2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
217013 2001 AA_{50}									
	h m	° ′			°	m	°	°	°
2 21	21 12.12	−19 30.8	2.084	1.177	14.4	21.5	17 W	—	11*
3 2	21 39.68	−13 59.1	2.041	1.150	16.3	21.4	19 W	2*	13*
3 12	22 6.68	− 8 2.9	1.995	1.126	18.5	21.4	21 W	5*	15*
3 22	22 33.75	− 1 44.4	1.949	1.104	20.7	21.4	23 W	9*	16*
4 1	23 1.55	+ 4 53.0	1.906	1.086	22.9	21.4	25 W	12*	16*
4 11	23 30.81	+11 43.0	1.868	1.073	24.9	21.4	27 W	15*	16*
4 21	0 2.40	+18 36.3	1.838	1.064	26.5	21.4	28 W	18*	15*
5 1	0 37.24	+25 19.1	1.820	1.060	27.5	21.4	29 W	20*	12*
5 11	1 16.22	+31 33.4	1.815	1.061	28.0	21.4	30 W	22*	10*
5 21	2 0.03	+36 58.5	1.823	1.067	27.9	21.4	30 W	23*	6*
5 31	2 48.64	+41 13.7	1.844	1.078	27.2	21.4	29 W	23*	3*
6 10	3 40.87	+44 2.4	1.876	1.094	26.1	21.4	28 W	22*	—
6 20	4 34.36	+45 17.7	1.914	1.114	24.7	21.5	27 W	21*	—
302169 2001 TD_{45}									
2 21	21 54.13	−17 18.3	1.127	0.202	43.0	18.4	8 W	—	1*
2 22	22 3.87	−16 50.7	1.164	0.220	34.0	18.4	7 W	—	—
2 23	22 13.31	−16 14.6	1.198	0.241	27.1	18.4	6 W	—	—
2 24	22 22.35	−15 32.9	1.229	0.264	22.1	18.5	6 W	—	—
2 25	22 30.95	−14 47.6	1.257	0.287	18.7	18.6	5 E	—	—
2 26	22 39.10	−14 0.1	1.284	0.311	16.5	18.8	5 E	—	—
2 27	22 46.83	−13 11.4	1.309	0.335	15.1	18.9	5 E	—	—
2 28	22 54.18	−12 22.2	1.333	0.358	14.5	19.1	5 E	—	—
2 29	23 1.17	−11 32.8	1.356	0.382	14.2	19.3	5 E	—	—
3 1	23 7.83	−10 43.8	1.378	0.405	14.2	19.4	6 E	—	—
3 2	23 14.19	− 9 55.2	1.400	0.427	14.3	19.6	6 E	—	—
3 4	23 26.11	− 8 20.0	1.441	0.471	14.5	19.9	7 E	—	1*
3 6	23 37.12	− 6 48.0	1.480	0.514	14.7	20.1	8 E	—	1*
3 8	23 47.35	− 5 19.5	1.518	0.554	14.8	20.4	8 E	—	2*
3 10	23 56.93	− 3 54.6	1.555	0.593	14.8	20.6	9 E	—	2*
3 12	0 5.94	− 2 33.2	1.590	0.630	14.6	20.7	9 E	1*	2*
3 17	0 26.47	+ 0 35.6	1.676	0.717	13.9	21.1	10 E	2*	2*
3 22	0 44.80	+ 3 25.6	1.757	0.796	12.8	21.4	10 E	3*	2*
3 27	1 1.49	+ 5 59.4	1.833	0.867	11.5	21.6	10 E	3*	1*
4 1	1 16.96	+ 8 19.2	1.904	0.933	10.1	21.8	9 E	3*	—
429736 2011 MB_2									
2 21	22 1.12	−17 42.4	1.711	0.742	10.0	21.5	7 W	—	—
3 2	22 54.01	−12 32.9	1.658	0.677	7.8	21.1	5 E	—	—
3 12	23 47.59	− 6 12.2	1.612	0.630	8.6	20.9	5 E	—	—
3 22	0 41.55	+ 0 58.0	1.575	0.611	14.7	21.0	9 E	1*	2*
4 1	1 35.86	+ 8 22.4	1.545	0.623	22.7	21.3	14 E	6*	4*
480004 2014 KD_{91}									
2 21	22 2.95	+ 5 24.1	2.857	1.930	8.4	21.5	17 W	8*	—
3 2	22 25.89	+ 6 28.1	2.798	1.859	8.0	21.3	15 W	8*	—
3 12	22 49.75	+ 7 38.5	2.731	1.787	8.1	21.2	15 W	9*	—
3 22	23 14.67	+ 8 53.3	2.657	1.715	8.7	21.1	15 W	9*	2*
4 1	23 40.77	+10 10.5	2.577	1.642	9.8	21.0	16 W	9*	5*
4 11	0 8.23	+11 27.1	2.494	1.569	11.2	20.9	18 W	8*	8*
4 21	0 37.25	+12 40.0	2.409	1.497	12.8	20.7	19 W	8*	11*
5 1	1 8.02	+13 45.5	2.323	1.426	14.5	20.6	21 W	7*	13*
5 11	1 40.72	+14 39.0	2.238	1.357	16.3	20.5	22 W	6*	15*
5 16	1 57.85	+14 59.9	2.197	1.324	17.2	20.4	23 W	6*	16*
5 21	2 15.50	+15 15.9	2.157	1.292	18.1	20.4	23 W	6*	16*
5 26	2 33.70	+15 26.4	2.118	1.262	19.0	20.3	24 W	5*	17*
5 31	2 52.41	+15 30.7	2.081	1.232	19.9	20.2	24 W	5*	18*
6 5	3 11.64	+15 28.3	2.047	1.205	20.8	20.2	25 W	4*	18*
6 10	3 31.35	+15 18.7	2.014	1.179	21.6	20.1	25 W	4*	19*
6 20	4 12.07	+14 35.8	1.959	1.134	23.0	20.0	26 W	3*	19*
6 30	4 54.10	+13 20.3	1.916	1.100	24.1	19.9	26 W	2*	20*
7 10	5 36.83	+11 33.2	1.890	1.078	24.7	19.9	26 W	2*	20*
7 15	5 58.23	+10 29.0	1.883	1.072	24.9	19.9	26 W	1*	20*
7 20	6 19.54	+ 9 18.7	1.880	1.069	24.9	19.9	26 W	1*	20*
7 25	6 40.67	+ 8 3.2	1.882	1.070	24.8	19.9	26 W	1*	20*
7 30	7 1.53	+ 6 43.7	1.888	1.075	24.6	19.9	26 W	1*	20*
8 4	7 22.04	+ 5 21.1	1.897	1.083	24.4	19.9	26 W	1*	20*
8 9	7 42.16	+ 3 56.6	1.911	1.094	24.0	19.9	26 W	1*	20*
8 14	8 1.83	+ 2 31.0	1.928	1.108	23.5	20.0	26 W	1*	20*
8 19	8 21.01	+ 1 5.4	1.947	1.126	23.0	20.0	26 W	1*	20*
8 24	8 39.68	− 0 19.6	1.970	1.146	22.5	20.0	26 W	2*	20*
8 29	8 57.80	− 1 43.2	1.994	1.168	21.9	20.1	26 W	2*	20*
9 8	9 32.41	− 4 24.2	2.048	1.220	20.9	20.2	26 W	3*	20*
9 18	10 4.87	− 6 54.9	2.105	1.279	20.1	20.4	26 W	5*	20*
9 28	10 35.27	− 9 13.7	2.161	1.343	19.6	20.5	27 W	7*	20*
10 8	11 3.74	−11 19.7	2.213	1.411	19.4	20.7	28 W	9*	21*
10 18	11 30.44	−13 13.1	2.258	1.481	19.6	20.8	30 W	11*	22*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
480004 2014 KD_{91} *(continuation)*									
	h m	° ′			°	m	°	°	°
10 28	11 55.49	−14 53.8	2.295	1.553	20.2	21.0	33 W	14*	24*
11 7	12 19.00	−16 22.0	2.320	1.626	21.0	21.1	36 W	17*	27*
11 17	12 41.05	−17 37.9	2.333	1.699	22.0	21.3	40 W	19*	30*
11 27	13 1.64	−18 41.2	2.333	1.772	23.0	21.4	45 W	21*	34*
12 7	13 20.79	−19 31.8	2.319	1.844	24.1	21.5	50 W	23*	39*
87025 2000 JT_{66}									
2 21	22 20.52	−18 49.5	2.571	1.598	5.0	21.5	8 E	—	—
3 2	22 45.86	−17 15.2	2.516	1.550	6.5	21.4	10 W	—	—
3 12	23 11.90	−15 29.4	2.450	1.498	8.5	21.4	13 W	—	3*
3 22	23 38.85	−13 31.4	2.375	1.441	10.7	21.3	16 W	—	6*
4 1	0 6.93	−11 20.9	2.293	1.379	13.0	21.3	18 W	—	9*
4 11	0 36.39	− 8 57.4	2.205	1.312	15.3	21.2	20 W	—	11*
4 21	1 7.58	− 6 19.9	2.116	1.240	17.5	21.0	22 W	—	13*
5 1	1 40.87	− 3 27.9	2.026	1.163	19.5	20.8	23 W	—	14*
5 11	2 16.68	− 0 21.2	1.941	1.082	21.2	20.6	23 W	—	14*
5 21	2 55.50	+ 2 59.4	1.862	0.998	22.3	20.4	22 W	—	14*
5 31	3 37.82	+ 6 31.4	1.794	0.913	22.6	20.2	20 W	—	13*
6 5	4 0.44	+ 8 19.9	1.765	0.870	22.3	20.0	19 W	—	12*
6 10	4 24.12	+10 8.8	1.739	0.828	21.6	19.8	17 W	—	10*
6 15	4 48.90	+11 56.8	1.717	0.788	20.4	19.7	16 W	—	9*
6 20	5 14.81	+13 42.0	1.698	0.750	18.6	19.5	14 W	—	7*
6 25	5 41.86	+15 22.4	1.683	0.715	16.2	19.3	11 W	—	5*
6 30	6 10.03	+16 55.4	1.672	0.685	13.1	19.1	9 W	—	2*
7 5	6 39.25	+18 18.2	1.662	0.661	9.5	18.8	6 W	—	—
7 10	7 9.37	+19 27.6	1.655	0.643	5.4	18.6	3 W	—	—
7 15	7 40.21	+20 20.4	1.650	0.634	2.1	18.3	1 E	—	—
7 20	8 11.48	+20 53.8	1.646	0.634	5.0	18.5	3 E	—	—
7 25	8 42.84	+21 5.8	1.644	0.643	9.5	18.7	6 E	—	—
7 30	9 13.94	+20 55.4	1.644	0.660	13.7	19.0	9 E	1*	1*
8 4	9 44.43	+20 22.8	1.646	0.684	17.4	19.2	12 E	4*	3*
8 9	10 14.05	+19 29.5	1.651	0.714	20.5	19.4	14 E	6*	5*
8 14	10 42.57	+18 17.9	1.660	0.748	22.8	19.6	17 E	8*	7*
8 19	11 9.88	+16 50.9	1.673	0.786	24.6	19.7	19 E	10*	8*
8 24	11 35.90	+15 11.6	1.690	0.826	25.7	19.9	21 E	11*	10*
8 29	12 0.64	+13 23.5	1.711	0.868	26.4	20.1	22 E	12*	12*
9 3	12 24.12	+11 29.4	1.737	0.911	26.6	20.2	24 E	13*	13*
9 8	12 46.41	+ 9 32.0	1.767	0.954	26.5	20.3	25 E	14*	14*
9 13	13 7.62	+ 7 33.6	1.800	0.997	26.2	20.5	26 E	15*	15*
9 18	13 27.82	+ 5 36.0	1.836	1.039	25.6	20.6	27 E	15*	16*
9 23	13 47.11	+ 3 40.8	1.876	1.081	24.8	20.7	27 E	15*	16*
9 28	14 5.59	+ 1 49.3	1.917	1.122	24.0	20.8	27 E	16*	16*
10 3	14 23.33	+ 0 2.1	1.961	1.161	23.0	20.9	27 E	15*	16*
10 8	14 40.41	− 1 40.0	2.006	1.200	21.9	21.0	27 E	15*	16*
10 13	14 56.92	− 3 16.6	2.053	1.238	20.8	21.1	26 E	15*	15*
10 18	15 12.92	− 4 47.5	2.100	1.275	19.7	21.1	26 E	15*	14*
10 23	15 28.45	− 6 12.5	2.147	1.310	18.5	21.2	25 E	14*	13*
10 28	15 43.58	− 7 31.6	2.194	1.344	17.3	21.3	24 E	14*	12*
11 2	15 58.33	− 8 44.8	2.240	1.377	16.1	21.3	23 E	13*	11*
11 7	16 12.76	− 9 52.2	2.285	1.409	14.8	21.4	21 E	12*	9*
11 12	16 26.89	−10 54.0	2.330	1.440	13.6	21.4	20 E	12*	8*
11 17	16 40.75	−11 50.2	2.373	1.469	12.3	21.4	19 E	11*	6*
11 22	16 54.36	−12 40.9	2.414	1.497	11.1	21.5	17 E	10*	4*
437844 1999 MN									
2 21	22 22.04	−10 54.5	1.501	0.513	3.7	21.2	2 E	—	—
2 26	22 49.98	− 8 5.3	1.405	0.424	10.0	20.9	4 E	—	—
3 2	23 20.71	− 4 45.5	1.288	0.332	23.1	20.6	8 E	1*	—
3 7	23 52.84	− 1 2.0	1.130	0.251	51.2	20.6	11 E	4*	2*
3 12	0 16.77	+ 2 2.4	0.926	0.228	100.6	21.7	13 E	6*	2*
383413 2006 UZ_{201}									
2 21	22 27.34	−14 17.1	2.695	1.711	2.7	21.4	5 E	—	—
3 2	22 53.53	−11 53.1	2.677	1.691	2.7	21.4	5 E	—	—
3 12	23 19.62	− 9 20.5	2.657	1.673	3.8	21.4	6 W	—	—
3 22	23 45.66	− 6 41.6	2.635	1.658	5.3	21.4	9 W	—	2*
4 1	0 11.66	− 3 58.7	2.613	1.645	6.9	21.5	11 W	—	5*
216523 2001 HY_7									
2 21	22 41.76	− 7 0.0	1.612	0.647	12.1	21.4	8 E	2*	—
2 26	23 8.17	− 4 41.1	1.564	0.612	15.9	21.4	10 E	3*	—
3 2	23 35.55	− 2 13.6	1.514	0.581	20.6	21.3	12 E	5*	1*
3 7	0 3.88	+ 0 20.2	1.461	0.558	26.3	21.3	14 E	7*	3*
3 12	0 33.10	+ 2 57.1	1.406	0.542	32.8	21.4	17 E	10*	6*
3 17	1 3.11	+ 5 33.6	1.348	0.537	39.6	21.5	20 E	12*	8*
156720 2002 TY_{66}									
2 21	22 51.34	+ 1 51.2	3.473	2.535	6.1	21.5	16 E	10*	—
3 2	23 8.14	+ 2 58.7	3.466	2.500	4.3	21.4	11 E	4*	—
3 12	23 25.23	+ 4 10.8	3.444	2.463	3.0	21.3	8 W	—	—
3 22	23 42.63	+ 5 26.3	3.410	2.425	3.1	21.2	8 W	1*	—

156720 2002 TY_{66} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 1	0 0.35	+ 6 44.1	3.362	2.387	4.4	21.2	11 W	3*	2*
4 11	0 18.39	+ 8 3.1	3.302	2.347	6.3	21.2	15 W	4*	7*
4 21	0 36.80	+ 9 21.9	3.230	2.308	8.4	21.2	20 W	6*	12*
5 1	0 55.59	+10 39.3	3.147	2.267	10.5	21.2	24 W	7*	17*
5 11	1 14.81	+11 54.0	3.055	2.226	12.7	21.2	29 W	9*	22*
5 21	1 34.51	+13 4.4	2.954	2.184	14.9	21.2	34 W	11*	26*
5 31	1 54.70	+14 9.1	2.845	2.142	17.0	21.1	38 W	14*	29*
6 10	2 15.43	+15 6.3	2.730	2.099	19.1	21.1	43 W	17*	33*
6 20	2 36.73	+15 54.2	2.609	2.056	21.2	21.0	47 W	20*	36*
6 30	2 58.60	+16 30.8	2.484	2.013	23.2	20.9	51 W	25*	38*
7 10	3 21.05	+16 53.8	2.356	1.971	25.2	20.8	56 W	29*	40*
7 20	3 44.07	+17 1.2	2.226	1.928	27.1	20.7	60 W	34*	41*
7 30	4 7.59	+16 50.2	2.096	1.886	28.9	20.6	64 W	39*	43*
8 9	4 31.54	+16 18.6	1.967	1.844	30.6	20.4	68 W	43*	44*
8 19	4 55.82	+15 23.7	1.839	1.804	32.2	20.3	72 W	47*	46*
8 29	5 20.27	+14 3.3	1.716	1.764	33.7	20.1	76 W	50*	48*
9 8	5 44.75	+12 15.3	1.596	1.726	35.0	19.9	80 W	51*	50*
9 18	6 9.04	+ 9 58.3	1.483	1.689	36.2	19.8	83 W	52*	52*
9 28	6 32.92	+ 7 11.8	1.377	1.655	37.2	19.6	87 W	51*	55*
10 8	6 56.18	+ 3 56.3	1.278	1.623	38.0	19.4	90 W	49*	59*
10 18	7 18.55	+ 0 13.9	1.188	1.594	38.6	19.2	93 W	45	63*
10 28	7 39.76	− 3 51.4	1.107	1.568	39.0	19.1	96 W	41	67*
11 2	7 49.85	− 6 0.7	1.070	1.557	39.1	19.0	98 W	39	70*
11 7	7 59.56	− 8 13.4	1.035	1.546	39.2	18.9	99 W	37	72*
11 12	8 8.82	−10 28.5	1.002	1.536	39.3	18.8	101 W	35	74*
11 17	8 17.60	−12 44.7	0.972	1.527	39.2	18.7	102 W	32	77
11 22	8 25.84	−15 0.7	0.943	1.520	39.1	18.6	104 W	30	79
11 27	8 33.52	−17 15.2	0.916	1.513	39.0	18.6	105 W	28	81
12 2	8 40.58	−19 26.7	0.891	1.508	38.8	18.5	107 W	26	83
12 7	8 46.97	−21 33.9	0.867	1.503	38.5	18.4	108 W	23	86
12 12	8 52.63	−23 35.3	0.845	1.500	38.1	18.3	110 W	21	88
12 17	8 57.50	−25 29.1	0.824	1.498	37.7	18.3	112 W	20	89
12 22	9 1.54	−27 13.6	0.805	1.497	37.2	18.2	113 W	18	89
12 27	9 4.72	−28 47.2	0.787	1.497	36.5	18.1	115 W	16	87
1 1	9 7.04	−30 8.1	0.770	1.498	35.8	18.1	117 W	15	86
1 6	9 8.48	−31 14.6	0.754	1.501	35.0	18.0	119 W	14	85
1 11	9 9.07	−32 5.0	0.739	1.505	34.1	17.9	121 W	13	84
1 16	9 8.87	−32 37.3	0.726	1.509	33.0	17.9	123 W	12	83

8037 1993 HO_1

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
2 21	22 52.18	−10 3.3	3.450	2.479	3.7	21.4	9 E	1*	2*
3 2	23 8.15	− 8 15.5	3.433	2.446	1.7	21.2	4 E	—	—
3 12	23 24.31	− 6 24.2	3.402	2.410	1.4	21.2	3 W	—	—
3 22	23 40.70	− 4 29.9	3.356	2.373	3.4	21.2	8 W	—	2*
4 1	23 57.31	− 2 33.0	3.296	2.335	5.6	21.3	13 W	—	7*
4 11	0 14.18	− 0 34.1	3.224	2.294	7.9	21.3	18 W	—	12*
4 21	0 31.33	+ 1 26.3	3.139	2.253	10.2	21.3	23 W	1*	17*
5 1	0 48.82	+ 3 28.0	3.044	2.209	12.5	21.3	28 W	3*	22*
5 11	1 6.70	+ 5 30.1	2.939	2.164	14.7	21.2	33 W	6*	27*
5 21	1 25.05	+ 7 32.5	2.826	2.117	17.0	21.2	38 W	9*	31*
5 31	1 43.93	+ 9 34.4	2.705	2.069	19.2	21.1	42 W	12*	34*
6 10	2 3.44	+11 35.3	2.579	2.020	21.4	21.0	47 W	16*	37*
6 20	2 23.69	+13 34.6	2.447	1.969	23.6	20.9	51 W	21*	39*
6 30	2 44.79	+15 31.5	2.312	1.917	25.7	20.8	55 W	26*	41*
7 10	3 6.88	+17 25.0	2.175	1.864	27.8	20.7	59 W	32*	41*
7 20	3 30.13	+19 14.3	2.037	1.809	29.9	20.5	63 W	38*	41*
7 30	3 54.70	+20 57.9	1.900	1.754	31.9	20.4	66 W	44*	40*
8 9	4 20.79	+22 34.0	1.765	1.698	34.0	20.2	69 W	49*	39*
8 14	4 34.47	+23 18.7	1.699	1.670	35.0	20.1	71 W	52*	39*
8 19	4 48.62	+24 0.7	1.633	1.642	36.0	20.0	72 W	54*	38*
8 24	5 3.25	+24 39.5	1.569	1.614	37.0	19.9	74 W	56*	38*
8 29	5 18.39	+25 14.9	1.506	1.586	38.0	19.8	75 W	59*	37*
9 3	5 34.07	+25 46.3	1.445	1.558	39.0	19.7	77 W	61*	36*
9 8	5 50.31	+26 13.1	1.386	1.530	40.0	19.6	78 W	62*	36*
9 13	6 7.13	+26 34.9	1.328	1.502	41.1	19.5	79 W	64*	35*
9 18	6 24.53	+26 51.0	1.272	1.475	42.1	19.4	80 W	65*	35*
9 23	6 42.52	+27 0.6	1.219	1.448	43.1	19.3	81 W	66*	34*
9 28	7 1.08	+27 3.0	1.168	1.422	44.2	19.2	81 W	67*	34*
10 3	7 20.21	+26 57.5	1.120	1.396	45.2	19.1	82 W	68*	34*
10 8	7 39.86	+26 43.3	1.074	1.370	46.3	19.0	83 W	69*	34*
10 13	7 59.99	+26 19.8	1.031	1.346	47.4	18.9	83 W	69*	33*
10 18	8 20.53	+25 46.3	0.991	1.322	48.5	18.8	83 W	69*	33*
10 23	8 41.38	+25 2.5	0.954	1.300	49.5	18.7	84 W	69*	33*
10 28	9 2.46	+24 8.0	0.920	1.278	50.6	18.6	84 W	68*	34*
11 2	9 23.67	+23 2.7	0.890	1.258	51.6	18.6	84 W	67*	34*
11 7	9 44.90	+21 47.0	0.862	1.239	52.6	18.5	84 W	66*	34*
11 12	10 6.03	+20 21.4	0.838	1.222	53.6	18.4	83 W	65*	35*
11 17	10 26.95	+18 46.7	0.816	1.207	54.5	18.4	83 W	64*	36*
11 27	11 7.76	+15 14.8	0.781	1.181	56.0	18.3	83 W	60*	38*
12 7	11 46.70	+11 22.2	0.757	1.164	57.1	18.2	83 W	56	41*
12 17	12 23.35	+ 7 21.0	0.739	1.155	57.7	18.1	83 W	52	45*

8037 1993 HO_1 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
12 22	12 40.70	+ 5 20.9	0.733	1.155	57.8	18.1	83 W	50	47*
12 27	12 57.38	+ 3 22.8	0.728	1.156	57.7	18.1	84 W	48	50*
1 1	13 13.39	+ 1 27.6	0.723	1.160	57.5	18.1	84 W	46	53*
1 6	13 28.70	− 0 23.9	0.719	1.166	57.1	18.1	85 W	45	55*
1 11	13 43.29	− 2 10.9	0.715	1.175	56.6	18.1	86 W	43	58*
1 16	13 57.13	− 3 53.0	0.710	1.185	56.0	18.1	87 W	41	61*

286889 2002 PO_{21}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
2 21	22 57.67	− 8 57.9	2.691	1.730	6.2	21.4	11 E	3*	3*
3 2	23 22.98	− 6 37.9	2.690	1.713	4.4	21.3	8 E	—	1*
3 12	23 48.37	− 4 12.5	2.686	1.698	2.9	21.2	5 E	—	—
3 22	0 13.87	− 1 43.8	2.679	1.685	1.8	21.1	3 E	—	—
4 1	0 39.53	+ 0 45.7	2.671	1.675	2.3	21.1	4 W	—	—
4 11	1 5.35	+ 3 13.6	2.662	1.668	3.6	21.2	6 W	—	—
4 21	1 31.38	+ 5 37.6	2.651	1.664	5.2	21.3	9 W	—	2*
5 1	1 57.64	+ 7 55.2	2.639	1.663	6.8	21.3	11 W	—	5*
5 11	2 24.12	+10 4.0	2.627	1.665	8.5	21.4	14 W	—	8*
5 21	2 50.81	+12 2.1	2.613	1.669	10.1	21.4	17 W	—	11*

436774 2012 KY_3

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
2 21	22 59.58	−13 59.8	2.231	1.277	8.9	21.3	11 E	—	5*
3 2	23 26.04	− 9 49.9	2.172	1.202	7.2	21.0	9 E	—	3*
3 12	23 53.58	− 5 17.9	2.105	1.123	5.7	20.7	6 E	—	—
3 22	0 22.71	− 0 22.4	2.031	1.040	4.2	20.4	4 E	—	—
4 1	0 54.16	+ 4 56.6	1.951	0.954	3.2	20.1	3 E	—	—
4 11	1 28.94	+10 36.8	1.866	0.868	4.0	19.8	3 E	—	—
4 16	1 48.00	+13 32.9	1.823	0.826	5.3	19.7	4 E	—	—
4 21	2 8.46	+16 31.0	1.780	0.786	7.2	19.7	6 E	—	—
4 26	2 30.56	+19 28.5	1.736	0.748	9.6	19.6	7 E	1*	—
5 1	2 54.57	+22 21.8	1.692	0.713	12.5	19.6	9 E	3*	—
5 6	3 20.71	+25 6.0	1.647	0.683	16.0	19.5	11 E	5*	—
5 11	3 49.20	+27 34.8	1.603	0.659	20.0	19.5	13 E	7*	—
5 16	4 20.06	+29 40.9	1.560	0.642	24.4	19.5	15 E	9*	—
5 21	4 53.16	+31 16.3	1.518	0.634	29.0	19.6	18 E	11*	1*
5 26	5 28.02	+32 13.5	1.479	0.634	33.6	19.7	20 E	13*	3*
5 31	6 3.93	+32 27.0	1.443	0.643	37.8	19.8	23 E	15*	6*
6 5	6 39.98	+31 54.5	1.411	0.661	41.4	19.9	26 E	17*	9*
6 10	7 15.27	+30 37.3	1.386	0.685	44.3	20.0	28 E	18*	13*
6 15	7 49.06	+28 40.0	1.368	0.716	46.4	20.1	31 E	18*	16*
6 20	8 20.87	+26 9.5	1.357	0.751	47.7	20.2	33 E	18*	20*
6 25	8 50.48	+23 13.7	1.354	0.789	48.3	20.4	35 E	18*	23*
6 30	9 17.88	+20 0.6	1.359	0.830	48.3	20.5	38 E	17*	27*
7 5	9 43.18	+16 37.4	1.371	0.872	47.8	20.6	39 E	16*	30*
7 10	10 6.60	+13 10.2	1.391	0.915	46.9	20.7	41 E	15*	32*
7 15	10 28.35	+ 9 43.7	1.417	0.958	45.8	20.8	43 E	13*	35*
7 20	10 48.68	+ 6 21.5	1.449	1.001	44.5	20.9	44 E	12*	36*
7 25	11 7.79	+ 3 6.0	1.485	1.043	43.1	21.0	45 E	10*	38*
7 30	11 25.87	− 0 1.1	1.526	1.085	41.6	21.1	45 E	9*	39*
8 4	11 43.07	− 2 58.9	1.571	1.126	40.1	21.2	46 E	8*	40*
8 9	11 59.56	− 5 47.0	1.618	1.166	38.6	21.3	46 E	6*	40*
8 14	12 15.45	− 8 25.5	1.668	1.206	37.1	21.4	46 E	5*	40*

