22.96	+13 20.5	2.625	1.717	12.3	21.3	21 E	5*	14*
8 9	10 35.17	+12 43.8	2.636	1.713	11.3	21.3	19 E	5*	12*
8 14	10 47.40	+12 4.8	2.646	1.710	10.4	21.2	18 E	4*	11*
8 19	10 59.63	+11 23.7	2.654	1.706	9.5	21.2	16 E	4*	9*
8 24	11 11.88	+10 40.7	2.661	1.702	8.6	21.2	15 E	4*	7*
8 29	11 24.15	+ 9 55.9	2.665	1.698	7.8	21.1	13 E	4*	6*
9 3	11 36.43	+ 9 9.7	2.668	1.694	7.1	21.1	12 E	3*	4*
9 8	11 48.75	+ 8 22.2	2.669	1.690	6.4	21.1	11 E	3*	2*
9 13	12 1.10	+ 7 33.6	2.669	1.686	5.8	21.0	10 E	3*	1*
9 18	12 13.50	+ 6 44.0	2.667	1.682	5.4	21.0	9 E	3*	—
9 23	12 25.95	+ 5 53.9	2.663	1.678	5.2	21.0	9 E	3*	—
9 28	12 38.46	+ 5 3.2	2.658	1.674	5.2	21.0	9 E	3*	—
10 3	12 51.04	+ 4 12.4	2.651	1.670	5.3	21.0	9 E	2*	—
10 8	13 3.68	+ 3 21.6	2.643	1.666	5.7	21.0	9 E	2*	—
10 13	13 16.41	+ 2 31.1	2.634	1.662	6.2	21.0	10 E	2*	—
10 18	13 29.23	+ 1 41.0	2.623	1.658	6.8	21.0	11 W	2*	—
10 23	13 42.14	+ 0 51.7	2.612	1.654	7.4	21.0	12 W	4*	—
10 28	13 55.15	+ 0 3.5	2.599	1.650	8.2	21.0	14 W	6*	—
11 2	14 8.25	− 0 43.5	2.585	1.646	8.9	21.0	15 W	8*	—
11 7	14 21.46	− 1 29.0	2.570	1.642	9.7	21.1	16 W	9*	—
11 12	14 34.78	− 2 12.7	2.554	1.639	10.5	21.1	18 W	11*	—
11 17	14 48.20	− 2 54.4	2.538	1.635	11.4	21.1	19 W	13*	—
11 22	15 1.73	− 3 33.8	2.520	1.631	12.2	21.1	20 W	14*	—
11 27	15 15.36	− 4 10.7	2.502	1.628	13.0	21.1	22 W	16*	—
12 2	15 29.09	− 4 44.8	2.484	1.625	13.8	21.1	23 W	17*	—
12 7	15 42.91	− 5 16.0	2.465	1.621	14.6	21.1	25 W	19*	1*
12 12	15 56.81	− 5 44.1	2.445	1.618	15.4	21.1	26 W	20*	3*
12 17	16 10.79	− 6 8.7	2.425	1.615	16.3	21.1	27 W	21*	5*
12 22	16 24.83	− 6 29.9	2.404	1.612	17.0	21.1	29 W	22*	7*
12 27	16 38.92	− 6 47.3	2.383	1.609	17.8	21.1	30 W	23*	9*
1 1	16 53.04	− 7 1.0	2.361	1.606	18.6	21.2	31 W	23*	11*
1 6	17 7.19	− 7 10.9	2.339	1.604	19.4	21.2	33 W	24*	13*
1 11	17 21.35	− 7 16.9	2.317	1.601	20.2	21.2	34 W	25*	15*
1 16	17 35.49	− 7 19.0	2.295	1.599	20.9	21.2	35 W	25*	17*
		216646 2003 QT_{56}							
12 23	4 7.92	+10 10.5	1.549	2.449	11.7	20.7	150 E	55	54
1 2	4 1.18	+10 37.1	1.643	2.468	15.3	21.0	139 E	56	53
1 12	3 57.53	+11 14.5	1.757	2.487	18.1	21.2	128 E	56	53
1 22	3 56.98	+12 0.4	1.885	2.505	20.3	21.5	118 E	57	52
2 1	3 59.31	+12 52.3	2.024	2.522	21.7	21.7	109 E	58	51
		191600 2004 FW_{146}							
12 23	4 8.68	+ 9 8.0	1.860	2.751	10.5	20.6	149 E	54	55
1 2	4 2.31	+ 9 12.3	1.963	2.775	13.6	20.9	138 E	54	55
1 12	3 58.61	+ 9 29.0	2.086	2.798	16.1	21.1	128 E	54	55
1 22	3 57.58	+ 9 56.1	2.224	2.820	18.0	21.3	118 E	55	54
2 1	3 59.11	+10 31.0	2.374	2.841	19.2	21.5	108 E	56	53
		450257 2003 WA							
12 23	4 9.68	+ 5 29.9	0.547	1.475	21.0	20.5	147 E	50	59
12 28	4 12.36	+ 4 43.0	0.574	1.483	23.5	20.7	143 E	50	59
1 2	4 15.83	+ 4 10.8	0.604	1.493	25.6	20.8	139 E	49	60
1 7	4 20.07	+ 3 51.6	0.638	1.504	27.5	21.0	135 E	49	60
1 12	4 25.04	+ 3 43.7	0.673	1.516	29.0	21.2	132 E	49	60
1 17	4 30.69	+ 3 45.3	0.712	1.530	30.4	21.4	128 E	49	60
		334625 2002 VL_{15}							
12 23	4 10.87	+42 2.9	1.817	2.715	10.3	20.3	150 E	87	22
12 28	4 4.94	+42 1.5	1.868	2.736	11.7	20.5	146 E	87	22
1 2	3 59.96	+41 56.6	1.925	2.756	13.1	20.6	141 E	87	22
1 7	3 56.00	+41 49.1	1.987	2.776	14.4	20.7	136 E	87	22
1 12	3 53.05	+41 40.3	2.054	2.795	15.5	20.8	131 E	87	22
1 17	3 51.10	+41 30.8	2.125	2.815	16.5	21.0	126 E	87	22
1 22	3 50.11	+41 21.5	2.200	2.834	17.3	21.1	121 E	86	23
1 27	3 50.03	+41 12.7	2.278	2.853	18.0	21.2	116 E	86	23
2 1	3 50.80	+41 4.9	2.358	2.872	18.6	21.3	112 E	86	23*
2 6	3 52.37	+40 58.4	2.441	2.891	19.0	21.4	107 E	86	23*
		459046 2012 AS_{10}							
12 23	4 11.23	+30 17.7	1.407	2.333	10.5	20.3	154 E	75	34
12 28	4 3.80	+30 6.9	1.433	2.326	13.0	20.5	148 E	75	34
1 2	3 57.37	+29 54.6	1.464	2.317	15.3	20.6	142 E	75	34
1 7	3 52.03	+29 41.9	1.501	2.308	17.3	20.7	136 E	75	34
1 12	3 47.83	+29 29.8	1.543	2.299	19.2	20.8	130 E	74	35
1 17	3 44.76	+29 19.0	1.588	2.289	20.9	20.9	124 E	74	35
1 22	3 42.81	+29 10.0	1.637	2.278	22.3	21.0	119 E	74	35
1 27	3 41.92	+29 3.3	1.688	2.266	23.5	21.1	113 E	74	35
2 1	3 42.05	+28 58.9	1.741	2.254	24.5	21.2	108 E	74	35*
2 6	3 43.12	+28 57.1	1.794	2.241	25.3	21.3	104 E	74	34*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		459046 2012 AS_{10}				*(continuation)*			
	h m	° ′			°	m	°	°	°
2 11	3 45.07	+28 57.7	1.849	2.227	25.9	21.4	99 E	74	34*
2 16	3 47.83	+29 0.6	1.903	2.213	26.4	21.4	95 E	74	33*
2 21	3 51.34	+29 5.5	1.957	2.198	26.7	21.5	90 E	74*	32*
		346892 2009 RY_{42}							
12 23	4 11.53	+11 33.8	0.699	1.631	17.0	19.4	151 E	57	52
1 2	4 11.25	+11 28.2	0.757	1.644	22.0	19.7	141 E	56	53
1 12	4 14.95	+11 47.3	0.829	1.659	26.0	20.1	132 E	57	52
1 22	4 22.35	+12 24.4	0.913	1.677	29.0	20.4	124 E	57	52
1 27	4 27.31	+12 47.5	0.959	1.687	30.2	20.5	121 E	58	51
2 1	4 33.02	+13 12.5	1.006	1.698	31.1	20.7	117 E	58	51
2 6	4 39.41	+13 38.8	1.056	1.709	31.9	20.8	114 E	59	50
2 11	4 46.42	+14 5.5	1.108	1.721	32.5	21.0	110 E	59	50
2 16	4 53.97	+14 32.1	1.161	1.733	33.0	21.1	107 E	60	49
2 21	5 2.02	+14 58.0	1.216	1.745	33.3	21.2	104 E	60	49*
2 26	5 10.50	+15 22.8	1.272	1.758	33.5	21.3	101 E	60	49*
3 2	5 19.38	+15 46.0	1.329	1.771	33.6	21.5	98 E	61	48*
		515614 2014 KF_{45}							
12 23	4 11.83	+50 26.8	1.910	2.777	11.6	21.1	146 E	85	14
12 28	4 5.30	+50 11.8	1.956	2.796	12.5	21.2	142 E	85	14
1 2	3 59.85	+49 52.3	2.008	2.815	13.6	21.3	138 E	85	14
1 7	3 55.54	+49 29.7	2.065	2.834	14.5	21.5	134 E	86	15
1 12	3 52.36	+49 5.4	2.127	2.853	15.5	21.6	129 E	86	15
		291907 2006 QU_{10}							
12 23	4 13.99	+ 7 26.3	1.117	2.027	14.3	21.0	149 E	52	57
1 2	4 8.98	+ 8 2.8	1.206	2.054	18.2	21.3	139 E	53	56
1 12	4 7.53	+ 8 54.3	1.312	2.082	21.3	21.6	130 E	54	55
1 22	4 9.47	+ 9 55.7	1.432	2.110	23.7	21.9	121 E	55	54
2 1	4 14.49	+11 2.6	1.562	2.137	25.3	22.2	112 E	56	53
		218818 2006 SA_{263}							
12 23	4 15.33	+16 47.5	1.556	2.478	10.0	20.9	154 E	62	47
1 2	4 8.13	+16 39.1	1.645	2.497	13.9	21.2	142 E	62	47
1 12	4 4.06	+16 40.8	1.755	2.514	17.1	21.4	131 E	62	47
1 22	4 3.14	+16 52.0	1.881	2.531	19.5	21.7	121 E	62	47
2 1	4 5.19	+17 11.6	2.018	2.547	21.1	21.9	111 E	62	47
		144922 2005 CK_{38}							
12 23	4 15.92	+33 4.8	1.770	2.693	9.0	21.3	155 E	78	31
12 28	4 10.11	+32 45.3	1.786	2.678	10.9	21.4	149 E	78	31
1 2	4 5.03	+32 24.2	1.809	2.662	12.8	21.5	143 E	77	32
1 7	4 0.77	+32 2.4	1.837	2.647	14.5	21.6	137 E	77	32
1 12	3 57.39	+31 40.9	1.871	2.631	16.2	21.6	132 E	77	32
		176069 2000 WG_{68}							
12 23	4 15.93	+20 8.0	1.424	2.353	10.1	20.1	155 E	65	44
1 2	4 8.98	+19 32.4	1.515	2.376	14.4	20.4	143 E	65	44
1 12	4 5.41	+19 8.4	1.625	2.398	17.7	20.7	132 E	64	45
1 22	4 5.17	+18 56.5	1.752	2.420	20.2	20.9	122 E	64	45
2 1	4 7.99	+18 55.4	1.890	2.440	21.9	21.2	112 E	64	45
2 11	4 13.50	+19 3.1	2.035	2.460	23.0	21.4	103 E	64	45*
		66419 1999 NR_{13}							
12 23	4 16.32	+36 24.4	1.215	2.142	11.7	17.0	154 E	81	28
12 28	4 10.86	+35 6.1	1.219	2.122	13.9	17.1	149 E	80	29
1 2	4 6.43	+33 45.6	1.229	2.102	16.2	17.1	143 E	79	30
1 7	4 3.11	+32 25.0	1.244	2.082	18.4	17.2	138 E	77	32
1 12	4 0.95	+31 6.2	1.265	2.061	20.6	17.3	133 E	76	33
1 17	3 59.93	+29 50.5	1.289	2.041	22.5	17.4	127 E	75	34
1 22	4 0.05	+28 38.9	1.317	2.021	24.3	17.5	122 E	74	35
1 27	4 1.24	+27 32.0	1.348	2.001	25.9	17.5	117 E	73	36
2 1	4 3.46	+26 30.3	1.381	1.981	27.3	17.6	113 E	72	37
2 11	4 10.69	+24 41.9	1.453	1.942	29.6	17.7	104 E	70	39*
2 21	4 21.14	+23 11.6	1.528	1.903	31.1	17.9	96 E	68	40*
3 2	4 34.35	+21 55.6	1.604	1.865	32.1	17.9	89 E	66*	40*
3 12	4 49.87	+20 49.5	1.678	1.828	32.6	18.0	82 E	63*	40*
3 22	5 7.34	+19 48.8	1.749	1.792	32.7	18.1	76 E	58*	40*
4 1	5 26.49	+18 49.4	1.815	1.758	32.4	18.1	71 E	53*	40*
4 11	5 47.05	+17 47.7	1.876	1.726	32.0	18.1	66 E	47*	40*
4 21	6 8.80	+16 40.6	1.932	1.696	31.3	18.1	61 E	41*	40*
5 1	6 31.57	+15 25.6	1.983	1.668	30.5	18.1	57 E	35*	39*
5 11	6 55.19	+14 0.8	2.028	1.643	29.6	18.1	54 E	29*	39*
5 21	7 19.50	+12 24.6	2.069	1.621	28.7	18.1	50 E	23*	39*
5 31	7 44.41	+10 36.3	2.107	1.602	27.7	18.1	47 E	17*	38*
6 10	8 9.77	+ 8 35.6	2.141	1.587	26.7	18.1	45 E	12*	37*
6 20	8 35.53	+ 6 22.9	2.174	1.576	25.6	18.0	42 E	7*	36*
6 30	9 1.61	+ 3 58.8	2.206	1.568	24.6	18.0	40 E	3*	34*
7 10	9 27.96	+ 1 24.9	2.237	1.565	23.5	18.0	38 E	—	32*

66419 1999 NR_{13} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 20	9 54.55	− 1 17.1	2.270	1.565	22.4	18.0	36 E	—	30*
7 30	10 21.39	− 4 4.9	2.304	1.570	21.3	18.0	34 E	—	27*
8 9	10 48.45	− 6 55.9	2.340	1.579	20.0	18.0	32 E	—	25*
8 19	11 15.75	− 9 47.2	2.380	1.591	18.8	18.1	30 E	—	22*
8 29	11 43.29	−12 36.1	2.422	1.608	17.4	18.1	28 E	—	20*
9 8	12 11.09	−15 19.5	2.467	1.627	16.0	18.1	26 E	—	17*
9 18	12 39.14	−17 54.7	2.515	1.650	14.5	18.1	24 E	—	15*
9 28	13 7.42	−20 19.2	2.564	1.676	12.9	18.1	22 E	—	13*
10 8	13 35.89	−22 30.6	2.615	1.705	11.2	18.1	19 E	—	10*
10 18	14 4.51	−24 27.0	2.666	1.736	9.5	18.2	17 E	—	8*
10 28	14 33.19	−26 7.0	2.715	1.769	7.9	18.2	14 E	—	5*
11 7	15 1.80	−27 29.5	2.763	1.803	6.3	18.2	12 E	—	2*
11 17	15 30.23	−28 33.7	2.807	1.839	5.1	18.2	10 E	—	—
11 27	15 58.31	−29 19.7	2.846	1.877	4.6	18.2	9 W	—	1*
12 7	16 25.88	−29 47.4	2.879	1.915	5.0	18.3	10 W	—	3*
12 17	16 52.79	−29 57.7	2.904	1.954	6.1	18.4	12 W	—	6*
12 27	17 18.87	−29 51.4	2.922	1.994	7.7	18.6	16 W	—	10*
1 6	17 43.99	−29 29.6	2.930	2.034	9.5	18.7	20 W	1*	14*
1 16	18 8.02	−28 54.0	2.927	2.074	11.4	18.8	25 W	3*	18*

376842 2001 QM_{259}

12 23	4 16.78	+55 14.1	2.096	2.939	11.7	21.4	143 E	80	9
12 28	4 10.18	+54 32.2	2.117	2.940	12.4	21.4	140 E	80	9
1 2	4 4.64	+53 45.4	2.145	2.939	13.2	21.5	137 E	81	10
1 7	4 0.23	+52 55.4	2.178	2.939	14.1	21.5	133 E	82	11
1 12	3 56.97	+52 3.4	2.215	2.938	15.0	21.6	129 E	83	12

283393 2000 RO_{49}

12 23	4 18.10	−25 34.0	0.682	1.484	33.0	17.8	125 E	19	90
12 28	4 18.85	−25 1.3	0.696	1.481	33.9	17.9	123 E	20	89
1 2	4 20.49	−24 11.7	0.711	1.481	34.7	17.9	121 E	21	88
1 7	4 23.06	−23 7.4	0.728	1.481	35.4	18.0	119 E	22	87
1 12	4 26.56	−21 50.4	0.746	1.483	36.1	18.1	117 E	23	86
1 17	4 30.97	−20 22.6	0.765	1.486	36.6	18.2	116 E	25	84
1 22	4 36.27	−18 45.9	0.786	1.490	37.0	18.2	114 E	26	83
1 27	4 42.42	−17 2.1	0.809	1.496	37.4	18.3	113 E	28	81
2 1	4 49.37	−15 13.1	0.833	1.503	37.7	18.4	111 E	30	79
2 6	4 57.07	−13 20.8	0.859	1.511	37.9	18.5	110 E	32	77
2 11	5 5.44	−11 26.7	0.887	1.520	38.0	18.6	108 E	34	75
2 16	5 14.42	− 9 32.3	0.917	1.531	38.1	18.7	107 E	35	74
2 21	5 23.95	− 7 39.1	0.949	1.542	38.2	18.8	105 E	37	72
2 26	5 33.99	− 5 48.3	0.984	1.555	38.2	18.9	104 E	39	70
3 2	5 44.47	− 4 1.1	1.021	1.568	38.1	19.0	102 E	41	68
3 7	5 55.33	− 2 18.6	1.060	1.583	38.0	19.0	101 E	43	66
3 12	6 6.52	− 0 41.6	1.102	1.598	37.8	19.1	99 E	44	65
3 22	6 29.66	+ 2 13.5	1.192	1.631	37.4	19.4	96 E	47*	62*
4 1	6 53.53	+ 4 40.6	1.293	1.667	36.8	19.6	92 E	49*	59*
4 11	7 17.77	+ 6 38.1	1.402	1.706	36.0	19.8	89 E	49*	57*
4 21	7 42.06	+ 8 6.4	1.519	1.747	35.0	20.0	85 E	47*	56*
5 1	8 6.21	+ 9 7.2	1.643	1.789	33.8	20.1	81 E	45*	54*
5 11	8 29.99	+ 9 42.7	1.772	1.833	32.5	20.3	77 E	41*	53*
5 21	8 53.29	+ 9 56.0	1.906	1.878	31.0	20.5	73 E	37*	52*
5 31	9 16.03	+ 9 49.7	2.043	1.924	29.4	20.7	69 E	33*	51*
6 10	9 38.16	+ 9 26.8	2.181	1.970	27.7	20.8	64 E	28*	50*
6 20	9 59.66	+ 8 50.1	2.320	2.016	25.9	20.9	60 E	24*	48*
6 30	10 20.57	+ 8 1.9	2.458	2.063	24.0	21.0	56 E	20*	46*
7 10	10 40.89	+ 7 4.7	2.593	2.110	22.0	21.2	51 E	16*	43*
7 20	11 0.69	+ 6 0.2	2.725	2.157	20.0	21.2	47 E	14*	39*
7 30	11 20.01	+ 4 50.4	2.852	2.203	17.9	21.3	42 E	11*	35*
8 9	11 38.88	+ 3 36.8	2.972	2.249	15.8	21.4	37 E	9*	31*
8 19	11 57.37	+ 2 20.9	3.085	2.294	13.6	21.4	32 E	8*	26*
8 29	12 15.53	+ 1 4.0	3.189	2.339	11.5	21.5	27 E	6*	21*
9 8	12 33.37	− 0 12.7	3.283	2.383	9.3	21.5	22 E	5*	16*
9 18	12 50.96	− 1 28.1	3.367	2.427	7.1	21.5	17 E	4*	11*
9 28	13 8.30	− 2 41.1	3.438	2.469	5.0	21.5	12 E	2*	5*
10 8	13 25.41	− 3 50.8	3.497	2.511	3.1	21.4	8 E	1*	—
10 18	13 42.30	− 4 56.3	3.543	2.552	2.1	21.4	5 E	—	—

137032 1998 UO_1

12 23	4 18.90	+60 15.2	1.842	2.664	14.0	20.9	139 E	75	4
12 25	4 13.39	+59 58.3	1.844	2.658	14.3	20.9	138 E	75	4
12 27	4 8.11	+59 39.6	1.847	2.652	14.7	20.9	137 E	75	4
12 29	4 3.10	+59 19.1	1.851	2.646	15.0	20.9	136 E	76	5
12 31	3 58.37	+58 57.2	1.855	2.639	15.4	20.9	134 E	76	5
1 2	3 53.92	+58 33.9	1.861	2.633	15.8	20.9	133 E	76	5
1 7	3 44.14	+57 31.0	1.880	2.616	16.9	21.0	129 E	77	6
1 12	3 36.26	+56 23.5	1.903	2.598	18.0	21.0	125 E	79	8
1 17	3 30.23	+55 13.8	1.932	2.580	19.1	21.1	121 E	80	9
1 22	3 25.92	+54 4.0	1.964	2.560	20.1	21.1	117 E	81	10
1 27	3 23.22	+52 55.7	2.000	2.540	21.0	21.2	112 E	82	11*