335323 2005 QV_{108}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
2 21	23 13.02	− 7 17.8	2.866	1.928	7.6	21.5	15 E	7*	5*
3 2	23 35.65	− 5 54.8	2.856	1.892	5.7	21.3	11 E	3*	3*
3 12	23 58.76	− 4 26.6	2.838	1.857	4.0	21.2	7 E	—	1*
3 22	0 22.42	− 2 54.9	2.812	1.823	3.0	21.1	5 E	—	—
4 1	0 46.64	− 1 21.3	2.781	1.790	3.3	21.0	6 E	—	—
4 11	1 11.45	+ 0 12.3	2.745	1.760	4.7	21.0	8 W	—	—
4 21	1 36.91	+ 1 44.2	2.706	1.731	6.4	21.0	11 W	—	3*
5 1	2 3.03	+ 3 12.2	2.664	1.704	8.3	21.1	14 W	—	6*
5 11	2 29.82	+ 4 34.3	2.620	1.679	10.0	21.1	17 W	—	9*
5 21	2 57.26	+ 5 48.3	2.576	1.658	11.8	21.1	20 W	—	12*
5 31	3 25.31	+ 6 52.1	2.533	1.639	13.4	21.1	22 W	—	15*
6 10	3 53.88	+ 7 43.7	2.492	1.623	15.0	21.1	24 W	—	18*
6 20	4 22.87	+ 8 21.5	2.452	1.611	16.5	21.1	27 W	—	21*
6 30	4 52.11	+ 8 44.2	2.415	1.602	17.8	21.1	29 W	—	23*
7 10	5 21.42	+ 8 50.9	2.381	1.597	19.1	21.1	31 W	2*	25*
7 20	5 50.63	+ 8 41.4	2.349	1.595	20.3	21.1	33 W	6*	27*
7 30	6 19.52	+ 8 16.2	2.318	1.598	21.4	21.1	35 W	9*	28*
8 9	6 47.90	+ 7 36.1	2.290	1.603	22.5	21.1	37 W	13*	29*
8 19	7 15.62	+ 6 42.7	2.262	1.613	23.5	21.1	39 W	17*	31*
8 29	7 42.53	+ 5 37.7	2.233	1.626	24.4	21.1	42 W	21*	32*
9 8	8 8.51	+ 4 23.5	2.204	1.642	25.4	21.2	44 W	24*	33*
9 18	8 33.50	+ 3 2.2	2.171	1.662	26.4	21.2	47 W	27*	35*
9 28	8 57.41	+ 1 36.4	2.136	1.684	27.3	21.2	50 W	31*	37*
10 8	9 20.19	+ 0 8.5	2.095	1.709	28.2	21.2	54 W	33*	39*
10 18	9 41.81	− 1 19.2	2.050	1.737	29.0	21.2	58 W	36*	41*
10 28	10 2.18	− 2 43.9	1.998	1.766	29.8	21.2	62 W	38*	44*
11 7	10 21.25	− 4 3.3	1.940	1.797	30.4	21.2	67 W	39*	47*
11 17	10 38.92	− 5 14.7	1.876	1.830	30.9	21.2	72 W	39*	51*

335323 2005 QV_{108} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
11 27	10 55.02	− 6 15.1	1.806	1.864	31.1	21.2	78 W	39	56*
12 7	11 9.39	− 7 1.5	1.730	1.900	31.1	21.1	84 W	38	61*
12 17	11 21.77	− 7 30.5	1.650	1.936	30.5	21.0	91 W	37	66*
12 27	11 31.86	− 7 37.9	1.568	1.973	29.5	20.9	99 W	37	71*
1 6	11 39.36	− 7 19.5	1.487	2.010	27.9	20.8	107 W	38	71
1 16	11 43.89	− 6 30.8	1.409	2.048	25.4	20.7	117 W	38	71

283319 1992 WR_4

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
2 21	23 28.43	− 0 53.8	2.403	1.521	13.5	21.5	21 E	14*	6*
3 2	23 55.40	+ 1 41.2	2.392	1.483	12.0	21.4	18 E	11*	4*
3 12	0 23.26	+ 4 20.8	2.379	1.446	10.6	21.3	16 E	9*	3*
3 22	0 52.12	+ 7 2.3	2.364	1.413	9.3	21.1	13 E	7*	2*
4 1	1 22.08	+ 9 41.9	2.350	1.383	8.1	21.0	11 E	5*	1*
4 11	1 53.19	+12 15.6	2.336	1.357	6.9	20.9	9 E	3*	—
4 21	2 25.50	+14 39.1	2.324	1.335	5.8	20.8	8 E	1*	—
5 1	2 59.01	+16 47.5	2.316	1.319	4.9	20.7	6 E	—	—
5 11	3 33.60	+18 36.4	2.311	1.308	4.0	20.7	5 E	—	—
5 21	4 9.08	+20 1.5	2.310	1.303	3.2	20.6	4 E	—	—
5 31	4 45.17	+20 59.4	2.314	1.303	2.4	20.6	3 E	—	—
6 10	5 21.47	+21 28.1	2.323	1.309	1.9	20.5	2 E	—	—
6 20	5 57.61	+21 26.8	2.336	1.321	1.6	20.6	2 E	—	—
6 30	6 33.16	+20 56.3	2.354	1.339	1.8	20.6	2 W	—	—
7 10	7 7.76	+19 58.8	2.375	1.361	2.4	20.7	3 W	—	—
7 20	7 41.15	+18 37.3	2.399	1.388	3.3	20.8	4 W	—	—
7 30	8 13.17	+16 55.6	2.424	1.418	4.3	21.0	6 W	—	—
8 9	8 43.73	+14 57.7	2.450	1.452	5.5	21.1	8 W	—	1*
8 19	9 12.83	+12 47.4	2.476	1.489	6.8	21.2	10 W	1*	3*
8 29	9 40.54	+10 28.2	2.499	1.528	8.1	21.4	12 W	3*	5*

194459 2001 WE_2

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	0 21.78	+ 5 15.0	2.968	2.119	11.7	21.4	26 E	19*	8*
3 12	0 40.75	+ 7 16.7	2.973	2.074	9.8	21.3	21 E	14*	5*
3 22	1 0.55	+ 9 20.8	2.967	2.029	7.9	21.2	16 E	10*	2*
4 1	1 21.23	+11 26.1	2.952	1.985	6.0	21.0	12 E	6*	—
4 11	1 42.84	+13 30.8	2.929	1.941	4.1	20.8	8 E	2*	—
4 21	2 5.46	+15 33.1	2.898	1.897	2.3	20.7	4 E	—	—
5 1	2 29.16	+17 31.2	2.861	1.855	1.5	20.5	3 W	—	—
5 11	2 54.02	+19 22.7	2.818	1.813	2.5	20.5	5 W	—	—
5 21	3 20.09	+21 5.0	2.771	1.773	4.3	20.5	7 W	—	—
5 31	3 47.41	+22 35.4	2.721	1.734	6.1	20.5	10 W	1*	3*
6 10	4 15.94	+23 51.0	2.669	1.697	7.9	20.5	13 W	3*	5*
6 20	4 45.65	+24 48.8	2.616	1.662	9.6	20.5	16 W	5*	7*
6 30	5 16.40	+25 26.0	2.563	1.630	11.3	20.5	18 W	7*	9*
7 10	5 47.96	+25 40.0	2.511	1.601	13.0	20.5	21 W	10*	10*
7 20	6 20.09	+25 29.1	2.460	1.576	14.6	20.5	23 W	13*	11*
7 30	6 52.48	+24 52.1	2.411	1.554	16.2	20.4	25 W	15*	12*
8 9	7 24.79	+23 49.0	2.365	1.536	17.6	20.4	27 W	18*	13*
8 19	7 56.74	+22 20.9	2.321	1.523	19.0	20.4	29 W	20*	13*
8 29	8 28.06	+20 29.7	2.280	1.514	20.4	20.4	32 W	23*	14*
9 8	8 58.53	+18 18.3	2.241	1.510	21.7	20.4	34 W	25*	15*
9 18	9 28.05	+15 49.9	2.205	1.511	23.0	20.4	36 W	27*	17*
9 28	9 56.52	+13 8.3	2.169	1.517	24.2	20.4	38 W	30*	18*
10 8	10 23.93	+10 17.4	2.135	1.527	25.4	20.4	41 W	32*	20*
10 18	10 50.30	+ 7 20.9	2.101	1.542	26.5	20.5	44 W	34*	22*
10 28	11 15.63	+ 4 22.3	2.066	1.561	27.6	20.5	47 W	35*	25*
11 7	11 39.96	+ 1 24.8	2.030	1.585	28.6	20.5	50 W	37*	28*
11 17	12 3.30	− 1 28.9	1.990	1.611	29.5	20.5	53 W	37*	32*
11 27	12 25.64	− 4 16.1	1.948	1.642	30.4	20.5	57 W	37*	36*
12 7	12 46.93	− 6 55.0	1.902	1.675	31.2	20.5	62 W	37*	41*
12 17	13 7.11	− 9 24.0	1.851	1.710	31.8	20.6	66 W	35*	47*
12 27	13 26.01	−11 41.8	1.796	1.748	32.2	20.5	71 W	33	54*
1 6	13 43.47	−13 47.4	1.737	1.787	32.4	20.5	77 W	31	61*
1 16	13 59.24	−15 40.4	1.673	1.828	32.2	20.5	83 W	29	69*

326386 2001 OA_{14}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	0 32.52	−42 30.5	0.322	0.780	122.4	20.5	42 E	—	28*
3 4	0 42.18	−45 53.3	0.329	0.795	117.6	20.3	45 E	—	29*
3 6	0 52.02	−48 57.1	0.338	0.810	113.1	20.0	49 E	—	30*
3 8	1 2.01	−51 42.1	0.347	0.825	108.8	19.9	52 E	—	31*
3 10	1 12.14	−54 9.3	0.358	0.840	104.8	19.8	55 E	—	32*
3 12	1 22.40	−56 19.7	0.369	0.855	101.0	19.7	58 E	—	32*
3 14	1 32.77	−58 15.0	0.380	0.870	97.5	19.6	60 E	—	33*
3 16	1 43.25	−59 56.7	0.392	0.885	94.3	19.6	63 E	—	33*
3 18	1 53.84	−61 26.4	0.403	0.901	91.3	19.5	65 E	—	34*
3 20	2 4.52	−62 45.4	0.415	0.916	88.5	19.5	67 E	—	34*
3 22	2 15.30	−63 55.0	0.426	0.931	85.9	19.5	69 E	—	35*
3 24	2 26.17	−64 56.5	0.438	0.947	83.5	19.5	71 E	—	35*
3 26	2 37.14	−65 50.9	0.449	0.962	81.3	19.5	72 E	—	35*
3 28	2 48.21	−66 39.1	0.459	0.977	79.1	19.5	74 E	—	35*
3 30	2 59.39	−67 21.8	0.470	0.992	77.2	19.5	76 E	—	36*
4 1	3 10.68	−67 59.7	0.480	1.007	75.3	19.6	77 E	—	36*
4 3	3 22.11	−68 33.3	0.490	1.021	73.5	19.6	78 E	—	36*

326386 2001 OA_{14} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 5	3 33.67	−69 3.2	0.499	1.036	71.9	19.6	80 E	—	37*
4 7	3 45.39	−69 29.7	0.508	1.050	70.3	19.6	81 E	—	37*
4 9	3 57.28	−69 53.1	0.517	1.065	68.8	19.6	82 E	—	37*
4 11	4 9.35	−70 13.7	0.525	1.079	67.4	19.6	84 E	—	37*
4 16	4 40.44	−70 54.0	0.545	1.113	64.1	19.7	87 E	—	38*
4 21	5 12.94	−71 20.2	0.562	1.147	61.2	19.7	89 E	—	39*
4 26	5 46.88	−71 33.2	0.578	1.179	58.5	19.8	92 E	—	40*
5 1	6 22.04	−71 32.7	0.593	1.210	56.1	19.8	95 E	—	41*
5 3	6 36.36	−71 28.7	0.599	1.222	55.2	19.8	96 E	—	41*
5 5	6 50.77	−71 22.3	0.604	1.233	54.3	19.8	97 E	—	42*
5 7	7 5.25	−71 13.5	0.610	1.245	53.5	19.9	97 E	—	42*
5 9	7 19.75	−71 2.3	0.615	1.256	52.7	19.9	98 E	—	43*
5 11	7 34.22	−70 48.6	0.621	1.267	51.9	19.9	99 E	—	43*
5 13	7 48.64	−70 32.4	0.626	1.278	51.1	19.9	100 E	—	44*
5 15	8 2.95	−70 13.6	0.632	1.289	50.4	19.9	101 E	—	44*
5 17	8 17.13	−69 52.4	0.637	1.299	49.7	19.9	102 E	—	45*
5 19	8 31.13	−69 28.7	0.643	1.310	49.0	20.0	102 E	—	46*
5 21	8 44.91	−69 2.6	0.649	1.320	48.4	20.0	103 E	—	46*
5 23	8 58.45	−68 34.2	0.655	1.329	47.7	20.0	104 E	—	47*
5 25	9 11.72	−68 3.5	0.661	1.339	47.1	20.0	104 E	—	47*
5 27	9 24.70	−67 30.7	0.667	1.348	46.6	20.0	105 E	—	48*
5 29	9 37.36	−66 56.0	0.674	1.358	46.0	20.1	105 E	—	49*
5 31	9 49.70	−66 19.3	0.680	1.367	45.5	20.1	106 E	—	49*
6 5	10 19.09	−64 40.5	0.698	1.388	44.4	20.1	107 E	—	51*
6 10	10 46.38	−62 53.2	0.718	1.408	43.5	20.2	107 E	—	53*
6 15	11 11.69	−60 59.8	0.741	1.427	42.7	20.3	108 E	—	55*
6 20	11 35.20	−59 2.8	0.765	1.444	42.2	20.4	107 E	—	57*
6 25	11 57.09	−57 4.5	0.792	1.460	41.8	20.4	107 E	—	59
6 30	12 17.57	−55 7.0	0.821	1.474	41.5	20.5	106 E	—	61*
7 5	12 36.79	−53 12.0	0.853	1.488	41.3	20.6	105 E	—	63*
7 10	12 54.92	−51 20.6	0.887	1.500	41.2	20.7	104 E	—	65*
7 15	13 12.12	−49 33.7	0.923	1.510	41.1	20.8	102 E	—	66*
7 20	13 28.55	−47 51.8	0.961	1.520	41.1	20.9	100 E	—	68*
7 25	13 44.30	−46 15.5	1.001	1.527	41.1	21.0	98 E	—	69*
7 30	13 59.49	−44 44.8	1.042	1.534	41.1	21.1	96 E	—	70*
8 4	14 14.18	−43 19.6	1.085	1.540	41.1	21.2	94 E	—	71*
8 9	14 28.44	−41 59.7	1.129	1.544	41.0	21.3	92 E	—	72*
8 14	14 42.35	−40 44.6	1.174	1.546	40.9	21.4	90 E	—	72*
8 19	14 55.96	−39 34.0	1.219	1.548	40.8	21.5	87 E	—	72*

163348 2002 NN_4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	0 32.75	+ 4 25.4	1.242	0.587	51.7	21.3	28 E	20*	11*
3 7	0 54.67	+ 6 7.8	1.159	0.551	58.8	21.2	28 E	20*	12*
3 12	1 16.87	+ 7 41.4	1.068	0.522	67.5	21.2	29 E	21*	13*
3 17	1 38.77	+ 9 1.0	0.972	0.503	77.8	21.3	30 E	21*	14*
3 22	1 59.58	+10 1.6	0.871	0.496	89.3	21.4	30 E	21*	15*

142563 2002 TR_{69}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	0 58.75	+20 53.9	2.496	1.879	20.6	21.5	42 E	36*	9*
3 12	1 19.17	+22 51.4	2.527	1.841	19.2	21.4	38 E	31*	6*
3 22	1 40.93	+24 49.7	2.547	1.801	17.7	21.3	33 E	27*	3*
4 1	2 4.14	+26 46.6	2.557	1.759	16.3	21.2	30 E	24*	1*
4 11	2 28.91	+28 39.3	2.556	1.715	15.0	21.1	26 E	20*	—
4 21	2 55.40	+30 24.6	2.547	1.671	13.7	21.0	23 E	17*	—
5 1	3 23.71	+31 58.9	2.530	1.624	12.5	20.9	20 E	14*	—
5 11	3 53.91	+33 17.7	2.506	1.577	11.4	20.8	18 E	12*	—
5 21	4 26.02	+34 16.5	2.476	1.529	10.5	20.7	16 E	10*	—
5 31	4 59.92	+34 50.0	2.442	1.480	9.7	20.5	14 E	8*	—
6 10	5 35.35	+34 53.2	2.404	1.431	9.0	20.4	13 E	6*	—
6 15	5 53.53	+34 41.9	2.384	1.407	8.7	20.3	12 E	6*	—
6 20	6 11.95	+34 21.3	2.364	1.383	8.4	20.3	12 E	5*	—
6 25	6 30.53	+33 51.1	2.343	1.359	8.2	20.2	11 E	4*	—
6 30	6 49.21	+33 10.9	2.323	1.335	7.9	20.1	10 E	4*	—
7 5	7 7.91	+32 20.4	2.302	1.312	7.6	20.0	10 E	3*	—
7 10	7 26.58	+31 19.5	2.282	1.290	7.3	20.0	9 E	3*	—
7 20	8 3.60	+28 46.7	2.243	1.246	6.7	19.8	8 E	1*	—
7 30	8 39.88	+25 33.9	2.207	1.206	5.9	19.7	7 E	—	—
8 9	9 15.19	+21 44.0	2.174	1.170	5.1	19.6	6 W	—	—
8 19	9 49.51	+17 21.6	2.145	1.140	4.2	19.4	5 W	—	—
8 24	10 6.33	+14 59.8	2.133	1.127	3.7	19.4	4 W	—	—
8 29	10 22.94	+12 32.2	2.122	1.116	3.3	19.3	4 W	—	—
9 3	10 39.39	+ 9 59.4	2.112	1.107	3.0	19.3	3 W	—	—
9 8	10 55.72	+ 7 22.5	2.104	1.099	2.9	19.2	3 W	—	—
9 13	11 11.95	+ 4 42.3	2.097	1.094	3.0	19.2	3 W	—	—
9 18	11 28.15	+ 1 59.8	2.092	1.091	3.3	19.2	4 W	—	—
9 23	11 44.35	− 0 44.0	2.088	1.090	3.8	19.2	4 W	—	—
9 28	12 0.60	− 3 28.0	2.086	1.091	4.3	19.3	5 W	—	—
10 3	12 16.94	− 6 11.1	2.086	1.094	4.9	19.3	5 W	—	—

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		142563 2002 TR_{69}			*(continuation)*				
	h m	° ′			°	m	°	°	°
10 8	12 33.42	− 8 52.4	2.088	1.100	5.5	19.4	6 W	—	—
10 13	12 50.08	−11 30.7	2.091	1.107	6.2	19.4	7 W	—	1*
10 18	13 6.97	−14 5.1	2.096	1.116	6.7	19.5	8 W	—	1*
10 23	13 24.12	−16 34.4	2.103	1.127	7.3	19.5	8 W	—	2*
10 28	13 41.55	−18 57.7	2.111	1.140	7.8	19.6	9 W	—	3*
11 2	13 59.28	−21 13.9	2.121	1.155	8.3	19.6	10 W	—	3*
11 7	14 17.33	−23 22.2	2.132	1.171	8.7	19.7	10 W	—	4*
11 12	14 35.70	−25 21.9	2.145	1.188	9.1	19.7	11 W	—	5*
11 17	14 54.37	−27 12.1	2.159	1.207	9.5	19.8	12 W	—	5*
11 22	15 13.32	−28 52.2	2.174	1.226	9.8	19.9	12 W	—	6*
11 27	15 32.51	−30 21.7	2.190	1.247	10.1	19.9	13 W	—	6*
12 7	16 11.39	−32 47.7	2.224	1.290	10.7	20.1	14 W	—	7*
12 17	16 50.48	−34 28.9	2.259	1.336	11.3	20.2	15 W	—	9*
12 27	17 29.12	−35 26.4	2.295	1.384	11.9	20.3	17 W	—	10*
1 1	17 48.07	−35 39.7	2.312	1.408	12.3	20.4	18 W	—	11*
1 6	18 6.67	−35 43.5	2.329	1.432	12.7	20.5	19 W	—	12*
1 11	18 24.86	−35 38.4	2.344	1.457	13.2	20.5	20 W	—	13*
1 16	18 42.59	−35 25.1	2.359	1.481	13.6	20.6	21 W	—	14*
		495954 2007 BZ_{72}							
3 2	0 58.78	− 1 53.3	2.428	1.672	18.3	21.5	32 E	20*	20*
3 12	1 23.45	+ 0 29.2	2.427	1.629	17.1	21.4	29 E	17*	18*
3 22	1 49.23	+ 2 53.8	2.423	1.588	15.9	21.3	26 E	14*	16*
4 1	2 16.18	+ 5 17.9	2.417	1.552	14.8	21.2	23 E	11*	15*
4 11	2 44.30	+ 7 38.3	2.411	1.521	13.8	21.1	21 E	8*	13*
4 21	3 13.59	+ 9 51.7	2.406	1.494	12.8	21.0	19 E	6*	12*
5 1	3 44.02	+11 54.3	2.403	1.473	11.8	21.0	17 E	3*	11*
5 11	4 15.47	+13 42.6	2.404	1.458	10.9	20.9	16 E	1*	9*
5 21	4 47.79	+15 13.0	2.409	1.450	9.9	20.9	14 E	—	8*
5 31	5 20.74	+16 22.8	2.419	1.448	8.9	20.8	13 E	—	7*
6 10	5 54.01	+17 9.8	2.435	1.452	7.8	20.8	11 E	—	5*
6 20	6 27.31	+17 33.1	2.456	1.464	6.6	20.8	10 E	—	3*
6 30	7 0.30	+17 32.7	2.481	1.481	5.4	20.8	8 E	—	2*
7 10	7 32.65	+17 9.8	2.511	1.504	4.2	20.8	6 E	—	—
7 20	8 4.13	+16 26.6	2.544	1.533	3.0	20.8	4 E	—	—
7 30	8 34.54	+15 25.7	2.580	1.567	2.1	20.8	3 W	—	—
8 9	9 3.77	+14 10.3	2.616	1.605	2.2	20.9	3 W	—	—
8 19	9 31.78	+12 43.6	2.652	1.647	3.3	21.0	5 W	—	—
8 29	9 58.54	+11 8.7	2.686	1.692	4.8	21.2	8 W	1*	—
9 8	10 24.10	+ 9 28.6	2.717	1.739	6.5	21.4	11 W	4*	2*
		409995 2006 WV_3							
3 2	1 5.90	− 2 1.3	2.289	1.564	20.6	21.5	34 E	21*	22*
3 12	1 30.34	+ 1 1.7	2.295	1.526	19.4	21.4	31 E	18*	19*
3 22	1 55.84	+ 4 5.6	2.297	1.489	18.1	21.3	28 E	16*	17*
4 1	2 22.50	+ 7 8.0	2.296	1.454	16.9	21.2	25 E	13*	15*
4 11	2 50.41	+10 5.6	2.293	1.422	15.8	21.1	23 E	11*	13*
4 21	3 19.67	+12 55.0	2.289	1.393	14.6	21.0	21 E	9*	12*
5 1	3 50.35	+15 32.3	2.286	1.368	13.5	21.0	19 E	7*	10*
5 11	4 22.43	+17 53.1	2.283	1.348	12.4	20.9	17 E	5*	9*
5 21	4 55.87	+19 53.2	2.283	1.332	11.4	20.8	15 E	4*	7*
5 31	5 30.50	+21 28.6	2.285	1.321	10.3	20.8	14 E	2*	6*
6 10	6 6.06	+22 35.8	2.291	1.315	9.3	20.7	12 E	1*	5*
6 20	6 42.21	+23 12.5	2.299	1.315	8.4	20.7	11 E	—	4*
6 30	7 18.52	+23 17.6	2.312	1.321	7.4	20.7	10 E	—	2*
7 10	7 54.56	+22 51.7	2.328	1.331	6.5	20.7	9 E	—	1*
7 20	8 29.94	+21 56.6	2.348	1.347	5.7	20.7	8 E	—	—
7 30	9 4.35	+20 35.6	2.371	1.368	4.9	20.7	7 E	—	—
8 9	9 37.57	+18 52.8	2.397	1.393	4.3	20.7	6 E	—	—
8 19	10 9.50	+16 52.5	2.425	1.421	4.0	20.8	6 E	—	—
8 29	10 40.11	+14 39.3	2.455	1.453	4.0	20.8	6 E	—	—
9 8	11 9.44	+12 17.6	2.484	1.488	4.5	20.9	7 E	—	—
9 18	11 37.60	+ 9 51.1	2.513	1.525	5.3	21.1	8 W	1*	—
9 28	12 4.67	+ 7 23.5	2.541	1.564	6.4	21.2	10 W	3*	—
10 8	12 30.78	+ 4 57.9	2.565	1.604	7.7	21.3	12 W	6*	—
10 18	12 56.04	+ 2 36.6	2.586	1.645	9.1	21.5	15 W	9*	—
		338292 2002 UA_{31}							
3 2	1 36.84	− 3 25.9	1.450	0.960	42.8	21.4	41 E	24*	29*
3 12	2 3.61	− 2 24.5	1.405	0.883	44.6	21.2	39 E	21*	28*
3 22	2 31.29	− 1 16.1	1.331	0.794	48.2	20.9	36 E	18*	27*
4 1	2 59.77	+ 0 6.7	1.221	0.695	54.9	20.6	35 E	15*	27*
4 11	3 27.79	+ 2 4.9	1.072	0.588	67.1	20.4	33 E	12*	25*
4 13	3 33.03	+ 2 36.9	1.038	0.567	70.5	20.3	32 E	12*	25*
4 15	3 38.01	+ 3 13.3	1.001	0.546	74.4	20.3	32 E	11*	24*
4 17	3 42.63	+ 3 55.1	0.964	0.525	78.8	20.3	31 E	10*	24*
4 19	3 46.78	+ 4 43.5	0.924	0.505	83.8	20.3	30 E	10*	23*
4 21	3 50.30	+ 5 40.0	0.884	0.486	89.5	20.3	29 E	9*	22*
4 23	3 52.99	+ 6 46.4	0.843	0.469	95.8	20.4	28 E	9*	21*
4 25	3 54.63	+ 8 4.4	0.803	0.453	103.0	20.6	26 E	8*	19*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
		338292 2002 UA_{31}			*(continuation)*				
	h m	° ′			°	m	°	°	°
4 27	3 54.94	+ 9 36.2	0.762	0.439	111.0	20.9	24 E	7*	17*
4 29	3 53.64	+11 23.2	0.724	0.427	119.9	21.3	22 E	6*	14*
		140333 2001 TD_2							
3 2	1 40.66	+26 31.6	1.237	1.018	51.0	21.4	53 E	47*	13*
3 7	1 53.55	+27 30.8	1.220	0.978	52.3	21.3	51 E	45*	12*
3 12	2 7.03	+28 26.8	1.197	0.935	53.9	21.2	49 E	43*	12*
3 17	2 21.15	+29 18.1	1.168	0.891	55.9	21.1	48 E	42*	11*
3 22	2 35.88	+30 2.7	1.132	0.845	58.4	21.0	46 E	40*	11*
3 27	2 51.18	+30 38.0	1.090	0.798	61.5	20.9	45 E	39*	10*
4 1	3 6.89	+31 0.6	1.041	0.750	65.5	20.8	43 E	37*	10*
4 6	3 22.76	+31 5.7	0.984	0.702	70.6	20.7	41 E	35*	10*
4 11	3 38.28	+30 46.9	0.920	0.655	77.0	20.6	40 E	33*	11*
4 16	3 52.67	+29 55.7	0.850	0.610	85.2	20.6	37 E	31*	11*
4 21	4 4.68	+28 20.6	0.775	0.569	95.6	20.6	34 E	27*	12*
4 26	4 12.49	+25 47.5	0.699	0.535	108.6	20.9	30 E	22*	12*
		376861 2001 TH_7							
3 2	11 38.12	+13 36.6	2.501	3.474	3.7	22.4	167 W	59	50
3 7	11 33.87	+14 4.0	2.494	3.474	3.0	22.4	170 W	59	50
3 12	11 29.51	+14 29.6	2.494	3.474	3.2	22.4	169 W	59	50
3 17	11 25.16	+14 53.0	2.502	3.474	4.1	22.5	165 E	60	49
3 22	11 20.89	+15 13.5	2.518	3.474	5.4	22.6	161 E	60	49
3 27	11 16.80	+15 30.8	2.541	3.473	6.9	22.6	155 E	61	48
4 1	11 12.99	+15 44.6	2.571	3.472	8.3	22.7	150 E	61	48
		465098 2006 UQ_{217}							
3 2	11 41.05	+32 25.3	3.546	4.447	5.9	23.0	152 W	77	32
3 7	11 37.01	+32 53.1	3.537	4.436	6.1	23.0	152 W	78	31
3 12	11 32.85	+33 17.1	3.536	4.425	6.4	23.0	150 W	78	31
3 17	11 28.66	+33 37.1	3.542	4.413	7.0	23.0	147 E	79	30
3 22	11 24.50	+33 52.6	3.554	4.401	7.6	23.0	144 E	79	30
3 27	11 20.46	+34 3.5	3.574	4.389	8.3	23.1	140 E	79	30
4 1	11 16.61	+34 9.8	3.599	4.377	9.1	23.1	136 E	79	30
		396626 2001 TX_{236}							
3 2	11 42.55	+ 6 51.1	1.846	2.822	4.4	22.5	167 W	52	57
3 7	11 37.83	+ 7 24.2	1.832	2.819	2.5	22.3	173 W	52	57
3 12	11 32.95	+ 7 56.9	1.825	2.816	1.7	22.3	175 W	53	56
3 17	11 28.01	+ 8 28.4	1.826	2.813	3.0	22.4	171 E	53	56
3 22	11 23.16	+ 8 58.0	1.834	2.810	5.0	22.5	166 E	54	55
3 27	11 18.52	+ 9 24.7	1.849	2.807	7.1	22.6	160 E	54	55
4 1	11 14.22	+ 9 48.1	1.871	2.803	9.0	22.7	154 E	55	54
		401099 2011 UZ_{189}							
3 2	11 42.57	+13 1.3	1.823	2.796	4.8	22.3	166 W	58	51
3 7	11 37.67	+13 34.1	1.807	2.789	3.8	22.3	169 W	59	50
3 12	11 32.58	+14 4.9	1.798	2.781	3.8	22.3	169 W	59	50
3 17	11 27.41	+14 33.0	1.797	2.773	5.0	22.3	166 E	60	49
3 22	11 22.32	+14 57.5	1.803	2.764	6.7	22.4	161 E	60	49
3 27	11 17.43	+15 17.9	1.815	2.756	8.6	22.5	156 E	60	49
4 1	11 12.88	+15 33.5	1.835	2.747	10.4	22.6	150 E	61	48
		496334 2013 PL_3							
3 2	11 43.71	− 6 19.8	2.753	3.705	4.9	22.7	161 W	39	70
3 12	11 35.93	− 5 33.7	2.737	3.722	2.4	22.5	171 W	39	70
3 22	11 28.08	− 4 41.6	2.753	3.737	2.7	22.5	170 E	40	69
4 1	11 20.83	− 3 47.9	2.799	3.752	5.3	22.7	160 E	41	68
4 11	11 14.70	− 2 56.8	2.874	3.767	7.9	22.9	149 E	42	67
		396967 2005 RZ_{51}							
3 2	11 44.02	− 1 55.7	1.480	2.448	6.4	22.4	164 W	43	66
3 12	11 33.43	− 0 54.7	1.424	2.416	1.8	22.0	176 W	44	65
3 22	11 22.12	+ 0 15.1	1.397	2.383	4.5	22.1	169 E	45	64
4 1	11 11.45	+ 1 25.3	1.397	2.348	9.7	22.3	157 E	46	63
4 11	11 2.67	+ 2 27.3	1.423	2.313	14.6	22.5	144 E	47	62
		401000 2011 QV_{13}							
3 2	11 45.32	+ 3 35.0	1.997	2.969	4.5	22.5	166 W	49	60
3 7	11 40.79	+ 4 9.3	1.984	2.970	2.5	22.3	172 W	49	60
3 12	11 36.11	+ 4 44.0	1.978	2.971	0.7	22.2	178 W	50	59
3 17	11 31.39	+ 5 18.4	1.980	2.972	1.9	22.3	174 E	50	59
3 22	11 26.73	+ 5 51.7	1.990	2.973	3.9	22.4	168 E	51	58
3 27	11 22.27	+ 6 23.0	2.007	2.973	5.9	22.5	162 E	51	58
4 1	11 18.11	+ 6 51.6	2.031	2.973	7.8	22.7	156 E	52	57
		280742 2005 LY_{42}							
3 2	11 47.79	+ 0 35.7	1.625	2.594	5.8	22.2	165 W	46	63
3 7	11 42.73	+ 1 4.3	1.596	2.580	3.5	22.0	171 W	46	63
3 12	11 37.35	+ 1 35.0	1.573	2.566	1.0	21.8	177 W	47	62
3 17	11 31.80	+ 2 6.8	1.558	2.551	1.6	21.8	176 E	47	62

280742 2005 *LY*$_{42}$ *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 22	11 26.23	+ 2 38.9	1.550	2.536	4.1	21.9	170 E	48	61
3 27	11 20.80	+ 3 10.2	1.549	2.521	6.6	22.1	163 E	48	61
4 1	11 15.67	+ 3 39.8	1.555	2.505	9.0	22.2	157 E	49	60
4 6	11 10.97	+ 4 6.8	1.568	2.489	11.3	22.3	151 E	49	60
4 11	11 6.82	+ 4 30.5	1.586	2.473	13.5	22.3	145 E	50	59

422637 1985 *WA*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	11 52.45	+13 33.2	2.118	3.083	5.1	22.5	164 W	59	50
3 7	11 47.23	+14 1.3	2.135	3.111	4.0	22.5	167 W	59	50
3 12	11 41.96	+14 26.8	2.159	3.138	3.6	22.5	168 W	59	50
3 17	11 36.76	+14 49.1	2.190	3.166	4.3	22.6	166 E	60	49
3 22	11 31.74	+15 7.6	2.230	3.193	5.5	22.7	162 E	60	49
3 27	11 27.01	+15 22.2	2.277	3.220	6.9	22.8	157 E	60	49
4 1	11 22.66	+15 32.5	2.331	3.246	8.3	23.0	152 E	61	48

152680 1998 *KJ*$_{9}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	11 54.98	+19 49.7	1.334	2.291	8.4	22.4	160 W	65	44
3 7	11 46.57	+20 53.4	1.338	2.303	7.6	22.4	162 W	66	43
3 12	11 37.95	+21 50.1	1.350	2.313	7.9	22.4	161 W	67	42
3 17	11 29.38	+22 38.4	1.369	2.323	9.1	22.5	158 E	68	41
3 22	11 21.09	+23 17.4	1.396	2.332	10.9	22.6	154 E	68	41
3 27	11 13.32	+23 46.6	1.430	2.340	12.9	22.8	149 E	69	40
4 1	11 6.25	+24 6.3	1.470	2.347	14.8	22.9	143 E	69	40

469356 2001 *DR*$_{8}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	11 57.15	− 3 21.2	1.776	2.731	6.9	22.7	161 W	42	67
3 7	11 50.60	− 2 47.6	1.777	2.754	4.6	22.6	167 W	42	67
3 12	11 43.94	− 2 12.2	1.786	2.776	2.4	22.5	173 W	43	66
3 17	11 37.32	− 1 35.9	1.804	2.797	1.4	22.5	176 E	43	66
3 22	11 30.89	− 0 59.6	1.829	2.818	3.1	22.7	171 E	44	65
3 27	11 24.80	− 0 24.4	1.863	2.838	5.2	22.8	165 E	45	64
4 1	11 19.18	+ 0 9.0	1.904	2.858	7.3	23.0	159 E	45	64

399640 2004 *QL*$_{10}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	11 58.19	+10 48.4	1.941	2.904	5.6	22.3	163 W	56	53
3 7	11 53.75	+11 25.9	1.929	2.906	4.2	22.2	168 W	56	53
3 12	11 49.08	+12 2.2	1.923	2.907	3.4	22.2	170 W	57	52
3 17	11 44.31	+12 36.3	1.926	2.908	3.8	22.2	169 E	58	51
3 22	11 39.56	+13 7.4	1.935	2.909	5.2	22.3	165 E	58	51
3 27	11 34.95	+13 34.8	1.952	2.909	6.8	22.4	160 E	59	50
4 1	11 30.60	+13 57.9	1.976	2.910	8.5	22.5	154 E	59	50

396618 2001 *SW*$_{325}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 2.00	+ 3 39.8	1.914	2.873	6.0	22.3	162 W	49	60
3 7	11 57.65	+ 4 15.0	1.897	2.875	4.0	22.2	168 W	49	60
3 12	11 53.05	+ 4 50.9	1.887	2.877	2.1	22.0	174 W	50	59
3 17	11 48.32	+ 5 26.6	1.885	2.878	1.4	22.0	176 W	50	59
3 22	11 43.58	+ 6 1.2	1.890	2.879	3.0	22.1	171 E	51	58
3 27	11 38.96	+ 6 33.8	1.903	2.880	5.0	22.2	166 E	52	57
4 1	11 34.58	+ 7 3.7	1.923	2.881	7.0	22.3	160 E	52	57
4 6	11 30.55	+ 7 30.3	1.950	2.881	8.9	22.4	154 E	53	56

518640 2008 *KZ*$_{5}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 2.04	+ 6 51.2	1.643	2.605	6.5	23.8	163 W	52	57
3 7	11 56.75	+ 7 42.6	1.617	2.597	4.4	23.6	168 W	53	56
3 12	11 51.10	+ 8 34.5	1.599	2.588	2.9	23.5	172 W	54	55
3 17	11 45.21	+ 9 25.7	1.589	2.578	3.1	23.5	172 E	54	55
3 22	11 39.26	+10 14.7	1.587	2.568	4.9	23.6	167 E	55	54
3 27	11 33.41	+11 0.5	1.592	2.558	7.1	23.7	161 E	56	53
4 1	11 27.81	+11 41.9	1.604	2.547	9.4	23.8	155 E	57	52

523669 2012 *XS*$_{134}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 2.86	+32 21.8	2.133	3.031	9.4	23.1	150 W	77	32
3 7	11 57.18	+32 58.1	2.140	3.042	9.3	23.1	150 W	78	31
3 12	11 51.32	+33 27.7	2.154	3.051	9.5	23.1	149 W	78	31
3 17	11 45.40	+33 50.2	2.174	3.061	10.1	23.2	148 E	79	30
3 22	11 39.56	+34 5.1	2.202	3.070	10.8	23.2	145 E	79	30
3 27	11 33.97	+34 12.4	2.235	3.079	11.7	23.3	141 E	79	30
4 1	11 28.74	+34 12.2	2.275	3.087	12.6	23.4	138 E	79	30

451124 2009 *KC*$_{3}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 5.27	− 5 0.7	2.580	3.519	6.0	23.3	158 W	40	69
3 12	11 56.43	− 4 25.4	2.475	3.457	3.0	23.0	170 W	41	68
3 22	11 46.62	− 3 41.5	2.402	3.395	1.7	22.8	174 E	41	68
4 1	11 36.58	− 2 52.7	2.360	3.331	4.9	22.9	164 E	42	67
4 11	11 27.13	− 2 3.8	2.349	3.266	8.4	23.0	152 E	43	66

408799 2000 *SL*$_{55}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 6.94	− 0 30.9	1.854	2.805	7.0	22.5	160 W	44	65
3 12	11 57.92	+ 0 21.2	1.800	2.788	2.8	22.2	172 W	45	64
3 22	11 48.03	+ 1 18.4	1.775	2.769	1.7	22.1	175 E	46	63
4 1	11 38.30	+ 2 14.3	1.779	2.749	6.2	22.3	163 E	47	62
4 11	11 29.73	+ 3 2.7	1.811	2.729	10.4	22.5	151 E	48	61

483563 2004 *BD*$_{68}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 2	12 7.46	+ 0 23.1	1.629	2.583	7.5	22.4	160 W	45	64
3 7	11 59.90	+ 1 32.0	1.640	2.617	4.8	22.3	167 W	47	62
3 12	11 52.26	+ 2 40.6	1.660	2.650	2.2	22.2	174 W	48	61
3 17	11 44.73	+ 3 47.2	1.688	2.682	0.9	22.1	177 E	49	60
3 22	11 37.47	+ 4 50.4	1.725	2.714	3.3	22.4	171 E	50	59
3 27	11 30.64	+ 5 49.2	1.771	2.744	5.7	22.6	164 E	51	58
4 1	11 24.37	+ 6 42.6	1.824	2.774	7.9	22.8	158 E	52	57

494726 2005 *TF*$_{3}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 7.86	− 1 59.9	2.672	3.615	5.6	22.5	159 W	43	66
3 12	12 0.43	− 1 0.4	2.633	3.618	2.4	22.3	171 W	44	65
3 22	11 52.51	+ 0 3.1	2.625	3.620	0.9	22.1	177 E	45	64
4 1	11 44.77	+ 1 5.9	2.648	3.621	4.2	22.4	165 E	46	63
4 11	11 37.87	+ 2 3.3	2.701	3.621	7.3	22.6	153 E	47	62

488749 2004 *SH*$_{9}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 8.65	−14 24.9	1.845	2.755	10.0	22.7	151 W	31	78
3 12	12 0.14	−12 53.6	1.762	2.724	6.5	22.4	162 W	32	77
3 22	11 50.55	−10 57.9	1.707	2.692	4.1	22.2	169 E	34	75
4 1	11 40.89	− 8 45.2	1.683	2.658	5.9	22.2	164 E	36	73
4 11	11 32.26	− 6 26.3	1.688	2.624	9.8	22.4	154 E	39	70

495417 2014 *SO*$_{143}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 9.05	− 2 4.7	1.260	2.213	9.4	22.5	159 W	43	66
3 12	11 59.48	− 0 55.4	1.178	2.165	4.0	22.1	171 W	44	65
3 22	11 47.98	+ 0 28.9	1.121	2.116	2.1	21.8	175 E	45	64
4 1	11 36.00	+ 1 58.2	1.091	2.066	8.5	22.0	162 E	47	62
4 11	11 25.20	+ 3 20.7	1.086	2.015	14.7	22.2	149 E	48	61

380546 2004 *NB*$_{25}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 10.47	+ 3 59.2	2.674	3.622	5.3	22.5	160 W	49	60
3 12	12 3.20	+ 5 2.7	2.626	3.611	2.4	22.2	171 W	50	59
3 22	11 55.33	+ 6 6.3	2.608	3.599	2.0	22.2	173 E	51	58
4 1	11 47.53	+ 7 5.2	2.622	3.586	4.9	22.4	162 E	52	57
4 11	11 40.47	+ 7 55.0	2.665	3.573	7.9	22.6	151 E	53	56

308306 Dainere

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 10.90	+30 17.4	3.846	4.733	5.9	23.0	150 W	75	34
3 7	12 7.42	+30 46.1	3.832	4.726	5.8	23.0	151 W	76	33
3 12	12 3.76	+31 11.9	3.825	4.718	5.9	22.9	151 W	76	33
3 17	11 59.98	+31 34.2	3.825	4.710	6.1	23.0	150 W	77	32
3 22	11 56.14	+31 52.7	3.832	4.702	6.6	23.0	147 E	77	32
3 27	11 52.33	+32 7.2	3.846	4.694	7.1	23.0	144 E	77	32
4 1	11 48.61	+32 17.4	3.867	4.686	7.7	23.0	141 E	77	32
4 6	11 45.04	+32 23.3	3.893	4.678	8.4	23.1	137 E	77	32

523803 1999 *RV*$_{2}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 12.86	− 4 16.9	2.507	3.440	6.5	23.9	157 W	41	68
3 12	12 4.13	− 3 30.7	2.482	3.463	3.2	23.7	169 W	41	68
3 22	11 54.94	− 2 39.2	2.489	3.484	1.0	23.5	177 E	42	67
4 1	11 46.05	− 1 46.8	2.528	3.505	4.0	23.8	166 E	43	66
4 11	11 38.16	− 0 58.4	2.597	3.525	7.2	24.0	154 E	44	65

523587 1999 *VQ*$_{11}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 13.30	+ 4 17.8	3.041	3.984	5.0	23.3	160 W	49	60
3 12	12 5.39	+ 5 4.3	3.031	4.015	2.3	23.2	171 W	50	59
3 22	11 57.15	+ 5 49.4	3.053	4.044	1.7	23.2	173 E	51	58
4 1	11 49.16	+ 6 29.3	3.107	4.072	4.2	23.4	163 E	51	58
4 11	11 41.99	+ 7 1.1	3.191	4.099	6.7	23.6	151 E	52	57

496392 2013 *TU*$_{51}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 13.31	− 1 40.3	2.533	3.471	6.2	23.4	158 W	43	66
3 12	12 5.53	− 0 56.3	2.479	3.462	2.9	23.2	170 W	44	65
3 22	11 57.08	− 0 7.9	2.455	3.451	0.6	23.0	178 E	45	64
4 1	11 48.66	+ 0 40.7	2.463	3.440	4.1	23.2	166 E	46	63
4 11	11 41.01	+ 1 24.6	2.500	3.428	7.4	23.4	154 E	46	63

495398 2014 *QY*$_{310}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 15.70	− 2 14.4	1.894	2.834	7.8	23.0	157 W	43	66
3 12	12 7.13	− 1 20.9	1.838	2.821	3.7	22.7	169 W	44	65
3 22	11 57.56	− 0 20.3	1.810	2.806	0.7	22.5	178 E	45	64
4 1	11 47.98	+ 0 40.9	1.812	2.791	5.1	22.7	166 E	46	63
4 11	11 39.40	+ 1 36.1	1.843	2.775	9.3	23.0	153 E	47	62

363075 2000 *OG*$_{8}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 16.61	− 8 33.3	3.180	4.092	6.2	23.8	154 W	36	73
3 12	12 9.27	− 7 55.4	3.130	4.098	3.6	23.6	165 W	37	72
3 22	12 1.42	− 7 9.9	3.112	4.103	1.6	23.4	173 E	38	71
4 1	11 53.62	− 6 20.1	3.125	4.108	2.9	23.5	168 E	39	70
4 11	11 46.43	− 5 30.0	3.170	4.111	5.5	23.7	157 E	39	70

363076 2000 PH_6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3 2	12 16.73	+ 4 31.4	3.000	3.940	5.2	23.6	159 W	50	59
3 12	12 9.54	+ 5 35.7	2.974	3.956	2.6	23.4	170 W	51	58
3 22	12 1.88	+ 6 38.8	2.980	3.971	1.8	23.4	173 E	52	57
4 1	11 54.33	+ 7 36.4	3.018	3.984	4.2	23.6	163 E	53	56
4 11	11 47.47	+ 8 24.8	3.086	3.997	6.8	23.8	152 E	53	56

399307 1991 RJ_2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 16.74	− 0 38.4	1.862	2.803	7.8	23.0	157 W	44	65
3 12	12 8.12	+ 0 46.4	1.788	2.772	3.6	22.7	170 W	46	63
3 22	11 58.28	+ 2 19.3	1.744	2.740	1.3	22.5	177 E	47	62
4 1	11 48.20	+ 3 52.3	1.731	2.706	5.8	22.7	164 E	49	60
4 11	11 38.96	+ 5 16.6	1.746	2.671	10.3	22.9	152 E	50	59

455222 2001 RY_{29}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 21.17	− 2 3.7	1.911	2.844	8.2	22.7	156 W	43	66
3 12	12 12.79	− 0 54.2	1.872	2.852	4.1	22.5	168 W	44	65
3 22	12 3.54	+ 0 21.0	1.863	2.859	0.4	22.2	179 E	45	64
4 1	11 54.36	+ 1 34.9	1.884	2.865	4.6	22.6	167 E	47	62
4 11	11 46.22	+ 2 40.6	1.933	2.870	8.7	22.8	154 E	48	61

421974 2014 QA_{297}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 21.68	− 0 53.5	1.573	2.512	9.2	22.4	156 W	44	65
3 12	12 12.94	− 0 1.6	1.506	2.488	4.5	22.1	169 W	45	64
3 22	12 2.75	+ 0 57.9	1.468	2.464	0.7	21.7	178 E	46	63
4 1	11 52.26	+ 1 57.6	1.457	2.439	5.7	22.0	166 E	47	62
4 11	11 42.73	+ 2 49.5	1.474	2.413	10.6	22.2	154 E	48	61

455766 2005 NU_{19}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 22.82	− 6 49.8	1.763	2.686	9.5	22.8	153 W	38	71
3 12	12 14.01	− 6 0.4	1.712	2.685	5.3	22.6	165 W	39	70
3 22	12 4.08	− 4 59.0	1.689	2.683	1.6	22.3	176 E	40	69
4 1	11 54.11	− 3 52.0	1.695	2.680	4.4	22.5	168 E	41	68
4 11	11 45.17	− 2 47.0	1.729	2.676	8.7	22.7	156 E	42	67

491240 2011 UU_{204}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 24.00	− 0 54.9	1.988	2.920	8.0	22.2	156 W	44	65
3 12	12 16.08	+ 0 25.4	1.935	2.914	4.1	21.9	168 W	45	64
3 22	12 7.13	+ 1 51.6	1.911	2.907	0.9	21.7	177 W	47	62
4 1	11 58.07	+ 3 16.2	1.917	2.898	4.6	21.9	167 E	48	61
4 11	11 49.82	+ 4 32.0	1.953	2.889	8.6	22.1	154 E	50	59
4 21	11 43.14	+ 5 33.4	2.014	2.879	12.2	22.3	143 E	51	58

457498 2008 VP_2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 24.94	+ 2 36.7	1.988	2.924	7.8	22.3	156 W	48	61
3 12	12 15.86	+ 3 26.5	1.948	2.928	3.9	22.0	168 W	48	61
3 22	12 5.84	+ 4 17.3	1.937	2.931	1.7	21.9	175 W	49	60
4 1	11 55.83	+ 5 3.1	1.957	2.933	5.1	22.1	165 E	50	59
4 11	11 46.80	+ 5 38.8	2.005	2.934	8.9	22.3	153 E	51	58

331521 2000 QY_{40}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 26.61	− 5 48.5	2.056	2.974	8.7	22.2	153 W	39	70
3 12	12 18.38	− 5 4.2	1.997	2.969	4.9	22.0	165 W	40	69
3 22	12 9.07	− 4 10.1	1.967	2.962	1.2	21.7	176 W	41	68
4 1	11 59.60	− 3 11.6	1.968	2.955	3.6	21.9	169 E	42	67
4 11	11 50.89	− 2 15.0	1.997	2.947	7.5	22.1	157 E	43	66
4 21	11 43.71	− 1 25.6	2.053	2.938	11.1	22.3	146 E	44	65

514597 2003 MD_7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 26.69	− 7 58.6	1.018	1.949	13.8	22.5	152 W	37	72
3 7	12 18.08	− 6 53.4	1.016	1.975	10.3	22.4	159 W	38	71
3 12	12 9.10	− 5 43.2	1.021	2.000	6.6	22.3	167 W	39	70
3 17	12 0.06	− 4 30.2	1.033	2.024	3.3	22.1	173 W	40	69
3 22	11 51.23	− 3 16.8	1.053	2.047	2.2	22.1	176 E	42	67
3 27	11 42.89	− 2 5.3	1.080	2.070	4.9	22.4	170 E	43	66
4 1	11 35.28	− 0 57.9	1.115	2.091	8.1	22.6	163 E	44	65
4 6	11 28.55	+ 0 3.9	1.156	2.111	11.0	22.8	156 E	45	64

363369 2002 TU_{53}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 27.19	−14 20.4	2.443	3.325	9.1	21.9	148 W	31	78
3 12	12 19.86	−13 34.6	2.377	3.323	6.2	21.7	159 W	31	78
3 22	12 11.62	−12 33.7	2.339	3.320	3.6	21.5	168 W	32	77
4 1	12 3.22	−11 21.7	2.332	3.316	3.5	21.5	168 E	34	75
4 11	11 55.43	−10 4.6	2.354	3.311	6.1	21.6	159 E	35	74
4 21	11 48.89	− 8 48.4	2.405	3.305	9.1	21.8	149 E	36	73

377789 2006 AV_{11}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 28.10	− 8 21.8	2.539	3.442	7.9	22.5	151 W	37	72
3 12	12 20.83	− 7 43.8	2.466	3.429	4.9	22.2	163 W	37	72
3 22	12 12.61	− 6 55.7	2.423	3.415	1.9	22.0	173 W	38	71
4 1	12 4.15	− 6 1.3	2.411	3.400	2.8	22.1	170 E	39	70

377789 2006 AV_{11} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	11 56.19	− 5 5.6	2.428	3.384	6.0	22.2	159 E	40	69
4 21	11 49.37	− 4 13.4	2.474	3.368	9.1	22.4	148 E	41	68