137032 1998 UO_1 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
2 1	3 21.96	+51 50.2	2.038	2.519	21.9	21.2	108 E	83	12*
2 6	3 21.99	+50 48.3	2.078	2.497	22.6	21.3	103 E	84	12*
2 11	3 23.17	+49 50.5	2.120	2.474	23.2	21.3	99 E	85	13*
2 16	3 25.36	+48 57.1	2.162	2.451	23.7	21.3	95 E	85*	13*
2 21	3 28.46	+48 8.1	2.204	2.426	24.1	21.4	91 E	83*	13*
2 26	3 32.39	+47 23.5	2.246	2.401	24.3	21.4	87 E	80*	13*
3 2	3 37.05	+46 43.1	2.287	2.374	24.5	21.4	83 E	76*	13*
3 7	3 42.38	+46 6.6	2.327	2.347	24.5	21.4	79 E	72*	12*
3 12	3 48.31	+45 33.6	2.365	2.319	24.5	21.4	75 E	69*	12*
3 17	3 54.78	+45 3.7	2.401	2.289	24.3	21.4	72 E	65*	12*
3 22	4 1.77	+44 36.6	2.434	2.259	24.1	21.4	68 E	62*	12*
3 27	4 9.24	+44 11.9	2.465	2.228	23.9	21.4	65 E	59*	11*
4 1	4 17.16	+43 49.2	2.492	2.195	23.5	21.4	61 E	55*	11*
4 6	4 25.50	+43 28.0	2.517	2.162	23.1	21.4	58 E	52*	10*
4 11	4 34.22	+43 8.0	2.538	2.127	22.7	21.3	55 E	49*	10*
4 16	4 43.33	+42 48.6	2.555	2.092	22.2	21.3	52 E	46*	10*
4 21	4 52.80	+42 29.6	2.569	2.055	21.7	21.3	49 E	43*	9*
4 26	5 2.62	+42 10.6	2.578	2.017	21.1	21.2	46 E	40*	9*
5 1	5 12.78	+41 51.1	2.584	1.978	20.5	21.2	43 E	37*	8*
5 6	5 23.27	+41 30.7	2.586	1.937	19.9	21.1	41 E	35*	8*
5 11	5 34.07	+41 9.0	2.583	1.896	19.2	21.0	38 E	32*	7*
5 16	5 45.19	+40 45.6	2.577	1.853	18.6	20.9	36 E	29*	7*
5 21	5 56.62	+40 20.0	2.566	1.808	17.9	20.9	33 E	27*	6*
5 26	6 8.36	+39 52.0	2.551	1.762	17.3	20.8	31 E	25*	5*
5 31	6 20.39	+39 20.9	2.531	1.715	16.6	20.7	29 E	22*	5*
6 5	6 32.72	+38 46.4	2.508	1.666	15.9	20.6	27 E	20*	4*
6 10	6 45.34	+38 7.8	2.480	1.615	15.3	20.5	25 E	18*	3*
6 20	7 11.48	+36 36.4	2.413	1.509	14.0	20.2	21 E	15*	2*
6 30	7 38.84	+34 41.7	2.329	1.396	12.9	19.9	18 E	11*	—
7 10	8 7.47	+32 17.5	2.230	1.275	11.9	19.6	15 E	9*	—
7 15	8 22.30	+30 52.0	2.175	1.211	11.4	19.4	14 E	7*	—
7 20	8 37.51	+29 15.8	2.116	1.145	11.0	19.2	12 E	6*	—
7 25	8 53.13	+27 27.8	2.054	1.076	10.6	19.0	11 E	5*	—
7 30	9 9.20	+25 26.2	1.989	1.005	10.2	18.8	10 E	4*	—
8 4	9 25.78	+23 9.0	1.921	0.932	9.8	18.5	9 E	3*	—
8 9	9 42.96	+20 34.1	1.849	0.856	9.4	18.2	8 E	2*	—
8 14	10 0.82	+17 38.8	1.774	0.778	9.1	17.9	7 E	1*	—
8 19	10 19.53	+14 20.0	1.695	0.698	9.4	17.6	6 E	—	—
8 24	10 39.24	+10 34.4	1.611	0.618	10.9	17.3	7 E	—	—
8 29	11 0.19	+ 6 18.9	1.521	0.539	15.0	17.0	8 E	—	2*
9 8	11 46.86	− 3 42.6	1.311	0.410	35.8	16.7	14 E	—	7*
9 18	12 40.43	−14 18.2	1.047	0.387	73.0	17.2	22 E	—	14*
9 28	13 43.40	−22 25.6	0.788	0.494	100.3	18.2	29 E	—	21*
9 30	13 58.26	−23 39.7	0.744	0.523	103.1	18.3	31 E	—	23*
10 2	14 14.24	−24 45.4	0.702	0.554	105.1	18.4	32 E	—	25*
10 4	14 31.49	−25 42.2	0.664	0.585	106.3	18.5	34 E	—	27*
10 6	14 50.14	−26 28.7	0.629	0.617	106.7	18.5	36 E	—	29*
10 8	15 10.25	−27 3.3	0.598	0.649	106.5	18.5	39 E	—	32*
10 10	15 31.82	−27 23.9	0.570	0.681	105.5	18.5	41 E	2*	35*
10 12	15 54.76	−27 28.4	0.547	0.713	103.9	18.4	44 E	5*	38*
10 14	16 18.85	−27 14.8	0.528	0.745	101.8	18.3	47 E	7*	41*
10 16	16 43.76	−26 41.7	0.513	0.777	99.1	18.2	50 E	10*	44*
10 18	17 9.07	−25 48.7	0.503	0.809	96.0	18.1	54 E	12*	48*
10 20	17 34.29	−24 36.6	0.498	0.840	92.7	18.0	57 E	15*	51*
10 22	17 58.95	−23 7.8	0.497	0.871	89.1	17.9	61 E	18*	54*
10 24	18 22.65	−21 25.8	0.501	0.901	85.4	17.9	65 E	21*	57*
10 26	18 45.06	−19 34.5	0.508	0.931	81.7	17.8	68 E	24*	60*
10 28	19 6.01	−17 38.1	0.520	0.961	78.1	17.8	71 E	27*	61*
10 30	19 25.41	−15 40.2	0.536	0.990	74.6	17.8	74 E	29*	63*
11 1	19 43.25	−13 43.9	0.554	1.019	71.4	17.9	77 E	31*	64*
11 3	19 59.61	−11 51.4	0.576	1.047	68.4	17.9	79 E	33*	64*
11 5	20 14.58	−10 4.2	0.600	1.075	65.6	18.0	81 E	35	64*
11 7	20 28.29	− 8 23.0	0.627	1.103	63.0	18.0	83 E	37	64*
11 12	20 57.84	− 4 38.2	0.700	1.171	57.5	18.2	86 E	40	62*
11 17	21 22.06	− 1 30.9	0.783	1.236	53.1	18.5	88 E	43	60*
11 22	21 42.40	+ 1 5.1	0.871	1.299	49.5	18.7	88 E	46	57*
11 27	21 59.88	+ 3 16.7	0.964	1.360	46.5	18.9	88 E	48	54*
12 2	22 15.25	+ 5 9.5	1.059	1.418	44.0	19.2	88 E	50	52*
12 7	22 29.04	+ 6 47.9	1.157	1.475	41.8	19.4	87 E	52	49*
12 12	22 41.63	+ 8 15.4	1.257	1.530	39.9	19.6	85 E	53	46*
12 17	22 53.32	+ 9 34.4	1.358	1.584	38.1	19.8	83 E	55	43*
12 22	23 4.30	+10 47.1	1.459	1.635	36.5	20.0	82 E	56	41*
12 27	23 14.72	+11 54.7	1.561	1.685	35.0	20.1	79 E	57*	38*
1 1	23 24.70	+12 58.3	1.663	1.733	33.6	20.3	77 E	58*	35*
1 6	23 34.32	+13 58.8	1.764	1.780	32.2	20.4	75 E	58*	32*
1 11	23 43.65	+14 56.8	1.865	1.825	30.9	20.6	72 E	58*	30*
1 16	23 52.77	+15 52.9	1.965	1.869	29.6	20.7	70 E	58*	27*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	275618 2000 AU_{242}								
	h m	° ′			°	m	°	°	°
12 23	4 19.06	+13 14.4	3.622	4.523	5.6	20.4	153 E	58	51
1 2	4 13.83	+13 2.4	3.663	4.483	7.7	20.5	142 E	58	51
1 12	4 9.84	+12 56.5	3.729	4.442	9.5	20.6	131 E	58	51
1 22	4 7.33	+12 56.9	3.814	4.401	11.1	20.7	121 E	58	51
2 1	4 6.44	+13 3.4	3.913	4.359	12.2	20.8	111 E	58	51
2 11	4 7.20	+13 15.2	4.022	4.318	13.0	20.9	101 E	58	50*
2 21	4 9.55	+13 31.7	4.135	4.276	13.4	20.9	91 E	59	48*
3 2	4 13.40	+13 51.7	4.249	4.234	13.4	21.0	82 E	58*	46*
3 12	4 18.65	+14 14.1	4.358	4.191	13.2	21.0	74 E	54*	42*
3 22	4 25.15	+14 37.9	4.461	4.149	12.6	21.0	66 E	48*	39*
4 1	4 32.79	+15 2.0	4.553	4.106	11.9	21.0	58 E	41*	36*
4 11	4 41.42	+15 25.5	4.634	4.063	10.9	21.0	50 E	34*	32*
4 21	4 50.94	+15 47.5	4.701	4.020	9.7	20.9	43 E	27*	28*
5 1	5 1.23	+16 7.2	4.753	3.977	8.5	20.9	36 E	20*	24*
5 11	5 12.18	+16 23.8	4.789	3.933	7.1	20.8	29 E	13*	19*
5 21	5 23.72	+16 36.7	4.809	3.890	5.6	20.7	22 E	6*	15*
5 31	5 35.74	+16 45.4	4.812	3.846	4.1	20.6	16 E	—	10*
6 10	5 48.15	+16 49.4	4.797	3.802	2.7	20.5	10 E	—	4*
6 20	6 0.89	+16 48.4	4.766	3.758	1.8	20.4	7 E	—	—
6 30	6 13.87	+16 41.9	4.717	3.714	2.3	20.4	8 W	—	2*
7 10	6 27.01	+16 29.8	4.653	3.671	3.6	20.4	13 W	—	7*
7 20	6 40.24	+16 11.9	4.572	3.627	5.2	20.4	19 W	3*	12*
7 30	6 53.48	+15 48.2	4.477	3.583	6.9	20.4	25 W	9*	17*
8 9	7 6.64	+15 18.7	4.367	3.539	8.5	20.4	31 W	15*	21*
8 19	7 19.64	+14 43.6	4.244	3.495	10.1	20.4	37 W	22*	25*
8 29	7 32.40	+14 3.0	4.109	3.451	11.7	20.4	44 W	28*	29*
9 8	7 44.82	+13 17.3	3.963	3.408	13.1	20.3	50 W	35*	32*
9 18	7 56.79	+12 27.0	3.807	3.365	14.5	20.3	57 W	40*	36*
9 28	8 8.21	+11 32.6	3.643	3.322	15.7	20.2	64 W	46*	39*
10 8	8 18.93	+10 34.9	3.472	3.279	16.7	20.1	71 W	50*	43*
10 18	8 28.83	+ 9 34.8	3.297	3.236	17.5	20.0	78 W	53*	46*
10 28	8 37.73	+ 8 33.5	3.119	3.194	18.1	19.8	85 W	54*	50*
11 7	8 45.45	+ 7 32.1	2.941	3.152	18.3	19.7	93 W	53	54*
11 17	8 51.78	+ 6 32.5	2.766	3.111	18.2	19.5	101 W	52	57*
11 27	8 56.50	+ 5 36.5	2.596	3.071	17.6	19.3	110 W	51	58
12 7	8 59.42	+ 4 46.3	2.434	3.031	16.6	19.1	118 W	50	59
12 17	9 0.33	+ 4 4.6	2.285	2.991	15.1	18.9	128 W	49	60
12 27	8 59.14	+ 3 34.0	2.151	2.952	13.0	18.7	138 W	49	60
1 6	8 55.91	+ 3 17.0	2.037	2.915	10.5	18.4	147 W	48	61
1 16	8 50.87	+ 3 15.6	1.946	2.878	7.7	18.2	157 W	48	61
	173561 2000 YV_{137}								
12 23	4 19.70	−42 50.4	0.591	1.307	45.2	19.5	110 E	2	73
12 28	4 18.39	−38 26.4	0.605	1.330	43.5	19.5	112 E	7	78
1 2	4 18.27	−33 55.3	0.622	1.353	42.0	19.6	113 E	11	82
1 7	4 19.25	−29 21.8	0.643	1.377	40.7	19.6	114 E	16	87
1 12	4 21.23	−24 50.5	0.668	1.400	39.7	19.7	115 E	20	89
1 17	4 24.11	−20 25.7	0.698	1.422	39.0	19.8	114 E	25	84
1 22	4 27.82	−16 10.9	0.732	1.445	38.5	20.0	114 E	29	80
1 27	4 32.28	−12 8.6	0.770	1.467	38.2	20.1	113 E	33	76
2 1	4 37.44	− 8 21.0	0.813	1.489	38.0	20.2	111 E	37	72
2 6	4 43.23	− 4 49.1	0.860	1.510	38.0	20.4	110 E	40	69
2 11	4 49.58	− 1 33.3	0.910	1.531	37.9	20.5	108 E	43	66
2 16	4 56.43	+ 1 26.6	0.963	1.551	37.9	20.7	105 E	46	63
2 21	5 3.75	+ 4 11.0	1.020	1.571	37.8	20.8	103 E	49	60
2 26	5 11.50	+ 6 40.8	1.078	1.591	37.7	21.0	100 E	52	57*
3 2	5 19.64	+ 8 56.8	1.140	1.609	37.6	21.1	98 E	54	55*
3 7	5 28.13	+10 59.8	1.203	1.628	37.4	21.3	95 E	56	53*
3 12	5 36.94	+12 50.7	1.267	1.646	37.1	21.4	93 E	58*	51*
	129248 2005 QV_{33}								
12 23	4 19.75	+24 0.3	1.401	2.336	9.7	20.7	157 E	69	40
12 28	4 15.77	+23 45.9	1.444	2.351	11.9	20.9	151 E	69	40
1 2	4 12.64	+23 32.9	1.493	2.365	13.9	21.0	145 E	69	40
1 7	4 10.38	+23 21.7	1.548	2.379	15.7	21.2	139 E	68	41
1 12	4 9.01	+23 12.7	1.606	2.393	17.3	21.3	134 E	68	41
1 17	4 8.50	+23 5.8	1.669	2.407	18.7	21.5	128 E	68	41
	247925 2003 WD_{87}								
12 23	4 21.89	+43 48.9	1.003	1.923	14.4	17.8	151 E	89	20
12 28	4 18.98	+42 51.5	1.040	1.942	15.8	18.0	148 E	88	21
1 2	4 17.27	+41 53.0	1.081	1.962	17.3	18.1	144 E	87	22
1 7	4 16.76	+40 55.0	1.127	1.981	18.8	18.3	140 E	86	23
1 12	4 17.38	+39 58.8	1.178	2.001	20.2	18.5	135 E	85	24
1 17	4 19.04	+39 5.2	1.233	2.021	21.5	18.6	131 E	84	25
1 22	4 21.66	+38 14.7	1.291	2.041	22.6	18.8	127 E	83	26
1 27	4 25.15	+37 27.7	1.353	2.061	23.6	18.9	123 E	82	27
2 1	4 29.42	+36 44.3	1.417	2.082	24.4	19.1	119 E	82	27
2 6	4 34.38	+36 4.2	1.485	2.102	25.1	19.2	115 E	81	28
2 11	4 39.95	+35 27.4	1.555	2.123	25.7	19.4	111 E	80	29
2 16	4 46.04	+34 53.3	1.626	2.143	26.1	19.5	108 E	80	29*
2 21	4 52.60	+34 21.8	1.700	2.164	26.3	19.6	104 E	79	30*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	247925 2003 WD_{87} *(continuation)*								
	h m	° ′			°	m	°	°	°
3 2	5 6.89	+33 24.8	1.852	2.205	26.5	19.9	97 E	78	30*
3 12	5 22.40	+32 33.7	2.008	2.247	26.2	20.1	90 E	76*	31*
3 22	5 38.80	+31 45.7	2.167	2.288	25.7	20.2	84 E	72*	31*
4 1	5 55.85	+30 58.7	2.326	2.329	24.8	20.4	78 E	66*	31*
4 11	6 13.32	+30 10.9	2.484	2.370	23.7	20.6	72 E	60*	31*
4 21	6 31.03	+29 21.1	2.640	2.410	22.4	20.7	66 E	53*	31*
5 1	6 48.85	+28 28.2	2.791	2.450	20.9	20.8	60 E	47*	30*
5 11	7 6.65	+27 31.7	2.937	2.489	19.3	20.9	54 E	40*	29*
5 21	7 24.34	+26 31.0	3.077	2.528	17.5	21.0	49 E	33*	28*
5 31	7 41.86	+25 26.0	3.208	2.566	15.7	21.0	43 E	27*	27*
6 10	7 59.12	+24 16.7	3.331	2.604	13.8	21.1	38 E	21*	24*
6 20	8 16.10	+23 3.3	3.443	2.641	11.9	21.1	32 E	15*	21*
6 30	8 32.75	+21 46.0	3.545	2.677	9.9	21.1	27 E	10*	18*
7 10	8 49.05	+20 25.0	3.635	2.713	7.8	21.1	21 E	6*	13*
7 20	9 4.98	+19 0.9	3.712	2.748	5.8	21.1	16 E	3*	9*
7 30	9 20.52	+17 33.9	3.775	2.782	3.7	21.1	10 E	—	4*
8 9	9 35.65	+16 4.6	3.824	2.815	1.7	21.0	5 E	—	—
8 19	9 50.38	+14 33.5	3.859	2.847	0.7	20.9	2 W	—	—
8 29	10 4.68	+13 1.0	3.878	2.879	2.6	21.1	7 W	1*	—
9 8	10 18.52	+11 27.8	3.881	2.910	4.5	21.3	13 W	6*	2*
9 18	10 31.90	+ 9 54.4	3.869	2.940	6.5	21.4	19 W	12*	6*
9 28	10 44.78	+ 8 21.4	3.841	2.969	8.4	21.5	26 W	18*	10*
	237088 2008 TW_2								
12 23	4 22.14	+33 6.0	1.293	2.228	10.4	19.2	156 E	78	31
12 28	4 17.63	+32 59.5	1.336	2.245	12.4	19.3	151 E	78	31
1 2	4 14.11	+32 51.4	1.385	2.262	14.4	19.5	145 E	78	31
1 7	4 11.60	+32 42.6	1.439	2.280	16.2	19.7	140 E	78	31
1 12	4 10.12	+32 33.8	1.497	2.297	17.8	19.8	135 E	78	31
1 22	4 10.07	+32 18.0	1.625	2.330	20.3	20.1	125 E	77	32
2 1	4 13.57	+32 6.8	1.766	2.364	22.1	20.4	115 E	77	32
2 11	4 20.12	+32 0.8	1.915	2.396	23.2	20.6	107 E	77	32*
2 21	4 29.18	+31 59.0	2.070	2.429	23.7	20.8	99 E	77	31*
3 2	4 40.33	+32 0.1	2.229	2.460	23.7	21.0	91 E	77*	31*
3 12	4 53.15	+32 2.5	2.388	2.491	23.4	21.2	84 E	73*	30*
3 22	5 7.31	+32 4.5	2.545	2.522	22.7	21.3	77 E	68*	29*
4 1	5 22.56	+32 4.6	2.700	2.551	21.7	21.4	71 E	61*	27*
	441531 2008 SH_{282}								
12 23	4 23.43	+26 0.1	1.369	2.308	9.4	21.2	157 E	71	38
12 28	4 19.07	+26 4.1	1.415	2.327	11.7	21.4	151 E	71	38
1 2	4 15.60	+26 7.6	1.467	2.345	13.7	21.6	146 E	71	38
1 7	4 13.04	+26 11.1	1.524	2.363	15.5	21.7	140 E	71	38
1 12	4 11.40	+26 15.0	1.585	2.381	17.1	21.9	135 E	71	38
	356948 2012 VE_5								
12 23	4 23.63	+20 50.0	1.249	2.189	10.1	21.4	157 E	66	43
1 2	4 16.18	+20 46.1	1.358	2.236	14.6	21.8	145 E	66	43
1 12	4 12.53	+20 49.1	1.487	2.283	18.0	22.2	134 E	66	43
1 22	4 12.46	+20 59.3	1.632	2.329	20.5	22.5	124 E	66	43
2 1	4 15.57	+21 15.9	1.789	2.373	22.2	22.8	114 E	66	43
	184341 2005 GX_{176}								
12 23	4 25.94	+32 25.3	1.644	2.578	8.6	21.2	157 E	77	32
12 28	4 20.96	+32 7.7	1.681	2.587	10.5	21.4	151 E	77	32
1 2	4 16.79	+31 49.1	1.724	2.596	12.3	21.5	146 E	77	32
1 7	4 13.47	+31 30.3	1.772	2.605	14.0	21.6	140 E	77	32
1 12	4 11.04	+31 12.0	1.826	2.614	15.5	21.7	135 E	76	33
	99248 2001 KY_{66}								
12 23	4 25.95	+32 30.3	0.529	1.485	15.1	16.7	157 E	78	31
12 28	4 24.36	+30 31.6	0.580	1.521	17.5	17.0	152 E	76	33
1 2	4 24.15	+28 50.9	0.636	1.558	19.8	17.4	148 E	74	35
1 7	4 25.14	+27 26.5	0.696	1.594	21.9	17.7	143 E	72	37
1 12	4 27.14	+26 16.2	0.759	1.629	23.8	18.0	138 E	71	38
1 17	4 30.00	+25 18.0	0.826	1.664	25.3	18.3	134 E	70	39
1 22	4 33.61	+24 30.0	0.896	1.699	26.7	18.5	129 E	70	39
1 27	4 37.88	+23 50.7	0.969	1.733	27.7	18.8	125 E	69	40
2 1	4 42.73	+23 18.4	1.045	1.767	28.5	19.0	121 E	68	41
2 6	4 48.07	+22 52.0	1.123	1.801	29.2	19.2	117 E	68	41
2 11	4 53.84	+22 30.4	1.203	1.833	29.6	19.4	113 E	68	41
2 21	5 6.43	+21 57.4	1.369	1.897	30.1	19.8	106 E	67	42
3 2	5 20.19	+21 33.5	1.539	1.959	30.0	20.1	99 E	67	42*
3 12	5 34.83	+21 14.1	1.714	2.018	29.5	20.4	93 E	66*	42*
3 22	5 50.11	+20 55.9	1.889	2.075	28.6	20.6	86 E	64*	42*
4 1	6 5.88	+20 36.6	2.064	2.130	27.5	20.8	80 E	60*	42*
4 11	6 21.99	+20 14.5	2.237	2.183	26.2	21.0	74 E	54*	41*
4 21	6 38.31	+19 48.4	2.407	2.233	24.7	21.2	68 E	48*	40*
5 1	6 54.76	+19 17.5	2.571	2.281	23.0	21.3	62 E	42*	39*
5 11	7 11.24	+18 41.2	2.728	2.327	21.2	21.5	56 E	35*	38*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
275842 2001 SC_5									
	h m	° ′			°	m	°	°	°
12 23	4 25.97	+50 28.7	2.020	2.896	10.6	20.4	147 E	85	14
12 28	4 19.30	+50 7.5	2.052	2.904	11.5	20.5	144 E	85	14
1 2	4 13.57	+49 41.6	2.090	2.912	12.6	20.6	140 E	85	14
1 7	4 8.85	+49 12.2	2.133	2.919	13.6	20.7	136 E	86	15
1 12	4 5.18	+48 40.8	2.181	2.926	14.6	20.7	131 E	86	15
1 17	4 2.57	+48 8.3	2.234	2.934	15.5	20.8	127 E	87	16
1 22	4 0.99	+47 35.6	2.291	2.940	16.4	20.9	123 E	87	16
1 27	4 0.40	+47 3.7	2.352	2.947	17.1	21.0	118 E	88	17
2 1	4 0.75	+46 33.0	2.415	2.953	17.8	21.1	114 E	88	17
2 6	4 1.97	+46 4.0	2.482	2.959	18.3	21.2	109 E	89	18*
2 11	4 4.00	+45 37.0	2.549	2.965	18.7	21.3	105 E	89	18*
2 16	4 6.75	+45 12.0	2.619	2.971	19.0	21.3	101 E	90	18*
2 21	4 10.18	+44 49.0	2.689	2.976	19.3	21.4	97 E	90	18*
2 26	4 14.23	+44 28.2	2.761	2.981	19.4	21.5	93 E	87*	18*
222079 1999 NE_{43}									
12 23	4 26.29	+ 9 57.8	1.605	2.523	10.1	20.6	153 E	55	54
1 2	4 18.25	+10 35.9	1.704	2.555	13.6	20.9	142 E	56	53
1 12	4 13.20	+11 22.5	1.825	2.586	16.5	21.2	132 E	56	53
1 22	4 11.20	+12 15.2	1.962	2.616	18.7	21.4	122 E	57	52
2 1	4 12.11	+13 11.7	2.112	2.644	20.2	21.6	112 E	58	51
482344 2011 WL_{15}									
12 23	4 27.47	+28 21.4	0.746	1.699	12.5	21.0	158 E	73	36
12 28	4 16.64	+29 7.1	0.764	1.692	16.5	21.1	151 E	74	35
1 2	4 7.23	+29 46.8	0.787	1.684	20.2	21.3	144 E	75	34
1 7	3 59.49	+30 21.7	0.815	1.675	23.5	21.5	137 E	75	34
1 12	3 53.53	+30 53.2	0.846	1.666	26.5	21.6	131 E	76	33
330263 2006 SU_{22}									
12 23	4 27.58	+14 29.2	1.345	2.279	10.2	21.2	156 E	59	50
1 2	4 19.92	+14 52.8	1.433	2.305	14.4	21.5	144 E	60	49
1 12	4 15.60	+15 24.8	1.541	2.330	17.8	21.8	134 E	60	49
1 22	4 14.67	+16 3.5	1.665	2.354	20.4	22.1	123 E	61	48
2 1	4 16.93	+16 47.2	1.801	2.378	22.2	22.3	114 E	62	47
156716 2002 RK_{27}									
12 23	4 28.23	+16 47.5	1.326	2.264	9.8	20.3	157 E	62	47
1 2	4 19.23	+16 50.8	1.388	2.264	14.5	20.6	145 E	62	47
1 12	4 13.65	+17 3.5	1.471	2.263	18.4	20.9	134 E	62	47
1 22	4 11.70	+17 25.1	1.570	2.262	21.4	21.1	123 E	62	47
2 1	4 13.27	+17 54.7	1.681	2.260	23.6	21.3	113 E	63	46
2 11	4 18.03	+18 30.2	1.799	2.257	25.1	21.5	104 E	64	45*
394141 2006 KV_{38}									
12 23	4 28.48	+35 1.2	1.985	2.913	7.7	21.1	157 E	80	29
12 28	4 22.47	+35 11.4	2.033	2.932	9.4	21.2	151 E	80	29
1 2	4 17.21	+35 18.5	2.088	2.951	10.9	21.3	145 E	80	29
1 7	4 12.77	+35 23.3	2.150	2.969	12.4	21.5	140 E	80	29
1 12	4 9.17	+35 26.5	2.216	2.987	13.6	21.6	134 E	80	29
134970 2001 EZ_9									
12 23	4 28.86	+63 5.7	2.412	3.205	12.0	19.7	137 E	72	1
12 28	4 20.78	+62 33.9	2.440	3.217	12.4	19.7	136 E	72	1
1 2	4 13.91	+61 56.0	2.474	3.228	12.8	19.8	133 E	73	2
1 7	4 8.33	+61 13.7	2.514	3.240	13.3	19.8	130 E	74	3
1 12	4 4.07	+60 28.2	2.558	3.251	13.9	19.9	127 E	75	4
1 17	4 1.08	+59 40.9	2.607	3.261	14.5	20.0	124 E	75	4
1 22	3 59.32	+58 52.8	2.660	3.272	15.0	20.0	121 E	76	5
1 27	3 58.71	+58 4.8	2.717	3.282	15.5	20.1	117 E	77	6
2 1	3 59.15	+57 17.8	2.777	3.292	16.0	20.2	113 E	78	7
2 6	4 0.55	+56 32.3	2.841	3.302	16.4	20.2	109 E	78	7*
2 11	4 2.82	+55 48.7	2.906	3.312	16.7	20.3	106 E	79	8*
2 16	4 5.86	+55 7.1	2.974	3.321	16.9	20.4	102 E	80	8*
2 21	4 9.60	+54 27.7	3.043	3.331	17.1	20.4	98 E	81	9*
2 26	4 13.97	+53 50.7	3.113	3.340	17.2	20.5	95 E	81*	9*
3 2	4 18.90	+53 15.9	3.184	3.349	17.2	20.5	91 E	80*	9*
3 7	4 24.33	+52 43.3	3.255	3.357	17.2	20.6	87 E	78*	9*
3 12	4 30.20	+52 12.7	3.326	3.365	17.1	20.6	84 E	75*	9*
3 17	4 36.46	+51 44.0	3.397	3.374	16.9	20.7	80 E	72*	9*
3 22	4 43.08	+51 16.9	3.468	3.382	16.7	20.7	77 E	69*	9*
3 27	4 50.02	+50 51.4	3.537	3.389	16.4	20.8	73 E	66*	9*
4 1	4 57.25	+50 27.3	3.605	3.397	16.1	20.8	70 E	63*	9*
4 6	5 4.71	+50 4.2	3.672	3.404	15.7	20.8	67 E	60*	9*
4 11	5 12.40	+49 42.2	3.737	3.411	15.3	20.9	64 E	57*	8*
4 16	5 20.27	+49 20.9	3.800	3.418	14.8	20.9	60 E	54*	8*
4 21	5 28.31	+49 0.2	3.861	3.424	14.3	20.9	57 E	51*	8*
4 26	5 36.50	+48 40.0	3.920	3.431	13.8	20.9	54 E	48*	7*
5 1	5 44.81	+48 20.1	3.976	3.437	13.2	20.9	51 E	45*	7*
5 6	5 53.22	+48 0.4	4.029	3.443	12.7	21.0	48 E	42*	6*
5 11	6 1.71	+47 40.7	4.080	3.449	12.1	21.0	46 E	40*	6*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
134970 2001 EZ_9 *(continuation)*									
	h m	° ′			°	m	°	°	°
5 16	6 10.27	+47 21.1	4.127	3.454	11.5	21.0	43 E	37*	5*
5 21	6 18.88	+47 1.3	4.172	3.459	10.9	21.0	40 E	34*	4*
5 26	6 27.53	+46 41.3	4.213	3.465	10.3	21.0	37 E	31*	3*
5 31	6 36.19	+46 21.0	4.251	3.469	9.7	21.0	35 E	29*	2*
6 5	6 44.86	+46 0.5	4.285	3.474	9.1	21.0	33 E	27*	1*
6 10	6 53.53	+45 39.6	4.316	3.478	8.5	21.0	30 E	24*	—
6 15	7 2.17	+45 18.3	4.343	3.483	8.0	21.0	28 E	22*	—
6 20	7 10.79	+44 56.7	4.367	3.487	7.5	21.0	26 E	20*	—
6 25	7 19.37	+44 34.7	4.386	3.490	7.0	20.9	25 E	19*	—
6 30	7 27.90	+44 12.3	4.402	3.494	6.7	20.9	24 E	17*	—
7 5	7 36.37	+43 49.6	4.414	3.497	6.4	20.9	23 E	16*	—
7 10	7 44.77	+43 26.5	4.423	3.500	6.2	20.9	22 E	14*	—
7 15	7 53.09	+43 3.2	4.427	3.503	6.2	20.9	22 E	13*	—
7 20	8 1.34	+42 39.6	4.427	3.506	6.2	20.9	22 E	12*	—
7 25	8 9.49	+42 15.9	4.424	3.508	6.4	20.9	23 W	13*	—
7 30	8 17.54	+41 52.0	4.416	3.510	6.7	21.0	24 W	15*	—
8 4	8 25.49	+41 28.2	4.404	3.512	7.1	21.0	25 W	17*	—
8 9	8 33.32	+41 4.3	4.389	3.514	7.5	21.0	27 W	19*	—
8 14	8 41.03	+40 40.6	4.369	3.516	8.0	21.0	29 W	21*	—
8 19	8 48.63	+40 17.1	4.346	3.517	8.5	21.0	31 W	24*	—
8 24	8 56.09	+39 54.0	4.319	3.518	9.1	21.0	33 W	26*	—
8 29	9 3.40	+39 31.3	4.288	3.519	9.7	21.0	36 W	29*	—
9 3	9 10.57	+39 9.1	4.253	3.520	10.3	21.0	39 W	32*	—
9 8	9 17.59	+38 47.7	4.214	3.520	10.9	21.0	41 W	34*	—
9 13	9 24.45	+38 27.1	4.172	3.521	11.5	21.0	44 W	37*	2*
9 18	9 31.14	+38 7.4	4.127	3.521	12.1	21.0	47 W	40*	3*
9 23	9 37.64	+37 48.9	4.078	3.521	12.6	21.0	50 W	44*	4*
9 28	9 43.95	+37 31.6	4.026	3.520	13.2	21.0	53 W	47*	6*
10 3	9 50.06	+37 15.8	3.971	3.520	13.7	21.0	57 W	50*	7*
10 8	9 55.95	+37 1.6	3.913	3.519	14.2	21.0	60 W	54*	9*
10 13	10 1.61	+36 49.1	3.853	3.518	14.7	21.0	63 W	57*	10*
10 18	10 7.03	+36 38.6	3.790	3.516	15.1	21.0	67 W	61*	11*
10 23	10 12.18	+36 30.2	3.725	3.515	15.4	20.9	70 W	64*	13*
10 28	10 17.04	+36 24.1	3.658	3.513	15.8	20.9	74 W	68*	14*
11 2	10 21.59	+36 20.5	3.589	3.511	16.0	20.9	78 W	71*	16*
11 7	10 25.82	+36 19.5	3.519	3.509	16.2	20.8	81 W	75*	17*
11 12	10 29.69	+36 21.3	3.448	3.507	16.3	20.8	85 W	78*	19*
11 17	10 33.17	+36 26.1	3.376	3.504	16.4	20.7	89 W	81*	20*
11 22	10 36.23	+36 34.0	3.304	3.501	16.4	20.7	93 W	82	22*
11 27	10 38.83	+36 44.9	3.233	3.498	16.2	20.6	97 W	82	23*
12 2	10 40.95	+36 59.0	3.162	3.495	16.0	20.6	102 W	82	24*
12 7	10 42.53	+37 16.3	3.092	3.492	15.8	20.5	106 W	82	25*
12 12	10 43.55	+37 36.6	3.023	3.488	15.4	20.5	110 W	83	26*
12 17	10 43.95	+37 59.9	2.957	3.484	14.9	20.4	115 W	83	26*
12 22	10 43.70	+38 25.7	2.894	3.480	14.3	20.3	119 W	83	26*
12 27	10 42.77	+38 53.8	2.834	3.476	13.6	20.3	124 W	84	25
1 1	10 41.12	+39 23.5	2.778	3.471	12.9	20.2	128 W	84	25
1 6	10 38.74	+39 54.3	2.726	3.466	12.1	20.1	132 W	85	24
1 11	10 35.62	+40 25.3	2.679	3.461	11.2	20.0	137 W	85	24
1 16	10 31.75	+40 55.8	2.638	3.456	10.4	20.0	141 W	86	23
83120 2001 QP_{246}									
12 23	4 29.15	+27 30.6	1.680	2.620	7.9	20.1	159 E	73	36
12 28	4 24.58	+27 14.4	1.722	2.634	9.9	20.2	153 E	72	37
1 2	4 20.75	+26 58.4	1.769	2.647	11.7	20.4	147 E	72	37
1 7	4 17.72	+26 43.2	1.823	2.660	13.4	20.5	141 E	72	37
1 12	4 15.50	+26 29.2	1.882	2.673	14.9	20.6	136 E	71	38
1 17	4 14.09	+26 16.8	1.945	2.686	16.3	20.8	130 E	71	38
1 22	4 13.47	+26 6.1	2.012	2.699	17.4	20.9	125 E	71	38
1 27	4 13.62	+25 57.3	2.083	2.711	18.4	21.0	120 E	71	38
2 1	4 14.50	+25 50.4	2.156	2.723	19.1	21.1	115 E	71	38
2 6	4 16.06	+25 45.4	2.232	2.735	19.8	21.2	110 E	71	38
2 11	4 18.26	+25 42.1	2.310	2.746	20.2	21.3	106 E	71	38*
2 16	4 21.04	+25 40.4	2.389	2.757	20.6	21.4	101 E	71	38*
2 21	4 24.36	+25 40.0	2.469	2.769	20.8	21.5	97 E	71	37*
275975 2001 XF_1									
12 23	4 29.19	+15 48.4	0.591	1.545	14.5	19.8	157 E	61	48
12 28	4 21.09	+17 53.7	0.643	1.575	17.8	20.2	151 E	63	46
1 2	4 15.06	+19 42.6	0.700	1.606	20.8	20.5	145 E	65	44
1 7	4 10.94	+21 17.4	0.761	1.635	23.3	20.8	139 E	66	43
1 12	4 8.55	+22 40.3	0.826	1.663	25.4	21.1	133 E	68	41
1 17	4 7.68	+23 53.5	0.894	1.691	27.1	21.3	128 E	69	40
40310 1999 KU_4									
12 23	4 30.72	+22 2.9	1.673	2.615	7.8	19.9	159 E	67	42
12 28	4 25.74	+22 5.0	1.720	2.632	9.9	20.0	153 E	67	42
1 2	4 21.51	+22 7.5	1.772	2.649	11.8	20.2	147 E	67	42
1 7	4 18.06	+22 10.6	1.831	2.665	13.5	20.3	141 E	67	42
1 12	4 15.44	+22 14.6	1.895	2.682	15.0	20.5	135 E	67	42