138937 2001 BK_{16}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 29.71	+41 23.6	2.654	3.468	10.7	23.0	140 W	86	23
3 7	12 24.11	+42 12.7	2.655	3.471	10.7	23.0	140 W	87	22
3 12	12 18.13	+42 55.1	2.662	3.473	10.8	23.0	139 W	88	21
3 17	12 11.89	+43 30.2	2.676	3.475	11.2	23.0	138 W	89	20
3 22	12 5.52	+43 57.4	2.695	3.476	11.6	23.1	135 E	89	20
3 27	11 59.17	+44 16.4	2.721	3.477	12.2	23.1	133 E	89	20
4 1	11 53.00	+44 27.1	2.752	3.478	12.8	23.2	130 E	89	20
4 6	11 47.13	+44 29.7	2.789	3.478	13.4	23.2	126 E	89	20

406186 2006 WQ_{117}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 29.89	−26 16.7	2.027	2.850	13.2	21.7	139 W	19	90
3 7	12 25.43	−26 16.0	2.009	2.869	11.8	21.6	144 W	19	90
3 12	12 20.61	−26 8.6	1.996	2.887	10.5	21.6	148 W	19	90
3 17	12 15.55	−25 54.6	1.990	2.906	9.3	21.5	152 W	19	90
3 22	12 10.38	−25 34.2	1.990	2.924	8.3	21.5	155 W	19	90
3 27	12 5.25	−25 7.9	1.997	2.941	7.6	21.5	157 E	20	89
4 1	12 0.28	−24 36.6	2.011	2.959	7.4	21.5	158 E	20	89
4 6	11 55.61	−24 1.3	2.032	2.976	7.7	21.6	157 E	21	88
4 11	11 51.33	−23 22.9	2.059	2.993	8.4	21.6	154 E	22	87
4 16	11 47.52	−22 42.6	2.093	3.010	9.3	21.7	151 E	22	87
4 21	11 44.25	−22 1.4	2.134	3.027	10.4	21.8	147 E	23	86

464941 2005 UT_{397}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 31.11	+ 9 7.9	2.248	3.176	7.5	21.8	155 W	54	55
3 7	12 27.05	+ 9 34.9	2.239	3.192	5.9	21.7	161 W	55	54
3 12	12 22.71	+10 1.1	2.236	3.207	4.6	21.7	165 W	55	54
3 17	12 18.19	+10 25.8	2.242	3.222	3.6	21.6	168 W	55	54
3 22	12 13.60	+10 48.3	2.254	3.237	3.5	21.7	168 W	56	53
3 27	12 9.03	+11 8.1	2.275	3.251	4.3	21.7	166 E	56	53
4 1	12 4.60	+11 24.7	2.302	3.266	5.6	21.8	162 E	56	53
4 6	12 0.40	+11 37.7	2.337	3.280	7.0	21.9	157 E	57	52
4 11	11 56.51	+11 46.9	2.379	3.294	8.4	22.1	151 E	57	52
4 16	11 53.00	+11 52.3	2.427	3.307	9.8	22.2	146 E	57	52
4 21	11 49.92	+11 53.9	2.481	3.321	11.0	22.3	141 E	57	52

364071 2005 YX_1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 33.29	+36 7.7	3.014	3.852	8.9	21.5	143 W	81	28
3 7	12 29.03	+36 42.6	3.005	3.851	8.7	21.5	144 W	82	27
3 12	12 24.46	+37 12.9	3.003	3.850	8.8	21.5	144 W	82	27
3 17	12 19.67	+37 38.0	3.007	3.849	9.0	21.5	143 W	83	26
3 22	12 14.75	+37 57.3	3.018	3.847	9.3	21.5	141 W	83	26
3 27	12 9.81	+38 10.5	3.035	3.846	9.8	21.6	139 E	83	26
4 1	12 4.96	+38 17.3	3.059	3.844	10.3	21.6	136 E	83	26
4 6	12 0.29	+38 17.9	3.088	3.842	11.0	21.7	133 E	83	26
4 11	11 55.91	+38 12.5	3.122	3.839	11.6	21.7	130 E	83	26
4 16	11 51.86	+38 1.2	3.161	3.837	12.2	21.8	126 E	83	26
4 21	11 48.23	+37 44.4	3.204	3.834	12.8	21.8	122 E	83	26

223633 Rosnyaîné

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 33.55	+ 4 44.5	2.675	3.596	6.8	21.4	155 W	50	59
3 12	12 26.54	+ 5 44.2	2.616	3.586	4.0	21.2	165 W	51	58
3 22	12 18.62	+ 6 44.1	2.586	3.576	2.2	21.1	172 W	52	57
4 1	12 10.43	+ 7 39.3	2.588	3.564	4.0	21.2	165 E	53	56
4 11	12 2.67	+ 8 25.1	2.620	3.552	6.9	21.4	155 E	53	56
4 21	11 55.94	+ 8 58.7	2.679	3.539	9.7	21.5	144 E	54	55

401023 2011 SC_{51}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 34.25	−11 8.8	1.940	2.834	10.5	22.4	149 W	34	75
3 12	12 25.86	−10 41.7	1.875	2.830	6.9	22.1	160 W	34	75
3 22	12 16.14	− 9 59.3	1.838	2.825	3.4	21.9	170 W	35	74
4 1	12 6.06	− 9 6.1	1.830	2.819	3.5	21.9	170 E	36	73
4 11	11 56.67	− 8 8.2	1.851	2.812	7.1	22.1	160 E	37	72
4 21	11 48.83	− 7 12.3	1.899	2.805	10.8	22.3	148 E	38	71

410302 2007 TR_{361}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 34.69	+ 4 26.7	2.126	3.050	8.1	21.8	154 W	49	60
3 12	12 26.46	+ 5 20.4	2.066	3.039	4.7	21.6	166 W	50	59
3 22	12 17.02	+ 6 14.5	2.036	3.027	2.4	21.4	173 W	51	58
4 1	12 7.25	+ 7 3.1	2.035	3.013	4.8	21.5	166 E	52	57
4 11	11 58.07	+ 7 40.7	2.064	2.999	8.3	21.7	154 E	53	56
4 21	11 50.27	+ 8 4.1	2.119	2.984	11.7	21.9	143 E	53	56

297837 2002 BX

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
3 2	12 35.19	−31 19.5	2.078	2.859	14.4	21.5	134 W	14	85
3 7	12 30.24	−31 38.8	2.050	2.869	13.3	21.4	138 W	13	84
3 12	12 24.81	−31 50.9	2.027	2.878	12.2	21.4	142 W	13	84
3 17	12 19.02	−31 55.4	2.009	2.888	11.1	21.3	146 W	13	84

297837 2002 *BX* *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 22	12 13.01	−31 52.2	1.999	2.897	10.3	21.3	149 W	13	84
3 27	12 6.94	−31 41.5	1.994	2.905	9.7	21.2	151 E	13	84
4 1	12 0.96	−31 23.8	1.996	2.914	9.4	21.2	151 E	14	85
4 6	11 55.24	−30 59.8	2.005	2.922	9.5	21.3	151 E	14	85
4 11	11 49.89	−30 30.5	2.021	2.930	10.0	21.3	150 E	14	85
4 16	11 45.05	−29 56.9	2.043	2.937	10.7	21.4	147 E	15	86
4 21	11 40.78	−29 20.3	2.071	2.945	11.5	21.4	144 E	16	87

416584 2004 *JB*$_{12}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	12 35.89	+ 2 32.3	1.406	2.337	10.8	22.2	154 W	48	61
3 12	12 27.64	+ 4 21.1	1.305	2.280	6.3	21.8	165 W	49	60
3 22	12 16.85	+ 6 24.0	1.230	2.222	3.4	21.4	172 W	51	58
4 1	12 4.59	+ 8 28.8	1.184	2.162	7.3	21.5	164 E	53	56
4 11	11 52.38	+10 21.6	1.164	2.100	13.1	21.6	152 E	55	54
4 21	11 41.78	+11 50.8	1.168	2.037	18.8	21.7	139 E	57	52

409256 2004 *HO*$_{1}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	12 36.40	+31 45.4	1.852	2.727	11.9	22.4	145 W	77	32
3 7	12 30.52	+32 26.7	1.818	2.705	11.5	22.4	147 W	77	32
3 12	12 23.97	+33 2.5	1.790	2.683	11.4	22.3	148 W	78	31
3 17	12 16.90	+33 31.3	1.769	2.660	11.7	22.3	147 W	79	30
3 22	12 9.47	+33 51.7	1.754	2.637	12.4	22.3	146 W	79	30
3 27	12 1.88	+34 2.9	1.746	2.613	13.3	22.3	143 E	79	30
4 1	11 54.33	+34 4.1	1.744	2.589	14.4	22.3	140 E	79	30
4 6	11 47.04	+33 55.2	1.748	2.565	15.7	22.3	136 E	79	30
4 11	11 40.18	+33 36.5	1.758	2.540	17.0	22.4	132 E	79	30
4 16	11 33.90	+33 8.5	1.772	2.515	18.4	22.4	128 E	78	31
4 21	11 28.34	+32 32.0	1.790	2.489	19.7	22.4	123 E	78	31

442742 2012 *WP*$_{3}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	12 36.95	−26 58.6	2.093	2.901	13.4	22.3	137 W	18	89
3 12	12 28.45	−26 14.7	2.019	2.904	10.7	22.1	147 W	19	90
3 22	12 18.61	−25 1.9	1.970	2.906	8.2	22.0	155 W	20	89
4 1	12 8.44	−23 23.0	1.949	2.906	6.9	21.9	159 E	22	87
4 11	11 59.01	−21 25.3	1.957	2.905	7.8	21.9	157 E	24	85
4 21	11 51.19	−19 18.7	1.994	2.903	10.2	22.1	149 E	26	83

461585 2004 *RR*$_{110}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	12 37.27	−25 38.9	2.016	2.835	13.4	21.4	138 W	19	90
3 12	12 30.52	−24 47.3	1.901	2.795	10.8	21.1	148 W	20	89
3 22	12 22.08	−23 23.6	1.809	2.754	8.2	20.9	157 W	22	87
4 1	12 12.82	−21 28.9	1.746	2.712	6.7	20.7	162 E	24	85
4 11	12 3.82	−19 9.4	1.710	2.670	7.8	20.7	159 E	26	83
4 21	11 56.10	−16 35.3	1.704	2.626	10.8	20.7	151 E	28	81
5 1	11 50.49	−13 59.1	1.723	2.582	14.3	20.9	141 E	31	78
5 11	11 47.48	−11 32.1	1.765	2.537	17.7	21.0	130 E	33	76
5 21	11 47.23	− 9 22.3	1.824	2.492	20.6	21.1	120 E	36*	73
5 31	11 49.71	− 7 34.5	1.895	2.446	22.8	21.2	111 E	36*	72
6 10	11 54.70	− 6 10.0	1.974	2.399	24.5	21.3	102 E	34*	70
6 20	12 1.96	− 5 8.3	2.057	2.351	25.6	21.4	94 E	31*	69
6 30	12 11.23	− 4 27.7	2.140	2.303	26.1	21.5	86 E	28*	68*
7 10	12 22.28	− 4 5.7	2.220	2.255	26.2	21.5	79 E	25*	66*

355873 2008 *VK*$_{2}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	12 38.43	−12 37.7	1.839	2.724	11.4	21.5	147 W	32	77
3 12	12 30.50	−12 1.2	1.759	2.708	7.8	21.2	158 W	33	76
3 22	12 20.96	−11 6.1	1.706	2.690	4.1	21.0	169 W	34	75
4 1	12 10.78	− 9 56.7	1.681	2.672	3.5	20.9	171 E	35	74
4 11	12 1.09	− 8 40.1	1.686	2.653	7.1	21.1	161 E	36	73
4 21	11 52.89	− 7 24.4	1.717	2.632	11.2	21.3	149 E	38	71
5 1	11 46.93	− 6 17.0	1.772	2.611	14.9	21.5	138 E	39	70

360433 2002 *JR*$_{9}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	12 38.71	+ 8 24.1	2.185	3.104	8.2	22.4	154 W	53	56
3 7	12 34.74	+ 9 7.9	2.133	3.080	6.7	22.3	159 W	54	55
3 12	12 30.27	+ 9 52.8	2.089	3.055	5.3	22.2	163 W	55	54
3 17	12 25.40	+10 38.0	2.053	3.030	4.3	22.1	167 W	56	53
3 22	12 20.20	+11 22.3	2.024	3.004	4.1	22.0	167 W	56	53
3 27	12 14.79	+12 4.9	2.003	2.978	4.9	22.0	165 E	57	52
4 1	12 9.29	+12 44.7	1.990	2.952	6.4	22.0	161 E	58	51
4 6	12 3.84	+13 20.7	1.984	2.925	8.1	22.1	156 E	58	51
4 11	11 58.55	+13 52.4	1.985	2.898	9.9	22.1	150 E	59	50
4 16	11 53.55	+14 19.1	1.993	2.870	11.7	22.2	145 E	59	50
4 21	11 48.94	+14 40.5	2.007	2.842	13.4	22.3	139 E	60	49

488736 2004 *RG*$_{112}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	12 40.30	−23 3.9	2.088	2.916	12.7	22.1	140 W	22	87
3 12	12 32.99	−22 7.5	2.007	2.911	9.8	21.9	150 W	23	86
3 22	12 24.32	−20 44.7	1.952	2.906	6.9	21.7	159 W	24	85
4 1	12 15.16	−18 59.1	1.926	2.900	5.4	21.6	164 E	26	83
4 11	12 6.52	−16 58.1	1.929	2.892	6.7	21.6	160 E	28	81
4 21	11 59.24	−14 51.4	1.960	2.884	9.6	21.8	152 E	30	79

415746 2000 *JN*$_{10}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 2	12 41.19	+26 22.3	1.693	2.586	11.8	21.7	148 W	71	38
3 7	12 36.07	+27 1.6	1.656	2.565	11.1	21.6	150 W	72	37
3 12	12 30.27	+27 36.6	1.626	2.545	10.7	21.6	152 W	73	36
3 17	12 23.92	+28 5.9	1.602	2.524	10.7	21.5	152 W	73	36
3 22	12 17.16	+28 28.0	1.585	2.502	11.2	21.5	151 W	73	36
3 27	12 10.19	+28 41.8	1.574	2.481	12.1	21.5	149 E	74	35
4 1	12 3.19	+28 46.4	1.570	2.459	13.3	21.5	145 E	74	35
4 6	11 56.39	+28 41.6	1.572	2.437	14.8	21.5	142 E	74	35
4 11	11 49.95	+28 27.2	1.579	2.414	16.3	21.6	137 E	73	36
4 16	11 44.05	+28 3.7	1.591	2.391	17.9	21.6	133 E	73	36
4 21	11 38.80	+27 31.6	1.608	2.368	19.4	21.7	129 E	73	36

347803 2002 *JY*$_{55}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	12 41.40	−19 43.6	2.082	2.927	12.1	21.5	142 W	25	84
3 12	12 34.97	−19 12.7	1.968	2.884	9.2	21.2	152 W	26	83
3 22	12 26.86	−18 17.9	1.878	2.841	6.4	20.9	162 W	27	82
4 1	12 17.82	−17 0.7	1.817	2.797	4.9	20.7	166 E	28	81
4 11	12 8.86	−15 26.2	1.784	2.752	6.6	20.8	161 E	30	79
4 21	12 0.94	−13 42.4	1.778	2.707	10.1	20.9	152 E	31	78
5 1	11 54.91	−11 58.5	1.798	2.661	13.7	21.0	141 E	33	76
5 11	11 51.29	−10 22.9	1.839	2.614	17.0	21.1	131 E	35	74
5 21	11 50.33	− 9 1.6	1.896	2.567	19.8	21.2	121 E	36*	73
5 31	11 52.04	− 7 58.2	1.965	2.519	22.0	21.3	111 E	36*	72
6 10	11 56.27	− 7 13.9	2.041	2.470	23.6	21.4	103 E	33*	71
6 20	12 2.80	− 6 48.4	2.119	2.421	24.7	21.5	94 E	30*	71

418073 2007 *VT*$_{226}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	12 43.34	−20 29.4	1.975	2.816	12.8	21.8	141 W	25	84
3 12	12 36.06	−20 6.2	1.884	2.797	9.8	21.5	151 W	25	84
3 22	12 27.11	−19 18.8	1.818	2.777	6.9	21.3	161 W	26	83
4 1	12 17.38	−18 9.2	1.779	2.757	5.4	21.2	165 E	27	82
4 11	12 7.94	−16 43.2	1.769	2.735	6.9	21.2	161 E	28	81
4 21	11 59.80	−15 8.9	1.786	2.713	10.1	21.4	152 E	30	79

415761 2000 *SF*$_{23}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	12 44.00	+ 0 57.6	1.998	2.907	9.4	22.3	151 W	46	63
3 12	12 35.20	+ 1 29.9	1.916	2.882	5.7	22.1	163 W	46	63
3 22	12 24.74	+ 2 6.2	1.862	2.855	1.9	21.8	175 W	47	62
4 1	12 13.54	+ 2 41.2	1.839	2.828	3.6	21.8	170 E	48	61
4 11	12 2.66	+ 3 9.5	1.845	2.799	7.8	22.0	158 E	48	61
4 21	11 53.11	+ 3 26.9	1.879	2.769	11.7	22.2	146 E	48	61

329669 2003 *UD*$_{8}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	12 44.98	− 9 7.9	3.045	3.917	7.8	22.4	147 W	36	73
3 12	12 38.45	− 8 30.2	2.951	3.895	5.2	22.2	159 W	36	73
3 22	12 30.89	− 7 43.0	2.885	3.872	2.4	22.0	171 W	37	72
4 1	12 22.83	− 6 49.2	2.851	3.847	1.4	21.9	175 E	38	71
4 11	12 14.89	− 5 52.9	2.848	3.822	4.1	22.1	164 E	39	70
4 21	12 7.68	− 4 58.2	2.876	3.795	7.0	22.2	152 E	40	69

399587 2003 *TW*$_{9}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	12 48.39	−34 50.6	2.351	3.080	14.3	21.8	130 W	10	81
3 7	12 44.23	−35 5.3	2.317	3.090	13.4	21.7	134 W	10	81
3 12	12 39.58	−35 13.3	2.288	3.099	12.4	21.7	138 W	10	81
3 17	12 34.54	−35 14.2	2.264	3.107	11.4	21.6	142 W	10	81
3 22	12 29.23	−35 7.8	2.246	3.116	10.6	21.6	145 W	10	81
3 27	12 23.77	−34 54.2	2.235	3.124	9.8	21.6	148 E	10	81
4 1	12 18.32	−34 33.6	2.230	3.132	9.3	21.5	149 E	10	81
4 6	12 13.00	−34 6.6	2.231	3.140	9.1	21.5	150 E	11	82
4 11	12 7.95	−33 34.0	2.239	3.147	9.2	21.6	150 E	11	82
4 16	12 3.28	−32 56.6	2.254	3.154	9.5	21.6	149 E	12	83
4 21	11 59.07	−32 15.6	2.275	3.161	10.2	21.6	146 E	13	84

442148 2010 *VC*$_{62}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	12 49.17	−13 14.7	1.504	2.381	14.0	22.3	144 W	32	77
3 12	12 40.79	−12 39.6	1.440	2.382	9.7	22.0	156 W	32	77
3 22	12 30.42	−11 42.6	1.400	2.382	5.3	21.7	167 W	33	76
4 1	12 19.23	−10 28.8	1.388	2.381	3.4	21.6	172 E	35	74
4 11	12 8.62	− 9 7.0	1.404	2.379	7.2	21.8	163 E	36	73
4 21	11 59.80	− 7 46.9	1.445	2.376	11.8	22.1	151 E	37	72

401858 2000 *QJ*$_{54}$

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	12 49.79	− 8 19.8	2.035	2.915	10.7	21.9	147 W	37	72
3 12	12 41.89	− 7 59.4	1.957	2.905	7.2	21.7	159 W	37	72
3 22	12 32.40	− 7 27.1	1.907	2.894	3.3	21.4	170 W	38	71
4 1	12 22.15	− 6 46.6	1.885	2.882	1.9	21.3	175 E	38	71
4 11	12 12.18	− 6 3.1	1.894	2.869	5.7	21.5	163 E	39	70
4 21	12 3.41	− 5 22.1	1.931	2.855	9.7	21.7	152 E	40	69

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
366450 2002 AU_{11}									
	h m	° ′			°	m	°	°	°
3 2	12 50.63	−41 20.0	2.961	3.615	13.1	21.8	124 W	4	75
3 7	12 46.59	−41 38.9	2.921	3.620	12.4	21.8	128 W	3	74
3 12	12 42.09	−41 51.9	2.885	3.625	11.8	21.7	132 W	3	74
3 17	12 37.21	−41 58.5	2.855	3.629	11.1	21.7	135 W	3	74
3 22	12 32.06	−41 58.4	2.830	3.634	10.5	21.6	138 W	3	74
3 27	12 26.73	−41 51.5	2.810	3.638	10.0	21.6	141 W	3	74
4 1	12 21.37	−41 38.0	2.797	3.642	9.6	21.6	143 E	3	74
4 6	12 16.09	−41 18.0	2.790	3.646	9.3	21.6	144 E	4	75
4 11	12 11.01	−40 52.2	2.790	3.650	9.3	21.6	144 E	4	75
4 16	12 6.23	−40 21.2	2.796	3.653	9.4	21.6	144 E	5	76
4 21	12 1.85	−39 45.6	2.808	3.656	9.6	21.6	142 E	5	76
4 26	11 57.94	−39 6.4	2.826	3.659	10.1	21.6	141 E	6	77
129558 1996 XQ_8									
3 2	12 50.85	+ 9 29.1	2.000	2.904	9.7	21.6	151 W	54	55
3 7	12 46.94	+ 9 54.3	1.960	2.894	8.1	21.4	156 W	55	54
3 12	12 42.51	+10 19.4	1.927	2.882	6.6	21.3	161 W	55	54
3 17	12 37.66	+10 43.5	1.900	2.871	5.3	21.2	164 W	56	53
3 22	12 32.48	+11 6.0	1.881	2.859	4.7	21.2	167 W	56	53
3 27	12 27.09	+11 25.8	1.869	2.847	4.9	21.1	166 W	56	53
4 1	12 21.63	+11 42.2	1.864	2.835	5.9	21.2	163 E	57	52
4 6	12 16.24	+11 54.5	1.867	2.823	7.4	21.2	159 E	57	52
4 11	12 11.05	+12 2.5	1.877	2.810	9.1	21.3	154 E	57	52
4 16	12 6.17	+12 5.6	1.893	2.797	10.9	21.4	148 E	57	52
4 21	12 1.72	+12 3.9	1.915	2.784	12.6	21.5	143 E	57	52
4 26	11 57.77	+11 57.3	1.943	2.770	14.2	21.6	138 E	57	52
443854 2001 RM_{51}									
3 2	12 51.34	− 7 21.0	1.786	2.671	11.7	22.2	147 W	38	71
3 12	12 42.07	− 6 47.6	1.754	2.706	7.5	22.0	159 W	38	71
3 22	12 31.46	− 6 3.3	1.750	2.740	3.1	21.8	172 W	39	70
4 1	12 20.59	− 5 13.5	1.776	2.772	1.9	21.8	175 E	40	69
4 11	12 10.57	− 4 24.7	1.831	2.803	6.1	22.1	163 E	41	68
4 21	12 2.25	− 3 42.5	1.913	2.833	10.0	22.4	151 E	41	68
346961 2010 CU_1									
3 2	12 52.20	− 0 34.4	1.580	2.482	11.8	21.4	149 W	44	65
3 7	12 48.26	+ 0 2.4	1.562	2.497	9.6	21.3	155 W	45	64
3 12	12 43.81	+ 0 41.3	1.550	2.511	7.3	21.2	161 W	46	63
3 17	12 38.98	+ 1 21.4	1.545	2.525	5.0	21.1	167 W	46	63
3 22	12 33.90	+ 2 1.5	1.547	2.538	2.9	21.0	172 W	47	62
3 27	12 28.73	+ 2 40.6	1.556	2.551	2.1	20.9	175 W	48	61
4 1	12 23.62	+ 3 17.5	1.573	2.564	3.5	21.1	171 E	48	61
4 6	12 18.71	+ 3 51.4	1.597	2.577	5.6	21.2	165 E	49	60
4 11	12 14.14	+ 4 21.4	1.627	2.590	7.8	21.4	160 E	49	60
4 16	12 10.01	+ 4 47.0	1.664	2.602	9.8	21.5	154 E	50	59
4 21	12 6.41	+ 5 7.9	1.707	2.614	11.8	21.7	148 E	50	59
4 26	12 3.39	+ 5 23.8	1.756	2.626	13.5	21.8	142 E	50	59
217025 2001 OK_{14}									
3 2	12 52.34	−18 15.7	2.604	3.430	10.5	21.4	141 W	27	82
3 12	12 45.29	−18 6.5	2.517	3.423	8.0	21.2	152 W	27	82
3 22	12 36.91	−17 41.3	2.456	3.415	5.4	21.1	161 W	27	82
4 1	12 27.87	−17 1.7	2.425	3.406	3.8	20.9	167 E	28	81
4 11	12 18.96	−16 11.3	2.424	3.396	4.8	21.0	163 E	29	80
4 21	12 10.93	−15 15.1	2.452	3.385	7.4	21.1	154 E	30	79
5 1	12 4.40	−14 18.5	2.506	3.374	10.1	21.3	144 E	31	78
5 11	11 59.77	−13 26.7	2.584	3.361	12.6	21.4	134 E	32	77
188452 2004 HE_{62}									
3 2	12 52.60	−40 44.8	2.026	2.715	17.5	22.0	125 W	4	75
3 7	12 48.30	−41 31.8	1.957	2.686	16.9	21.9	128 W	3	74
3 12	12 43.11	−42 12.8	1.892	2.656	16.3	21.8	131 W	3	74
3 17	12 37.08	−42 46.6	1.832	2.627	15.7	21.7	134 W	2	73
3 22	12 30.28	−43 11.8	1.777	2.596	15.2	21.6	137 W	2	73
3 27	12 22.84	−43 27.4	1.727	2.566	14.7	21.5	139 E	2	73
4 1	12 14.95	−43 32.5	1.683	2.535	14.5	21.4	141 E	1	72
4 6	12 6.84	−43 26.6	1.644	2.504	14.5	21.3	141 E	2	73
4 11	11 58.73	−43 9.8	1.612	2.472	14.8	21.2	141 E	2	73
4 16	11 50.86	−42 42.3	1.585	2.440	15.3	21.2	140 E	2	73
4 21	11 43.48	−42 4.9	1.563	2.408	16.1	21.2	138 E	3	74
4 26	11 36.80	−41 19.0	1.547	2.375	17.1	21.1	136 E	4	75
5 1	11 31.00	−40 26.1	1.536	2.342	18.3	21.1	133 E	5	76
5 6	11 26.19	−39 28.1	1.529	2.309	19.6	21.1	130 E	6	77
5 11	11 22.44	−38 26.8	1.526	2.275	21.0	21.1	126 E	7	78
5 16	11 19.78	−37 24.0	1.528	2.241	22.3	21.1	123 E	8*	79
5 21	11 18.24	−36 21.1	1.532	2.206	23.7	21.2	119 E	8*	80
5 26	11 17.79	−35 19.7	1.539	2.171	25.0	21.2	115 E	8*	81
5 31	11 18.40	−34 21.0	1.548	2.136	26.2	21.2	111 E	8*	82
6 5	11 20.02	−33 25.9	1.558	2.101	27.4	21.2	108 E	7*	83
6 10	11 22.59	−32 35.1	1.570	2.065	28.5	21.2	104 E	7*	83