40310 1999 KU_4 *(continuation)*

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 22	4 12.60	+22 25.8	2.035	2.713	17.5	20.7	124 E	67	42
2 1	4 12.82	+22 41.6	2.190	2.743	19.1	21.0	114 E	68	41
2 11	4 15.78	+23 1.8	2.353	2.772	20.1	21.2	105 E	68	41*
2 21	4 21.09	+23 25.1	2.520	2.800	20.6	21.4	96 E	68	40*

6239 Minos

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	4 31.78	+34 39.1	0.431	1.391	15.8	18.3	157 E	80	29
12 25	4 24.40	+34 21.7	0.428	1.382	18.0	18.3	154 E	79	30
12 27	4 17.20	+34 1.7	0.426	1.372	20.2	18.3	151 E	79	30
12 29	4 10.24	+33 39.2	0.425	1.362	22.5	18.4	148 E	79	30
12 31	4 3.58	+33 14.7	0.424	1.352	24.8	18.4	145 E	78	31
1 2	3 57.25	+32 48.5	0.424	1.342	27.1	18.5	142 E	78	31
1 7	3 43.11	+31 38.2	0.427	1.315	32.7	18.6	134 E	77	32
1 12	3 31.57	+30 25.3	0.433	1.288	38.0	18.8	126 E	75	34
1 17	3 22.65	+29 14.3	0.440	1.259	43.0	18.9	119 E	74	35
1 22	3 16.22	+28 8.2	0.449	1.229	47.7	19.0	113 E	73	36*
1 27	3 12.04	+27 8.8	0.457	1.197	52.0	19.1	107 E	72	36*
2 1	3 9.83	+26 16.5	0.464	1.165	56.1	19.2	101 E	71	36*
2 6	3 9.26	+25 31.1	0.470	1.132	60.1	19.3	95 E	71	36*
2 11	3 10.02	+24 51.4	0.474	1.098	64.0	19.4	90 E	70*	35*
2 16	3 11.80	+24 16.0	0.476	1.063	67.9	19.4	86 E	69*	35*
2 21	3 14.32	+23 43.5	0.474	1.028	71.9	19.5	81 E	66*	34*
2 26	3 17.28	+23 12.0	0.469	0.992	76.1	19.5	77 E	64*	33*
3 2	3 20.34	+22 39.5	0.461	0.955	80.6	19.5	72 E	60*	32*
3 7	3 23.05	+22 3.7	0.449	0.919	85.7	19.6	67 E	56*	30*
3 12	3 24.91	+21 21.5	0.434	0.883	91.4	19.7	63 E	52*	29*
3 17	3 25.29	+20 29.4	0.416	0.848	98.0	19.8	58 E	47*	28*
3 22	3 23.42	+19 23.1	0.395	0.814	105.7	20.0	52 E	42*	26*
3 27	3 18.36	+17 57.4	0.373	0.782	114.7	20.3	45 E	35*	23*
4 1	3 9.06	+16 6.0	0.352	0.753	125.5	20.9	38 E	28*	20*

331495 1999 RY_{221}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	4 32.29	+24 26.3	1.280	2.228	8.9	20.3	159 E	69	40
12 28	4 28.01	+24 3.4	1.320	2.243	11.4	20.5	153 E	69	40
1 2	4 24.60	+23 42.3	1.366	2.257	13.6	20.6	147 E	69	40
1 7	4 22.10	+23 23.4	1.417	2.272	15.5	20.8	142 E	68	41
1 12	4 20.53	+23 7.0	1.472	2.286	17.3	20.9	136 E	68	41
1 17	4 19.86	+22 53.3	1.532	2.301	18.8	21.1	131 E	68	41
1 22	4 20.06	+22 42.4	1.596	2.315	20.1	21.2	126 E	68	41
1 27	4 21.08	+22 34.1	1.663	2.329	21.2	21.4	121 E	68	41

124329 2001 QU_{98}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	4 32.47	+ 9 39.1	1.094	2.026	12.1	18.4	154 E	55	54
1 2	4 26.67	+10 12.7	1.181	2.060	16.2	18.7	144 E	55	54
1 12	4 24.35	+10 59.4	1.287	2.095	19.7	19.0	134 E	56	53
1 22	4 25.44	+11 54.6	1.408	2.130	22.3	19.4	125 E	57	52
2 1	4 29.67	+12 54.6	1.542	2.164	24.1	19.6	116 E	58	51
2 11	4 36.61	+13 55.8	1.684	2.199	25.3	19.9	108 E	59	50
2 21	4 45.82	+14 55.6	1.833	2.233	25.8	20.1	100 E	60	49*
3 2	4 56.93	+15 51.8	1.986	2.267	25.9	20.3	93 E	61*	47*
3 12	5 9.59	+16 42.8	2.141	2.301	25.5	20.5	86 E	60*	45*
3 22	5 23.48	+17 27.1	2.296	2.334	24.8	20.7	80 E	58*	44*
4 1	5 38.38	+18 4.0	2.449	2.367	23.9	20.8	73 E	54*	42*
4 11	5 54.06	+18 32.6	2.599	2.399	22.7	21.0	67 E	49*	40*
4 21	6 10.33	+18 52.6	2.745	2.431	21.3	21.1	61 E	43*	38*
5 1	6 27.05	+19 3.7	2.885	2.462	19.8	21.1	56 E	37*	36*
5 11	6 44.06	+19 5.8	3.018	2.492	18.1	21.2	50 E	31*	34*
5 21	7 1.26	+18 59.0	3.142	2.522	16.3	21.3	44 E	24*	31*
5 31	7 18.55	+18 43.6	3.258	2.551	14.5	21.3	39 E	18*	28*
6 10	7 35.81	+18 19.9	3.363	2.579	12.6	21.3	34 E	13*	24*
6 20	7 53.00	+17 48.2	3.458	2.606	10.6	21.3	28 E	8*	20*
6 30	8 10.05	+17 9.2	3.541	2.633	8.6	21.3	23 E	3*	16*
7 10	8 26.89	+16 23.5	3.612	2.659	6.5	21.3	17 E	—	11*
7 20	8 43.50	+15 31.6	3.669	2.683	4.5	21.3	12 E	—	6*
7 30	8 59.82	+14 34.2	3.713	2.707	2.5	21.2	7 E	—	1*
8 9	9 15.83	+13 32.1	3.743	2.731	0.9	21.1	2 W	—	—
8 19	9 31.51	+12 26.0	3.759	2.753	2.0	21.2	5 W	—	—
8 29	9 46.83	+11 16.7	3.759	2.774	4.0	21.4	11 W	3*	3*
9 8	10 1.75	+10 5.1	3.745	2.795	5.9	21.5	17 W	8*	6*

283389 2000 QV_{202}

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	4 32.83	+32 0.1	2.006	2.943	7.1	21.3	158 E	77	32
12 28	4 27.95	+31 44.2	2.045	2.954	8.7	21.4	153 E	77	32
1 2	4 23.72	+31 27.4	2.090	2.965	10.3	21.5	147 E	76	33
1 7	4 20.21	+31 10.3	2.142	2.976	11.8	21.6	142 E	76	33
1 12	4 17.44	+30 53.4	2.199	2.987	13.2	21.8	136 E	76	33

301583 2010 BR_2

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	4 33.20	+41 40.9	1.735	2.654	9.4	19.6	154 E	87	22
12 28	4 27.15	+40 48.1	1.744	2.641	10.8	19.7	150 E	86	23
1 2	4 21.90	+39 51.8	1.760	2.628	12.4	19.8	145 E	85	24
1 7	4 17.56	+38 53.6	1.782	2.614	13.9	19.8	140 E	84	25