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
188452 2004 HE_{62} *(continuation)*									
	h m	° ′			°	m	°	°	°
6 15	11 26.07	−31 48.9	1.582	2.029	29.5	21.2	100 E	6*	84
6 20	11 30.40	−31 7.8	1.595	1.993	30.4	21.2	97 E	5*	85*
6 25	11 35.55	−30 31.9	1.608	1.956	31.2	21.2	94 E	3*	84*
6 30	11 41.47	−30 1.2	1.620	1.919	32.0	21.2	90 E	2*	81*
7 5	11 48.12	−29 35.7	1.632	1.882	32.7	21.2	87 E	1*	78*
7 10	11 55.48	−29 15.1	1.643	1.845	33.3	21.2	84 E	—	75*
7 15	12 3.52	−28 59.1	1.653	1.807	33.8	21.2	81 E	—	72*
7 20	12 12.23	−28 47.4	1.661	1.770	34.3	21.2	79 E	—	69*
7 25	12 21.59	−28 39.8	1.668	1.732	34.7	21.1	76 E	—	67*
7 30	12 31.60	−28 35.7	1.674	1.694	35.1	21.1	74 E	—	64*
8 4	12 42.24	−28 34.6	1.678	1.657	35.4	21.1	71 E	—	62*
8 9	12 53.52	−28 36.0	1.681	1.619	35.7	21.0	69 E	—	59*
8 14	13 5.44	−28 39.4	1.682	1.582	36.0	21.0	67 E	—	57*
8 19	13 18.02	−28 44.0	1.682	1.545	36.3	20.9	64 E	—	55*
8 24	13 31.24	−28 49.3	1.680	1.508	36.5	20.9	62 E	—	53*
8 29	13 45.12	−28 54.4	1.677	1.471	36.7	20.9	61 E	—	52*
9 3	13 59.66	−28 58.6	1.672	1.436	36.9	20.8	59 E	—	50*
9 8	14 14.85	−29 0.8	1.666	1.400	37.1	20.7	57 E	—	49*
9 13	14 30.69	−29 0.4	1.659	1.366	37.3	20.7	55 E	—	47*
9 18	14 47.18	−28 56.2	1.650	1.333	37.5	20.6	54 E	1*	46*
9 23	15 4.28	−28 47.3	1.642	1.301	37.7	20.6	52 E	2*	45*
9 28	15 21.98	−28 32.7	1.632	1.270	37.9	20.5	51 E	3*	44*
10 3	15 40.21	−28 11.4	1.622	1.241	38.1	20.4	50 E	4*	43*
10 8	15 58.93	−27 42.4	1.611	1.214	38.3	20.4	49 E	6*	43*
10 13	16 18.09	−27 5.0	1.601	1.188	38.5	20.3	48 E	7*	42*
10 18	16 37.60	−26 18.4	1.591	1.166	38.6	20.3	47 E	9*	41*
10 28	17 17.39	−24 15.5	1.572	1.128	39.0	20.2	46 E	12*	39*
11 7	17 57.62	−21 31.6	1.557	1.102	39.3	20.1	45 E	16*	37*
11 17	18 37.73	−18 8.5	1.548	1.089	39.4	20.1	44 E	20*	34*
11 22	18 57.61	−16 13.7	1.546	1.088	39.4	20.1	44 E	23*	33*
11 27	19 17.31	−14 11.3	1.546	1.091	39.4	20.1	45 E	25*	31*
12 2	19 36.80	−12 2.3	1.549	1.097	39.3	20.1	45 E	27*	29*
12 7	19 56.09	− 9 47.9	1.554	1.107	39.1	20.1	45 E	29*	28*
12 12	20 15.16	− 7 29.5	1.563	1.120	38.8	20.2	45 E	31*	26*
12 17	20 34.02	− 5 8.2	1.575	1.136	38.5	20.2	46 E	33*	24*
12 22	20 52.68	− 2 45.2	1.590	1.155	38.0	20.2	46 E	35*	22*
12 27	21 11.12	− 0 21.9	1.608	1.176	37.5	20.3	47 E	36*	20*
1 1	21 29.37	+ 2 0.6	1.630	1.200	36.9	20.4	47 E	38*	18*
1 6	21 47.43	+ 4 21.2	1.656	1.227	36.2	20.4	47 E	39*	17*
1 11	22 5.30	+ 6 38.9	1.686	1.255	35.4	20.5	48 E	40*	15*
1 16	22 23.00	+ 8 52.8	1.719	1.285	34.6	20.5	48 E	41*	14*
366455 2002 AZ_{126}									
3 2	12 53.10	−11 44.6	2.690	3.544	9.4	22.2	144 W	33	76
3 12	12 46.52	−11 13.2	2.619	3.549	6.6	22.0	156 W	34	75
3 22	12 38.81	−10 30.3	2.576	3.554	3.6	21.8	167 W	34	75
4 1	12 30.57	− 9 39.0	2.563	3.558	1.6	21.7	174 E	35	74
4 11	12 22.54	− 8 43.8	2.580	3.561	3.9	21.9	166 E	36	73
4 21	12 15.34	− 7 49.2	2.628	3.564	6.9	22.1	155 E	37	72
501934 2014 XT_3									
3 2	12 53.40	−17 48.0	2.099	2.936	12.3	22.5	141 W	27	82
3 12	12 45.23	−17 48.8	1.990	2.903	9.3	22.2	152 W	27	82
3 22	12 35.06	−17 30.3	1.907	2.870	6.3	22.0	162 W	27	82
4 1	12 23.72	−16 52.9	1.853	2.835	4.6	21.8	167 E	28	81
4 11	12 12.29	−16 0.2	1.828	2.799	6.3	21.8	162 E	29	80
4 21	12 1.86	−14 58.3	1.832	2.761	9.8	22.0	152 E	30	79
497676 2006 SR_2									
3 2	12 53.63	−16 4.1	1.675	2.531	14.0	21.5	142 W	29	80
3 12	12 48.13	−14 44.6	1.567	2.495	10.3	21.2	153 W	30	79
3 22	12 40.50	−12 54.9	1.483	2.459	6.0	20.9	165 W	32	77
4 1	12 31.55	−10 39.2	1.426	2.422	2.7	20.6	173 E	34	75
4 11	12 22.44	− 8 7.3	1.399	2.384	5.8	20.7	166 E	37	72
4 21	12 14.34	− 5 32.2	1.400	2.346	10.8	20.9	154 E	39	70
5 1	12 8.28	− 3 7.5	1.426	2.307	15.5	21.0	142 E	42	67
5 11	12 4.92	− 1 3.3	1.472	2.267	19.6	21.2	131 E	44	65
5 21	12 4.52	+ 0 34.7	1.534	2.227	23.0	21.4	121 E	46	63
5 31	12 7.09	+ 1 45.0	1.606	2.187	25.6	21.5	111 E	46*	62
495123 2011 WM_{21}									
3 2	12 53.95	+ 7 27.0	1.689	2.594	11.1	22.2	150 W	52	57
3 7	12 50.44	+ 7 58.1	1.650	2.584	9.3	22.1	155 W	53	56
3 12	12 46.34	+ 8 29.8	1.616	2.573	7.5	21.9	160 W	53	56
3 17	12 41.74	+ 9 1.4	1.590	2.562	6.0	21.8	164 W	54	55
3 22	12 36.73	+ 9 31.7	1.570	2.552	4.9	21.7	167 W	55	54
3 27	12 31.46	+ 9 59.7	1.557	2.540	5.0	21.7	167 W	55	54
4 1	12 26.09	+10 24.3	1.552	2.529	6.0	21.7	165 E	55	54
4 6	12 20.76	+10 44.6	1.553	2.518	7.7	21.8	160 E	56	53
4 11	12 15.63	+11 0.0	1.561	2.506	9.7	21.9	155 E	56	53

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
						(continuation)			
	h m	° ′			°	m	°	°	°
495123 2011 WM_{21}									
4 16	12 10.84	+11 10.1	1.575	2.494	11.7	22.0	150 E	56	53
4 21	12 6.51	+11 14.6	1.595	2.482	13.6	22.1	144 E	56	53
4 26	12 2.73	+11 13.3	1.620	2.469	15.5	22.2	139 E	56	53
482566 2012 WK_4									
3 2	12 54.05	− 0 57.6	0.492	1.434	21.2	21.8	149 W	44	65
3 7	12 50.41	+ 0 20.8	0.456	1.418	17.5	21.5	155 W	45	64
3 12	12 45.06	+ 1 55.4	0.423	1.400	13.4	21.1	161 W	47	62
3 17	12 37.95	+ 3 45.7	0.394	1.382	9.2	20.8	167 W	49	60
3 22	12 29.12	+ 5 49.9	0.370	1.364	6.4	20.5	171 W	51	58
3 27	12 18.80	+ 8 4.0	0.351	1.344	7.9	20.4	169 E	53	56
4 1	12 7.36	+10 22.5	0.336	1.323	12.9	20.5	163 E	55	54
4 6	11 55.32	+12 38.7	0.325	1.302	19.0	20.6	155 E	58	51
4 11	11 43.23	+14 46.6	0.318	1.280	25.3	20.7	147 E	60	49
4 16	11 31.65	+16 40.9	0.314	1.258	31.6	20.8	139 E	62	47
4 21	11 21.09	+18 18.6	0.314	1.235	37.6	21.0	131 E	63	46
4 26	11 11.96	+19 38.2	0.314	1.211	43.4	21.1	124 E	65	44
5 1	11 4.46	+20 40.5	0.316	1.187	48.9	21.2	117 E	66	43
5 6	10 58.64	+21 27.2	0.318	1.162	54.0	21.3	111 E	66	43
5 11	10 54.41	+22 1.0	0.319	1.137	58.9	21.4	105 E	67*	42
306514 1999 VX_{178}									
3 2	12 57.99	−14 2.5	2.724	3.560	9.8	21.5	142 W	31	78
3 12	12 52.65	−13 5.4	2.601	3.519	7.2	21.2	154 W	32	77
3 22	12 45.92	−11 51.9	2.505	3.477	4.3	21.0	165 W	33	76
4 1	12 38.32	−10 25.0	2.439	3.435	1.7	20.7	174 E	35	74
4 11	12 30.54	− 8 49.6	2.405	3.392	3.5	20.8	168 E	36	73
4 21	12 23.26	− 7 11.8	2.401	3.348	6.8	20.9	157 E	38	71
5 1	12 17.12	− 5 38.1	2.425	3.303	10.0	21.1	145 E	39	70
5 11	12 12.63	− 4 14.0	2.473	3.257	12.9	21.2	134 E	41	68
5 21	12 10.05	− 3 3.5	2.541	3.211	15.3	21.3	123 E	42	67
5 31	12 9.51	− 2 8.5	2.623	3.164	17.1	21.4	113 E	42*	66
6 10	12 11.00	− 1 29.7	2.714	3.116	18.4	21.5	104 E	40*	65
177049 2003 EE_{16}									
3 2	12 59.60	− 5 19.4	1.034	1.936	16.7	22.3	146 W	40	69
3 7	12 51.30	− 4 24.9	1.024	1.961	13.2	22.2	153 W	41	68
3 12	12 42.29	− 3 25.9	1.021	1.986	9.6	22.1	161 W	42	67
3 17	12 32.86	− 2 24.1	1.025	2.009	5.9	21.9	168 W	43	66
3 22	12 23.28	− 1 21.5	1.037	2.032	2.2	21.8	176 W	44	65
3 27	12 13.88	− 0 20.3	1.056	2.053	1.6	21.8	177 E	45	64
4 1	12 4.95	+ 0 37.4	1.083	2.073	5.1	22.1	169 E	46	63
4 6	11 56.73	+ 1 30.1	1.118	2.093	8.4	22.3	162 E	47	62
4 11	11 49.40	+ 2 16.5	1.159	2.111	11.4	22.5	155 E	47	62
152603 1995 VF_2									
3 2	13 0.56	− 1 18.7	1.631	2.520	12.4	21.7	147 W	44	65
3 12	12 53.55	− 0 29.9	1.542	2.494	8.4	21.4	159 W	44	65
3 22	12 44.25	+ 0 28.3	1.478	2.466	3.9	21.1	170 W	45	64
4 1	12 33.55	+ 1 29.3	1.442	2.438	2.6	20.9	174 E	46	63
4 11	12 22.69	+ 2 24.9	1.434	2.409	7.2	21.1	162 E	47	62
4 21	12 12.91	+ 3 8.1	1.453	2.379	12.1	21.3	150 E	48	61
159459 2000 KB									
3 2	13 0.65	− 2 18.8	3.333	4.195	7.5	22.5	147 W	43	66
3 12	12 53.16	− 0 49.9	3.258	4.199	5.0	22.3	159 W	44	65
3 22	12 44.65	+ 0 44.5	3.216	4.201	2.3	22.1	170 W	46	63
4 1	12 35.64	+ 2 19.6	3.209	4.202	1.7	22.1	173 E	47	62
4 11	12 26.73	+ 3 50.1	3.236	4.202	4.2	22.2	162 E	49	60
4 21	12 18.48	+ 5 11.6	3.297	4.200	6.8	22.4	150 E	50	59
513529 2010 CR_1									
3 2	13 1.53	−42 30.0	1.592	2.280	21.6	22.3	122 W	2	73
3 7	12 52.43	−43 2.8	1.560	2.293	20.4	22.3	126 W	2	73
3 12	12 42.25	−43 23.2	1.533	2.306	19.1	22.2	130 W	2	73
3 17	12 31.21	−43 29.8	1.512	2.317	18.0	22.2	134 W	2	73
3 22	12 19.62	−43 21.3	1.496	2.327	16.9	22.1	137 W	2	73
3 27	12 7.85	−42 57.3	1.487	2.337	16.1	22.1	139 E	2	73
4 1	11 56.28	−42 18.4	1.484	2.345	15.6	22.1	141 E	3	74
4 6	11 45.28	−41 25.9	1.487	2.353	15.4	22.1	141 E	4	75
4 11	11 35.14	−40 21.9	1.498	2.359	15.7	22.1	141 E	5	76
4 16	11 26.09	−39 9.0	1.515	2.365	16.2	22.1	139 E	6	77
4 21	11 18.26	−37 49.8	1.538	2.369	17.0	22.2	136 E	7	78
495089 2011 SA_{29}									
3 2	13 1.86	− 7 21.9	1.481	2.359	14.1	22.1	145 W	38	71
3 12	12 55.43	− 6 54.0	1.391	2.334	9.9	21.8	156 W	38	71
3 22	12 46.47	− 6 10.2	1.323	2.308	5.0	21.4	168 W	39	70
4 1	12 35.91	− 5 14.9	1.283	2.282	0.7	21.1	178 E	40	69
4 11	12 25.08	− 4 15.8	1.269	2.255	6.1	21.4	166 E	41	68
4 21	12 15.35	− 3 21.1	1.281	2.227	11.5	21.6	154 E	42	67
461506 2003 QE_{29}									
3 2	13 1.87	−12 21.4	2.010	2.859	12.2	21.6	142 W	33	76
3 12	12 54.15	−12 26.8	1.917	2.841	8.9	21.4	154 W	33	76
3 22	12 44.45	−12 17.8	1.849	2.823	5.3	21.1	165 W	33	76
4 1	12 33.58	−11 56.0	1.810	2.804	2.7	20.9	172 E	33	76
4 11	12 22.59	−11 25.1	1.801	2.783	5.1	21.0	166 E	34	75
4 21	12 12.56	−10 50.4	1.820	2.762	8.9	21.2	155 E	34	75
5 1	12 4.40	−10 17.7	1.865	2.740	12.7	21.4	143 E	35	74
364067 2005 XK_{66}									
3 2	13 2.32	+11 23.7	2.729	3.606	8.5	21.6	148 W	56	53
3 12	12 56.18	+12 41.1	2.670	3.603	6.3	21.5	157 W	58	51
3 22	12 48.81	+13 55.0	2.638	3.599	4.9	21.4	162 W	59	50
4 1	12 40.77	+14 59.5	2.637	3.595	5.3	21.4	160 E	60	49
4 11	12 32.77	+15 49.8	2.666	3.589	7.2	21.5	153 E	61	48
4 21	12 25.44	+16 23.0	2.721	3.583	9.5	21.7	144 E	61	48
313621 2003 QP_{109}									
3 2	13 2.58	+ 3 30.2	1.803	2.690	11.5	21.3	147 W	49	60
3 12	12 56.35	+ 4 44.3	1.719	2.667	8.0	21.1	158 W	50	59
3 22	12 48.09	+ 6 3.3	1.661	2.643	4.7	20.8	167 W	51	58
4 1	12 38.61	+ 7 19.3	1.632	2.617	4.5	20.7	168 E	52	57
4 11	12 28.97	+ 8 23.8	1.630	2.592	7.9	20.9	159 E	53	56
4 21	12 20.24	+ 9 10.4	1.655	2.565	11.9	21.1	148 E	54	55
5 1	12 13.34	+ 9 35.1	1.702	2.537	15.6	21.2	137 E	55	54
5 11	12 8.87	+ 9 37.4	1.768	2.509	18.7	21.4	127 E	55	54
393504 2002 RC_{139}									
3 2	13 7.56	+ 3 13.3	1.768	2.648	12.1	21.9	146 W	48	61
3 12	13 0.27	+ 4 10.0	1.701	2.645	8.4	21.6	157 W	49	60
3 22	12 50.96	+ 5 9.5	1.660	2.641	4.8	21.4	167 W	50	59
4 1	12 40.54	+ 6 4.5	1.647	2.636	4.0	21.4	169 E	51	58
4 11	12 30.15	+ 6 48.0	1.663	2.630	7.3	21.5	161 E	52	57
4 21	12 20.87	+ 7 15.0	1.706	2.623	11.2	21.7	150 E	52	57
288768 2004 RD_{95}									
3 2	13 13.21	−11 36.1	1.928	2.763	13.3	21.4	140 W	33	76
3 12	13 6.56	−10 44.3	1.871	2.788	9.6	21.2	152 W	34	75
3 22	12 58.15	− 9 37.3	1.839	2.811	5.6	21.0	164 W	35	74
4 1	12 48.81	− 8 19.9	1.836	2.833	1.5	20.8	176 W	37	72
4 11	12 39.55	− 6 59.3	1.862	2.854	3.4	21.0	170 E	38	71
4 21	12 31.30	− 5 42.7	1.917	2.875	7.4	21.2	158 E	39	70
5 1	12 24.78	− 4 36.4	1.998	2.894	11.0	21.5	147 E	40	69
416851 2005 MM_{13}									
3 2	13 16.37	+32 17.9	1.395	2.234	17.2	22.3	138 W	77	32
3 7	13 11.95	+33 38.0	1.380	2.234	16.6	22.2	140 W	79	30
3 12	13 6.61	+34 52.0	1.371	2.234	16.2	22.2	141 W	80	29
3 17	13 0.49	+35 57.6	1.367	2.233	16.1	22.2	141 W	81	28
3 22	12 53.74	+36 52.9	1.368	2.232	16.4	22.2	141 W	82	27
3 27	12 46.58	+37 36.2	1.375	2.230	16.9	22.2	139 W	83	26
4 1	12 39.27	+38 6.5	1.387	2.228	17.7	22.3	137 E	83	26
4 6	12 32.06	+38 23.3	1.405	2.225	18.6	22.3	135 E	83	26
4 11	12 25.19	+38 26.7	1.426	2.222	19.7	22.4	132 E	83	26
4 16	12 18.85	+38 17.5	1.452	2.218	20.8	22.5	128 E	83	26
498152 2007 TK_{111}									
3 2	13 27.41	−14 21.4	1.567	2.381	16.9	21.4	136 W	31	78
3 12	13 22.59	−14 41.4	1.454	2.348	13.5	21.0	147 W	30	79
3 22	13 14.74	−14 44.3	1.361	2.315	9.3	20.7	158 W	30	79
4 1	13 4.43	−14 29.1	1.293	2.281	5.0	20.4	169 W	31	78
4 6	12 58.68	−14 15.2	1.269	2.264	3.5	20.2	172 E	31	78
4 11	12 52.76	−13 57.9	1.251	2.247	3.8	20.2	171 E	31	78
4 16	12 46.86	−13 37.8	1.240	2.229	5.7	20.3	167 E	31	78
4 21	12 41.17	−13 15.8	1.235	2.212	8.2	20.4	162 E	32	77
4 26	12 35.88	−12 53.1	1.237	2.194	10.8	20.4	156 E	32	77
5 1	12 31.15	−12 30.7	1.244	2.177	13.3	20.5	150 E	32	77
5 6	12 27.11	−12 9.9	1.257	2.159	15.7	20.6	145 E	33	76
5 11	12 23.86	−11 51.4	1.274	2.141	18.0	20.7	139 E	33	76
5 16	12 21.46	−11 35.9	1.295	2.123	20.2	20.8	134 E	33	76
5 21	12 19.94	−11 24.2	1.320	2.105	22.1	20.9	128 E	34	75
5 26	12 19.31	−11 16.6	1.348	2.087	23.9	21.0	124 E	34*	75
5 31	12 19.58	−11 13.4	1.379	2.069	25.4	21.0	119 E	33*	75
6 5	12 20.70	−11 14.8	1.411	2.051	26.8	21.1	114 E	33*	75
6 10	12 22.65	−11 20.8	1.445	2.033	28.0	21.2	110 E	31*	75
6 15	12 25.37	−11 31.1	1.480	2.015	29.0	21.2	106 E	30*	76
6 20	12 28.83	−11 45.7	1.516	1.997	29.8	21.3	102 E	28*	76
6 25	12 33.00	−12 4.5	1.552	1.979	30.5	21.4	99 E	26*	76
6 30	12 37.83	−12 27.2	1.588	1.961	31.1	21.4	95 E	24*	76
7 5	12 43.28	−12 53.6	1.624	1.943	31.5	21.4	92 E	22*	77
7 10	12 49.30	−13 23.2	1.659	1.925	31.9	21.5	89 E	20*	77*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
302162 2001 SL_{333}									
3 2	13 33.35	− 3 50.6	1.624	2.454	15.6	21.4	138 W	41	68
3 12	13 28.73	− 3 16.4	1.522	2.430	12.0	21.1	149 W	42	67
3 22	13 21.34	− 2 30.6	1.442	2.406	7.7	20.8	161 W	42	67
4 1	13 11.74	− 1 37.9	1.387	2.381	3.3	20.4	172 W	43	66
4 6	13 6.44	− 1 11.2	1.370	2.368	2.3	20.3	175 W	44	65
4 11	13 1.00	− 0 45.5	1.360	2.355	3.7	20.4	171 E	44	65
4 16	12 55.58	− 0 21.7	1.356	2.342	6.0	20.5	166 E	45	64
4 21	12 50.37	− 0 0.8	1.359	2.329	8.5	20.6	160 E	45	64
4 26	12 45.51	+ 0 16.5	1.368	2.315	11.0	20.7	154 E	45	64
5 1	12 41.15	+ 0 29.4	1.383	2.302	13.4	20.8	148 E	45	64
5 6	12 37.40	+ 0 37.7	1.404	2.288	15.6	20.9	142 E	46	63
5 11	12 34.34	+ 0 41.0	1.429	2.274	17.6	21.0	137 E	46	63
5 16	12 32.01	+ 0 39.2	1.458	2.260	19.5	21.1	132 E	46	63
5 21	12 30.45	+ 0 32.5	1.490	2.246	21.2	21.2	127 E	46	63
5 26	12 29.68	+ 0 20.9	1.526	2.232	22.7	21.2	122 E	45	64
5 31	12 29.68	+ 0 4.6	1.564	2.217	24.0	21.3	117 E	45*	64
6 5	12 30.44	− 0 16.1	1.604	2.203	25.2	21.4	113 E	44*	64
6 10	12 31.92	− 0 41.0	1.646	2.188	26.1	21.5	108 E	42*	65
395207 2010 HQ_{80}									
3 2	13 35.72	−51 49.0	0.664	1.380	42.0	21.0	111 W	—	64
3 7	13 47.56	−53 22.9	0.599	1.343	43.0	20.8	113 W	—	63
3 12	14 1.32	−54 54.7	0.535	1.305	44.1	20.5	114 W	—	61
3 17	14 17.91	−56 23.0	0.471	1.267	45.5	20.2	115 W	—	60
3 22	14 38.79	−57 44.9	0.409	1.228	47.2	19.9	115 W	—	58
3 24	14 48.83	−58 14.5	0.384	1.213	47.9	19.7	115 W	—	58
3 26	15 0.14	−58 41.3	0.360	1.198	48.7	19.6	116 W	—	57
3 28	15 12.95	−59 4.1	0.336	1.182	49.7	19.4	115 W	—	57
3 30	15 27.57	−59 21.3	0.312	1.167	50.7	19.3	115 W	—	57
4 1	15 44.34	−59 30.5	0.289	1.151	51.9	19.1	115 W	—	56
4 2	15 53.64	−59 31.2	0.277	1.144	52.5	19.0	115 W	—	56
4 3	16 3.62	−59 28.4	0.266	1.136	53.2	19.0	114 W	—	57
4 4	16 14.33	−59 21.4	0.254	1.128	54.0	18.9	114 W	—	57
4 5	16 25.79	−59 9.6	0.243	1.121	54.8	18.8	114 W	—	57
4 6	16 38.05	−58 51.7	0.232	1.113	55.7	18.7	113 W	—	57
4 7	16 51.13	−58 26.7	0.221	1.105	56.7	18.6	113 W	—	58
4 8	17 5.02	−57 53.0	0.211	1.098	57.7	18.5	112 W	—	58
4 9	17 19.71	−57 9.1	0.200	1.090	58.9	18.4	111 W	—	59
4 10	17 35.15	−56 12.8	0.190	1.083	60.2	18.3	110 W	—	60
4 11	17 51.26	−55 2.2	0.180	1.075	61.7	18.2	109 W	—	61
4 12	18 7.94	−53 34.5	0.171	1.068	63.3	18.1	108 W	—	62
4 13	18 25.05	−51 47.3	0.162	1.060	65.1	18.1	107 W	—	64
4 14	18 42.42	−49 37.7	0.153	1.053	67.1	18.0	105 W	—	66
4 15	18 59.88	−47 3.1	0.145	1.045	69.4	17.9	103 W	—	69
4 16	19 17.25	−44 1.3	0.138	1.038	71.9	17.9	101 W	—	72
4 17	19 34.35	−40 30.5	0.132	1.031	74.7	17.9	98 W	3*	75
4 18	19 51.02	−36 30.6	0.126	1.023	77.8	17.9	95 W	6*	79*
4 19	20 7.13	−32 2.8	0.122	1.016	81.1	17.9	92 W	10*	82*
4 20	20 22.57	−27 10.7	0.119	1.009	84.6	18.0	89 W	13*	82*
4 21	20 37.28	−21 59.9	0.117	1.002	88.3	18.1	85 W	17*	79*
4 22	20 51.21	−16 38.1	0.117	0.995	91.9	18.2	81 W	21*	74*
4 23	21 4.36	−11 14.0	0.117	0.988	95.4	18.3	78 W	24*	69*
4 24	21 16.72	− 5 56.2	0.120	0.981	98.8	18.5	74 W	28*	64*
4 25	21 28.32	− 0 52.1	0.123	0.974	101.8	18.7	71 W	31*	59*
4 26	21 39.19	+ 3 52.8	0.128	0.967	104.4	18.9	69 W	34*	54*
4 27	21 49.37	+ 8 15.2	0.134	0.960	106.7	19.1	66 W	36*	49*
4 28	21 58.92	+12 13.8	0.140	0.953	108.5	19.3	64 W	38*	45*
4 29	22 7.87	+15 48.6	0.148	0.947	110.0	19.5	62 W	39*	42*
4 30	22 16.27	+19 0.8	0.156	0.940	111.2	19.7	60 W	40*	38*
5 1	22 24.18	+21 52.2	0.164	0.934	112.1	19.8	59 W	41*	35*
5 2	22 31.63	+24 24.6	0.174	0.928	112.8	20.0	58 W	42*	33*
5 3	22 38.67	+26 40.2	0.183	0.921	113.3	20.1	57 W	43*	31*
5 4	22 45.34	+28 40.8	0.193	0.915	113.6	20.2	56 W	43*	29*
5 5	22 51.66	+30 28.3	0.204	0.909	113.7	20.3	56 W	44*	27*
5 6	22 57.68	+32 4.1	0.214	0.903	113.7	20.4	55 W	44*	25*
5 7	23 3.43	+33 29.9	0.225	0.898	113.6	20.5	55 W	44*	24*
5 8	23 8.93	+34 46.7	0.236	0.892	113.4	20.6	54 W	44*	23*
5 9	23 14.20	+35 55.7	0.247	0.886	113.1	20.7	54 W	44*	22*
5 10	23 19.28	+36 57.8	0.259	0.881	112.8	20.7	54 W	44*	21*
5 11	23 24.18	+37 53.7	0.270	0.876	112.4	20.8	53 W	44*	20*
5 12	23 28.91	+38 44.3	0.282	0.871	111.9	20.8	53 W	44*	19*
5 13	23 33.50	+39 30.0	0.294	0.866	111.4	20.9	53 W	45*	18*
5 14	23 37.96	+40 11.4	0.305	0.861	110.9	20.9	53 W	45*	18*
5 15	23 42.31	+40 48.9	0.317	0.856	110.3	21.0	53 W	45*	17*
5 16	23 46.55	+41 23.0	0.329	0.852	109.7	21.0	52 W	45*	17*
5 17	23 50.70	+41 53.9	0.341	0.847	109.0	21.0	52 W	45*	16*
5 18	23 54.77	+42 22.1	0.353	0.843	108.4	21.0	52 W	45*	16*
5 19	23 58.77	+42 47.6	0.365	0.839	107.7	21.1	52 W	45*	16*
5 20	0 2.70	+43 10.9	0.377	0.835	107.0	21.1	52 W	45*	15*
5 21	0 6.57	+43 32.0	0.389	0.831	106.3	21.1	52 W	44*	15*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
395207 2010 HQ_{80} *(continuation)*									
5 23	0 14.18	+44 8.5	0.414	0.825	104.8	21.1	52 W	44*	15*
5 25	0 21.63	+44 38.4	0.438	0.819	103.2	21.2	52 W	44*	14*
5 27	0 28.96	+45 2.6	0.462	0.814	101.6	21.2	52 W	44*	14*
5 29	0 36.21	+45 22.0	0.486	0.809	100.0	21.2	52 W	44*	14*
5 31	0 43.40	+45 37.1	0.510	0.806	98.3	21.2	52 W	44*	14*
6 2	0 50.55	+45 48.5	0.534	0.803	96.6	21.2	52 W	44*	14*
6 4	0 57.67	+45 56.6	0.557	0.801	94.9	21.2	52 W	44*	14*
6 6	1 4.77	+46 1.9	0.580	0.800	93.2	21.2	52 W	44*	14*
6 8	1 11.86	+46 4.6	0.603	0.801	91.5	21.3	52 W	44*	14*
6 10	1 18.93	+46 5.0	0.626	0.802	89.8	21.3	52 W	44*	14*
6 15	1 36.57	+45 57.5	0.680	0.808	85.7	21.3	52 W	45*	14*
6 20	1 54.06	+45 39.7	0.731	0.820	81.7	21.3	53 W	45*	15*
6 25	2 11.29	+45 13.6	0.778	0.836	78.0	21.4	54 W	45*	15*
6 30	2 28.14	+44 40.4	0.821	0.857	74.5	21.4	54 W	46*	16*
412708 2014 OV_{294}									
3 2	13 43.65	− 6 13.2	1.203	2.030	20.1	21.2	135 W	39	70
3 12	13 43.92	− 5 5.5	1.102	2.001	16.4	20.9	145 W	40	69
3 22	13 40.96	− 3 34.0	1.020	1.972	11.8	20.5	156 W	41	68
4 1	13 35.04	− 1 44.1	0.958	1.944	6.9	20.2	166 W	43	66
4 6	13 31.23	− 0 45.7	0.936	1.930	4.9	20.0	170 W	44	65
4 11	13 27.06	+ 0 12.9	0.919	1.916	4.6	19.9	171 W	45	64
4 16	13 22.70	+ 1 9.7	0.909	1.902	6.2	20.0	168 E	46	63
4 21	13 18.35	+ 2 2.9	0.904	1.889	8.8	20.1	163 E	47	62
4 26	13 14.23	+ 2 50.6	0.904	1.875	11.7	20.2	158 E	48	61
5 1	13 10.53	+ 3 31.3	0.910	1.862	14.6	20.3	152 E	49	60
5 6	13 7.42	+ 4 4.1	0.921	1.849	17.4	20.4	147 E	49	60
5 11	13 5.03	+ 4 28.2	0.935	1.837	20.0	20.5	141 E	49	60
5 21	13 2.72	+ 4 50.0	0.975	1.812	24.7	20.7	132 E	50	59
5 31	13 3.98	+ 4 37.7	1.026	1.789	28.5	20.9	123 E	50	59
6 10	13 8.76	+ 3 55.4	1.085	1.767	31.5	21.1	115 E	48*	60
6 20	13 16.75	+ 2 48.4	1.148	1.747	33.7	21.2	107 E	46*	61
6 30	13 27.60	+ 1 21.4	1.215	1.729	35.2	21.4	101 E	42*	63
7 10	13 40.94	− 0 20.9	1.284	1.712	36.2	21.5	96 E	38*	64
85383 1996 MS									
3 2	13 47.01	− 2 13.8	2.582	3.360	12.0	21.3	135 W	43	66
3 12	13 42.92	− 1 23.6	2.470	3.342	9.5	21.1	146 W	44	65
3 22	13 36.95	− 0 25.8	2.383	3.324	6.7	20.9	157 W	45	64
4 1	13 29.48	+ 0 35.6	2.323	3.304	3.9	20.7	167 W	46	63
4 11	13 21.14	+ 1 35.4	2.292	3.284	3.0	20.6	170 W	47	62
4 21	13 12.64	+ 2 28.6	2.291	3.262	5.4	20.7	162 E	47	62
5 1	13 4.74	+ 3 10.6	2.319	3.240	8.6	20.9	151 E	48	61
5 11	12 58.11	+ 3 38.3	2.372	3.217	11.5	21.0	141 E	49	60
5 21	12 53.19	+ 3 50.5	2.447	3.193	14.0	21.2	130 E	49	60
5 31	12 50.26	+ 3 47.0	2.538	3.168	16.1	21.3	120 E	49	60
6 10	12 49.40	+ 3 29.1	2.640	3.143	17.6	21.4	110 E	47*	61
400513 2008 SP_3									
3 2	13 47.15	− 6 8.2	1.491	2.296	18.0	21.3	134 W	39	70
3 12	13 44.87	− 5 16.3	1.383	2.269	14.5	21.0	145 W	40	69
3 22	13 39.54	− 4 6.6	1.294	2.242	10.3	20.7	156 W	41	68
4 1	13 31.52	− 2 43.7	1.228	2.214	5.6	20.3	168 W	42	67
4 6	13 26.77	− 1 59.7	1.205	2.200	3.6	20.2	172 W	43	66
4 11	13 21.72	− 1 15.7	1.188	2.186	3.2	20.1	173 W	44	65
4 16	13 16.53	− 0 33.0	1.178	2.172	5.0	20.2	169 E	44	65
4 21	13 11.40	+ 0 7.0	1.174	2.157	7.5	20.3	164 E	45	64
4 26	13 6.49	+ 0 43.1	1.176	2.142	10.2	20.4	158 E	46	63
5 1	13 1.99	+ 1 14.2	1.184	2.128	12.8	20.5	152 E	46	63
5 6	12 58.05	+ 1 39.4	1.198	2.113	15.3	20.6	146 E	47	62
5 11	12 54.77	+ 1 58.3	1.216	2.098	17.7	20.7	141 E	47	62
5 16	12 52.23	+ 2 10.7	1.238	2.083	19.9	20.8	135 E	47	62
5 21	12 50.48	+ 2 16.4	1.264	2.068	22.0	20.8	130 E	47	62
5 26	12 49.57	+ 2 15.6	1.294	2.053	23.8	20.9	125 E	47	62
5 31	12 49.50	+ 2 8.5	1.326	2.038	25.4	21.0	121 E	47	62
6 5	12 50.24	+ 1 55.4	1.359	2.022	26.8	21.1	116 E	47*	62
6 10	12 51.78	+ 1 36.9	1.395	2.007	28.0	21.2	112 E	45*	62
6 15	12 54.07	+ 1 13.3	1.432	1.992	29.1	21.2	108 E	44*	63
6 20	12 57.08	+ 0 45.0	1.469	1.977	29.9	21.3	104 E	42*	63
6 25	13 0.78	+ 0 12.5	1.507	1.962	30.7	21.4	100 E	40*	64
6 30	13 5.12	− 0 23.9	1.545	1.947	31.2	21.4	97 E	38*	64
7 5	13 10.05	− 1 3.8	1.584	1.932	31.7	21.5	93 E	36*	65
177953 2006 MQ_6									
3 2	13 54.99	− 9 24.7	2.173	2.926	14.7	21.4	132 W	36	73
3 12	13 51.69	− 8 45.4	2.053	2.905	12.0	21.2	142 W	36	73
3 22	13 46.06	− 7 52.5	1.954	2.882	8.7	20.9	154 W	37	72
4 1	13 38.44	− 6 48.2	1.880	2.859	4.9	20.7	166 W	38	71
4 11	13 29.51	− 5 37.4	1.835	2.835	1.3	20.4	176 W	39	70