301583 2010 BR_2 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 12	4 14.18	+37 54.7	1.809	2.600	15.5	19.9	135 E	83	26
1 17	4 11.78	+36 56.4	1.842	2.586	17.0	20.0	130 E	82	27
1 22	4 10.36	+35 59.6	1.879	2.572	18.3	20.1	125 E	81	28
1 27	4 9.89	+35 5.2	1.920	2.557	19.5	20.1	120 E	80	29
2 1	4 10.34	+34 13.7	1.964	2.543	20.6	20.2	115 E	79	30
2 11	4 13.75	+32 40.4	2.060	2.513	22.2	20.3	106 E	78	31*
2 21	4 20.11	+31 20.3	2.161	2.482	23.3	20.4	97 E	76	32*
3 2	4 29.00	+30 12.2	2.264	2.451	23.8	20.5	89 E	74*	32*
3 12	4 40.03	+29 13.7	2.367	2.419	23.9	20.6	81 E	69*	31*
3 22	4 52.84	+28 22.0	2.465	2.386	23.6	20.7	74 E	63*	31*
4 1	5 7.17	+27 34.6	2.558	2.353	23.0	20.7	67 E	56*	30*
4 11	5 22.77	+26 48.5	2.643	2.319	22.1	20.7	60 E	49*	29*
4 21	5 39.43	+26 1.5	2.719	2.284	20.9	20.7	54 E	42*	28*
5 1	5 57.00	+25 11.5	2.786	2.249	19.6	20.7	49 E	35*	27*
5 11	6 15.32	+24 16.4	2.843	2.214	18.1	20.6	43 E	29*	25*
5 21	6 34.25	+23 14.7	2.889	2.179	16.5	20.6	38 E	22*	23*
5 31	6 53.71	+22 5.0	2.925	2.143	14.8	20.5	33 E	16*	21*
6 10	7 13.57	+20 46.2	2.950	2.107	13.0	20.4	28 E	11*	19*
6 20	7 33.78	+19 17.4	2.965	2.072	11.2	20.3	23 E	6*	16*
6 30	7 54.25	+17 37.8	2.970	2.036	9.4	20.2	19 E	1*	13*
7 10	8 14.95	+15 46.9	2.965	2.000	7.5	20.1	15 E	—	9*
7 20	8 35.83	+13 44.5	2.952	1.965	5.8	20.0	11 E	—	5*
7 30	8 56.90	+11 30.3	2.930	1.931	4.4	19.9	8 E	—	1*
8 9	9 18.14	+ 9 4.4	2.900	1.897	3.6	19.7	7 E	—	—
8 19	9 39.58	+ 6 27.1	2.864	1.864	3.9	19.7	7 W	—	—
8 29	10 1.27	+ 3 38.6	2.822	1.833	5.1	19.7	9 W	—	3*
9 8	10 23.25	+ 0 39.9	2.776	1.802	6.6	19.7	12 W	—	6*
9 18	10 45.62	− 2 28.3	2.726	1.773	8.4	19.7	15 W	1*	9*
9 28	11 8.45	− 5 44.6	2.673	1.746	10.1	19.7	18 W	4*	11*
10 8	11 31.86	− 9 7.2	2.618	1.721	11.9	19.7	21 W	6*	14*
10 18	11 55.99	−12 34.1	2.563	1.698	13.6	19.7	24 W	8*	16*
10 28	12 20.97	−16 2.8	2.507	1.678	15.3	19.7	26 W	9*	19*
11 7	12 46.94	−19 29.8	2.453	1.660	16.9	19.6	29 W	10*	22*
11 17	13 14.05	−22 51.9	2.400	1.645	18.5	19.6	32 W	11*	24*
11 22	13 28.07	−24 29.7	2.374	1.639	19.3	19.6	33 W	11*	26*
11 27	13 42.41	−26 4.7	2.349	1.634	20.0	19.6	34 W	10*	27*
12 2	13 57.09	−27 36.2	2.324	1.629	20.7	19.6	36 W	10*	29*
12 7	14 12.10	−29 3.8	2.299	1.625	21.4	19.6	37 W	10*	30*
12 12	14 27.45	−30 26.8	2.275	1.622	22.1	19.6	38 W	9*	32*
12 17	14 43.12	−31 44.7	2.251	1.620	22.8	19.6	40 W	8*	33*
12 22	14 59.10	−32 57.0	2.228	1.619	23.5	19.6	41 W	8*	35*
12 27	15 15.35	−34 3.0	2.205	1.618	24.1	19.6	42 W	7*	36*
1 1	15 31.85	−35 2.4	2.182	1.618	24.8	19.6	44 W	7*	37*
1 6	15 48.55	−35 54.8	2.159	1.620	25.4	19.6	45 W	6*	39*
1 11	16 5.40	−36 39.8	2.136	1.622	26.0	19.6	46 W	5*	40*
1 16	16 22.34	−37 17.3	2.114	1.625	26.6	19.6	48 W	5*	42*

104444 2000 GR_3

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	4 34.23	−16 41.8	0.710	1.565	26.7	16.6	134 E	28	81
12 28	4 32.58	−17 10.2	0.727	1.560	28.3	16.7	131 E	28	81
1 2	4 31.81	−17 20.9	0.746	1.557	29.9	16.8	128 E	28	81
1 7	4 32.01	−17 15.5	0.767	1.554	31.3	16.9	125 E	28	81
1 12	4 33.20	−16 56.2	0.790	1.552	32.6	17.0	122 E	28	81
1 17	4 35.40	−16 24.8	0.814	1.551	33.7	17.1	119 E	29	80
1 22	4 38.59	−15 43.1	0.840	1.551	34.6	17.2	116 E	29	80
1 27	4 42.74	−14 52.8	0.867	1.553	35.5	17.3	114 E	30	79
2 1	4 47.82	−13 55.7	0.895	1.555	36.1	17.4	111 E	31	78
2 6	4 53.75	−12 53.3	0.924	1.558	36.7	17.5	109 E	32	77
2 11	5 0.49	−11 47.0	0.955	1.562	37.2	17.6	107 E	33	76
2 16	5 7.96	−10 38.0	0.986	1.566	37.5	17.7	105 E	34	75
2 21	5 16.10	− 9 27.3	1.018	1.572	37.8	17.7	103 E	36	73
2 26	5 24.87	− 8 16.0	1.052	1.579	37.9	17.8	101 E	37	72
3 2	5 34.21	− 7 5.1	1.087	1.587	38.0	17.9	99 E	38	71
3 7	5 44.06	− 5 55.4	1.123	1.595	38.1	18.0	98 E	39	70*
3 12	5 54.36	− 4 47.7	1.160	1.604	38.0	18.1	96 E	40	69*
3 17	6 5.05	− 3 42.6	1.199	1.614	37.9	18.2	94 E	41*	68*
3 22	6 16.09	− 2 40.6	1.239	1.625	37.8	18.2	93 E	42*	66*
4 1	6 39.05	− 0 48.3	1.324	1.649	37.3	18.4	89 E	43*	64*
4 11	7 2.86	+ 0 46.1	1.414	1.675	36.6	18.6	86 E	42*	62*
4 21	7 27.19	+ 2 0.8	1.511	1.703	35.8	18.7	83 E	40*	61*
5 1	7 51.77	+ 2 55.0	1.613	1.734	34.8	18.9	79 E	38*	60*
5 11	8 16.34	+ 3 29.0	1.721	1.766	33.6	19.0	76 E	34*	58*
5 21	8 40.70	+ 3 43.9	1.833	1.800	32.3	19.2	72 E	30*	57*
5 31	9 4.73	+ 3 41.0	1.949	1.835	30.9	19.3	68 E	26*	56*
6 10	9 28.30	+ 3 22.3	2.068	1.871	29.3	19.4	65 E	22*	54*
6 20	9 51.35	+ 2 49.9	2.188	1.908	27.7	19.5	61 E	18*	52*
6 30	10 13.88	+ 2 5.8	2.309	1.945	25.9	19.6	57 E	14*	49*
7 10	10 35.87	+ 1 12.0	2.430	1.983	24.0	19.7	53 E	11*	46*
7 20	10 57.35	+ 0 10.5	2.549	2.021	22.1	19.8	48 E	9*	42*
7 30	11 18.35	− 0 57.1	2.664	2.059	20.0	19.9	44 E	7*	38*

104444 2000 GR_3 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
8 9	11 38.92	− 2 8.9	2.776	2.097	18.0	20.0	40 E	5*	34*
8 19	11 59.11	− 3 23.5	2.882	2.135	15.8	20.0	35 E	4*	29*
8 29	12 18.96	− 4 39.5	2.982	2.172	13.6	20.0	30 E	3*	24*
9 8	12 38.52	− 5 55.6	3.073	2.209	11.4	20.1	26 E	2*	20*
9 18	12 57.83	− 7 10.5	3.156	2.246	9.2	20.1	21 E	1*	15*
9 28	13 16.93	− 8 23.2	3.229	2.282	6.9	20.1	16 E	—	10*
10 8	13 35.82	− 9 32.5	3.291	2.317	4.6	20.0	11 E	—	5*
10 18	13 54.54	−10 37.6	3.342	2.352	2.4	19.9	6 E	—	—
10 28	14 13.08	−11 37.3	3.379	2.386	0.7	19.9	2 E	—	—
11 7	14 31.42	−12 30.8	3.404	2.420	2.3	20.0	6 W	—	—
11 17	14 49.56	−13 17.4	3.415	2.453	4.5	20.2	11 W	5*	—
11 27	15 7.43	−13 56.2	3.411	2.484	6.6	20.3	17 W	10*	4*
12 7	15 24.99	−14 26.6	3.394	2.515	8.7	20.5	23 W	14*	9*
12 17	15 42.16	−14 48.0	3.362	2.545	10.8	20.5	29 W	18*	15*
12 27	15 58.85	−14 59.8	3.317	2.574	12.7	20.6	35 W	21*	21*
1 6	16 14.96	−15 1.8	3.257	2.603	14.5	20.7	41 W	23*	28*
1 16	16 30.37	−14 53.6	3.185	2.630	16.1	20.7	48 W	25*	35*

306857 2001 SR_{169}

12 23	4 34.85	+56 7.6	2.779	3.618	9.3	21.4	144 E	79	8
12 28	4 28.04	+55 46.7	2.806	3.625	9.8	21.5	141 E	79	8
1 2	4 21.99	+55 21.0	2.840	3.631	10.4	21.5	138 E	80	9
1 7	4 16.80	+54 51.6	2.879	3.637	11.1	21.6	135 E	80	9
1 12	4 12.51	+54 19.3	2.924	3.643	11.8	21.7	131 E	81	10

481385 2006 QG_{43}

12 23	4 35.74	+33 10.9	1.209	2.155	9.6	20.8	159 E	78	31
12 28	4 30.86	+32 43.4	1.247	2.171	11.7	21.0	153 E	78	31
1 2	4 26.98	+32 15.1	1.290	2.186	13.8	21.1	148 E	77	32
1 7	4 24.15	+31 47.2	1.339	2.202	15.8	21.3	142 E	77	32
1 12	4 22.37	+31 20.5	1.392	2.217	17.5	21.5	137 E	76	33

438054 2004 PJ_{97}

12 23	4 36.08	+17 42.6	1.303	2.249	9.0	20.3	159 E	63	46
1 2	4 29.00	+16 42.4	1.397	2.286	13.5	20.7	147 E	62	47
1 12	4 25.28	+16 0.1	1.513	2.322	17.1	21.0	136 E	61	48
1 22	4 24.86	+15 34.7	1.645	2.358	19.8	21.3	126 E	61	48
2 1	4 27.48	+15 23.5	1.791	2.394	21.7	21.6	116 E	60	49

30963 Mount Banzan

12 23	4 36.65	+23 21.7	0.937	1.892	10.1	16.2	160 E	68	41
12 28	4 31.06	+24 40.0	0.975	1.909	13.0	16.4	154 E	70	39
1 2	4 26.55	+25 51.7	1.019	1.925	15.7	16.6	148 E	71	38
1 7	4 23.21	+26 57.4	1.069	1.942	18.0	16.8	142 E	72	37
1 12	4 21.06	+27 57.4	1.122	1.959	20.1	17.0	137 E	73	36
1 22	4 20.24	+29 42.5	1.242	1.993	23.3	17.4	127 E	75	34
2 1	4 23.73	+31 11.5	1.375	2.028	25.5	17.7	118 E	76	33
2 11	4 30.94	+32 27.9	1.516	2.064	26.8	18.0	109 E	77	32*
2 16	4 35.74	+33 1.9	1.589	2.081	27.2	18.1	105 E	78	31*
2 21	4 41.25	+33 33.4	1.663	2.099	27.5	18.2	102 E	79	30*
2 26	4 47.39	+34 2.5	1.739	2.117	27.6	18.4	98 E	79	30*
3 2	4 54.11	+34 29.2	1.815	2.135	27.6	18.5	94 E	79*	29*
3 7	5 1.35	+34 53.5	1.891	2.152	27.4	18.6	91 E	79*	28*
3 12	5 9.05	+35 15.5	1.967	2.170	27.2	18.7	88 E	78*	27*
3 22	5 25.63	+35 52.2	2.120	2.205	26.5	18.8	82 E	73*	26*
4 1	5 43.53	+36 19.1	2.271	2.241	25.6	19.0	76 E	67*	25*
4 11	6 2.44	+36 36.1	2.418	2.275	24.4	19.1	70 E	62*	24*
4 21	6 22.09	+36 42.8	2.562	2.310	23.1	19.3	64 E	56*	23*
5 1	6 42.27	+36 39.4	2.700	2.344	21.6	19.4	59 E	50*	22*
5 11	7 2.75	+36 25.9	2.832	2.378	20.0	19.4	54 E	44*	21*
5 21	7 23.37	+36 2.6	2.957	2.410	18.4	19.5	49 E	39*	20*
5 31	7 43.99	+35 30.1	3.073	2.443	16.7	19.6	44 E	33*	19*
6 10	8 4.47	+34 48.9	3.181	2.475	14.9	19.6	39 E	28*	17*
6 20	8 24.73	+33 59.8	3.279	2.506	13.2	19.6	34 E	24*	15*
6 30	8 44.68	+33 3.6	3.367	2.536	11.5	19.7	30 E	20*	12*
7 10	9 4.28	+32 1.2	3.445	2.565	9.8	19.7	26 E	17*	9*
7 20	9 23.48	+30 53.6	3.511	2.594	8.3	19.7	22 E	14*	6*
7 30	9 42.26	+29 41.9	3.565	2.622	7.0	19.7	18 E	12*	2*
8 9	10 0.62	+28 27.0	3.608	2.649	6.1	19.7	16 E	10*	—
8 19	10 18.54	+27 10.0	3.637	2.676	5.8	19.7	16 E	9*	—
8 29	10 36.03	+25 52.0	3.654	2.701	6.1	19.7	17 E	7*	—
9 8	10 53.09	+24 34.2	3.658	2.726	7.0	19.8	19 W	10*	—
9 18	11 9.72	+23 17.6	3.648	2.750	8.2	19.9	23 W	15*	—
9 28	11 25.91	+22 3.4	3.625	2.773	9.5	19.9	27 W	20*	—
10 8	11 41.64	+20 52.8	3.589	2.795	11.0	20.0	32 W	25*	—
10 18	11 56.92	+19 47.0	3.539	2.816	12.5	20.0	38 W	31*	2*
10 28	12 11.68	+18 47.3	3.477	2.836	13.9	20.1	43 W	37*	5*
11 7	12 25.89	+17 55.1	3.404	2.855	15.2	20.1	49 W	43*	10*
11 17	12 39.49	+17 11.7	3.318	2.873	16.4	20.1	55 W	49*	14*

30963 Mount Banzan *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
11 27	12 52.36	+16 38.5	3.223	2.891	17.5	20.1	62 W	54*	19*
12 7	13 4.39	+16 16.8	3.119	2.907	18.4	20.0	69 W	58*	24*
12 17	13 15.45	+16 8.1	3.008	2.922	19.0	20.0	76 W	60*	30*
12 27	13 25.33	+16 13.7	2.892	2.937	19.4	19.9	83 W	61	36*
1 6	13 33.84	+16 34.4	2.774	2.951	19.5	19.8	90 W	62	41*
1 16	13 40.72	+17 10.9	2.655	2.963	19.2	19.8	98 W	62	44*

456561 2007 CE_6

12 23	4 36.74	+14 53.8	1.012	1.959	10.8	19.3	158 E	60	49
1 2	4 31.29	+16 13.4	1.098	1.999	15.3	19.7	147 E	61	48
1 12	4 29.43	+17 32.5	1.204	2.039	19.1	20.0	137 E	63	46
1 22	4 31.11	+18 48.9	1.326	2.080	21.9	20.4	128 E	64	45
2 1	4 36.04	+20 1.2	1.462	2.122	24.0	20.7	119 E	65	44
2 11	4 43.79	+21 8.4	1.608	2.165	25.2	21.0	111 E	66	43
2 21	4 53.87	+22 9.3	1.761	2.208	25.9	21.2	103 E	67	42*
3 2	5 5.88	+23 3.2	1.921	2.251	26.0	21.5	96 E	68	40*

10984 Gispen

12 23	4 38.14	+14 41.7	1.791	2.729	7.7	18.6	158 E	60	49
1 2	4 29.50	+14 30.4	1.873	2.747	11.4	18.9	146 E	60	49
1 12	4 23.51	+14 28.9	1.979	2.764	14.5	19.1	135 E	59	50
1 22	4 20.38	+14 36.7	2.103	2.780	17.0	19.3	124 E	60	49
2 1	4 20.07	+14 52.8	2.242	2.795	18.7	19.5	114 E	60	49
2 11	4 22.38	+15 15.2	2.389	2.808	19.9	19.7	105 E	60	49*
2 21	4 27.00	+15 42.1	2.541	2.821	20.4	19.9	96 E	61	47*
3 2	4 33.62	+16 11.6	2.695	2.832	20.5	20.0	88 E	61*	45*
3 12	4 41.95	+16 41.9	2.846	2.842	20.1	20.1	80 E	58*	43*
3 22	4 51.73	+17 11.6	2.994	2.851	19.4	20.2	72 E	54*	40*
4 1	5 2.73	+17 39.2	3.134	2.859	18.5	20.3	65 E	48*	38*
4 11	5 14.76	+18 3.6	3.266	2.865	17.3	20.4	58 E	42*	35*
4 21	5 27.62	+18 23.9	3.388	2.871	15.9	20.4	51 E	35*	32*
5 1	5 41.20	+18 39.3	3.499	2.875	14.3	20.4	45 E	28*	29*
5 11	5 55.33	+18 49.2	3.597	2.878	12.7	20.4	39 E	22*	26*
5 21	6 9.92	+18 53.0	3.681	2.880	10.9	20.4	33 E	15*	22*
5 31	6 24.86	+18 50.5	3.752	2.880	9.0	20.4	27 E	9*	18*
6 10	6 40.04	+18 41.4	3.808	2.880	7.1	20.3	21 E	4*	14*
6 20	6 55.40	+18 25.6	3.848	2.878	5.2	20.3	15 E	—	9*
6 30	7 10.85	+18 3.1	3.873	2.876	3.4	20.2	10 E	—	3*
7 10	7 26.31	+17 34.0	3.883	2.872	1.8	20.1	5 E	—	—
7 20	7 41.74	+16 58.4	3.877	2.866	1.9	20.1	5 W	—	—
7 30	7 57.05	+16 16.7	3.855	2.860	3.5	20.1	10 W	—	4*
8 9	8 12.20	+15 29.1	3.817	2.853	5.4	20.2	15 W	4*	8*
8 19	8 27.13	+14 36.2	3.765	2.844	7.4	20.3	21 W	10*	12*
8 29	8 41.78	+13 38.3	3.697	2.834	9.3	20.3	27 W	16*	15*
9 8	8 56.10	+12 36.1	3.615	2.823	11.2	20.3	33 W	22*	19*
9 18	9 10.02	+11 30.2	3.520	2.811	13.0	20.3	39 W	28*	23*
9 28	9 23.49	+10 21.5	3.411	2.798	14.7	20.3	45 W	33*	26*
10 8	9 36.41	+ 9 10.7	3.290	2.783	16.4	20.3	52 W	39*	30*
10 18	9 48.71	+ 7 58.7	3.159	2.768	17.8	20.2	58 W	43*	34*
10 28	10 0.27	+ 6 46.7	3.018	2.751	19.1	20.2	65 W	47*	38*
11 7	10 10.96	+ 5 36.0	2.869	2.733	20.2	20.1	72 W	49*	43*
11 17	10 20.62	+ 4 27.9	2.714	2.714	21.0	20.0	80 W	49*	48*
11 27	10 29.05	+ 3 24.2	2.555	2.694	21.5	19.8	87 W	48	53*
12 7	10 36.02	+ 2 26.8	2.394	2.672	21.5	19.7	95 W	47	58*
12 17	10 41.25	+ 1 37.9	2.235	2.650	21.1	19.5	104 W	47	62*
12 27	10 44.42	+ 1 0.3	2.080	2.626	20.2	19.3	113 W	46	63
1 6	10 45.25	+ 0 36.8	1.934	2.601	18.5	19.1	123 W	46	63
1 16	10 43.43	+ 0 30.4	1.800	2.576	16.2	18.8	133 W	46	63

47343 1999 XL_{45}

12 23	4 39.06	+24 12.4	1.440	2.392	7.7	18.5	161 E	69	40
12 28	4 34.13	+24 13.5	1.479	2.405	10.0	18.7	155 E	69	40
1 2	4 29.98	+24 14.4	1.524	2.419	12.2	18.9	149 E	69	40
1 7	4 26.67	+24 15.6	1.574	2.432	14.1	19.0	143 E	69	40
1 12	4 24.23	+24 17.5	1.630	2.445	15.8	19.2	137 E	69	40
1 22	4 21.98	+24 24.0	1.754	2.470	18.7	19.4	127 E	69	40
2 1	4 23.07	+24 34.9	1.892	2.495	20.7	19.7	117 E	70	39
2 11	4 27.15	+24 50.0	2.039	2.519	21.9	19.9	108 E	70	39*
2 21	4 33.77	+25 8.3	2.192	2.542	22.6	20.1	99 E	70	38*
3 2	4 42.57	+25 28.3	2.348	2.564	22.7	20.3	91 E	70*	37*
3 12	4 53.17	+25 48.7	2.504	2.585	22.4	20.4	83 E	68*	36*
3 22	5 5.25	+26 8.0	2.657	2.606	21.8	20.6	76 E	63*	34*
4 1	5 18.57	+26 24.8	2.806	2.625	20.9	20.7	69 E	57*	32*
4 11	5 32.89	+26 38.0	2.949	2.644	19.7	20.7	63 E	51*	30*
4 21	5 48.01	+26 46.7	3.084	2.661	18.3	20.8	56 E	44*	28*
5 1	6 3.77	+26 50.2	3.210	2.678	16.8	20.9	50 E	38*	26*
5 11	6 20.01	+26 47.8	3.326	2.694	15.1	20.9	44 E	31*	24*
5 21	6 36.61	+26 39.3	3.431	2.708	13.4	20.9	38 E	25*	21*
5 31	6 53.46	+26 24.3	3.523	2.722	11.5	20.9	32 E	19*	18*
6 10	7 10.44	+26 2.8	3.604	2.735	9.6	20.9	27 E	14*	15*
6 20	7 27.48	+25 34.9	3.671	2.747	7.7	20.9	21 E	9*	11*