177953 2006 MQ_6 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 16	13 24.82	− 5 1.4	1.823	2.823	2.1	20.4	174 E	40	69
4 21	13 20.14	− 4 26.1	1.818	2.810	4.1	20.5	168 E	41	68
4 26	13 15.60	− 3 52.4	1.821	2.797	6.2	20.6	163 E	41	68
5 1	13 11.31	− 3 21.0	1.831	2.784	8.3	20.7	157 E	42	67
5 6	13 7.39	− 2 52.7	1.847	2.771	10.3	20.8	151 E	42	67
5 11	13 3.90	− 2 28.0	1.869	2.757	12.1	20.9	145 E	43	66
5 16	13 0.93	− 2 7.3	1.896	2.744	13.9	21.0	139 E	43	66
5 21	12 58.52	− 1 50.9	1.929	2.730	15.5	21.1	134 E	43	66
5 26	12 56.71	− 1 38.9	1.965	2.716	16.9	21.1	129 E	43	66
5 31	12 55.53	− 1 31.4	2.005	2.701	18.2	21.2	124 E	43	66
6 5	12 54.96	− 1 28.3	2.049	2.687	19.4	21.3	119 E	43*	65
6 10	12 55.01	− 1 29.4	2.094	2.672	20.3	21.3	114 E	43*	65
6 15	12 55.66	− 1 34.7	2.142	2.657	21.2	21.4	109 E	41*	66
6 20	12 56.89	− 1 43.8	2.191	2.641	21.8	21.5	105 E	40*	66

414032 2007 PJ_{34}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	14 4.26	− 1 21.1	1.731	2.499	17.3	21.5	131 W	44	65
3 12	14 2.25	− 0 26.9	1.617	2.474	14.5	21.2	142 W	45	64
3 22	13 57.35	+ 0 38.9	1.522	2.448	11.0	20.9	152 W	46	63
4 1	13 49.83	+ 1 50.8	1.451	2.421	7.4	20.7	162 W	47	62
4 11	13 40.38	+ 3 1.1	1.405	2.393	5.2	20.5	167 W	48	61
4 16	13 35.25	+ 3 33.0	1.392	2.379	5.7	20.5	166 E	49	60
4 21	13 30.04	+ 4 1.2	1.386	2.365	7.2	20.5	163 E	49	60
4 26	13 24.92	+ 4 24.9	1.386	2.351	9.1	20.6	158 E	49	60
5 1	13 20.06	+ 4 43.2	1.393	2.336	11.2	20.7	153 E	50	59
5 6	13 15.61	+ 4 55.7	1.405	2.322	13.4	20.7	148 E	50	59
5 11	13 11.66	+ 5 2.0	1.423	2.307	15.5	20.8	142 E	50	59
5 16	13 8.33	+ 5 2.1	1.445	2.292	17.4	20.9	137 E	50	59
5 21	13 5.67	+ 4 56.2	1.471	2.277	19.3	21.0	132 E	50	59
5 26	13 3.75	+ 4 44.3	1.501	2.262	20.9	21.1	127 E	50	59
5 31	13 2.58	+ 4 26.8	1.535	2.247	22.4	21.2	122 E	49	60
6 5	13 2.17	+ 4 4.1	1.570	2.231	23.7	21.2	118 E	49*	60
6 10	13 2.50	+ 3 36.7	1.608	2.216	24.9	21.3	113 E	48*	60
6 15	13 3.55	+ 3 5.0	1.648	2.201	25.9	21.4	109 E	46*	61
6 20	13 5.30	+ 2 29.3	1.688	2.185	26.7	21.4	105 E	44*	62
6 25	13 7.70	+ 1 50.0	1.730	2.169	27.4	21.5	101 E	42*	62

215476 2002 RP_{134}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	14 5.10	− 5 1.6	1.847	2.601	16.9	21.4	130 W	40	69
3 12	14 2.81	− 4 37.8	1.718	2.566	14.2	21.1	141 W	40	69
3 22	13 57.68	− 4 3.2	1.608	2.530	10.7	20.8	152 W	41	68
4 1	13 49.90	− 3 20.5	1.521	2.494	6.7	20.5	163 W	42	67
4 6	13 45.20	− 2 57.6	1.487	2.475	4.7	20.3	168 W	42	67
4 11	13 40.10	− 2 34.8	1.460	2.457	3.2	20.2	172 W	42	67
4 16	13 34.74	− 2 12.7	1.440	2.438	3.3	20.1	172 E	43	66
4 21	13 29.25	− 1 52.2	1.427	2.419	4.9	20.2	168 E	43	66
4 26	13 23.82	− 1 34.3	1.420	2.400	7.2	20.3	163 E	43	66
5 1	13 18.60	− 1 19.6	1.420	2.380	9.5	20.4	157 E	44	65
5 11	13 9.37	− 1 2.6	1.438	2.341	14.2	20.5	145 E	44	65
5 21	13 2.49	− 1 4.0	1.477	2.302	18.3	20.7	134 E	44	65
5 31	12 58.53	− 1 25.1	1.531	2.262	21.8	20.9	124 E	44	65
6 10	12 57.67	− 2 4.8	1.596	2.221	24.5	21.0	115 E	42*	66
6 20	12 59.81	− 3 1.2	1.669	2.180	26.6	21.1	106 E	39*	67
6 30	13 4.76	− 4 12.2	1.744	2.139	28.1	21.2	98 E	34*	68
7 10	13 12.26	− 5 35.6	1.820	2.098	29.0	21.3	91 E	30*	70
7 20	13 22.05	− 7 9.3	1.895	2.057	29.4	21.3	84 E	26*	70*
7 30	13 33.92	− 8 51.3	1.967	2.016	29.5	21.4	78 E	22*	69*
8 9	13 47.71	−10 39.7	2.034	1.976	29.3	21.4	72 E	19*	65*
8 19	14 3.28	−12 32.6	2.095	1.936	28.7	21.4	67 E	17*	60*
8 29	14 20.59	−14 28.1	2.152	1.896	28.0	21.4	62 E	15*	56*
9 8	14 39.55	−16 24.0	2.202	1.858	27.1	21.4	57 E	13*	51*
9 18	15 0.18	−18 18.0	2.246	1.821	26.0	21.3	53 E	12*	47*
9 28	15 22.48	−20 7.7	2.285	1.785	24.8	21.3	48 E	10*	42*
10 8	15 46.42	−21 50.2	2.319	1.750	23.5	21.3	44 E	9*	38*
10 18	16 12.00	−23 22.5	2.347	1.718	22.2	21.2	41 E	8*	35*
10 28	16 39.18	−24 41.4	2.372	1.688	20.8	21.1	37 E	8*	31*
11 7	17 7.84	−25 43.6	2.393	1.661	19.3	21.1	34 E	7*	27*
11 17	17 37.84	−26 26.0	2.411	1.636	17.8	21.0	30 E	7*	24*
11 27	18 8.94	−26 45.9	2.427	1.615	16.3	20.9	27 E	6*	21*
12 7	18 40.82	−26 41.0	2.442	1.597	14.7	20.9	24 E	6*	17*
12 17	19 13.17	−26 10.1	2.457	1.583	13.2	20.8	22 E	5*	14*
12 27	19 45.61	−25 13.1	2.471	1.572	11.6	20.8	19 E	4*	11*
1 6	20 17.80	−23 50.8	2.486	1.566	10.1	20.7	16 E	3*	9*
1 16	20 49.47	−22 5.2	2.503	1.564	8.5	20.6	14 E	2*	7*

408768 1998 SQ_{49}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	14 6.37	− 5 13.3	1.345	2.122	21.0	21.2	130 W	40	69
3 12	14 5.87	− 5 15.6	1.215	2.076	17.9	20.8	140 W	40	69
3 22	14 1.76	− 5 7.7	1.102	2.030	13.9	20.4	151 W	40	69
4 1	13 53.88	− 4 51.8	1.008	1.983	8.9	20.0	162 W	40	69

408768 1998 SQ_{49} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 6	13 48.66	− 4 42.2	0.970	1.959	6.2	19.8	168 W	40	69
4 11	13 42.71	− 4 32.5	0.937	1.935	3.6	19.5	173 W	40	69
4 16	13 36.21	− 4 23.6	0.910	1.912	3.0	19.4	174 E	41	68
4 21	13 29.37	− 4 16.2	0.890	1.888	5.3	19.5	170 E	41	68
4 26	13 22.43	− 4 11.6	0.875	1.864	8.5	19.5	164 E	41	68
5 1	13 15.67	− 4 10.6	0.866	1.840	11.9	19.6	158 E	41	68
5 6	13 9.35	− 4 14.1	0.863	1.816	15.2	19.7	152 E	41	68
5 11	13 3.67	− 4 22.8	0.864	1.792	18.5	19.8	146 E	41	68
5 21	12 54.95	− 4 56.8	0.879	1.744	24.5	20.0	134 E	40	69
5 31	12 50.48	− 5 54.1	0.906	1.697	29.6	20.1	124 E	39	70
6 10	12 50.53	− 7 13.8	0.941	1.651	33.8	20.3	115 E	37*	71
6 20	12 54.92	− 8 53.6	0.979	1.606	37.2	20.4	107 E	33*	73
6 30	13 3.36	−10 50.9	1.019	1.563	39.8	20.5	100 E	28*	75
7 10	13 15.48	−13 2.7	1.058	1.523	41.7	20.6	94 E	24*	77
7 20	13 30.99	−15 25.9	1.096	1.485	43.2	20.6	89 E	20*	79*
7 30	13 49.73	−17 57.1	1.131	1.450	44.2	20.7	85 E	17*	78*
8 9	14 11.56	−20 31.9	1.163	1.420	44.9	20.7	81 E	14*	75*
8 19	14 36.48	−23 5.3	1.194	1.394	45.2	20.7	78 E	12*	72*
8 29	15 4.49	−25 31.5	1.224	1.372	45.3	20.8	75 E	11*	69*
9 8	15 35.53	−27 43.5	1.253	1.357	45.2	20.8	73 E	10*	66*
9 18	16 9.45	−29 33.7	1.285	1.347	44.8	20.8	71 E	9*	64*
9 28	16 45.95	−30 54.3	1.319	1.344	44.2	20.8	69 E	9*	63*
10 8	17 24.38	−31 38.7	1.357	1.346	43.4	20.9	68 E	10*	61*
10 18	18 3.97	−31 42.0	1.402	1.355	42.3	20.9	66 E	11*	60*
10 28	18 43.77	−31 2.6	1.453	1.370	41.1	21.0	65 E	12*	59*
11 7	19 22.85	−29 42.4	1.511	1.390	39.7	21.1	64 E	14*	57*
11 17	20 0.49	−27 45.8	1.578	1.415	38.1	21.2	62 E	16*	55*
11 27	20 36.23	−25 19.6	1.653	1.445	36.4	21.3	60 E	19*	52*
12 7	21 9.85	−22 31.0	1.736	1.479	34.5	21.4	58 E	22*	49*
12 17	21 41.38	−19 27.1	1.826	1.517	32.6	21.5	56 E	24*	44*

401824 1998 QG_{71}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	14 15.06	−24 6.9	1.540	2.224	22.3	21.2	121 W	21	88
3 12	14 15.78	−25 5.2	1.415	2.195	20.1	21.0	131 W	20	89
3 22	14 13.14	−25 47.7	1.304	2.166	17.1	20.7	140 W	19	90
4 1	14 7.01	−26 9.2	1.210	2.137	13.4	20.3	150 W	19	90
4 6	14 2.75	−26 10.6	1.171	2.122	11.4	20.2	155 W	19	90
4 11	13 57.83	−26 5.1	1.137	2.107	9.4	20.0	160 W	19	90
4 16	13 52.39	−25 52.6	1.109	2.092	7.7	19.9	164 W	19	90
4 21	13 46.62	−25 33.0	1.087	2.077	6.7	19.8	166 E	19	90
4 26	13 40.74	−25 6.8	1.071	2.061	6.8	19.7	166 E	20	89
5 1	13 34.98	−24 35.1	1.061	2.046	8.1	19.8	163 E	20	89
5 6	13 29.58	−23 59.0	1.056	2.031	10.2	19.8	159 E	21	88
5 11	13 24.73	−23 20.0	1.058	2.016	12.5	19.9	154 E	22	87
5 16	13 20.59	−22 39.7	1.064	2.001	15.0	20.0	149 E	22	87
5 21	13 17.29	−21 59.6	1.076	1.986	17.4	20.1	144 E	23	86
5 26	13 14.93	−21 21.2	1.091	1.971	19.8	20.2	139 E	24	85
5 31	13 13.57	−20 45.7	1.111	1.956	21.9	20.2	134 E	24	85
6 5	13 13.22	−20 14.2	1.134	1.941	23.9	20.3	129 E	25*	84
6 10	13 13.86	−19 47.2	1.159	1.926	25.7	20.4	125 E	25*	84
6 20	13 17.97	−19 8.0	1.217	1.897	28.8	20.6	116 E	24*	83
6 30	13 25.61	−18 49.3	1.282	1.868	31.1	20.7	108 E	23*	83
7 10	13 36.35	−18 49.7	1.349	1.840	32.8	20.9	101 E	21*	83
7 20	13 49.80	−19 6.4	1.419	1.813	34.0	21.0	95 E	19*	83
7 30	14 5.67	−19 36.1	1.489	1.787	34.6	21.1	89 E	17*	82*
8 9	14 23.67	−20 15.1	1.558	1.762	34.9	21.1	84 E	16*	77*
8 19	14 43.60	−20 59.7	1.625	1.739	34.8	21.2	79 E	15*	73*
8 29	15 5.30	−21 46.5	1.691	1.717	34.5	21.2	74 E	14*	68*
9 8	15 28.60	−22 31.5	1.756	1.698	33.9	21.3	70 E	14*	64*
9 18	15 53.36	−23 11.3	1.818	1.680	33.1	21.3	66 E	14*	60*
9 28	16 19.44	−23 42.6	1.879	1.665	32.1	21.3	62 E	14*	56*
10 8	16 46.64	−24 2.1	1.938	1.651	31.0	21.4	58 E	14*	52*
10 18	17 14.76	−24 7.2	1.997	1.641	29.8	21.4	55 E	15*	49*
10 28	17 43.59	−23 55.6	2.054	1.633	28.4	21.4	52 E	15*	45*
11 7	18 12.86	−23 25.8	2.111	1.628	27.0	21.4	48 E	16*	41*
11 17	18 42.33	−22 36.9	2.167	1.625	25.5	21.4	45 E	17*	37*
11 27	19 11.75	−21 28.8	2.223	1.626	23.8	21.4	42 E	17*	32*
12 7	19 40.90	−20 2.0	2.279	1.629	22.2	21.4	39 E	18*	28*
12 17	20 9.62	−18 17.8	2.334	1.635	20.4	21.4	35 E	18*	24*
12 27	20 37.77	−16 18.0	2.389	1.643	18.6	21.4	32 E	18*	19*
1 6	21 5.25	−14 4.6	2.443	1.655	16.8	21.4	29 E	18*	15*
1 16	21 32.06	−11 40.0	2.497	1.668	14.9	21.4	26 E	17*	11*

164670 1996 XM_6

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	14 19.82	− 6 18.5	2.450	3.142	14.7	21.4	126 W	39	70
3 12	14 16.80	− 5 46.1	2.337	3.139	12.4	21.2	137 W	39	70
3 22	14 11.52	− 5 4.9	2.244	3.135	9.6	21.0	148 W	40	69
4 1	14 4.27	− 4 17.3	2.175	3.131	6.4	20.8	160 W	41	68
4 11	13 55.59	− 3 27.4	2.134	3.125	3.3	20.5	170 W	42	67
4 21	13 46.23	− 2 39.9	2.123	3.119	3.0	20.5	171 E	42	67

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	164670 1996 XM_6				*(continuation)*				
	h m	° ′			°	m	°	°	°
5 1	13 37.02	− 1 59.4	2.141	3.111	6.1	20.7	161 E	43	66
5 11	13 28.80	− 1 30.1	2.188	3.102	9.4	20.9	150 E	43	66
5 21	13 22.18	− 1 14.3	2.258	3.093	12.4	21.1	139 E	44	65
5 31	13 17.56	− 1 12.9	2.349	3.082	15.0	21.2	128 E	44	65
6 10	13 15.11	− 1 25.5	2.455	3.071	16.9	21.4	118 E	43*	65
	247877 2003 UU_{152}								
3 2	14 30.30	+ 8 20.9	2.479	3.165	14.7	21.5	126 W	53	56
3 12	14 26.93	+ 9 13.5	2.374	3.160	12.7	21.3	135 W	54	55
3 22	14 21.21	+10 7.8	2.289	3.155	10.5	21.2	145 W	55	54
4 1	14 13.38	+10 58.2	2.228	3.148	8.4	21.0	153 W	56	53
4 11	14 3.99	+11 38.5	2.193	3.141	7.1	20.9	157 W	57	52
4 21	13 53.79	+12 3.3	2.187	3.132	7.5	20.9	156 E	57	52
5 1	13 43.67	+12 8.7	2.208	3.122	9.3	21.0	150 E	57	52
5 11	13 34.48	+11 53.3	2.256	3.112	11.6	21.1	142 E	57	52
5 21	13 26.87	+11 18.1	2.326	3.100	13.9	21.3	132 E	56	53
5 31	13 21.30	+10 25.3	2.415	3.088	16.0	21.4	123 E	55	54
	338808 2003 WZ_{12}								
3 2	14 31.59	−42 36.0	2.870	3.335	16.3	21.5	110 W	2	73
3 12	14 30.05	−43 37.1	2.719	3.304	15.4	21.3	118 W	1	72
3 22	14 25.73	−44 24.4	2.581	3.271	14.2	21.1	126 W	1	72
4 1	14 18.66	−44 52.6	2.458	3.238	12.7	21.0	134 W	—	71
4 11	14 9.24	−44 56.6	2.356	3.203	11.2	20.8	142 W	—	71
4 21	13 58.25	−44 32.5	2.276	3.168	9.9	20.6	147 W	—	71
5 1	13 46.79	−43 38.9	2.221	3.132	9.3	20.5	150 E	1	72
5 11	13 36.11	−42 18.7	2.191	3.095	9.9	20.5	148 E	3	74
5 21	13 27.26	−40 38.4	2.187	3.058	11.5	20.5	143 E	4	75
5 31	13 20.97	−38 46.8	2.207	3.019	13.5	20.6	136 E	6	77
6 10	13 17.59	−36 53.3	2.247	2.980	15.6	20.7	128 E	8*	79
6 20	13 17.14	−35 5.4	2.303	2.939	17.5	20.8	119 E	9*	81
6 30	13 19.46	−33 28.7	2.373	2.898	19.1	20.9	111 E	8*	83
7 10	13 24.29	−32 6.5	2.452	2.856	20.3	20.9	103 E	7*	84
7 20	13 31.34	−30 59.8	2.536	2.814	21.1	21.0	95 E	6*	84*
7 30	13 40.37	−30 8.4	2.622	2.770	21.5	21.1	88 E	5*	79*
8 9	13 51.13	−29 31.1	2.708	2.726	21.5	21.1	80 E	4*	72*
8 19	14 3.43	−29 6.2	2.790	2.681	21.2	21.1	73 E	3*	65*
8 29	14 17.14	−28 51.5	2.867	2.635	20.6	21.1	67 E	2*	58*
9 8	14 32.11	−28 45.0	2.938	2.589	19.7	21.1	60 E	2*	52*
9 18	14 48.25	−28 44.3	3.000	2.542	18.6	21.1	54 E	1*	46*
9 28	15 5.51	−28 47.2	3.053	2.495	17.3	21.0	48 E	1*	41*
10 8	15 23.78	−28 51.4	3.096	2.447	15.9	21.0	42 E	1*	35*
10 18	15 43.04	−28 54.7	3.128	2.399	14.2	20.9	36 E	—	30*
10 28	16 3.22	−28 55.1	3.149	2.350	12.5	20.8	31 E	—	24*
11 7	16 24.24	−28 50.1	3.158	2.301	10.6	20.7	25 E	—	19*
11 17	16 46.05	−28 37.9	3.156	2.252	8.6	20.5	20 E	—	14*
11 27	17 8.57	−28 16.4	3.142	2.202	6.5	20.4	15 E	—	9*
12 7	17 31.69	−27 43.7	3.118	2.153	4.4	20.2	10 E	—	4*
12 17	17 55.32	−26 58.1	3.083	2.104	2.4	20.0	5 E	—	—
12 27	18 19.35	−25 58.0	3.038	2.056	1.3	19.9	3 W	—	—
1 6	18 43.67	−24 42.0	2.983	2.008	2.9	19.9	6 W	—	—
1 16	19 8.17	−23 9.0	2.921	1.961	5.1	19.9	10 W	—	4*
	514609 2003 TY_7								
3 2	14 46.42	+64 52.4	1.182	1.778	31.7	21.8	109 W	70	—
3 7	14 24.48	+65 33.0	1.168	1.782	31.3	21.7	111 W	69	—
3 12	13 58.98	+65 50.0	1.157	1.787	31.0	21.7	112 W	69	—
3 17	13 31.17	+65 36.7	1.149	1.791	30.7	21.7	113 W	69	—
3 22	13 2.87	+64 48.6	1.146	1.796	30.5	21.7	114 W	70	—
3 27	12 36.01	+63 24.7	1.147	1.800	30.4	21.7	114 W	72	1
4 1	12 12.11	+61 27.5	1.152	1.804	30.5	21.7	114 E	74	3
4 6	11 51.95	+59 2.3	1.163	1.808	30.6	21.7	113 E	76	5
4 11	11 35.64	+56 15.4	1.180	1.812	30.9	21.8	112 E	79	8
4 16	11 22.90	+53 13.2	1.201	1.815	31.2	21.8	111 E	82	11
4 21	11 13.28	+50 1.3	1.228	1.819	31.6	21.9	109 E	85	14
4 26	11 6.30	+46 44.5	1.260	1.822	32.0	22.0	106 E	88	17
	141495 2002 EZ_{11}								
3 2	14 47.20	−13 57.2	1.273	1.946	26.7	21.5	118 W	31	78
3 7	14 45.13	−13 43.4	1.197	1.931	25.4	21.3	124 W	31	78
3 12	14 41.71	−13 23.2	1.124	1.915	23.6	21.1	129 W	32	77
3 17	14 36.77	−12 55.5	1.054	1.897	21.5	20.9	136 W	32	77
3 22	14 30.15	−12 19.3	0.988	1.878	18.9	20.6	142 W	33	76
3 27	14 21.71	−11 33.4	0.927	1.857	15.8	20.3	149 W	33	76
4 1	14 11.39	−10 37.1	0.872	1.834	12.3	20.1	157 W	34	75
4 11	13 45.31	− 8 11.9	0.785	1.784	3.7	19.4	173 W	37	72
4 21	13 13.67	− 5 10.5	0.731	1.726	7.2	19.3	168 E	40	69
5 1	12 40.53	− 1 57.7	0.713	1.661	18.1	19.6	149 E	43	66
5 6	12 24.92	− 0 27.5	0.716	1.625	23.4	19.7	140 E	45	64
5 11	12 10.60	+ 0 53.9	0.726	1.587	28.4	19.9	132 E	46	63

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	141495 2002 EZ_{11}				*(continuation)*				
	h m	° ′			°	m	°	°	°
5 16	11 57.85	+ 2 4.7	0.741	1.547	33.1	20.0	123 E	47	62
5 21	11 46.84	+ 3 3.8	0.759	1.505	37.3	20.1	116 E	48*	61
5 31	11 30.02	+ 4 28.4	0.801	1.413	44.7	20.3	102 E	46*	60
6 10	11 19.24	+ 5 15.0	0.842	1.310	50.8	20.4	89 E	40*	59
6 20	11 13.00	+ 5 34.0	0.872	1.196	56.3	20.4	78 E	33*	58*
6 25	11 11.07	+ 5 36.4	0.881	1.133	59.0	20.4	73 E	30*	57*
6 30	11 9.64	+ 5 35.8	0.886	1.067	61.9	20.4	68 E	26*	54*
7 5	11 8.40	+ 5 34.0	0.884	0.997	65.1	20.3	63 E	23*	52*
7 10	11 7.05	+ 5 32.8	0.876	0.922	68.8	20.3	58 E	20*	48*
7 15	11 5.14	+ 5 34.9	0.862	0.842	73.2	20.2	53 E	17*	44*
7 20	11 2.05	+ 5 43.9	0.840	0.757	78.9	20.1	47 E	14*	39*
7 25	10 56.81	+ 6 5.9	0.811	0.666	86.4	20.0	41 E	10*	34*
7 30	10 47.79	+ 6 50.4	0.776	0.568	96.9	20.0	34 E	7*	27*
8 1	10 42.59	+ 7 17.9	0.762	0.527	102.4	20.1	30 E	6*	24*
8 3	10 36.15	+ 7 52.6	0.748	0.485	109.0	20.2	27 E	4*	21*
8 5	10 28.23	+ 8 36.1	0.735	0.441	116.9	20.5	23 E	2*	17*
8 7	10 18.57	+ 9 29.6	0.726	0.398	126.5	21.0	18 E	—	12*
	261918 2006 KL_{23}								
3 2	14 49.75	−22 23.9	1.441	2.062	25.9	21.2	115 W	23	86
3 12	14 57.11	−22 56.1	1.309	2.029	24.3	21.0	123 W	22	87
3 22	15 1.73	−23 11.8	1.189	1.995	21.9	20.6	132 W	22	87
4 1	15 3.15	−23 7.7	1.081	1.963	18.6	20.3	141 W	22	87
4 11	15 1.15	−22 40.8	0.989	1.930	14.3	19.9	152 W	22	87
4 21	14 55.90	−21 48.7	0.916	1.899	9.1	19.5	163 W	23	86
4 26	14 52.27	−21 13.1	0.887	1.884	6.3	19.3	168 W	24	85
5 1	14 48.17	−20 31.9	0.864	1.868	3.5	19.1	174 W	24	85
5 6	14 43.81	−19 45.9	0.846	1.854	2.1	18.9	176 E	25	84
5 11	14 39.41	−18 56.5	0.833	1.839	4.3	19.0	172 E	26	83
5 16	14 35.18	−18 5.1	0.826	1.825	7.4	19.1	167 E	27	82
5 21	14 31.34	−17 13.5	0.824	1.811	10.6	19.2	161 E	28	81
5 26	14 28.10	−16 23.3	0.828	1.798	13.8	19.4	155 E	29	80
5 31	14 25.62	−15 36.4	0.835	1.785	16.8	19.5	149 E	29	80
6 5	14 24.03	−14 54.1	0.847	1.772	19.6	19.6	144 E	30	79
6 10	14 23.39	−14 17.3	0.863	1.760	22.3	19.7	139 E	31	78
6 20	14 25.06	−13 22.5	0.904	1.737	26.9	19.9	129 E	32	77
6 30	14 30.68	−12 54.0	0.955	1.716	30.5	20.1	121 E	32*	77
7 10	14 39.94	−12 49.8	1.012	1.698	33.3	20.3	114 E	31*	77
7 20	14 52.39	−13 5.5	1.075	1.682	35.3	20.4	107 E	29*	77
7 30	15 7.68	−13 36.6	1.142	1.670	36.6	20.6	101 E	28*	78
8 9	15 25.40	−14 17.9	1.212	1.659	37.4	20.7	96 E	27*	78
8 19	15 45.20	−15 4.4	1.284	1.652	37.8	20.9	91 E	26*	79*
8 29	16 6.82	−15 51.9	1.358	1.648	37.7	21.0	87 E	25*	77*
9 8	16 29.97	−16 36.0	1.434	1.647	37.4	21.1	83 E	25*	75*
9 18	16 54.40	−17 13.1	1.512	1.650	36.7	21.2	79 E	25*	71*
9 28	17 19.88	−17 40.1	1.593	1.655	35.9	21.3	75 E	24*	68*
10 8	17 46.13	−17 54.4	1.676	1.663	34.8	21.4	72 E	25*	64*
10 18	18 12.92	−17 54.3	1.762	1.674	33.6	21.5	68 E	25*	60*
	153953 2002 AD_9								
3 2	14 52.23	−36 15.5	2.030	2.532	21.7	21.4	109 W	9	80
3 7	14 50.91	−37 18.8	1.934	2.501	21.3	21.3	113 W	8	79
3 12	14 48.49	−38 23.0	1.841	2.468	20.8	21.1	118 W	7	78
3 17	14 44.85	−39 27.6	1.752	2.435	20.2	21.0	122 W	6	77
3 22	14 39.80	−40 31.5	1.666	2.401	19.4	20.8	127 W	4	75
3 27	14 33.21	−41 33.5	1.584	2.366	18.4	20.6	131 W	3	74
4 1	14 24.94	−42 31.9	1.508	2.330	17.4	20.4	136 W	2	73
4 6	14 14.90	−43 24.3	1.437	2.292	16.4	20.3	140 W	2	73
4 11	14 3.09	−44 8.4	1.372	2.254	15.6	20.1	143 W	1	72
4 16	13 49.58	−44 41.0	1.315	2.215	14.9	20.0	145 W	—	71
4 21	13 34.60	−44 59.2	1.264	2.175	14.8	19.8	147 E	—	71
4 26	13 18.53	−45 0.4	1.221	2.133	15.2	19.7	146 E	—	71
5 1	13 1.91	−44 43.2	1.186	2.091	16.2	19.6	145 E	—	71
5 6	12 45.33	−44 7.3	1.159	2.047	17.9	19.6	141 E	1	72
5 11	12 29.36	−43 14.1	1.138	2.002	20.0	19.6	137 E	2	73
5 16	12 14.52	−42 6.2	1.124	1.955	22.4	19.6	133 E	3	74
5 21	12 1.17	−40 47.0	1.116	1.908	25.0	19.6	127 E	4	75
5 26	11 49.54	−39 20.7	1.114	1.859	27.6	19.6	122 E	5*	77
5 31	11 39.73	−37 51.2	1.115	1.808	30.2	19.6	116 E	6*	78
6 5	11 31.69	−36 22.1	1.119	1.756	32.7	19.6	111 E	5*	80
6 10	11 25.32	−34 56.1	1.126	1.703	35.1	19.7	105 E	5*	81
6 15	11 20.49	−33 35.1	1.133	1.647	37.4	19.7	100 E	4*	82
6 20	11 17.07	−32 20.5	1.140	1.590	39.5	19.7	95 E	2*	82*
6 25	11 14.90	−31 13.1	1.146	1.532	41.6	19.6	90 E	1*	79*
6 30	11 13.83	−30 13.4	1.151	1.471	43.5	19.6	85 E	—	75*
7 5	11 13.73	−29 21.2	1.152	1.409	45.4	19.6	81 E	—	71*
7 10	11 14.45	−28 36.0	1.150	1.344	47.3	19.5	76 E	—	66*
7 15	11 15.91	−27 57.2	1.144	1.277	49.3	19.5	72 E	—	62*

153953 2002 AD_9 *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 20	11 17.98	−27 23.9	1.132	1.208	51.4	19.4	68 E	—	57*
7 25	11 20.58	−26 54.8	1.116	1.136	53.6	19.3	64 E	—	53*
7 30	11 23.56	−26 28.4	1.092	1.062	56.2	19.2	60 E	—	49*
8 4	11 26.79	−26 2.1	1.062	0.984	59.3	19.0	57 E	—	45*
8 9	11 30.11	−25 32.1	1.024	0.904	63.1	18.9	53 E	—	40*
8 14	11 33.27	−24 53.0	0.978	0.821	67.9	18.7	49 E	—	36*
8 19	11 35.91	−23 55.5	0.924	0.736	74.2	18.6	44 E	—	32*
8 21	11 36.70	−23 24.2	0.899	0.701	77.3	18.5	43 E	—	30*
8 23	11 37.26	−22 46.1	0.874	0.666	80.9	18.4	41 E	—	28*
8 25	11 37.54	−21 59.3	0.847	0.630	85.0	18.4	38 E	—	26*
8 27	11 37.47	−21 1.5	0.820	0.595	89.7	18.4	36 E	—	24*
8 29	11 36.94	−19 49.9	0.792	0.559	95.2	18.4	33 E	—	21*
8 31	11 35.88	−18 20.7	0.763	0.524	101.7	18.5	31 E	—	18*
9 2	11 34.19	−16 29.8	0.735	0.490	109.3	18.7	27 E	—	15*
9 4	11 31.77	−14 12.6	0.709	0.457	118.2	19.1	24 E	—	12*
9 6	11 28.58	−11 24.8	0.686	0.426	128.6	19.7	19 E	—	8*
9 8	11 24.66	− 8 4.1	0.668	0.398	140.7	20.9	14 E	—	4*

11311 Peleus

3 2	14 56.68	+ 2 44.7	2.602	3.202	15.7	21.4	119 W	48	61
3 12	14 53.82	+ 3 23.8	2.469	3.189	14.0	21.2	129 W	48	61
3 22	14 48.45	+ 4 7.8	2.354	3.174	11.9	21.0	139 W	49	60
4 1	14 40.65	+ 4 52.8	2.260	3.158	9.4	20.8	149 W	50	59
4 11	14 30.79	+ 5 33.8	2.192	3.141	7.1	20.6	157 W	51	58
4 21	14 19.48	+ 6 5.5	2.154	3.122	6.0	20.5	161 W	51	58
5 1	14 7.60	+ 6 23.0	2.145	3.101	7.1	20.5	158 E	51	58
5 11	13 56.11	+ 6 23.2	2.167	3.079	9.6	20.7	149 E	51	58
5 21	13 45.89	+ 6 5.0	2.214	3.055	12.4	20.8	139 E	51	58
5 31	13 37.58	+ 5 29.2	2.285	3.029	15.0	20.9	129 E	50	59
6 10	13 31.57	+ 4 38.1	2.373	3.002	17.2	21.1	119 E	50*	59
6 20	13 27.96	+ 3 34.2	2.473	2.974	18.8	21.2	110 E	47*	60
6 30	13 26.71	+ 2 20.2	2.582	2.943	19.9	21.3	101 E	43*	62
7 10	13 27.66	+ 0 58.2	2.694	2.911	20.4	21.4	92 E	38*	63
7 20	13 30.60	− 0 30.0	2.805	2.878	20.6	21.5	84 E	33*	64*
7 30	13 35.32	− 2 3.0	2.913	2.842	20.3	21.5	76 E	28*	63*

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3 2	15 13.48	−17 4.5	1.446	2.025	27.2	21.5	111 W	28	81
3 7	15 16.83	−16 47.2	1.370	2.006	26.6	21.3	115 W	28	81
3 12	15 19.49	−16 23.9	1.296	1.986	25.7	21.1	120 W	29	80
3 17	15 21.39	−15 53.9	1.224	1.966	24.7	21.0	124 W	29	80
3 22	15 22.43	−15 16.5	1.154	1.945	23.4	20.8	129 W	30	79
3 27	15 22.52	−14 31.2	1.088	1.923	21.8	20.6	134 W	30	79
4 1	15 21.59	−13 37.3	1.026	1.901	19.9	20.3	140 W	31	78
4 11	15 16.43	−11 21.9	0.913	1.854	15.3	19.9	151 W	34	75
4 21	15 6.69	− 8 28.8	0.821	1.804	9.8	19.4	162 W	37	72
5 1	14 52.81	− 5 4.3	0.752	1.751	6.3	19.0	169 W	40	69
5 6	14 44.76	− 3 15.3	0.727	1.724	7.8	18.9	167 E	42	67
5 11	14 36.30	− 1 25.8	0.708	1.696	11.0	19.0	161 E	44	65
5 16	14 27.75	+ 0 20.8	0.695	1.667	14.9	19.0	155 E	45	64
5 21	14 19.43	+ 2 1.2	0.688	1.638	19.0	19.1	148 E	47	62
5 26	14 11.65	+ 3 32.4	0.686	1.608	23.1	19.2	142 E	49	60
5 31	14 4.71	+ 4 52.3	0.688	1.577	27.0	19.3	135 E	50	59
6 5	13 58.80	+ 5 59.7	0.693	1.546	30.8	19.4	129 E	51	58
6 10	13 54.05	+ 6 54.4	0.701	1.514	34.3	19.5	123 E	52	57
6 20	13 48.28	+ 8 6.8	0.720	1.449	40.6	19.6	112 E	52*	56
6 30	13 47.55	+ 8 35.5	0.740	1.382	45.9	19.7	103 E	50*	55
7 10	13 51.45	+ 8 29.2	0.755	1.313	50.5	19.8	95 E	47*	56
7 15	13 54.96	+ 8 15.4	0.760	1.278	52.7	19.8	91 E	45*	56
7 20	13 59.44	+ 7 55.6	0.762	1.244	54.7	19.8	88 E	44*	56
7 25	14 4.83	+ 7 30.4	0.762	1.209	56.7	19.8	84 E	42*	56*
7 30	14 11.07	+ 7 0.5	0.759	1.174	58.8	19.8	82 E	41*	57*
8 9	14 25.88	+ 5 48.5	0.743	1.106	62.9	19.7	76 E	38*	56*
8 19	14 43.52	+ 4 22.1	0.713	1.042	67.5	19.6	72 E	37*	55*
8 29	15 3.80	+ 2 41.6	0.670	0.983	72.6	19.5	68 E	35*	53*
9 8	15 26.44	+ 0 45.2	0.613	0.932	78.4	19.4	65 E	34*	51*
9 13	15 38.62	− 0 21.0	0.580	0.911	81.6	19.4	64 E	33*	50*
9 18	15 51.39	− 1 34.4	0.545	0.893	85.0	19.3	62 E	32*	50*
9 23	16 4.79	− 2 57.2	0.507	0.879	88.6	19.3	61 E	32*	49*
9 28	16 18.91	− 4 32.2	0.468	0.869	92.2	19.2	60 E	31*	48*
10 3	16 33.89	− 6 23.6	0.427	0.863	95.8	19.2	59 E	30*	48*
10 8	16 50.04	− 8 36.8	0.386	0.862	99.2	19.1	58 E	28*	48*
10 13	17 7.85	−11 19.2	0.346	0.865	102.3	19.0	58 E	27*	48*
10 18	17 28.19	−14 39.6	0.308	0.872	104.8	18.9	58 E	24*	49*
10 20	17 37.31	−16 12.7	0.293	0.877	105.5	18.9	58 E	23*	49*
10 22	17 47.15	−17 54.2	0.278	0.882	106.1	18.8	58 E	22*	50*

186822 2004 FE_{31} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 24	17 57.85	−19 44.7	0.264	0.887	106.4	18.7	59 E	21*	51*
10 26	18 9.58	−21 44.5	0.251	0.893	106.5	18.6	59 E	20*	52*
10 28	18 22.54	−23 53.8	0.239	0.900	106.3	18.5	60 E	18*	54*
10 30	18 36.97	−26 12.2	0.227	0.907	105.7	18.4	62 E	17*	55*
11 1	18 53.14	−28 38.6	0.217	0.915	104.7	18.3	63 E	15*	57*
11 3	19 11.34	−31 10.8	0.207	0.924	103.3	18.1	65 E	13*	59*
11 5	19 31.88	−33 45.3	0.199	0.932	101.5	17.9	67 E	11*	61*
11 7	19 55.01	−36 16.9	0.192	0.942	99.2	17.8	70 E	9*	63*
11 8	20 7.61	−37 29.6	0.190	0.947	97.9	17.7	71 E	7*	65*
11 9	20 20.89	−38 39.0	0.187	0.951	96.6	17.6	73 E	6*	66*
11 10	20 34.85	−39 44.0	0.186	0.957	95.1	17.5	74 E	5	67*
11 11	20 49.45	−40 43.7	0.184	0.962	93.5	17.5	76 E	4	68*
11 12	21 4.63	−41 37.1	0.183	0.967	91.8	17.4	78 E	3	69*
11 13	21 20.30	−42 23.2	0.183	0.972	90.1	17.3	79 E	3	70*
11 14	21 36.36	−43 1.4	0.182	0.978	88.4	17.3	81 E	2	70*
11 15	21 52.69	−43 30.9	0.183	0.983	86.6	17.2	83 E	1	71*
11 16	22 9.13	−43 51.6	0.184	0.989	84.7	17.2	85 E	1	72*
11 17	22 25.55	−44 3.2	0.185	0.994	82.9	17.1	86 E	1	72*
11 18	22 41.78	−44 6.0	0.186	1.000	81.1	17.1	88 E	1	72*
11 19	22 57.70	−44 0.2	0.188	1.006	79.2	17.1	90 E	1	72
11 20	23 13.19	−43 46.5	0.191	1.012	77.4	17.0	92 E	1	72
11 21	23 28.13	−43 25.5	0.194	1.018	75.7	17.0	93 E	2	73
11 22	23 42.45	−42 58.1	0.197	1.024	73.9	17.0	95 E	2	73
11 23	23 56.10	−42 25.0	0.201	1.030	72.2	17.0	97 E	3	74
11 24	0 9.04	−41 47.1	0.205	1.036	70.6	17.0	98 E	3	74
11 25	0 21.27	−41 5.3	0.209	1.042	69.0	17.0	100 E	4	75
11 26	0 32.79	−40 20.3	0.213	1.049	67.5	17.0	101 E	5	76
11 27	0 43.62	−39 32.9	0.218	1.055	66.0	17.0	102 E	5	76
11 28	0 53.77	−38 43.5	0.223	1.061	64.6	17.1	104 E	6	77
11 29	1 3.30	−37 52.8	0.229	1.068	63.3	17.1	105 E	7	78
11 30	1 12.22	−37 1.3	0.234	1.074	62.0	17.1	106 E	8	79
12 1	1 20.58	−36 9.3	0.240	1.081	60.8	17.1	107 E	9	80
12 2	1 28.42	−35 17.1	0.246	1.087	59.6	17.2	108 E	10	81
12 3	1 35.77	−34 25.1	0.253	1.094	58.5	17.2	109 E	11	82
12 4	1 42.67	−33 33.3	0.259	1.100	57.4	17.2	110 E	11	82
12 5	1 49.16	−32 42.1	0.266	1.107	56.4	17.3	111 E	12	83
12 6	1 55.27	−31 51.4	0.272	1.114	55.5	17.3	111 E	13	84
12 7	2 1.03	−31 1.5	0.279	1.120	54.6	17.4	112 E	14	85
12 9	2 11.61	−29 24.0	0.294	1.134	52.9	17.5	113 E	16	87
12 11	2 21.11	−27 50.1	0.309	1.148	51.4	17.5	114 E	17	88
12 13	2 29.69	−26 19.6	0.324	1.161	50.0	17.6	115 E	19	90
12 15	2 37.49	−24 52.8	0.340	1.175	48.7	17.7	116 E	20	89
12 17	2 44.65	−23 29.4	0.357	1.189	47.6	17.8	117 E	22	87
12 22	3 0.32	−20 15.1	0.400	1.223	45.3	18.1	118 E	25	84
12 27	3 13.66	−17 18.9	0.446	1.258	43.5	18.3	118 E	28	81
1 1	3 25.41	−14 38.3	0.495	1.293	42.1	18.6	118 E	30	79
1 6	3 36.09	−12 11.0	0.546	1.328	41.0	18.8	118 E	33	76
1 11	3 46.04	− 9 55.1	0.599	1.362	40.2	19.0	117 E	35	74
1 16	3 55.53	− 7 49.4	0.655	1.396	39.5	19.3	115 E	37	72

469565 2003 VC_3

3 2	15 17.64	−40 41.4	3.043	3.401	16.5	21.5	103 W	4	75
3 12	15 18.90	−41 22.8	2.875	3.367	15.9	21.3	111 W	4	75
3 22	15 17.57	−41 54.6	2.716	3.333	15.0	21.1	120 W	3	74
4 1	15 13.45	−42 12.7	2.570	3.297	13.5	20.9	130 W	3	74
4 11	15 6.64	−42 12.8	2.440	3.260	11.7	20.7	139 W	3	74
4 21	14 57.47	−41 50.3	2.332	3.223	9.7	20.5	147 W	3	74
5 1	14 46.70	−41 1.8	2.248	3.184	8.0	20.3	154 W	4	75
5 6	14 41.04	−40 27.5	2.216	3.164	7.5	20.3	156 E	5	76
5 11	14 35.39	−39 46.9	2.192	3.145	7.3	20.2	157 E	5	76
5 16	14 29.89	−39 0.3	2.174	3.124	7.6	20.2	156 E	6	77
5 21	14 24.67	−38 8.7	2.163	3.104	8.2	20.2	154 E	7	78
5 26	14 19.87	−37 12.9	2.159	3.083	9.2	20.2	151 E	8	79
5 31	14 15.60	−36 14.1	2.161	3.063	10.4	20.3	147 E	9	80
6 5	14 11.92	−35 13.5	2.170	3.042	11.6	20.3	143 E	10	81
6 10	14 8.89	−34 12.2	2.185	3.020	12.9	20.4	138 E	11	82
6 15	14 6.55	−33 11.3	2.206	2.999	14.2	20.4	134 E	12	83
6 20	14 4.91	−32 11.7	2.231	2.977	15.4	20.5	129 E	13*	84
6 25	14 3.98	−31 14.2	2.261	2.955	16.5	20.5	124 E	13*	85
6 30	14 3.74	−30 19.7	2.295	2.933	17.6	20.6	120 E	14*	86
7 5	14 4.18	−29 28.5	2.331	2.910	18.5	20.6	115 E	14*	87
7 10	14 5.26	−28 40.9	2.371	2.887	19.3	20.7	110 E	13*	87
7 15	14 6.95	−27 57.2	2.413	2.864	19.9	20.7	106 E	13*	88
7 20	14 9.23	−27 17.5	2.456	2.841	20.5	20.7	102 E	13*	89
7 25	14 12.05	−26 41.8	2.500	2.818	20.9	20.8	97 E	12*	89
7 30	14 15.40	−26 10.0	2.546	2.794	21.3	20.8	93 E	12*	87*
8 4	14 19.24	−25 41.9	2.591	2.770	21.5	20.8	89 E	12*	83*
8 9	14 23.53	−25 17.3	2.636	2.746	21.6	20.8	85 E	11*	79*
8 14	14 28.26	−24 56.1	2.681	2.722	21.6	20.9	81 E	11*	75*