47343 1999 XL_{45} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 30	7 44.50	+25 0.7	3.724	2.758	5.7	20.8	16 E	5*	7*
7 10	8 1.41	+24 20.7	3.762	2.768	3.7	20.7	10 E	2*	2*
7 20	8 18.18	+23 35.1	3.787	2.777	2.0	20.6	5 E	—	—
7 30	8 34.74	+22 44.5	3.796	2.785	1.6	20.6	4 W	—	—
8 9	8 51.05	+21 49.5	3.791	2.792	3.0	20.7	8 W	2*	—
8 19	9 7.07	+20 50.7	3.770	2.798	4.9	20.8	14 W	7*	—
8 29	9 22.75	+19 48.9	3.735	2.803	6.9	20.9	19 W	13*	4*
9 8	9 38.07	+18 45.0	3.685	2.807	8.8	21.0	25 W	19*	7*
9 18	9 52.98	+17 39.6	3.621	2.810	10.7	21.0	31 W	24*	11*
9 28	10 7.43	+16 34.0	3.543	2.812	12.5	21.0	37 W	30*	14*
10 8	10 21.37	+15 29.1	3.451	2.813	14.2	21.0	44 W	36*	17*
10 18	10 34.74	+14 26.0	3.347	2.813	15.8	21.0	50 W	42*	21*
10 28	10 47.46	+13 26.0	3.232	2.812	17.2	21.0	57 W	47*	25*
11 7	10 59.43	+12 30.6	3.106	2.810	18.4	21.0	64 W	51*	30*
11 17	11 10.54	+11 41.2	2.972	2.807	19.4	20.9	71 W	54*	34*
11 27	11 20.60	+10 59.5	2.831	2.803	20.2	20.8	78 W	56*	39*
12 7	11 29.46	+10 27.3	2.685	2.798	20.6	20.7	86 W	55	45*
12 17	11 36.88	+10 6.3	2.537	2.792	20.6	20.6	95 W	55	49*
12 27	11 42.59	+ 9 58.5	2.390	2.786	20.1	20.4	103 W	55	53*
1 6	11 46.31	+10 5.6	2.248	2.778	19.1	20.2	113 W	55	54
1 16	11 47.73	+10 28.7	2.114	2.769	17.5	20.1	122 W	55	54

511600 2015 AZ_{245}

12 23	4 39.73	+ 7 12.0	2.087	3.004	8.1	21.4	154 E	52	57
1 2	4 25.04	+ 5 47.0	2.137	2.972	11.8	21.5	142 E	51	58
1 12	4 12.92	+ 4 40.2	2.216	2.938	15.0	21.7	129 E	50	59
1 22	4 3.81	+ 3 51.9	2.316	2.901	17.6	21.9	117 E	49	60
2 1	3 57.83	+ 3 20.5	2.430	2.862	19.3	22.0	106 E	48	61*

339669 2005 QB_{114}

12 23	4 40.12	+ 6 6.9	1.462	2.384	10.5	21.1	154 E	51	58
1 2	4 32.37	+ 6 42.7	1.550	2.414	13.9	21.4	144 E	52	57
1 12	4 27.54	+ 7 31.6	1.658	2.443	16.9	21.6	134 E	53	56
1 22	4 25.79	+ 8 29.5	1.783	2.471	19.3	21.9	124 E	53	56
2 1	4 26.99	+ 9 32.8	1.922	2.499	21.0	22.1	115 E	55	54

274234 2008 LO_{16}

12 23	4 40.52	+14 3.7	1.598	2.539	8.2	21.0	158 E	59	50
1 2	4 32.13	+14 21.3	1.683	2.565	12.0	21.3	147 E	59	50
1 12	4 26.59	+14 46.8	1.792	2.590	15.3	21.6	136 E	60	49
1 22	4 24.08	+15 18.8	1.919	2.615	17.9	21.8	125 E	60	49
2 1	4 24.53	+15 56.0	2.059	2.639	19.7	22.1	116 E	61	48

152558 1990 SA

12 23	4 41.62	−32 59.0	1.968	2.608	19.0	21.2	120 E	12	83
12 28	4 36.58	−32 19.6	2.005	2.623	19.2	21.3	119 E	13	84
1 2	4 32.21	−31 31.7	2.046	2.638	19.5	21.3	117 E	13	84
1 7	4 28.57	−30 36.4	2.089	2.652	19.7	21.4	114 E	14	85
1 12	4 25.68	−29 35.2	2.136	2.666	20.0	21.5	112 E	15	86

284423 2007 AR_{17}

12 23	4 42.51	− 9 33.8	1.459	2.312	15.3	19.9	142 E	35	74
12 28	4 37.19	− 8 42.6	1.466	2.297	16.5	19.9	139 E	36	73
1 2	4 32.43	− 7 43.4	1.478	2.282	17.7	20.0	135 E	37	72
1 7	4 28.35	− 6 37.3	1.495	2.266	19.1	20.0	131 E	38	71
1 12	4 25.02	− 5 25.4	1.517	2.251	20.4	20.1	127 E	40	69
1 17	4 22.51	− 4 9.1	1.543	2.235	21.7	20.1	123 E	41	68
1 22	4 20.84	− 2 49.3	1.573	2.219	22.9	20.2	119 E	42	67
1 27	4 20.04	− 1 27.3	1.606	2.204	24.0	20.3	114 E	44	65
2 1	4 20.10	− 0 3.8	1.642	2.188	25.0	20.3	110 E	45	64
2 6	4 21.01	+ 1 20.2	1.680	2.172	25.9	20.4	106 E	46	63
2 11	4 22.71	+ 2 44.1	1.720	2.156	26.6	20.4	102 E	48	61*
2 21	4 28.40	+ 5 29.4	1.803	2.123	27.7	20.5	95 E	50	57*
3 2	4 36.90	+ 8 8.7	1.888	2.091	28.3	20.6	87 E	53*	53*
3 12	4 47.91	+10 39.6	1.974	2.058	28.4	20.7	81 E	53*	49*
3 22	5 1.14	+13 0.4	2.057	2.026	28.2	20.7	74 E	51*	45*
4 1	5 16.40	+15 9.8	2.137	1.994	27.7	20.8	68 E	48*	42*
4 11	5 33.47	+17 6.8	2.211	1.962	26.9	20.8	63 E	44*	39*
4 21	5 52.19	+18 50.3	2.280	1.930	25.9	20.8	57 E	40*	36*
5 1	6 12.40	+20 19.4	2.343	1.900	24.8	20.8	52 E	35*	33*
5 11	6 33.96	+21 33.3	2.398	1.869	23.4	20.8	47 E	30*	30*
5 21	6 56.74	+22 31.1	2.447	1.840	22.0	20.7	43 E	26*	28*
5 31	7 20.59	+23 12.1	2.489	1.812	20.5	20.7	39 E	22*	25*
6 10	7 45.37	+23 35.8	2.523	1.786	18.9	20.6	35 E	18*	22*
6 20	8 10.94	+23 41.7	2.551	1.761	17.3	20.6	31 E	15*	20*
6 30	8 37.16	+23 29.6	2.573	1.737	15.8	20.5	28 E	12*	17*
7 10	9 3.87	+22 59.8	2.589	1.716	14.2	20.4	24 E	11*	15*
7 20	9 30.96	+22 12.6	2.599	1.696	12.8	20.4	22 E	9*	12*
7 30	9 58.31	+21 8.7	2.605	1.679	11.4	20.3	19 E	9*	9*
8 9	10 25.82	+19 49.3	2.608	1.665	10.3	20.2	17 E	8*	7*
8 19	10 53.41	+18 15.6	2.607	1.653	9.3	20.2	15 E	8*	4*

284423 2007 AR_{17} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 29	11 21.04	+16 29.5	2.604	1.644	8.7	20.1	14 E	8*	2*
9 8	11 48.64	+14 32.9	2.600	1.638	8.3	20.1	14 E	8*	—
9 18	12 16.22	+12 28.2	2.595	1.634	8.2	20.1	13 E	7*	—
9 28	12 43.75	+10 18.0	2.590	1.634	8.4	20.1	14 E	7*	—
10 8	13 11.23	+ 8 4.9	2.585	1.637	8.8	20.1	15 E	7*	—
10 18	13 38.64	+ 5 51.8	2.581	1.643	9.4	20.2	16 E	6*	—
10 28	14 5.98	+ 3 41.6	2.577	1.651	10.0	20.2	17 W	7*	—
11 7	14 33.22	+ 1 37.0	2.574	1.663	10.8	20.2	18 W	10*	—
11 17	15 0.32	− 0 19.7	2.572	1.677	11.6	20.3	20 W	13*	—
11 27	15 27.23	− 2 5.9	2.569	1.694	12.6	20.3	22 W	15*	—
12 7	15 53.86	− 3 40.1	2.565	1.713	13.6	20.4	24 W	18*	—
12 17	16 20.15	− 5 1.0	2.559	1.734	14.6	20.5	26 W	20*	2*
12 27	16 45.98	− 6 7.7	2.550	1.757	15.8	20.5	29 W	22*	7*
1 6	17 11.25	− 7 0.1	2.537	1.782	17.0	20.6	32 W	24*	12*
1 16	17 35.86	− 7 38.4	2.520	1.808	18.3	20.6	35 W	25*	17*

484284 2007 PW_{15}

12 23	4 42.62	+52 42.5	2.231	3.103	9.9	21.4	147 E	82	11
12 28	4 35.84	+52 13.2	2.251	3.104	10.6	21.5	144 E	83	12
1 2	4 29.87	+51 38.8	2.277	3.105	11.5	21.6	141 E	83	12
1 7	4 24.81	+51 0.4	2.309	3.105	12.4	21.6	137 E	84	13
1 12	4 20.72	+50 19.2	2.347	3.105	13.3	21.7	133 E	85	14

362925 2012 DX_{30}

12 23	4 42.74	−34 1.8	0.864	1.597	32.4	19.4	119 E	11	82
12 28	4 41.29	−33 51.9	0.872	1.590	33.2	19.4	118 E	11	82
1 2	4 40.62	−33 24.2	0.882	1.584	33.9	19.4	116 E	12	83
1 7	4 40.84	−32 40.1	0.893	1.579	34.5	19.5	115 E	12	83
1 12	4 42.01	−31 41.4	0.905	1.576	35.1	19.5	113 E	13	84
1 17	4 44.16	−30 29.6	0.918	1.573	35.6	19.6	112 E	15	86
1 22	4 47.29	−29 6.1	0.932	1.572	36.0	19.6	110 E	16	87
1 27	4 51.41	−27 32.5	0.947	1.572	36.3	19.6	109 E	17	88
2 1	4 56.47	−25 50.4	0.963	1.573	36.6	19.7	108 E	19	90
2 6	5 2.43	−24 1.4	0.980	1.575	36.9	19.7	107 E	21	88
2 11	5 9.24	−22 7.0	0.999	1.579	37.1	19.8	105 E	23	86
2 16	5 16.82	−20 8.5	1.019	1.583	37.2	19.8	104 E	25	84
2 21	5 25.12	−18 7.4	1.041	1.589	37.3	19.9	103 E	27	82
2 26	5 34.08	−16 5.0	1.066	1.596	37.4	20.0	102 E	29	80
3 2	5 43.64	−14 2.8	1.092	1.604	37.4	20.0	101 E	31	78
3 7	5 53.74	−12 2.0	1.121	1.613	37.4	20.1	99 E	33	76
3 12	6 4.31	−10 4.1	1.152	1.623	37.3	20.2	98 E	35	74
3 17	6 15.28	− 8 9.9	1.186	1.634	37.2	20.2	97 E	37*	72*
3 22	6 26.61	− 6 20.5	1.222	1.646	37.1	20.3	95 E	39*	70*
3 27	6 38.24	− 4 36.7	1.262	1.659	36.9	20.4	94 E	40*	69*
4 1	6 50.12	− 2 59.3	1.304	1.673	36.6	20.5	92 E	41*	67*
4 11	7 14.40	− 0 5.8	1.396	1.703	36.0	20.7	89 E	42*	64*
4 21	7 39.06	+ 2 17.6	1.498	1.736	35.2	20.8	85 E	42*	61*
5 1	8 3.81	+ 4 10.3	1.609	1.772	34.3	21.0	82 E	40*	59*
5 11	8 28.38	+ 5 33.4	1.728	1.810	33.1	21.2	78 E	38*	57*
5 21	8 52.55	+ 6 29.3	1.854	1.849	31.7	21.3	74 E	34*	56*
5 31	9 16.23	+ 7 0.9	1.984	1.891	30.2	21.5	70 E	30*	54*

354030 2001 RB_{18}

12 23	4 43.06	+10 17.0	0.458	1.417	15.8	18.4	157 E	55	54
12 28	4 44.08	+10 54.2	0.504	1.451	17.9	18.8	153 E	56	53
1 2	4 45.80	+11 32.6	0.554	1.486	19.9	19.1	149 E	57	52
1 7	4 48.22	+12 11.3	0.607	1.521	21.8	19.4	145 E	57	52
1 12	4 51.31	+12 49.8	0.664	1.556	23.4	19.7	141 E	58	51
1 22	4 59.29	+14 3.8	0.787	1.628	26.1	20.2	133 E	59	50
2 1	5 9.40	+15 11.7	0.922	1.700	28.0	20.7	126 E	60	49
2 11	5 21.29	+16 11.8	1.069	1.771	29.2	21.2	119 E	61	48
2 21	5 34.55	+17 2.8	1.225	1.842	29.8	21.6	112 E	62	47

14402 1991 DB

12 23	4 43.18	+ 0 28.8	1.019	1.935	14.7	21.0	150 E	45	64
1 2	4 29.25	+ 0 57.1	1.028	1.890	19.5	21.1	140 E	46	63
1 12	4 18.77	+ 1 56.6	1.054	1.842	24.4	21.3	129 E	47	62
1 22	4 12.64	+ 3 20.6	1.095	1.793	28.7	21.4	119 E	48	61
2 1	4 11.14	+ 5 2.1	1.143	1.742	32.2	21.6	110 E	50	59

134341 1979 MA

12 23	4 43.25	+36 12.5	1.887	2.826	7.3	19.4	159 E	81	28
12 28	4 37.53	+35 26.8	1.896	2.812	8.9	19.4	154 E	80	29
1 2	4 32.44	+34 38.8	1.912	2.798	10.6	19.5	149 E	80	29
1 7	4 28.09	+33 49.5	1.935	2.784	12.2	19.6	143 E	79	30
1 12	4 24.53	+33 0.2	1.963	2.770	13.9	19.7	138 E	78	31
1 17	4 21.82	+32 11.6	1.997	2.755	15.4	19.7	132 E	77	32
1 22	4 19.95	+31 24.6	2.036	2.740	16.7	19.8	127 E	76	33

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
					(continuation)				
	134341 1979 *MA*								
	h m	° ′			°	m	°	°	°
2 1	4 18.75	+29 57.5	2.125	2.710	19.0	20.0	116 E	75	34
2 11	4 20.72	+28 41.7	2.224	2.679	20.7	20.1	107 E	74	35*
2 21	4 25.50	+27 37.6	2.330	2.648	21.7	20.2	98 E	73	36*
3 2	4 32.75	+26 44.0	2.438	2.615	22.3	20.3	89 E	71*	35*
3 12	4 42.10	+25 58.9	2.545	2.582	22.3	20.4	81 E	67*	35*
3 22	4 53.24	+25 19.9	2.647	2.548	22.0	20.4	73 E	61*	33*
4 1	5 5.93	+24 44.5	2.743	2.514	21.3	20.4	66 E	54*	32*
4 11	5 19.93	+24 10.4	2.831	2.479	20.4	20.4	60 E	47*	31*
4 21	5 35.04	+23 35.4	2.909	2.443	19.2	20.4	53 E	40*	29*
5 1	5 51.10	+22 57.7	2.976	2.407	17.9	20.4	47 E	33*	28*
5 11	6 7.97	+22 15.3	3.032	2.370	16.4	20.4	41 E	26*	26*
5 21	6 25.53	+21 27.0	3.077	2.333	14.7	20.3	36 E	20*	23*
5 31	6 43.67	+20 31.3	3.110	2.296	13.0	20.2	31 E	13*	21*
6 10	7 2.29	+19 27.2	3.131	2.258	11.2	20.1	26 E	8*	18*
6 20	7 21.31	+18 13.7	3.141	2.220	9.4	20.0	21 E	3*	14*
6 30	7 40.67	+16 50.1	3.139	2.182	7.5	19.9	16 E	—	10*
7 10	8 0.31	+15 15.9	3.127	2.144	5.8	19.8	12 E	—	6*
7 20	8 20.19	+13 30.5	3.105	2.106	4.3	19.7	9 E	—	2*
7 30	8 40.29	+11 33.7	3.073	2.069	3.4	19.5	7 E	—	—
8 9	9 0.58	+ 9 25.4	3.032	2.032	3.7	19.5	7 W	—	—
8 19	9 21.09	+ 7 5.5	2.984	1.995	5.0	19.5	10 W	—	4*
8 29	9 41.82	+ 4 34.3	2.930	1.959	6.7	19.5	13 W	—	7*
9 8	10 2.81	+ 1 52.2	2.869	1.924	8.5	19.5	16 W	2*	10*
9 18	10 24.12	− 1 0.2	2.804	1.890	10.4	19.5	20 W	6*	13*
9 28	10 45.82	− 4 2.1	2.735	1.857	12.3	19.5	23 W	9*	16*
10 8	11 7.99	− 7 12.2	2.664	1.826	14.2	19.4	27 W	11*	18*
10 18	11 30.74	−10 29.0	2.591	1.796	16.0	19.4	30 W	13*	21*
10 28	11 54.19	−13 50.6	2.518	1.769	17.8	19.4	33 W	15*	24*
11 7	12 18.45	−17 14.3	2.445	1.744	19.5	19.3	36 W	16*	27*
11 17	12 43.70	−20 37.5	2.373	1.721	21.2	19.3	39 W	16*	30*
11 22	12 56.72	−22 17.7	2.337	1.710	22.0	19.3	40 W	16*	32*
11 27	13 10.03	−23 56.4	2.302	1.701	22.8	19.3	42 W	15*	34*
12 2	13 23.64	−25 33.0	2.267	1.692	23.6	19.2	43 W	15*	35*
12 7	13 37.57	−27 7.1	2.233	1.683	24.3	19.2	45 W	14*	37*
12 12	13 51.83	−28 38.1	2.200	1.676	25.1	19.2	46 W	13*	39*
12 17	14 6.41	−30 5.5	2.167	1.669	25.8	19.2	48 W	12*	40*
12 22	14 21.32	−31 28.6	2.134	1.663	26.5	19.1	49 W	12*	42*
12 27	14 36.53	−32 46.9	2.102	1.658	27.2	19.1	50 W	11*	44*
1 1	14 52.04	−33 59.8	2.071	1.654	27.8	19.1	52 W	10*	45*
1 6	15 7.83	−35 6.9	2.040	1.651	28.5	19.1	53 W	9*	47*
1 11	15 23.86	−36 7.7	2.009	1.648	29.1	19.1	55 W	8*	49*
1 16	15 40.08	−37 1.7	1.978	1.647	29.7	19.1	56 W	7*	50*
	382395 1990 *SM*								
12 23	4 43.43	+ 8 21.7	2.560	3.481	6.7	21.5	156 E	53	56
1 2	4 33.05	+ 8 26.3	2.601	3.451	9.5	21.6	145 E	53	56
1 12	4 24.40	+ 8 40.4	2.669	3.420	12.1	21.7	133 E	54	55
1 22	4 17.92	+ 9 3.1	2.758	3.387	14.2	21.9	122 E	54	55
2 1	4 13.80	+ 9 33.4	2.863	3.352	15.9	22.0	112 E	55	54
	66294 1999 JS_{27}								
12 23	4 43.93	+20 56.0	2.035	2.985	6.0	19.7	162 E	66	43
1 2	4 35.41	+20 43.8	2.118	3.007	9.6	19.9	149 E	66	43
1 12	4 29.26	+20 35.8	2.226	3.028	12.6	20.2	138 E	66	43
1 22	4 25.76	+20 33.1	2.354	3.048	15.0	20.4	127 E	66	43
2 1	4 24.91	+20 36.2	2.498	3.067	16.7	20.6	117 E	66	43
2 11	4 26.55	+20 44.7	2.652	3.085	17.8	20.8	107 E	66	43*
2 21	4 30.43	+20 57.6	2.813	3.103	18.4	21.0	98 E	66	42*
3 2	4 36.26	+21 13.8	2.976	3.119	18.5	21.1	89 E	66*	41*
3 12	4 43.77	+21 31.8	3.138	3.135	18.2	21.2	81 E	63*	39*
3 22	4 52.70	+21 50.5	3.296	3.149	17.6	21.3	73 E	58*	37*
4 1	5 2.83	+22 8.5	3.447	3.163	16.7	21.4	65 E	52*	34*
4 11	5 13.96	+22 24.9	3.589	3.176	15.5	21.4	58 E	45*	32*
4 21	5 25.91	+22 38.7	3.721	3.187	14.2	21.5	51 E	38*	29*
5 1	5 38.54	+22 49.3	3.842	3.198	12.7	21.5	44 E	31*	26*
	455350 2002 RL_{115}								
12 23	4 44.65	+16 18.8	0.890	1.847	10.3	19.6	160 E	61	48
1 2	4 40.44	+16 3.5	0.967	1.882	15.4	20.0	149 E	61	48
1 12	4 39.77	+16 4.1	1.063	1.919	19.5	20.4	139 E	61	48
1 22	4 42.58	+16 17.4	1.174	1.957	22.7	20.8	130 E	61	48
2 1	4 48.57	+16 39.7	1.298	1.996	24.9	21.1	121 E	62	47
2 11	4 57.26	+17 7.1	1.432	2.036	26.4	21.4	113 E	62	47
	176612 2002 FO_{30}								
12 23	4 44.86	+13 49.3	1.898	2.839	7.0	21.4	159 E	59	50
1 2	4 35.64	+14 4.7	1.969	2.849	10.6	21.6	148 E	59	50
1 12	4 28.83	+14 27.2	2.064	2.858	13.7	21.8	136 E	59	50
1 22	4 24.75	+14 56.1	2.180	2.865	16.2	22.1	125 E	60	49
2 1	4 23.46	+15 30.5	2.310	2.871	18.1	22.2	115 E	61	48

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	498422 2008 AZ_{41}								
	h m	° ′			°	m	°	°	°
12 23	4 45.38	+54 10.5	1.940	2.810	11.3	21.5	146 E	81	10
12 28	4 37.85	+53 21.8	1.938	2.792	12.0	21.5	144 E	82	11
1 2	4 31.21	+52 26.0	1.942	2.775	12.9	21.5	141 E	83	12
1 7	4 25.63	+51 24.7	1.952	2.757	14.0	21.6	137 E	84	13
1 12	4 21.17	+50 19.6	1.968	2.739	15.1	21.6	133 E	85	14
	177266 2003 WK_{88}								
12 23	4 45.55	+26 2.4	1.503	2.459	7.0	20.0	162 E	71	38
12 28	4 40.48	+25 40.1	1.537	2.469	9.2	20.1	156 E	71	38
1 2	4 36.13	+25 18.3	1.576	2.478	11.4	20.3	150 E	70	39
1 7	4 32.60	+24 57.6	1.622	2.487	13.3	20.4	144 E	70	39
1 12	4 29.92	+24 38.5	1.673	2.496	15.1	20.5	139 E	70	39
1 17	4 28.10	+24 21.4	1.728	2.505	16.7	20.7	133 E	69	40
1 22	4 27.14	+24 6.4	1.788	2.514	18.0	20.8	128 E	69	40
1 27	4 27.00	+23 53.8	1.851	2.522	19.2	20.9	123 E	69	40
2 1	4 27.66	+23 43.5	1.918	2.530	20.2	21.0	118 E	69	40
2 6	4 29.07	+23 35.3	1.987	2.538	21.0	21.1	113 E	69	40
2 11	4 31.17	+23 29.3	2.058	2.546	21.6	21.2	108 E	68	41*
2 16	4 33.91	+23 25.0	2.130	2.553	22.1	21.3	104 E	68	40*
2 21	4 37.25	+23 22.3	2.204	2.561	22.4	21.4	100 E	68	40*
	455390 2002 *WK*								
12 23	4 46.21	+40 37.6	0.731	1.680	13.5	17.6	157 E	86	23
12 28	4 43.15	+37 24.5	0.761	1.701	14.6	17.8	154 E	82	27
1 2	4 41.42	+34 22.3	0.797	1.722	16.4	18.0	150 E	79	30
1 7	4 40.92	+31 34.1	0.840	1.744	18.4	18.2	146 E	77	32
1 12	4 41.53	+29 1.8	0.889	1.767	20.3	18.4	141 E	74	35
1 17	4 43.11	+26 45.7	0.942	1.790	22.2	18.6	137 E	72	37
1 22	4 45.56	+24 45.6	1.001	1.813	23.8	18.8	132 E	70	39
1 27	4 48.78	+23 0.4	1.064	1.837	25.2	19.0	127 E	68	41
2 1	4 52.67	+21 28.7	1.131	1.861	26.3	19.2	123 E	66	43
2 6	4 57.16	+20 9.1	1.201	1.886	27.2	19.4	119 E	65	44
2 11	5 2.16	+19 0.0	1.274	1.911	28.0	19.6	115 E	64	45
2 16	5 7.59	+17 59.9	1.349	1.936	28.5	19.7	111 E	63	46
2 21	5 13.42	+17 7.5	1.426	1.961	28.8	19.9	107 E	62	47
2 26	5 19.59	+16 21.5	1.505	1.986	29.0	20.0	104 E	61	48
3 2	5 26.06	+15 40.8	1.586	2.012	29.0	20.2	100 E	61	48*
3 7	5 32.80	+15 4.5	1.667	2.037	28.9	20.3	97 E	60	49*
3 12	5 39.75	+14 31.7	1.750	2.063	28.7	20.5	93 E	59*	49*
3 22	5 54.22	+13 33.7	1.916	2.114	28.1	20.7	87 E	57*	49*
4 1	6 9.29	+12 42.1	2.084	2.165	27.1	20.9	81 E	53*	49*
4 11	6 24.78	+11 53.2	2.250	2.217	25.9	21.1	75 E	48*	49*
4 21	6 40.54	+11 4.5	2.414	2.268	24.5	21.2	70 E	42*	48*
5 1	6 56.50	+10 13.9	2.574	2.318	23.0	21.4	64 E	35*	47*
5 11	7 12.53	+ 9 20.2	2.729	2.368	21.4	21.5	59 E	29*	45*
	117898 3029 *P–L*								
12 23	4 46.29	+20 26.4	0.925	1.886	9.2	18.3	162 E	65	44
12 28	4 42.68	+19 59.8	0.964	1.905	12.1	18.5	156 E	65	44
1 2	4 40.03	+19 37.3	1.008	1.925	14.6	18.8	150 E	65	44
1 7	4 38.36	+19 18.8	1.056	1.944	16.9	19.0	145 E	64	45
1 12	4 37.67	+19 4.5	1.109	1.964	19.0	19.2	140 E	64	45
1 22	4 39.07	+18 47.3	1.227	2.004	22.2	19.5	130 E	64	45
2 1	4 43.84	+18 42.6	1.357	2.043	24.5	19.9	121 E	64	45
2 11	4 51.46	+18 46.9	1.498	2.083	26.0	20.2	112 E	64	45
2 21	5 1.39	+18 56.5	1.646	2.123	26.8	20.4	105 E	64	45*
3 2	5 13.21	+19 8.2	1.799	2.162	27.0	20.7	97 E	64	45*
3 12	5 26.51	+19 19.3	1.955	2.201	26.8	20.9	90 E	64*	44*
3 22	5 40.97	+19 27.6	2.113	2.239	26.3	21.1	84 E	61*	43*
4 1	5 56.34	+19 31.6	2.270	2.277	25.4	21.2	78 E	57*	42*
4 11	6 12.39	+19 30.0	2.425	2.315	24.3	21.4	72 E	52*	41*
	306459 1999 GS_3								
12 23	4 46.99	+62 27.6	0.930	1.793	21.1	18.3	139 E	73	2
12 25	4 41.11	+62 56.2	0.929	1.784	21.8	18.4	138 E	72	1
12 27	4 35.23	+63 21.8	0.928	1.775	22.5	18.4	136 E	72	1
12 29	4 29.41	+63 44.3	0.929	1.766	23.2	18.4	135 E	71	—
12 31	4 23.72	+64 4.0	0.929	1.758	23.9	18.4	134 E	71	—
1 2	4 18.21	+64 20.9	0.931	1.749	24.7	18.4	132 E	71	—
1 4	4 12.94	+64 35.2	0.933	1.741	25.4	18.4	131 E	70	—
1 6	4 7.97	+64 47.0	0.935	1.732	26.1	18.4	129 E	70	—
1 8	4 3.32	+64 56.6	0.938	1.724	26.9	18.5	128 E	70	—
1 10	3 59.05	+65 4.1	0.942	1.716	27.6	18.5	126 E	70	—
1 12	3 55.19	+65 9.9	0.946	1.708	28.3	18.5	125 E	70	—
1 14	3 51.76	+65 14.1	0.950	1.700	29.0	18.5	123 E	70	—
1 16	3 48.79	+65 16.8	0.955	1.692	29.7	18.5	122 E	70	—
1 18	3 46.29	+65 18.4	0.960	1.684	30.3	18.6	120 E	70	—
1 20	3 44.27	+65 18.9	0.965	1.677	31.0	18.6	119 E	70	—
1 22	3 42.74	+65 18.7	0.970	1.669	31.6	18.6	117 E	70	—

306459 1999 GS_3 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 27	3 41.09	+65 15.3	0.985	1.651	33.0	18.6	114 E	70	—
2 1	3 42.49	+65 9.7	1.000	1.633	34.3	18.7	111 E	70	—
2 6	3 46.81	+65 3.0	1.016	1.617	35.5	18.7	108 E	70	—
2 11	3 53.88	+64 55.7	1.032	1.601	36.5	18.8	105 E	70	—
2 16	4 3.55	+64 47.4	1.048	1.587	37.5	18.8	102 E	70	—
2 21	4 15.64	+64 37.3	1.063	1.573	38.2	18.8	100 E	70	—
2 26	4 29.98	+64 24.5	1.079	1.560	38.9	18.9	98 E	71*	—
3 2	4 46.36	+64 7.5	1.093	1.549	39.5	18.9	96 E	71*	—
3 7	5 4.53	+63 44.8	1.108	1.539	40.0	18.9	94 E	71*	—
3 12	5 24.16	+63 14.6	1.122	1.530	40.5	19.0	92 E	71*	—
3 14	5 32.35	+63 0.0	1.127	1.526	40.6	19.0	92 E	72*	1*
3 16	5 40.70	+62 43.8	1.133	1.523	40.8	19.0	91 E	72*	1*
3 18	5 49.18	+62 26.0	1.138	1.520	40.9	19.0	91 E	72*	1*
3 20	5 57.78	+62 6.4	1.144	1.518	41.0	19.0	90 E	72*	2*
3 22	6 6.47	+61 45.0	1.150	1.515	41.1	19.0	90 E	72*	2*
3 24	6 15.22	+61 21.7	1.155	1.513	41.2	19.0	89 E	73*	3*
3 26	6 24.02	+60 56.5	1.161	1.511	41.3	19.0	89 E	73*	3*
3 28	6 32.84	+60 29.2	1.166	1.509	41.4	19.0	88 E	73*	3*
3 30	6 41.65	+60 0.0	1.172	1.508	41.4	19.1	88 E	74*	4*
4 1	6 50.44	+59 28.8	1.178	1.506	41.5	19.1	87 E	74*	4*
4 6	7 12.16	+58 1.7	1.193	1.504	41.6	19.1	86 E	75*	6*
4 11	7 33.33	+56 22.0	1.209	1.503	41.6	19.1	85 E	76*	8
4 16	7 53.76	+54 30.1	1.226	1.503	41.6	19.2	84 E	76*	9
4 21	8 13.32	+52 26.9	1.244	1.505	41.5	19.2	83 E	77*	12
4 26	8 31.97	+50 13.5	1.264	1.508	41.4	19.2	82 E	76*	14
5 1	8 49.68	+47 51.1	1.286	1.513	41.2	19.3	82 E	75*	16
5 6	9 6.47	+45 21.3	1.310	1.518	41.0	19.3	81 E	74*	19
5 11	9 22.37	+42 45.4	1.337	1.526	40.7	19.3	80 E	71*	21
5 16	9 37.45	+40 4.8	1.365	1.534	40.3	19.4	79 E	68*	24
5 21	9 51.80	+37 20.9	1.397	1.544	39.9	19.4	78 E	65*	27
5 26	10 5.47	+34 34.9	1.431	1.555	39.4	19.5	77 E	62*	29
5 31	10 18.54	+31 48.2	1.467	1.567	38.9	19.6	76 E	58*	32
6 5	10 31.07	+29 1.8	1.506	1.580	38.3	19.6	75 E	54*	35*
6 10	10 43.13	+26 16.7	1.548	1.594	37.7	19.7	74 E	51*	38*
6 15	10 54.76	+23 33.4	1.592	1.609	37.0	19.7	72 E	47*	40*
6 20	11 6.03	+20 52.9	1.639	1.625	36.3	19.8	71 E	43*	43*
6 25	11 17.00	+18 15.4	1.688	1.642	35.5	19.9	70 E	40*	45*
6 30	11 27.69	+15 41.6	1.739	1.660	34.7	19.9	68 E	37*	47*
7 10	11 48.39	+10 45.8	1.848	1.698	33.0	20.1	65 E	31*	49*
7 20	12 8.42	+ 6 7.0	1.962	1.739	31.1	20.2	62 E	25*	50*
7 30	12 27.99	+ 1 45.3	2.082	1.782	29.2	20.3	59 E	21*	50*
8 9	12 47.27	− 2 19.3	2.204	1.827	27.1	20.4	55 E	17*	48*
8 19	13 6.40	− 6 7.4	2.328	1.873	25.0	20.6	51 E	13*	45*
8 29	13 25.52	− 9 40.0	2.452	1.920	22.8	20.7	48 E	10*	41*
9 8	13 44.69	−12 57.6	2.574	1.969	20.6	20.7	43 E	8*	37*
9 18	14 4.00	−16 1.2	2.694	2.018	18.4	20.8	39 E	5*	33*
9 28	14 23.52	−18 51.2	2.808	2.068	16.1	20.9	35 E	3*	29*
10 8	14 43.27	−21 28.3	2.917	2.118	13.9	20.9	31 E	1*	24*
10 18	15 3.30	−23 52.9	3.018	2.167	11.7	21.0	26 E	—	20*
10 28	15 23.60	−26 5.3	3.110	2.217	9.5	21.0	22 E	—	15*
11 7	15 44.17	−28 5.8	3.193	2.267	7.5	21.0	17 E	—	11*
11 17	16 4.97	−29 54.9	3.266	2.316	5.7	21.1	14 E	—	6*
11 27	16 25.98	−31 32.7	3.327	2.365	4.5	21.1	11 E	—	2*
12 7	16 47.10	−32 59.8	3.375	2.414	4.3	21.1	11 W	—	1*
12 17	17 8.28	−34 16.7	3.411	2.461	5.1	21.2	13 W	—	5*
12 27	17 29.42	−35 24.1	3.434	2.509	6.5	21.4	17 W	—	10*
1 6	17 50.40	−36 22.7	3.443	2.555	8.2	21.5	22 W	—	15*

6444 Ryuzin

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	4 47.34	+18 55.8	0.913	1.873	9.4	16.0	162 E	64	45
12 28	4 43.24	+19 18.7	0.950	1.891	12.2	16.2	156 E	64	45
1 2	4 40.08	+19 41.8	0.992	1.909	14.8	16.4	150 E	65	44
1 7	4 37.94	+20 5.2	1.038	1.927	17.1	16.6	145 E	65	44
1 12	4 36.83	+20 28.6	1.089	1.946	19.1	16.8	140 E	65	44
1 22	4 37.57	+21 15.5	1.203	1.982	22.5	17.2	130 E	66	43
2 1	4 41.97	+22 1.8	1.330	2.019	24.8	17.5	121 E	67	42
2 11	4 49.50	+22 46.3	1.467	2.056	26.4	17.8	112 E	68	41
2 21	4 59.61	+23 27.5	1.611	2.092	27.2	18.1	105 E	68	41*
3 2	5 11.84	+24 4.1	1.761	2.129	27.5	18.3	97 E	69	40*
3 12	5 25.75	+24 35.0	1.913	2.165	27.3	18.5	91 E	69*	39*
3 22	5 40.97	+24 59.1	2.067	2.201	26.8	18.7	84 E	66*	38*
4 1	5 57.24	+25 15.4	2.220	2.236	25.9	18.9	78 E	62*	37*
4 11	6 14.27	+25 23.6	2.372	2.271	24.8	19.0	72 E	57*	36*
4 21	6 31.87	+25 23.1	2.520	2.305	23.5	19.1	66 E	51*	34*
5 1	6 49.85	+25 13.9	2.664	2.338	22.0	19.2	60 E	45*	33*
5 11	7 8.06	+24 55.9	2.802	2.371	20.4	19.3	55 E	39*	32*
5 21	7 26.36	+24 29.4	2.934	2.403	18.7	19.4	50 E	32*	30*
5 31	7 44.67	+23 54.7	3.057	2.434	16.9	19.5	44 E	26*	28*
6 10	8 2.88	+23 12.2	3.172	2.464	15.0	19.5	39 E	21*	26*

6444 Ryuzin *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 20	8 20.92	+22 22.5	3.277	2.493	13.0	19.5	34 E	16*	22*
6 30	8 38.75	+21 26.2	3.371	2.522	11.0	19.5	28 E	11*	19*
7 10	8 56.32	+20 23.9	3.454	2.549	9.0	19.5	23 E	8*	15*
7 20	9 13.60	+19 16.4	3.525	2.576	6.9	19.5	18 E	4*	10*
7 30	9 30.56	+18 4.4	3.583	2.602	4.9	19.5	13 E	2*	5*
8 9	9 47.20	+16 48.7	3.628	2.626	2.9	19.4	8 E	—	—
8 19	10 3.51	+15 30.1	3.659	2.650	1.4	19.3	4 E	—	—
8 29	10 19.46	+14 9.4	3.676	2.673	2.1	19.4	5 W	—	—
9 8	10 35.06	+12 47.3	3.679	2.695	3.9	19.5	11 W	5*	—
9 18	10 50.29	+11 24.8	3.666	2.715	5.9	19.7	16 W	10*	1*
9 28	11 5.14	+10 2.7	3.639	2.735	7.8	19.7	22 W	15*	5*
10 8	11 19.58	+ 8 42.0	3.597	2.753	9.8	19.8	28 W	21*	9*
10 18	11 33.57	+ 7 23.5	3.540	2.771	11.6	19.9	34 W	27*	13*
10 28	11 47.08	+ 6 8.3	3.470	2.788	13.3	19.9	40 W	32*	17*
11 7	12 0.04	+ 4 57.4	3.385	2.803	15.0	19.9	47 W	37*	22*
11 17	12 12.37	+ 3 51.8	3.289	2.818	16.4	19.9	54 W	41*	27*
11 27	12 23.95	+ 2 52.9	3.180	2.831	17.7	19.9	61 W	44*	33*
12 7	12 34.68	+ 2 1.6	3.062	2.843	18.7	19.9	68 W	46*	39*
12 17	12 44.39	+ 1 19.4	2.935	2.855	19.5	19.8	76 W	46*	46*
12 27	12 52.87	+ 0 47.7	2.803	2.865	19.9	19.7	84 W	46	53*
1 6	12 59.92	+ 0 27.6	2.667	2.874	20.0	19.6	92 W	45	59*
1 16	13 5.27	+ 0 20.6	2.531	2.882	19.6	19.5	101 W	45	63*

106538 2000 WK_{63}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	4 47.41	+ 0 5.3	0.824	1.748	16.1	17.9	150 E	45	64
12 28	4 35.17	− 0 22.4	0.794	1.693	19.8	17.8	144 E	45	64
1 2	4 22.84	− 0 41.0	0.770	1.637	23.8	17.8	138 E	44	65
1 7	4 10.81	− 0 49.6	0.751	1.580	28.1	17.8	131 E	44	65
1 12	3 59.42	− 0 47.8	0.737	1.522	32.5	17.8	124 E	44	65
1 22	3 39.49	− 0 14.4	0.717	1.402	41.2	17.8	110 E	45	64
2 1	3 24.23	+ 0 54.4	0.700	1.279	49.9	17.8	97 E	46	62*
2 11	3 13.35	+ 2 31.4	0.679	1.151	58.7	17.8	85 E	48	56*
2 21	3 5.25	+ 4 31.2	0.645	1.021	68.6	17.7	74 E	47*	48*
3 2	2 56.86	+ 6 50.8	0.595	0.891	81.0	17.7	63 E	44*	40*
3 7	2 50.83	+ 8 7.1	0.563	0.828	88.9	17.7	56 E	41*	35*
3 12	2 42.01	+ 9 26.3	0.528	0.767	98.6	17.8	50 E	36*	30*
3 17	2 28.69	+10 45.3	0.492	0.709	110.6	18.1	42 E	31*	23*
3 22	2 8.86	+11 56.7	0.457	0.659	125.5	18.9	33 E	24*	16*
3 24	1 58.72	+12 20.0	0.446	0.641	132.3	19.4	28 E	20*	12*
3 26	1 47.27	+12 38.6	0.436	0.625	139.6	20.2	24 E	17*	8*
3 28	1 34.59	+12 51.0	0.429	0.610	147.3	21.2	19 E	13*	4*
3 30	1 20.90	+12 55.9	0.424	0.598	155.1	22.7	15 E	9*	—

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19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	4 47.53	+35 24.4	1.761	2.706	7.2	21.2	160 E	80	29
12 28	4 41.73	+34 59.2	1.795	2.718	8.9	21.3	155 E	80	29
1 2	4 36.66	+34 32.0	1.837	2.729	10.6	21.5	149 E	80	29
1 7	4 32.42	+34 4.0	1.884	2.741	12.2	21.6	144 E	79	30
1 12	4 29.05	+33 35.9	1.938	2.752	13.7	21.7	138 E	79	30

96189 Pygmalion

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
12 23	4 48.31	+33 27.9	1.193	2.147	8.6	19.0	161 E	78	31
12 28	4 40.88	+32 34.5	1.199	2.133	11.1	19.1	155 E	78	31
1 2	4 34.33	+31 38.5	1.212	2.119	13.6	19.2	149 E	77	32
1 7	4 28.84	+30 41.4	1.231	2.105	16.1	19.3	144 E	76	33
1 12	4 24.50	+29 45.1	1.255	2.090	18.5	19.4	138 E	75	34
1 17	4 21.35	+28 50.7	1.284	2.075	20.7	19.5	132 E	74	35
1 22	4 19.39	+27 59.4	1.317	2.059	22.6	19.6	126 E	73	36
2 1	4 18.92	+26 28.5	1.391	2.027	25.9	19.8	116 E	71	38
2 11	4 22.65	+25 14.3	1.473	1.994	28.3	20.0	107 E	70	39*
2 21	4 29.97	+24 15.4	1.559	1.959	30.0	20.1	98 E	69	39*
3 2	4 40.36	+23 28.7	1.645	1.923	31.0	20.2	90 E	68*	39*
3 12	4 53.34	+22 50.5	1.728	1.886	31.5	20.3	83 E	65*	38*
3 22	5 8.50	+22 16.6	1.806	1.848	31.6	20.4	77 E	60*	38*
4 1	5 25.55	+21 43.5	1.877	1.809	31.4	20.4	71 E	55*	37*
4 11	5 44.22	+21 7.8	1.941	1.769	30.9	20.4	65 E	49*	36*
4 21	6 4.29	+20 26.6	1.997	1.729	30.2	20.4	60 E	43*	36*
5 1	6 25.59	+19 37.2	2.044	1.688	29.4	20.4	55 E	37*	35*
5 11	6 47.96	+18 37.5	2.083	1.647	28.5	20.3	51 E	31*	34*
5 21	7 11.27	+17 25.4	2.113	1.606	27.5	20.3	47 E	25*	34*
5 31	7 35.43	+15 59.6	2.135	1.565	26.5	20.2	44 E	19*	33*
6 10	8 0.33	+14 18.9	2.150	1.525	25.5	20.1	40 E	14*	31*
6 20	8 25.93	+12 22.6	2.158	1.486	24.6	20.1	37 E	10*	30*
6 30	8 52.20	+10 10.5	2.161	1.448	23.7	20.0	35 E	6*	28*
7 10	9 19.11	+ 7 42.8	2.158	1.412	22.8	19.9	33 E	2*	27*
7 20	9 46.70	+ 5 0.5	2.153	1.379	22.1	19.8	31 E	—	25*
7 30	10 15.03	+ 2 4.9	2.145	1.349	21.4	19.7	29 E	—	23*
8 9	10 44.15	− 1 1.4	2.136	1.323	20.7	19.7	28 E	—	21*
8 19	11 14.18	− 4 15.5	2.128	1.300	20.1	19.6	26 E	—	19*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		96189 Pygmalion				*(continuation)*			
	h m	° ′			°	m	°	°	°
8 29	11 45.22	− 7 33.5	2.123	1.283	19.6	19.6	25 E	—	18*
9 8	12 17.37	−10 50.4	2.121	1.270	18.9	19.5	24 E	—	17*
9 13	12 33.89	−12 26.9	2.121	1.266	18.6	19.5	24 E	—	17*
9 18	12 50.72	−14 1.0	2.123	1.263	18.3	19.5	23 E	—	16*
9 23	13 7.86	−15 32.0	2.126	1.261	17.9	19.5	23 E	—	16*
9 28	13 25.29	−16 59.1	2.131	1.261	17.5	19.5	22 E	—	15*
10 3	13 43.02	−18 21.6	2.137	1.263	17.0	19.5	22 E	—	15*
10 8	14 1.02	−19 38.7	2.145	1.266	16.6	19.5	21 E	—	14*
10 18	14 37.78	−21 54.2	2.165	1.276	15.5	19.5	20 E	—	14*
10 28	15 15.28	−23 40.7	2.191	1.291	14.3	19.5	19 E	—	13*
11 7	15 53.14	−24 55.0	2.224	1.311	13.0	19.5	17 E	—	11*
11 17	16 30.92	−25 35.2	2.261	1.335	11.5	19.5	16 E	—	10*
11 27	17 8.13	−25 41.6	2.302	1.364	9.9	19.5	14 E	—	8*
12 7	17 44.34	−25 15.7	2.346	1.395	8.1	19.5	12 E	—	5*
12 17	18 19.21	−24 20.6	2.392	1.430	6.3	19.6	9 E	—	2*
12 27	18 52.50	−22 59.9	2.439	1.466	4.5	19.6	7 E	—	—
1 6	19 24.07	−21 17.7	2.484	1.505	2.6	19.5	4 E	—	—
1 16	19 53.93	−19 17.8	2.527	1.545	1.2	19.5	2 E	—	—
		31367 1998 WB_9							
12 23	4 51.14	+19 17.4	1.244	2.203	7.5	16.5	163 E	64	45
12 28	4 45.13	+20 13.9	1.284	2.222	10.1	16.7	157 E	65	44
1 2	4 39.95	+21 7.6	1.331	2.240	12.4	16.9	151 E	66	43
1 7	4 35.69	+21 58.4	1.383	2.258	14.6	17.1	145 E	67	42
1 12	4 32.41	+22 46.4	1.442	2.277	16.5	17.3	139 E	68	41
1 22	4 28.78	+24 14.6	1.572	2.313	19.6	17.6	128 E	69	40
2 1	4 28.93	+25 33.9	1.717	2.348	21.7	17.9	118 E	71	38
2 11	4 32.44	+26 45.8	1.872	2.383	23.0	18.1	109 E	72	37
2 21	4 38.82	+27 51.2	2.034	2.418	23.7	18.4	100 E	73	36*
3 2	4 47.63	+28 50.5	2.199	2.451	23.8	18.6	93 E	74*	34*
3 12	4 58.45	+29 43.9	2.365	2.484	23.5	18.8	85 E	72*	32*
3 22	5 10.93	+30 31.2	2.529	2.517	22.8	18.9	78 E	67*	30*
4 1	5 24.78	+31 12.0	2.689	2.548	21.8	19.0	71 E	61*	28*
4 11	5 39.74	+31 46.0	2.843	2.579	20.6	19.1	65 E	55*	27*
4 21	5 55.59	+32 13.0	2.991	2.609	19.2	19.2	58 E	49*	25*
5 1	6 12.16	+32 32.8	3.129	2.638	17.6	19.3	52 E	42*	23*
5 11	6 29.26	+32 45.2	3.258	2.666	16.0	19.4	46 E	36*	21*
5 21	6 46.75	+32 50.3	3.377	2.693	14.2	19.4	41 E	31*	18*
5 31	7 4.53	+32 48.2	3.483	2.719	12.4	19.4	35 E	25*	16*
6 10	7 22.45	+32 39.1	3.577	2.745	10.6	19.4	30 E	20*	13*
6 20	7 40.43	+32 23.4	3.658	2.769	8.9	19.4	25 E	16*	9*
6 30	7 58.38	+32 1.6	3.725	2.793	7.2	19.4	20 E	12*	5*
7 10	8 16.22	+31 34.3	3.779	2.815	5.7	19.4	16 E	9*	1*
7 20	8 33.90	+31 2.2	3.817	2.837	4.7	19.4	13 E	7*	—
7 30	8 51.35	+30 25.9	3.841	2.858	4.3	19.4	12 E	5*	—
8 9	9 8.54	+29 46.5	3.851	2.878	4.9	19.4	14 W	6*	—
8 19	9 25.42	+29 4.8	3.845	2.896	6.1	19.5	18 W	10*	—
8 29	9 41.96	+28 21.9	3.824	2.914	7.5	19.6	22 W	16*	—
9 8	9 58.12	+27 39.0	3.789	2.931	9.1	19.6	27 W	21*	—
9 18	10 13.87	+26 57.2	3.740	2.947	10.7	19.7	33 W	27*	2*
9 28	10 29.17	+26 17.9	3.677	2.962	12.2	19.7	39 W	33*	4*
10 8	10 43.98	+25 42.6	3.600	2.976	13.7	19.7	45 W	39*	7*
10 18	10 58.23	+25 12.7	3.512	2.989	15.0	19.7	51 W	45*	10*
10 28	11 11.86	+24 50.0	3.413	3.001	16.2	19.7	58 W	51*	14*
11 7	11 24.78	+24 36.2	3.304	3.012	17.3	19.7	64 W	58*	17*
11 17	11 36.87	+24 33.3	3.187	3.022	18.1	19.7	71 W	63*	21*
11 27	11 47.99	+24 43.1	3.064	3.030	18.6	19.6	79 W	68*	25*
12 7	11 57.95	+25 7.4	2.937	3.038	18.9	19.5	86 W	70*	29*
12 17	12 6.55	+25 47.9	2.810	3.045	18.8	19.4	94 W	71	32*
12 27	12 13.51	+26 45.9	2.686	3.051	18.3	19.3	102 W	72	35*
1 6	12 18.56	+28 1.5	2.567	3.056	17.5	19.2	111 W	73	36*
1 16	12 21.36	+29 33.8	2.459	3.060	16.3	19.1	119 W	75	34
		179775 2002 SK_{41}							
12 23	4 52.46	+24 42.9	1.629	2.588	6.0	20.3	164 E	70	39
12 28	4 47.27	+24 33.8	1.663	2.600	8.2	20.5	158 E	70	39
1 2	4 42.72	+24 24.8	1.705	2.612	10.3	20.6	152 E	69	40
1 7	4 38.91	+24 16.2	1.752	2.624	12.2	20.7	146 E	69	40
1 12	4 35.90	+24 8.4	1.806	2.635	13.9	20.9	140 E	69	40
1 17	4 33.68	+24 1.9	1.864	2.646	15.4	21.0	134 E	69	40
1 22	4 32.28	+23 56.6	1.926	2.657	16.8	21.1	129 E	69	40
1 27	4 31.67	+23 52.9	1.993	2.667	17.9	21.3	124 E	69	40
2 1	4 31.84	+23 50.7	2.062	2.677	18.8	21.4	119 E	69	40
2 6	4 32.73	+23 49.9	2.135	2.688	19.6	21.5	114 E	69	40
		181698 5684 *T–3*							
12 23	4 52.62	+18 27.9	1.322	2.280	7.3	20.0	163 E	63	46
12 28	4 47.61	+18 35.5	1.356	2.293	9.7	20.2	157 E	64	45
1 2	4 43.32	+18 44.2	1.397	2.306	12.0	20.4	151 E	64	45
1 7	4 39.84	+18 54.0	1.443	2.319	14.1	20.5	145 E	64	45

19/20	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
		181698 5684 *T–3*				*(continuation)*			
	h m	° ′			°	m	°	°	°
1 12	4 37.23	+19 5.0	1.495	2.331	15.9	20.7	139 E	64	45
1 17	4 35.50	+19 17.2	1.551	2.343	17.6	20.8	134 E	64	45
1 22	4 34.63	+19 30.5	1.611	2.355	19.0	21.0	129 E	65	44
1 27	4 34.62	+19 44.9	1.675	2.367	20.2	21.1	124 E	65	44
2 1	4 35.43	+20 0.1	1.741	2.379	21.3	21.2	119 E	65	44
2 6	4 37.01	+20 16.1	1.811	2.390	22.1	21.3	114 E	65	44
2 11	4 39.30	+20 32.6	1.882	2.402	22.8	21.5	110 E	66	43
		346931 2010 AR_{35}							
12 23	4 54.59	+11 1.7	1.200	2.150	9.2	19.4	160 E	56	53
1 2	4 46.48	+11 38.4	1.279	2.183	13.3	19.7	149 E	57	52
1 12	4 41.59	+12 25.3	1.380	2.216	17.0	20.0	139 E	57	52
1 22	4 40.10	+13 18.8	1.498	2.248	20.0	20.3	129 E	58	51
2 1	4 41.89	+14 16.0	1.631	2.281	22.1	20.6	119 E	59	50
2 11	4 46.61	+15 14.1	1.773	2.313	23.5	20.9	111 E	60	49
2 21	4 53.84	+16 10.7	1.924	2.344	24.3	21.1	102 E	61	48*
3 2	5 3.19	+17 4.2	2.078	2.375	24.6	21.3	95 E	62	46*
3 12	5 14.29	+17 52.9	2.235	2.406	24.4	21.5	87 E	62*	45*
		450205 2002 OP_2							
12 23	4 55.02	+30 37.8	0.937	1.901	8.5	18.4	163 E	76	33
12 28	4 51.42	+29 38.8	0.973	1.921	10.9	18.6	158 E	75	34
1 2	4 48.78	+28 42.3	1.014	1.941	13.3	18.8	153 E	74	35
1 7	4 47.15	+27 49.4	1.060	1.962	15.6	19.0	148 E	73	36
1 12	4 46.51	+27 0.9	1.111	1.983	17.6	19.2	142 E	72	37
1 22	4 48.06	+25 37.9	1.226	2.026	21.0	19.6	133 E	71	38
2 1	4 52.98	+24 33.1	1.356	2.069	23.4	19.9	123 E	70	39
2 11	5 0.73	+23 43.9	1.497	2.113	25.0	20.3	115 E	69	40
2 21	5 10.73	+23 6.5	1.648	2.157	26.0	20.5	107 E	68	41
3 2	5 22.54	+22 36.9	1.805	2.201	26.3	20.8	100 E	68	41*
3 12	5 35.76	+22 11.9	1.966	2.246	26.2	21.0	93 E	67*	41*
3 22	5 50.05	+21 48.6	2.130	2.290	25.7	21.2	86 E	64*	41*
4 1	6 5.15	+21 24.6	2.295	2.334	24.9	21.4	80 E	60*	41*
		512242 2015 XZ_{261}							
12 23	4 55.09	+19 59.7	1.042	2.006	7.8	20.4	164 E	65	44
12 28	4 45.70	+21 14.3	1.074	2.016	11.0	20.6	157 E	66	43
1 2	4 37.33	+22 23.9	1.112	2.025	14.0	20.8	150 E	67	42
1 7	4 30.16	+23 28.5	1.157	2.034	16.7	20.9	144 E	68	41
1 12	4 24.29	+24 28.4	1.207	2.042	19.1	21.1	137 E	69	40
1 17	4 19.74	+25 24.0	1.262	2.049	21.1	21.3	131 E	70	39
1 22	4 16.50	+26 15.8	1.321	2.056	22.9	21.5	126 E	71	38
		272560 2005 UC_{469}							
12 23	4 55.50	+24 33.1	1.520	2.483	6.0	20.4	165 E	70	39
12 28	4 50.43	+24 17.6	1.556	2.497	8.3	20.5	158 E	69	40
1 2	4 46.04	+24 2.5	1.598	2.511	10.5	20.7	152 E	69	40
1 7	4 42.42	+23 48.3	1.646	2.524	12.4	20.8	146 E	69	40
1 12	4 39.62	+23 35.5	1.699	2.538	14.2	21.0	141 E	69	40
1 17	4 37.64	+23 24.4	1.758	2.551	15.8	21.1	135 E	68	41
1 22	4 36.48	+23 15.0	1.821	2.564	17.2	21.3	130 E	68	41
1 27	4 36.13	+23 7.5	1.888	2.577	18.3	21.4	125 E	68	41
		347149 2011 CB_{76}							
12 23	4 56.89	+57 56.7	1.863	2.717	12.4	21.1	144 E	77	6
12 28	4 47.99	+57 32.9	1.874	2.714	13.0	21.1	142 E	77	6
1 2	4 40.05	+57 0.8	1.890	2.710	13.8	21.1	139 E	78	7
1 7	4 33.29	+56 21.9	1.912	2.706	14.7	21.2	136 E	79	8
1 12	4 27.82	+55 38.0	1.940	2.701	15.6	21.3	132 E	79	8
1 17	4 23.68	+54 50.5	1.972	2.697	16.6	21.3	128 E	80	9
1 22	4 20.88	+54 1.0	2.009	2.692	17.5	21.4	125 E	81	10
1 27	4 19.37	+53 10.8	2.049	2.687	18.4	21.5	121 E	82	11
		307505 2002 YX_{11}							
12 23	4 57.40	+ 4 11.6	1.475	2.403	9.9	19.8	155 E	49	60
1 2	4 44.95	+ 5 34.0	1.477	2.356	13.5	19.9	146 E	51	58
1 12	4 34.72	+ 7 14.2	1.504	2.309	17.5	20.0	135 E	52	57
1 22	4 27.60	+ 9 6.6	1.552	2.260	21.0	20.2	125 E	54	55
2 1	4 24.07	+11 6.3	1.613	2.210	24.0	20.3	114 E	56	53
2 11	4 24.20	+13 9.1	1.684	2.159	26.2	20.4	105 E	58	51*
2 21	4 27.81	+15 12.0	1.760	2.108	27.8	20.5	96 E	60	48*
3 2	4 34.66	+17 12.8	1.836	2.055	28.8	20.5	88 E	62*	44*
3 12	4 44.47	+19 9.7	1.909	2.003	29.3	20.6	81 E	61*	41*
3 22	4 56.98	+21 1.2	1.977	1.949	29.4	20.6	74 E	58*	38*
4 1	5 11.99	+22 45.7	2.038	1.896	29.1	20.6	67 E	53*	35*
4 11	5 29.32	+24 21.6	2.091	1.842	28.6	20.6	62 E	49*	32*
4 21	5 48.85	+25 47.1	2.135	1.788	27.9	20.5	56 E	44*	29*
5 1	6 10.48	+27 0.3	2.171	1.735	27.1	20.5	52 E	39*	27*
5 11	6 34.09	+27 59.0	2.196	1.683	26.1	20.4	47 E	34*	25*
5 21	6 59.57	+28 40.8	2.213	1.632	25.2	20.3	43 E	30*	23*

307505 2002 YX_{11} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
5 31	7 26.81	+29 3.2	2.222	1.582	24.2	20.3	40 E	26*	22*
6 10	7 55.63	+29 3.7	2.223	1.535	23.3	20.2	37 E	23*	20*
6 20	8 25.83	+28 39.8	2.218	1.490	22.5	20.1	34 E	21*	19*
6 30	8 57.18	+27 49.6	2.208	1.449	21.8	20.0	32 E	19*	18*
7 10	9 29.41	+26 31.5	2.195	1.412	21.2	19.9	30 E	17*	17*
7 20	10 2.24	+24 44.7	2.181	1.380	20.8	19.8	29 E	16*	16*
7 30	10 35.41	+22 29.7	2.166	1.354	20.5	19.8	28 E	16*	16*
8 9	11 8.68	+19 47.9	2.155	1.334	20.2	19.7	27 E	15*	15*
8 19	11 41.87	+16 42.4	2.147	1.320	19.9	19.7	26 E	15*	15*
8 24	11 58.40	+15 2.0	2.146	1.316	19.8	19.6	26 E	15*	15*
8 29	12 14.86	+13 17.4	2.146	1.314	19.6	19.6	26 E	15*	15*
9 3	12 31.24	+11 29.3	2.149	1.313	19.4	19.6	26 E	15*	15*
9 8	12 47.55	+ 9 38.4	2.153	1.315	19.1	19.6	25 E	14*	14*
9 13	13 3.78	+ 7 45.5	2.160	1.318	18.8	19.6	25 E	14*	14*
9 18	13 19.94	+ 5 51.5	2.169	1.323	18.4	19.6	25 E	14*	14*
9 23	13 36.01	+ 3 57.3	2.180	1.329	18.0	19.6	24 E	14*	14*
9 28	13 52.01	+ 2 3.6	2.193	1.338	17.5	19.7	24 E	13*	13*
10 3	14 7.93	+ 0 11.2	2.209	1.348	17.0	19.7	23 E	13*	13*
10 8	14 23.78	− 1 38.9	2.227	1.360	16.4	19.7	23 E	13*	12*
10 13	14 39.56	− 3 26.3	2.247	1.373	15.7	19.7	22 E	12*	11*
10 18	14 55.27	− 5 10.1	2.270	1.388	15.0	19.7	21 E	12*	11*
10 28	15 26.49	− 8 24.9	2.319	1.421	13.4	19.8	19 E	10*	9*
11 7	15 57.39	−11 19.5	2.375	1.459	11.6	19.8	17 E	9*	7*
11 17	16 27.96	−13 51.5	2.435	1.501	9.7	19.8	15 E	7*	4*
11 27	16 58.10	−15 59.6	2.497	1.546	7.7	19.9	12 E	5*	1*
12 7	17 27.73	−17 43.5	2.559	1.594	5.6	19.9	9 E	3*	—
12 17	17 56.73	−19 4.0	2.620	1.644	3.5	19.9	6 E	—	—
12 27	18 25.01	−20 2.4	2.676	1.695	1.9	19.9	3 E	—	—
1 6	18 52.45	−20 40.7	2.727	1.748	2.2	20.0	4 W	—	—
1 16	19 18.98	−21 1.3	2.772	1.801	4.1	20.3	7 W	—	1*

141052 2001 XR_1

12 23	4 57.83	+41 30.2	0.730	1.682	13.0	18.6	157 E	87	22
12 25	4 51.03	+40 55.8	0.726	1.672	14.0	18.6	156 E	86	23
12 27	4 44.42	+40 18.3	0.722	1.662	15.2	18.6	154 E	85	24
12 29	4 38.02	+39 38.0	0.720	1.652	16.6	18.7	151 E	85	24
12 31	4 31.89	+38 55.3	0.719	1.641	18.0	18.7	149 E	84	25
1 2	4 26.06	+38 10.4	0.718	1.631	19.5	18.7	146 E	83	26
1 7	4 12.98	+36 11.7	0.722	1.603	23.4	18.8	140 E	81	28
1 12	4 2.20	+34 8.3	0.731	1.575	27.2	18.9	133 E	79	30
1 17	3 53.77	+32 5.5	0.744	1.544	30.9	19.0	126 E	77	32
1 22	3 47.60	+30 7.2	0.761	1.513	34.4	19.1	120 E	75	34
1 27	3 43.53	+28 16.1	0.780	1.480	37.6	19.2	114 E	73	36
2 1	3 41.35	+26 33.7	0.800	1.446	40.5	19.3	108 E	72	37*
2 6	3 40.85	+25 0.3	0.820	1.410	43.1	19.4	102 E	70	38*
2 11	3 41.80	+23 35.5	0.840	1.373	45.5	19.4	97 E	69	39*
2 16	3 44.01	+22 18.5	0.859	1.335	47.7	19.5	92 E	67	39*
2 21	3 47.33	+21 8.4	0.875	1.295	49.7	19.5	88 E	66*	39*
2 26	3 51.61	+20 3.9	0.889	1.253	51.7	19.5	83 E	64*	39*
3 2	3 56.72	+19 3.8	0.900	1.211	53.6	19.5	79 E	61*	39*
3 7	4 2.55	+18 6.8	0.907	1.166	55.5	19.5	76 E	58*	39*
3 12	4 8.95	+17 11.7	0.910	1.121	57.5	19.5	72 E	55*	39*
3 17	4 15.84	+16 17.2	0.909	1.074	59.6	19.5	68 E	52*	38*
3 22	4 23.09	+15 22.1	0.903	1.025	61.9	19.4	65 E	48*	38*
3 27	4 30.57	+14 25.3	0.891	0.976	64.4	19.4	62 E	45*	38*
4 1	4 38.11	+13 25.5	0.873	0.926	67.4	19.3	59 E	41*	38*
4 6	4 45.49	+12 21.7	0.850	0.875	70.9	19.2	56 E	37*	37*
4 11	4 52.41	+11 12.9	0.820	0.825	75.1	19.2	53 E	33*	37*
4 16	4 58.46	+ 9 58.6	0.785	0.775	80.1	19.1	49 E	29*	36*
4 21	5 3.05	+ 8 38.9	0.743	0.726	86.4	19.1	46 E	24*	35*
4 26	5 5.33	+ 7 15.2	0.695	0.680	94.0	19.1	42 E	19*	33*
5 1	5 4.10	+ 5 51.1	0.645	0.639	103.5	19.3	38 E	13*	31*
5 3	5 2.29	+ 5 18.9	0.624	0.624	107.8	19.4	36 E	10*	29*
5 5	4 59.56	+ 4 48.7	0.603	0.610	112.5	19.5	34 E	8*	28*
5 7	4 55.81	+ 4 21.4	0.583	0.598	117.4	19.8	32 E	5*	26*
5 9	4 50.94	+ 3 58.2	0.563	0.587	122.7	20.1	29 E	2*	23*
5 11	4 44.88	+ 3 40.3	0.545	0.578	128.1	20.4	27 E	—	21*
5 13	4 37.60	+ 3 29.2	0.528	0.571	133.7	20.9	24 E	—	18*
5 15	4 29.15	+ 3 26.4	0.513	0.565	139.1	21.5	21 E	—	14*

465307 2007 UQ_3

12 23	4 58.23	+67 25.0	1.009	1.841	22.2	20.2	135 E	68	—
12 25	4 50.23	+67 36.1	1.022	1.846	22.5	20.3	134 E	67	—
12 27	4 42.52	+67 43.3	1.035	1.852	22.8	20.3	133 E	67	—
12 29	4 35.17	+67 46.9	1.048	1.857	23.1	20.3	132 E	67	—
12 31	4 28.27	+67 47.2	1.062	1.863	23.4	20.4	131 E	67	—
1 2	4 21.85	+67 44.7	1.077	1.868	23.8	20.4	130 E	67	—
1 4	4 15.96	+67 39.5	1.093	1.873	24.1	20.5	129 E	67	—
1 6	4 10.62	+67 32.2	1.109	1.879	24.5	20.5	128 E	67	—

465307 2007 UQ_3 *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
1 8	4 5.86	+67 23.0	1.125	1.884	24.8	20.6	126 E	68	—
1 10	4 1.66	+67 12.2	1.142	1.889	25.2	20.6	125 E	68	—
1 12	3 58.03	+67 0.2	1.160	1.894	25.5	20.7	124 E	68	—
1 17	3 51.33	+66 26.1	1.205	1.907	26.3	20.8	121 E	69	—
1 22	3 47.79	+65 48.7	1.253	1.920	27.0	20.9	118 E	69	—
1 27	3 47.07	+65 10.4	1.303	1.932	27.6	21.0	115 E	70	—
2 1	3 48.79	+64 32.7	1.355	1.944	28.1	21.1	111 E	70	—
2 6	3 52.60	+63 56.4	1.407	1.956	28.6	21.3	108 E	71	—
2 11	3 58.17	+63 22.0	1.461	1.968	28.9	21.4	105 E	72	—
2 16	4 5.26	+62 49.3	1.515	1.979	29.2	21.5	102 E	72	1*

306375 1980 RG_1

12 23	4 59.15	+19 1.6	1.161	2.126	7.1	18.9	165 E	64	45
1 2	4 51.14	+18 38.6	1.261	2.181	11.9	19.3	153 E	64	45
1 12	4 46.61	+18 26.4	1.382	2.237	15.9	19.7	141 E	63	46
1 22	4 45.54	+18 24.2	1.521	2.291	18.9	20.1	131 E	63	46
2 1	4 47.66	+18 30.5	1.676	2.346	21.0	20.4	121 E	64	45
2 11	4 52.53	+18 42.8	1.841	2.399	22.3	20.7	113 E	64	45
2 21	4 59.69	+18 58.7	2.015	2.452	23.0	21.0	104 E	64	45*
3 2	5 8.72	+19 15.9	2.194	2.504	23.2	21.2	96 E	64	44*
3 12	5 19.27	+19 32.5	2.376	2.556	22.9	21.4	89 E	64*	43*

76978 2001 BY_{60}

12 23	4 59.69	−14 1.2	2.101	2.920	12.6	19.5	140 E	31	78
1 2	4 50.66	−12 56.5	2.153	2.925	14.0	19.6	134 E	32	77
1 12	4 43.61	−11 29.1	2.227	2.929	15.5	19.7	127 E	34	75
1 22	4 38.96	− 9 45.8	2.320	2.932	17.0	19.9	119 E	35	74
1 27	4 37.58	− 8 50.2	2.372	2.933	17.6	19.9	115 E	36	73
2 1	4 36.85	− 7 53.0	2.427	2.934	18.2	20.0	111 E	37	72
2 6	4 36.74	− 6 54.7	2.485	2.934	18.7	20.1	107 E	38	71
2 11	4 37.23	− 5 56.1	2.544	2.934	19.1	20.1	103 E	39	70
2 21	4 39.91	− 3 59.6	2.669	2.934	19.6	20.3	96 E	41	67*
3 2	4 44.66	− 2 6.5	2.797	2.933	19.7	20.4	88 E	43*	63*
3 12	4 51.23	− 0 19.0	2.925	2.930	19.5	20.5	81 E	43*	59*
3 22	4 59.38	+ 1 21.4	3.051	2.927	19.0	20.5	73 E	41*	55*
4 1	5 8.88	+ 2 53.7	3.172	2.922	18.3	20.6	67 E	37*	51*
4 11	5 19.55	+ 4 17.4	3.286	2.916	17.3	20.6	60 E	32*	46*
4 21	5 31.19	+ 5 32.0	3.392	2.909	16.1	20.6	54 E	27*	42*
5 1	5 43.69	+ 6 37.2	3.488	2.901	14.8	20.7	47 E	21*	38*
5 11	5 56.88	+ 7 33.1	3.572	2.892	13.3	20.6	41 E	14*	34*
5 21	6 10.65	+ 8 19.6	3.645	2.882	11.8	20.6	36 E	8*	29*
5 31	6 24.92	+ 8 56.7	3.704	2.871	10.2	20.6	30 E	2*	24*
6 10	6 39.56	+ 9 24.6	3.749	2.858	8.5	20.5	25 E	—	19*
6 20	6 54.51	+ 9 43.6	3.781	2.845	6.9	20.5	20 E	—	13*
6 30	7 9.70	+ 9 53.9	3.797	2.830	5.5	20.4	15 E	—	7*
7 10	7 25.03	+ 9 55.8	3.799	2.815	4.5	20.3	12 E	—	1*
7 20	7 40.46	+ 9 49.9	3.786	2.798	4.2	20.3	12 W	—	3*
7 30	7 55.92	+ 9 36.6	3.757	2.780	4.9	20.3	13 W	—	7*
8 9	8 11.36	+ 9 16.4	3.714	2.761	6.2	20.3	17 W	—	11*
8 19	8 26.74	+ 8 50.1	3.656	2.741	7.9	20.4	22 W	6*	15*
8 29	8 41.99	+ 8 18.4	3.583	2.720	9.6	20.4	27 W	12*	18*
9 8	8 57.07	+ 7 42.1	3.496	2.698	11.5	20.4	32 W	18*	21*
9 18	9 11.94	+ 7 2.2	3.396	2.675	13.3	20.4	38 W	24*	25*
9 28	9 26.53	+ 6 19.7	3.283	2.651	15.1	20.3	44 W	30*	28*
10 8	9 40.80	+ 5 36.1	3.158	2.626	16.9	20.3	50 W	35*	31*
10 18	9 54.68	+ 4 52.6	3.022	2.600	18.5	20.2	56 W	40*	35*
10 28	10 8.08	+ 4 11.0	2.876	2.572	20.0	20.1	62 W	44*	39*
11 7	10 20.93	+ 3 33.2	2.722	2.544	21.3	20.0	69 W	47*	43*
11 17	10 33.09	+ 3 1.6	2.562	2.515	22.4	19.9	76 W	48*	47*
11 27	10 44.41	+ 2 39.0	2.397	2.485	23.2	19.8	83 W	48	52*
12 7	10 54.72	+ 2 28.6	2.229	2.453	23.7	19.6	91 W	47	56*
12 17	11 3.79	+ 2 34.4	2.062	2.421	23.7	19.4	99 W	48	60*
12 27	11 11.31	+ 3 1.2	1.897	2.388	23.1	19.2	108 W	48	61*
1 1	11 14.40	+ 3 24.0	1.817	2.372	22.6	19.1	112 W	48	61
1 6	11 16.99	+ 3 54.0	1.739	2.355	21.8	18.9	117 W	49	60
1 11	11 19.01	+ 4 31.9	1.664	2.337	20.9	18.8	122 W	50	59
1 16	11 20.41	+ 5 18.4	1.591	2.320	19.8	18.6	127 W	50	59

103732 2000 CO_{103}

12 23	5 0.32	+51 49.7	0.842	1.760	16.6	16.7	149 E	83	12
12 28	4 55.01	+49 39.0	0.860	1.774	16.9	16.8	148 E	85	14
1 2	4 51.24	+47 24.1	0.883	1.787	17.7	16.9	146 E	88	17
1 7	4 49.01	+45 8.8	0.913	1.801	18.9	17.0	144 E	90	19
1 12	4 48.20	+42 56.4	0.947	1.816	20.2	17.2	140 E	88	21
1 17	4 48.69	+40 49.3	0.987	1.830	21.7	17.3	137 E	86	23
1 22	4 50.34	+38 49.1	1.031	1.845	23.1	17.5	133 E	84	25
1 27	4 53.02	+36 56.9	1.080	1.861	24.4	17.7	129 E	82	27
2 1	4 56.61	+35 13.2	1.133	1.876	25.6	17.8	125 E	80	29
2 6	5 0.98	+33 38.0	1.189	1.892	26.7	18.0	121 E	79	30

103732 2000 CO_{103} *(continuation)*

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
2 11	5 6.02	+32 10.8	1.249	1.908	27.5	18.1	117 E	77	32
2 16	5 11.64	+30 51.0	1.312	1.924	28.2	18.3	113 E	76	33
2 21	5 17.76	+29 38.1	1.377	1.940	28.8	18.4	109 E	75	34
3 2	5 31.24	+27 29.9	1.513	1.973	29.4	18.7	102 E	72	37*
3 12	5 46.01	+25 40.0	1.655	2.006	29.5	18.9	95 E	71*	38*
3 22	6 1.70	+24 3.3	1.801	2.040	29.2	19.1	89 E	67*	39*
4 1	6 18.07	+22 35.2	1.948	2.074	28.6	19.3	83 E	63*	40*
4 11	6 34.89	+21 12.1	2.096	2.108	27.6	19.5	77 E	57*	41*
4 21	6 52.00	+19 51.3	2.243	2.141	26.4	19.6	71 E	50*	41*
5 1	7 9.29	+18 30.7	2.386	2.175	25.0	19.7	66 E	44*	41*
5 11	7 26.64	+17 8.7	2.526	2.208	23.4	19.8	60 E	37*	41*
5 21	7 43.96	+15 44.2	2.660	2.241	21.7	19.9	55 E	30*	40*
5 31	8 1.22	+14 16.4	2.788	2.273	20.0	20.0	50 E	23*	38*
6 10	8 18.33	+12 44.9	2.909	2.305	18.1	20.1	45 E	16*	36*
6 20	8 35.27	+11 9.3	3.022	2.337	16.2	20.1	40 E	10*	33*
6 30	8 52.03	+ 9 29.6	3.126	2.368	14.3	20.2	35 E	5*	29*
7 10	9 8.56	+ 7 45.8	3.220	2.398	12.4	20.2	30 E	1*	24*
7 20	9 24.87	+ 5 58.1	3.303	2.427	10.4	20.2	26 E	—	19*
7 30	9 40.95	+ 4 6.5	3.376	2.456	8.6	20.2	21 E	—	14*
8 9	9 56.78	+ 2 11.4	3.436	2.484	6.8	20.2	17 E	—	9*
8 19	10 12.38	+ 0 13.1	3.485	2.511	5.4	20.1	13 E	—	4*
8 29	10 27.75	− 1 48.3	3.521	2.538	4.4	20.1	11 W	—	—
9 8	10 42.86	− 3 52.1	3.544	2.563	4.4	20.2	11 W	—	4*
9 18	10 57.74	− 5 58.3	3.554	2.588	5.3	20.3	14 W	—	8*
9 28	11 12.35	− 8 6.4	3.550	2.612	6.6	20.3	18 W	1*	11*
10 8	11 26.68	−10 16.0	3.533	2.635	8.3	20.4	22 W	6*	16*
10 18	11 40.71	−12 26.8	3.502	2.657	9.9	20.5	27 W	10*	20*
10 28	11 54.40	−14 38.5	3.458	2.678	11.6	20.5	33 W	14*	24*
11 7	12 7.70	−16 50.7	3.401	2.699	13.3	20.6	39 W	17*	29*
11 17	12 20.53	−19 3.1	3.332	2.718	14.8	20.6	45 W	20*	35*
11 27	12 32.80	−21 15.3	3.251	2.736	16.2	20.6	51 W	21*	41*
12 7	12 44.39	−23 27.0	3.160	2.754	17.5	20.6	57 W	21*	48*
12 17	12 55.15	−25 38.0	3.060	2.770	18.6	20.6	64 W	19*	55*
12 27	13 4.87	−27 47.6	2.951	2.786	19.5	20.6	71 W	17	63*
1 6	13 13.31	−29 55.4	2.838	2.800	20.1	20.5	78 W	15	71*
1 16	13 20.19	−32 0.5	2.720	2.814	20.4	20.4	85 W	13	79*

228862 2003 GX_{31}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	5 0.71	+29 52.4	3.554	4.511	3.3	20.5	165 E	75	34
1 2	4 54.14	+29 49.3	3.589	4.493	5.5	20.7	154 E	75	34
1 12	4 48.71	+29 43.5	3.651	4.474	7.6	20.8	143 E	75	34
1 22	4 44.79	+29 36.5	3.737	4.456	9.4	20.9	132 E	75	34
2 1	4 42.60	+29 29.9	3.842	4.437	10.9	21.0	122 E	74	35
2 11	4 42.25	+29 24.9	3.962	4.419	12.0	21.1	111 E	74	35
2 21	4 43.70	+29 22.1	4.092	4.400	12.7	21.2	102 E	74	34*
3 2	4 46.87	+29 21.9	4.227	4.381	13.1	21.3	92 E	74*	34*
3 12	4 51.62	+29 24.0	4.362	4.363	13.1	21.4	83 E	71*	32*
3 22	4 57.79	+29 28.1	4.495	4.344	12.8	21.4	75 E	64*	30*
4 1	5 5.24	+29 33.6	4.621	4.325	12.3	21.4	67 E	57*	28*
4 11	5 13.79	+29 39.9	4.738	4.306	11.5	21.5	59 E	49*	26*
4 21	5 23.30	+29 46.3	4.845	4.287	10.5	21.5	51 E	42*	23*
5 1	5 33.64	+29 52.2	4.938	4.269	9.4	21.4	44 E	34*	20*
5 11	5 44.67	+29 56.9	5.017	4.250	8.2	21.4	37 E	27*	16*
5 21	5 56.29	+30 0.0	5.080	4.231	6.8	21.4	30 E	20*	13*
5 31	6 8.38	+30 1.1	5.127	4.212	5.4	21.3	23 E	14*	8*
6 10	6 20.83	+29 59.8	5.156	4.193	4.0	21.2	17 E	9*	4*
6 20	6 33.56	+29 56.0	5.168	4.174	2.6	21.2	11 E	4*	—
6 30	6 46.48	+29 49.5	5.163	4.156	1.7	21.1	7 E	1*	—
7 10	6 59.49	+29 40.4	5.140	4.137	2.1	21.1	8 W	2*	—
7 20	7 12.51	+29 28.8	5.099	4.118	3.3	21.1	14 W	7*	—
7 30	7 25.46	+29 15.0	5.041	4.100	4.8	21.2	20 W	13*	3*
8 9	7 38.25	+28 59.3	4.967	4.081	6.3	21.2	26 W	19*	7*
8 19	7 50.80	+28 42.2	4.877	4.063	7.7	21.2	33 W	26*	11*
8 29	8 3.02	+28 24.4	4.772	4.044	9.1	21.2	39 W	32*	14*
9 8	8 14.80	+28 6.6	4.653	4.026	10.4	21.2	46 W	39*	17*
9 18	8 26.06	+27 49.7	4.522	4.008	11.6	21.2	54 W	46*	20*
9 28	8 36.68	+27 34.6	4.379	3.990	12.7	21.2	61 W	53*	23*
10 8	8 46.54	+27 22.4	4.228	3.972	13.5	21.1	68 W	60*	26*
10 18	8 55.50	+27 14.3	4.069	3.954	14.2	21.0	76 W	66*	28*
10 28	9 3.39	+27 11.5	3.906	3.936	14.6	21.0	84 W	71*	31*
11 7	9 10.06	+27 15.2	3.742	3.919	14.6	20.9	93 W	72	33*
11 17	9 15.32	+27 26.5	3.579	3.901	14.4	20.7	102 W	72	35*
11 27	9 18.96	+27 46.0	3.421	3.884	13.7	20.6	111 W	73	36*
12 7	9 20.84	+28 13.9	3.273	3.867	12.7	20.5	120 W	73	36
12 17	9 20.79	+28 49.7	3.139	3.850	11.2	20.3	130 W	74	35
12 27	9 18.75	+29 31.6	3.023	3.834	9.4	20.1	141 W	75	34
1 6	9 14.83	+30 16.9	2.930	3.817	7.3	20.0	151 W	75	34
1 16	9 9.24	+31 1.7	2.863	3.801	5.1	19.8	160 W	76	33

339745 2005 SG_{56}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
12 23	5 0.80	+11 5.3	0.832	1.790	10.4	19.3	161 E	56	53
12 28	4 57.33	+11 16.2	0.859	1.803	12.8	19.5	156 E	56	53
1 2	4 54.68	+11 31.7	0.892	1.816	15.2	19.7	151 E	57	52
1 7	4 52.92	+11 51.3	0.930	1.829	17.5	19.9	146 E	57	52
1 12	4 52.12	+12 14.2	0.972	1.843	19.6	20.1	141 E	57	52
1 17	4 52.26	+12 39.7	1.017	1.857	21.5	20.2	136 E	58	51
1 22	4 53.33	+13 7.2	1.066	1.872	23.1	20.4	132 E	58	51
2 1	4 58.11	+14 5.7	1.175	1.901	25.7	20.7	123 E	59	50
2 11	5 6.05	+15 5.3	1.293	1.932	27.5	21.0	115 E	60	49
2 21	5 16.60	+16 2.2	1.420	1.963	28.7	21.3	108 E	61	48
3 2	5 29.31	+16 53.8	1.553	1.995	29.2	21.5	101 E	62	47*

376771 2000 DH_{17}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	5 1.06	+ 6 11.0	1.821	2.754	7.9	21.4	157 E	51	58
1 2	4 51.42	+ 6 26.6	1.851	2.733	11.1	21.5	148 E	51	58
1 12	4 43.77	+ 6 56.6	1.905	2.710	14.3	21.7	137 E	52	57
1 22	4 38.69	+ 7 38.7	1.980	2.687	17.1	21.8	127 E	53	56
2 1	4 36.46	+ 8 30.1	2.071	2.662	19.3	22.0	117 E	54	55

350587 2001 QR_{15}

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	5 2.40	+15 57.8	1.043	2.007	7.7	19.3	164 E	61	48
12 28	4 57.81	+16 18.1	1.079	2.026	10.3	19.5	158 E	61	48
1 2	4 54.02	+16 39.6	1.119	2.044	12.7	19.6	153 E	62	47
1 7	4 51.10	+17 2.2	1.166	2.062	15.0	19.8	147 E	62	47
1 12	4 49.12	+17 25.6	1.217	2.081	17.0	20.0	142 E	62	47
1 22	4 47.93	+18 14.0	1.332	2.117	20.3	20.4	132 E	63	46
2 1	4 50.27	+19 3.3	1.462	2.154	22.8	20.7	122 E	64	45
2 11	4 55.74	+19 51.7	1.603	2.191	24.4	21.0	113 E	65	44
2 21	5 3.84	+20 37.7	1.751	2.227	25.4	21.2	105 E	66	43
3 2	5 14.14	+21 19.7	1.906	2.263	25.7	21.4	98 E	66	42*

10548 1992 PJ_2

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	5 2.99	+16 26.8	1.991	2.950	5.1	18.8	164 E	61	48
1 2	4 54.01	+16 14.8	2.063	2.970	8.7	19.0	153 E	61	48
1 12	4 47.17	+16 9.6	2.161	2.990	11.9	19.3	141 E	61	48
1 22	4 42.85	+16 11.5	2.280	3.009	14.5	19.5	130 E	61	48
2 1	4 41.16	+16 20.1	2.417	3.027	16.4	19.7	120 E	61	48
2 11	4 42.00	+16 34.2	2.566	3.044	17.8	19.9	110 E	62	47
2 21	4 45.12	+16 52.5	2.722	3.060	18.5	20.1	100 E	62	47*
3 2	4 50.28	+17 13.5	2.882	3.075	18.8	20.2	92 E	62*	46*
3 12	4 57.20	+17 35.6	3.041	3.089	18.6	20.3	83 E	60*	44*
3 22	5 5.60	+17 57.5	3.198	3.102	18.1	20.4	76 E	56*	41*
4 1	5 15.28	+18 17.9	3.348	3.115	17.3	20.5	68 E	51*	39*
4 11	5 26.00	+18 35.8	3.491	3.126	16.2	20.6	61 E	44*	36*
4 21	5 37.60	+18 50.3	3.624	3.136	15.0	20.6	54 E	37*	33*
5 1	5 49.91	+19 0.7	3.746	3.146	13.5	20.6	47 E	30*	30*
5 11	6 2.79	+19 6.3	3.856	3.155	12.0	20.6	40 E	23*	27*
5 21	6 16.12	+19 6.7	3.951	3.162	10.3	20.6	34 E	16*	23*
5 31	6 29.80	+19 1.7	4.032	3.169	8.5	20.6	28 E	10*	19*
6 10	6 43.70	+18 51.0	4.098	3.175	6.7	20.6	21 E	4*	14*
6 20	6 57.76	+18 34.5	4.148	3.179	4.9	20.5	15 E	—	9*
6 30	7 11.88	+18 12.4	4.181	3.183	3.1	20.4	10 E	—	4*
7 10	7 25.99	+17 44.6	4.198	3.186	1.6	20.3	5 E	—	—
7 20	7 40.01	+17 11.4	4.198	3.188	1.8	20.4	6 W	—	—
7 30	7 53.88	+16 33.0	4.182	3.189	3.4	20.5	11 W	—	4*
8 9	8 7.53	+15 50.0	4.148	3.189	5.2	20.5	17 W	5*	9*
8 19	8 20.90	+15 2.5	4.099	3.189	7.0	20.6	23 W	11*	13*
8 29	8 33.91	+14 11.3	4.033	3.187	8.8	20.6	29 W	18*	17*
9 8	8 46.50	+13 16.9	3.952	3.184	10.5	20.7	35 W	24*	21*
9 18	8 58.59	+12 20.0	3.856	3.181	12.2	20.7	42 W	30*	24*
9 28	9 10.08	+11 21.4	3.747	3.176	13.7	20.7	49 W	36*	28*
10 8	9 20.88	+10 21.9	3.625	3.171	15.1	20.6	56 W	42*	32*
10 18	9 30.89	+ 9 22.6	3.491	3.164	16.3	20.6	63 W	47*	36*
10 28	9 39.94	+ 8 24.7	3.349	3.157	17.2	20.5	70 W	50*	41*
11 7	9 47.89	+ 7 29.4	3.198	3.149	17.9	20.4	78 W	52*	46*
11 17	9 54.55	+ 6 38.3	3.043	3.139	18.3	20.3	86 W	52	50*
11 27	9 59.71	+ 5 53.0	2.886	3.129	18.3	20.2	95 W	51	55*
12 7	10 3.15	+ 5 15.4	2.730	3.118	17.9	20.1	104 W	50	58*
12 17	10 4.62	+ 4 47.5	2.579	3.106	16.9	19.9	114 W	50	59
12 27	10 3.93	+ 4 31.5	2.437	3.093	15.3	19.7	124 W	50	59
1 6	10 0.95	+ 4 29.1	2.310	3.079	13.2	19.5	134 W	49	60
1 16	9 55.69	+ 4 41.6	2.202	3.064	10.4	19.3	146 W	50	59

467335 2002 JA_9

19/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
12 23	5 4.69	+19 15.6	1.025	1.994	6.9	21.1	166 E	64	45
12 28	4 57.98	+19 43.2	1.072	2.023	9.8	21.3	160 E	65	44
1 2	4 52.33	+20 9.3	1.125	2.052	12.4	21.6	153 E	65	44
1 7	4 47.82	+20 34.3	1.184	2.080	14.8	21.8	147 E	66	43
1 12	4 44.44	+20 58.2	1.248	2.108	16.9	22.0	141 E	66	43