469565 2003 VC_3 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 19	14 33.39	−24 37.8	2.724	2.697	21.5	20.9	78 E	10*	71*
8 24	14 38.92	−24 22.4	2.767	2.673	21.3	20.9	74 E	10*	68*
8 29	14 44.81	−24 9.4	2.808	2.648	21.1	20.9	70 E	10*	64*
9 3	14 51.05	−23 58.6	2.847	2.623	20.7	20.9	67 E	9*	61*
9 8	14 57.62	−23 49.7	2.885	2.597	20.3	20.9	64 E	9*	57*
9 13	15 4.51	−23 42.4	2.920	2.572	19.8	20.9	60 E	9*	54*
9 18	15 11.71	−23 36.5	2.953	2.546	19.3	20.9	57 E	9*	51*
9 23	15 19.20	−23 31.5	2.983	2.520	18.7	20.8	54 E	8*	47*
9 28	15 26.97	−23 27.3	3.011	2.494	18.0	20.8	50 E	8*	44*
10 3	15 35.02	−23 23.6	3.036	2.468	17.3	20.8	47 E	8*	41*
10 8	15 43.32	−23 20.0	3.057	2.441	16.6	20.8	44 E	8*	38*
10 13	15 51.89	−23 16.3	3.076	2.415	15.8	20.7	41 E	7*	35*
10 18	16 0.70	−23 12.2	3.092	2.388	14.9	20.7	38 E	7*	32*
10 23	16 9.76	−23 7.5	3.105	2.361	14.0	20.6	35 E	7*	29*
10 28	16 19.04	−23 1.8	3.114	2.334	13.1	20.6	32 E	7*	26*
11 2	16 28.55	−22 55.0	3.120	2.307	12.2	20.5	29 E	6*	23*
11 7	16 38.28	−22 46.7	3.123	2.280	11.2	20.5	26 E	6*	20*
11 17	16 58.37	−22 24.8	3.120	2.225	9.2	20.3	21 E	5*	14*
11 27	17 19.25	−21 54.1	3.104	2.170	7.1	20.2	16 E	4*	8*
12 7	17 40.84	−21 12.5	3.075	2.115	5.0	20.0	11 E	2*	3*
12 17	18 3.09	−20 18.4	3.035	2.060	3.0	19.8	6 E	—	—
12 27	18 25.93	−19 9.9	2.985	2.005	2.1	19.6	4 E	—	—
1 6	18 49.29	−17 45.5	2.925	1.951	3.2	19.6	6 W	—	—
1 16	19 13.11	−16 3.9	2.858	1.898	5.3	19.6	10 W	4*	—

168828 2000 SY_{320}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	15 26.42	−39 23.0	2.714	3.070	18.4	21.5	102 W	6	77
3 12	15 28.10	−40 4.6	2.584	3.074	17.6	21.3	110 W	5	76
3 22	15 26.93	−40 35.6	2.461	3.076	16.4	21.2	119 W	4	75
4 1	15 22.78	−40 52.3	2.351	3.078	14.6	21.0	129 W	4	75
4 11	15 15.77	−40 50.2	2.257	3.079	12.5	20.9	138 W	4	75
4 21	15 6.39	−40 25.5	2.184	3.079	10.1	20.7	147 W	5	76
5 1	14 55.47	−39 35.4	2.135	3.077	7.9	20.5	155 W	5	76
5 11	14 44.16	−38 20.8	2.113	3.075	6.9	20.5	159 E	7	78
5 16	14 38.74	−37 35.6	2.112	3.074	7.0	20.5	158 E	7	78
5 21	14 33.64	−36 46.2	2.119	3.072	7.6	20.5	156 E	8	79
5 26	14 28.99	−35 53.6	2.132	3.070	8.6	20.6	153 E	9	80
5 31	14 24.88	−34 59.1	2.153	3.068	9.7	20.6	149 E	10	81
6 5	14 21.39	−34 3.8	2.179	3.066	11.0	20.7	145 E	11	82
6 10	14 18.55	−33 8.6	2.212	3.063	12.2	20.8	140 E	12	83
6 15	14 16.38	−32 14.6	2.250	3.060	13.4	20.9	136 E	13	84
6 20	14 14.88	−31 22.5	2.293	3.057	14.5	20.9	131 E	14*	85
6 25	14 14.07	−30 33.1	2.340	3.054	15.6	21.0	126 E	14*	85
6 30	14 13.91	−29 46.8	2.392	3.050	16.5	21.1	122 E	14*	86
7 5	14 14.38	−29 4.1	2.446	3.046	17.3	21.2	117 E	14*	87
7 10	14 15.44	−28 25.0	2.504	3.042	18.0	21.2	113 E	14*	88
7 15	14 17.06	−27 49.7	2.564	3.038	18.5	21.3	108 E	14*	88
7 20	14 19.22	−27 18.3	2.626	3.033	19.0	21.4	104 E	14*	89
7 25	14 21.87	−26 50.5	2.689	3.028	19.3	21.4	100 E	13*	89
7 30	14 24.98	−26 26.4	2.753	3.023	19.5	21.5	95 E	13*	89*

419534 2010 KT_{117}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	15 34.37	− 8 7.0	1.532	2.066	27.1	21.4	108 W	37	72
3 12	15 43.89	− 8 6.6	1.398	2.034	26.2	21.2	115 W	37	72
3 22	15 51.05	− 7 56.8	1.273	2.003	24.5	20.9	123 W	37	72
4 1	15 55.33	− 7 39.4	1.159	1.972	22.2	20.6	132 W	37	72
4 11	15 56.31	− 7 17.6	1.057	1.941	19.0	20.2	141 W	38	71
4 21	15 53.70	− 6 55.6	0.971	1.911	15.0	19.9	151 W	38	71
4 26	15 51.03	− 6 46.3	0.934	1.896	12.8	19.7	155 W	38	71
5 1	15 47.54	− 6 39.2	0.903	1.881	10.6	19.5	160 W	38	71
5 6	15 43.33	− 6 35.3	0.876	1.867	8.5	19.4	164 W	38	71
5 11	15 38.55	− 6 35.4	0.855	1.853	7.0	19.2	167 W	38	71
5 16	15 33.35	− 6 40.0	0.839	1.839	6.8	19.2	168 W	38	71
5 21	15 27.97	− 6 50.0	0.828	1.826	8.0	19.2	165 E	38	71
5 31	15 17.61	− 7 27.5	0.822	1.799	12.8	19.3	157 E	38	71
6 10	15 9.26	− 8 28.8	0.835	1.775	18.2	19.5	147 E	37	72
6 20	15 4.22	− 9 51.6	0.865	1.752	23.3	19.7	137 E	35	74
6 30	15 3.24	−11 31.8	0.907	1.730	27.6	19.9	128 E	33	76
7 10	15 6.47	−13 24.6	0.959	1.711	31.0	20.1	120 E	31*	77
7 20	15 13.70	−15 25.1	1.019	1.694	33.6	20.3	113 E	28*	79
7 30	15 24.66	−17 28.9	1.083	1.679	35.5	20.5	106 E	25*	81
8 9	15 38.94	−19 31.7	1.152	1.667	36.7	20.6	100 E	23*	84
8 19	15 56.18	−21 29.6	1.224	1.657	37.5	20.7	95 E	21*	85
8 29	16 16.09	−23 18.9	1.298	1.651	37.7	20.9	90 E	19*	84*
9 8	16 38.32	−24 55.9	1.374	1.647	37.6	21.0	86 E	17*	80*
9 18	17 2.57	−26 17.2	1.453	1.645	37.2	21.1	82 E	16*	76*
9 28	17 28.54	−27 19.9	1.533	1.647	36.5	21.2	78 E	16*	72*
10 8	17 55.84	−28 1.6	1.615	1.652	35.6	21.3	74 E	15*	68*
10 18	18 24.11	−28 20.5	1.698	1.660	34.5	21.4	71 E	15*	65*
10 28	18 52.99	−28 15.9	1.784	1.670	33.2	21.5	67 E	16*	61*

297289 1997 WF

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 2	15 37.31	−24 23.4	1.554	2.032	28.3	21.4	104 W	21	88
3 12	15 42.69	−24 44.7	1.483	2.077	26.2	21.3	112 W	20	89
3 22	15 44.39	−24 52.3	1.418	2.121	23.5	21.2	122 W	20	89
4 1	15 42.20	−24 44.6	1.362	2.165	20.0	21.0	132 W	20	89
4 11	15 36.29	−24 20.4	1.321	2.208	15.7	20.9	143 W	21	88
4 21	15 27.27	−23 39.2	1.299	2.251	10.8	20.7	155 W	21	88
5 1	15 16.27	−22 42.5	1.300	2.293	5.5	20.5	167 W	22	87
5 11	15 4.79	−21 35.5	1.327	2.335	1.8	20.4	176 E	23	86
5 16	14 59.33	−21 0.3	1.350	2.356	3.4	20.5	172 E	24	85
5 21	14 54.28	−20 25.4	1.380	2.376	5.7	20.7	167 E	25	84
5 26	14 49.77	−19 51.7	1.417	2.396	8.0	20.9	161 E	25	84
5 31	14 45.91	−19 20.2	1.459	2.417	10.2	21.1	155 E	26	83
6 5	14 42.74	−18 51.6	1.508	2.436	12.2	21.3	149 E	26	83
6 10	14 40.31	−18 26.2	1.561	2.456	14.1	21.4	144 E	27	82

103276 2000 AT_{33}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	15 50.04	−12 58.7	2.150	2.566	22.1	21.5	103 W	32	77
3 12	15 55.31	−12 48.7	2.003	2.547	21.2	21.3	112 W	32	77
3 22	15 58.15	−12 29.2	1.863	2.527	19.7	21.1	121 W	33	76
4 1	15 58.20	−12 1.0	1.735	2.506	17.5	20.8	131 W	33	76
4 11	15 55.26	−11 25.0	1.622	2.484	14.6	20.5	141 W	34	75
4 21	15 49.33	−10 43.3	1.528	2.461	11.0	20.3	152 W	34	75
5 1	15 40.71	− 9 58.7	1.456	2.437	7.0	20.0	163 W	35	74
5 6	15 35.62	− 9 36.7	1.430	2.425	5.2	19.8	167 W	35	74
5 11	15 30.19	− 9 15.8	1.411	2.413	4.0	19.7	170 W	36	73
5 16	15 24.55	− 8 56.5	1.398	2.400	4.3	19.7	170 E	36	73
5 21	15 18.88	− 8 39.5	1.392	2.387	5.9	19.8	166 E	36	73
5 26	15 13.34	− 8 25.4	1.393	2.373	8.0	19.9	161 E	37	72
5 31	15 8.10	− 8 14.8	1.399	2.360	10.2	20.0	156 E	37	72
6 10	14 59.06	− 8 5.6	1.430	2.332	14.6	20.1	144 E	37	72
6 20	14 52.60	− 8 13.2	1.481	2.304	18.6	20.3	134 E	37	72
6 30	14 49.20	− 8 37.6	1.547	2.275	21.8	20.5	124 E	36*	73
7 10	14 48.95	− 9 17.1	1.623	2.245	24.3	20.6	115 E	35*	73
7 20	14 51.72	−10 9.3	1.707	2.214	26.2	20.8	106 E	32*	74
7 30	14 57.32	−11 11.6	1.794	2.183	27.4	20.9	98 E	30*	75
8 9	15 5.47	−12 21.5	1.882	2.151	28.1	21.0	91 E	27*	76*
8 19	15 15.92	−13 36.3	1.969	2.118	28.4	21.1	84 E	25*	74*
8 29	15 28.47	−14 54.0	2.053	2.086	28.2	21.1	78 E	23*	70*
9 8	15 42.93	−16 12.1	2.132	2.052	27.8	21.1	72 E	21*	65*
9 18	15 59.16	−17 28.5	2.206	2.019	27.1	21.2	66 E	19*	60*
9 28	16 17.06	−18 41.2	2.273	1.985	26.1	21.2	61 E	18*	54*
10 8	16 36.50	−19 48.0	2.334	1.951	25.0	21.1	56 E	17*	49*
10 18	16 57.41	−20 46.8	2.388	1.918	23.7	21.1	51 E	16*	44*
10 28	17 19.70	−21 35.4	2.435	1.884	22.3	21.1	46 E	15*	39*
11 7	17 43.24	−22 11.9	2.475	1.851	20.7	21.0	41 E	14*	34*
11 17	18 7.94	−22 34.3	2.508	1.819	19.1	21.0	37 E	13*	29*
11 27	18 33.65	−22 40.9	2.534	1.787	17.4	20.9	33 E	13*	24*
12 7	19 0.20	−22 30.3	2.554	1.757	15.7	20.8	29 E	12*	20*
12 17	19 27.44	−22 1.5	2.568	1.727	13.9	20.7	25 E	10*	16*
12 27	19 55.19	−21 13.7	2.577	1.699	12.1	20.6	21 E	9*	12*
1 6	20 23.27	−20 7.0	2.582	1.673	10.3	20.5	18 E	7*	8*
1 16	20 51.54	−18 41.7	2.583	1.648	8.5	20.4	14 E	5*	5*

363300 2002 LF_{40}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	15 53.02	− 7 56.3	1.721	2.177	26.3	21.4	103 W	37	72
3 12	16 3.33	− 7 36.5	1.579	2.142	25.7	21.1	111 W	37	72
3 22	16 11.61	− 7 5.2	1.443	2.108	24.6	20.9	118 W	38	71
4 1	16 17.39	− 6 23.9	1.317	2.073	22.8	20.6	126 W	39	70
4 11	16 20.28	− 5 35.2	1.204	2.039	20.4	20.3	135 W	39	70
4 21	16 19.91	− 4 43.1	1.104	2.004	17.3	19.9	144 W	40	69
4 26	16 18.45	− 4 17.6	1.061	1.988	15.5	19.8	148 W	41	68
5 1	16 16.16	− 3 53.7	1.022	1.971	13.7	19.6	152 W	41	68
5 6	16 13.09	− 3 32.4	0.988	1.954	11.9	19.5	156 W	41	68
5 11	16 9.34	− 3 14.8	0.959	1.938	10.4	19.3	160 W	42	67
5 16	16 5.02	− 3 1.9	0.935	1.922	9.3	19.2	162 W	42	67
5 21	16 0.27	− 2 54.7	0.916	1.906	9.1	19.1	163 W	42	67
5 26	15 55.30	− 2 54.2	0.903	1.890	9.9	19.1	161 E	42	67
5 31	15 50.32	− 3 0.9	0.895	1.875	11.4	19.1	159 E	42	67
6 10	15 41.17	− 3 37.2	0.893	1.845	15.7	19.2	150 E	41	68
6 20	15 34.32	− 4 42.8	0.909	1.817	20.5	19.4	141 E	40	69
6 30	15 30.85	− 6 13.9	0.941	1.790	24.8	19.6	132 E	39	70
7 5	15 30.57	− 7 7.1	0.961	1.778	26.8	19.7	128 E	38	71
7 10	15 31.28	− 8 4.4	0.984	1.766	28.6	19.8	124 E	37*	72
7 15	15 32.98	− 9 4.8	1.009	1.754	30.1	19.8	120 E	36*	73
7 20	15 35.67	−10 7.7	1.036	1.743	31.5	19.9	116 E	34*	74
7 30	15 43.87	−12 18.3	1.095	1.722	33.8	20.1	109 E	32*	76
8 9	15 55.56	−14 30.9	1.158	1.704	35.4	20.2	103 E	29*	79

363300 2002 LF_{40} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 19	16 10.40	−16 40.7	1.225	1.689	36.5	20.4	98 E	26*	81
8 29	16 28.09	−18 43.8	1.295	1.676	37.0	20.5	92 E	24*	82*
9 8	16 48.31	−20 36.2	1.368	1.666	37.2	20.6	88 E	22*	81*
9 18	17 10.74	−22 14.2	1.442	1.660	37.0	20.7	83 E	21*	77*
9 28	17 35.12	−23 34.8	1.519	1.656	36.5	20.8	79 E	20*	73*
10 8	18 1.06	−24 35.2	1.597	1.656	35.7	20.9	75 E	19*	69*
10 18	18 28.25	−25 13.4	1.678	1.659	34.7	21.0	72 E	18*	65*
10 28	18 56.31	−25 28.0	1.760	1.665	33.6	21.0	68 E	18*	61*
11 7	19 24.84	−25 18.7	1.844	1.674	32.3	21.1	64 E	19*	57*
11 17	19 53.52	−24 45.9	1.929	1.686	30.8	21.2	61 E	19*	53*
11 27	20 22.03	−23 50.9	2.017	1.702	29.2	21.3	57 E	20*	49*
12 7	20 50.11	−22 35.8	2.105	1.719	27.6	21.3	54 E	21*	44*
12 17	21 17.59	−21 2.9	2.194	1.739	25.8	21.4	50 E	22*	40*
12 27	21 44.35	−19 15.2	2.284	1.762	24.0	21.4	47 E	22*	35*

347567 2000 WQ_{28}

3 2	15 57.70	− 6 13.9	2.034	2.449	23.3	21.5	103 W	39	70
3 12	15 59.67	− 6 34.3	1.940	2.486	21.8	21.4	112 W	38	71
3 22	15 58.62	− 6 51.3	1.852	2.522	19.7	21.2	122 W	38	71
4 1	15 54.38	− 7 7.0	1.776	2.556	16.9	21.1	132 W	38	71
4 11	15 47.03	− 7 23.5	1.717	2.591	13.4	20.9	143 W	38	71
4 21	15 36.98	− 7 42.5	1.680	2.624	9.4	20.7	155 W	37	72
5 1	15 25.00	− 8 5.8	1.668	2.656	5.4	20.6	166 W	37	72
5 11	15 12.23	− 8 34.8	1.686	2.688	3.5	20.5	171 W	36	73
5 21	14 59.90	− 9 9.8	1.733	2.718	6.1	20.7	163 E	36	73
5 31	14 49.11	− 9 51.3	1.808	2.748	9.8	21.0	152 E	35	74
6 10	14 40.62	−10 39.0	1.909	2.776	13.1	21.3	142 E	34	75

394938 2008 XY_1

3 2	15 57.74	−33 41.9	2.205	2.528	22.9	21.4	97 W	11	82
3 7	16 1.75	−33 50.6	2.126	2.515	22.8	21.3	101 W	11	82
3 12	16 5.17	−33 56.6	2.048	2.502	22.5	21.2	105 W	11	82
3 17	16 7.96	−33 59.8	1.972	2.489	22.1	21.1	110 W	11	82
3 22	16 10.05	−33 59.9	1.896	2.475	21.6	21.0	114 W	11	82
3 27	16 11.37	−33 56.4	1.823	2.461	20.9	20.9	119 W	11	82
4 1	16 11.89	−33 48.9	1.752	2.447	20.0	20.8	123 W	11	82
4 6	16 11.56	−33 36.9	1.684	2.433	18.9	20.6	128 W	11	82
4 11	16 10.35	−33 20.0	1.619	2.419	17.6	20.5	133 W	12	83
4 21	16 5.27	−32 28.6	1.503	2.389	14.4	20.2	144 W	13	84
5 1	15 56.83	−31 9.9	1.406	2.358	10.4	19.9	155 W	14	85
5 11	15 45.83	−29 21.4	1.333	2.327	6.0	19.5	166 W	16	87
5 16	15 39.74	−28 16.4	1.307	2.311	4.1	19.4	171 W	17	88
5 21	15 33.53	−27 5.2	1.288	2.294	3.6	19.3	172 E	18	89
5 26	15 27.40	−25 49.1	1.276	2.278	5.0	19.3	169 E	19	90
5 31	15 21.55	−24 29.8	1.271	2.261	7.3	19.4	164 E	21	88
6 5	15 16.19	−23 8.9	1.272	2.244	9.9	19.5	158 E	22	87
6 10	15 11.44	−21 48.5	1.280	2.227	12.4	19.6	152 E	23	86
6 15	15 7.42	−20 30.1	1.294	2.210	14.9	19.7	146 E	24	85
6 20	15 4.23	−19 15.4	1.313	2.193	17.3	19.8	140 E	26	83
6 25	15 1.91	−18 5.4	1.338	2.175	19.5	19.9	135 E	27	82
6 30	15 0.49	−17 1.2	1.366	2.157	21.4	20.0	129 E	28*	81
7 10	15 0.29	−15 11.5	1.432	2.121	24.8	20.2	119 E	29*	79
7 20	15 3.42	−13 47.1	1.508	2.085	27.3	20.3	110 E	29*	78
7 30	15 9.58	−12 46.0	1.589	2.048	29.1	20.4	101 E	29*	77
8 9	15 18.41	−12 4.5	1.671	2.011	30.2	20.5	94 E	28*	76
8 19	15 29.60	−11 38.7	1.752	1.974	30.8	20.6	87 E	28*	74*
8 29	15 42.89	−11 24.3	1.830	1.937	30.9	20.7	80 E	27*	70*
9 8	15 58.05	−11 17.6	1.903	1.899	30.7	20.7	74 E	27*	65*
9 18	16 14.92	−11 14.9	1.971	1.863	30.2	20.7	69 E	27*	60*
9 28	16 33.36	−11 12.9	2.031	1.826	29.5	20.7	64 E	26*	55*
10 8	16 53.24	−11 8.7	2.085	1.790	28.6	20.7	59 E	26*	49*
10 18	17 14.47	−10 59.4	2.131	1.755	27.6	20.7	55 E	26*	44*
10 28	17 36.97	−10 42.6	2.171	1.722	26.5	20.7	51 E	27*	39*
11 7	18 0.63	−10 15.8	2.204	1.689	25.4	20.6	47 E	27*	34*
11 17	18 25.36	− 9 37.3	2.231	1.659	24.2	20.6	43 E	27*	28*
11 27	18 51.06	− 8 45.2	2.253	1.630	23.0	20.5	40 E	27*	23*
12 7	19 17.60	− 7 38.6	2.271	1.603	21.9	20.5	37 E	27*	18*
12 17	19 44.90	− 6 17.0	2.286	1.579	20.8	20.4	35 E	26*	13*
12 27	20 12.83	− 4 40.2	2.299	1.558	19.7	20.4	32 E	25*	9*
1 6	20 41.27	− 2 49.2	2.311	1.541	18.6	20.3	30 E	24*	5*
1 16	21 10.15	− 0 45.3	2.324	1.526	17.6	20.3	28 E	22*	2*

484549 2008 GW_{73}

3 2	15 58.09	−14 31.5	4.506	4.797	11.7	21.5	101 W	30	79
3 12	15 59.89	−14 34.0	4.351	4.792	11.2	21.4	111 W	30	79
3 22	16 0.27	−14 33.0	4.205	4.788	10.3	21.3	120 W	30	79
4 1	15 59.21	−14 28.9	4.073	4.783	9.1	21.2	131 W	31	78
4 11	15 56.77	−14 22.4	3.960	4.779	7.6	21.0	141 W	31	78
4 21	15 53.08	−14 14.0	3.868	4.775	5.8	20.9	151 W	31	78
5 1	15 48.38	−14 4.7	3.803	4.770	3.8	20.7	162 W	31	78

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°

484549 2008 GW_{73} *(continuation)*

	h m	° ′			°	m	°	°	°
5 11	15 43.00	−13 55.6	3.765	4.766	1.8	20.6	172 W	31	78
5 21	15 37.32	−13 47.7	3.757	4.762	1.5	20.6	173 E	31	78
5 31	15 31.78	−13 42.3	3.778	4.758	3.5	20.7	163 E	31	78
6 10	15 26.77	−13 40.4	3.827	4.754	5.5	20.8	153 E	31	78
6 20	15 22.62	−13 42.8	3.902	4.751	7.4	21.0	143 E	31	78
6 30	15 19.60	−13 50.3	3.999	4.747	9.1	21.1	133 E	31	78
7 10	15 17.86	−14 2.8	4.115	4.743	10.4	21.2	123 E	31*	78
7 20	15 17.48	−14 20.5	4.245	4.740	11.4	21.3	113 E	30*	78
7 30	15 18.47	−14 42.9	4.386	4.736	12.0	21.4	104 E	28*	79
8 9	15 20.79	−15 9.5	4.532	4.733	12.3	21.5	95 E	26*	79

418217 2008 CO_{166}

3 2	15 59.84	−35 33.8	1.295	1.714	35.1	21.5	96 W	9	80
3 7	16 7.23	−37 19.3	1.253	1.719	34.7	21.4	99 W	8	79
3 12	16 14.10	−39 6.1	1.213	1.723	34.3	21.3	102 W	6	77
3 17	16 20.35	−40 54.4	1.173	1.728	33.7	21.2	105 W	4	75
3 22	16 25.85	−42 44.2	1.136	1.732	33.1	21.2	108 W	2	73
3 27	16 30.47	−44 35.1	1.100	1.737	32.3	21.1	112 W	—	71
4 1	16 34.07	−46 26.8	1.066	1.741	31.4	21.0	115 W	—	70
4 6	16 36.47	−48 18.7	1.034	1.746	30.4	20.9	118 W	—	68
4 11	16 37.52	−50 9.8	1.005	1.750	29.3	20.8	121 W	—	66
4 16	16 36.99	−51 58.9	0.979	1.755	28.1	20.7	125 W	—	64
4 21	16 34.70	−53 44.2	0.955	1.759	26.9	20.6	128 W	—	62
4 26	16 30.48	−55 23.3	0.935	1.764	25.7	20.6	131 W	—	61
5 1	16 24.25	−56 53.6	0.919	1.768	24.5	20.5	133 W	—	59
5 6	16 16.06	−58 12.3	0.906	1.773	23.5	20.4	136 W	—	58
5 11	16 6.08	−59 16.6	0.897	1.777	22.6	20.4	137 W	—	57
5 13	16 1.67	−59 37.8	0.894	1.779	22.3	20.4	138 W	—	56
5 15	15 57.06	−59 56.1	0.892	1.781	22.1	20.4	139 W	—	56
5 17	15 52.29	−60 11.5	0.891	1.783	21.8	20.4	139 W	—	56
5 19	15 47.41	−60 23.9	0.890	1.784	21.7	20.4	139 W	—	56
5 21	15 42.46	−60 33.2	0.890	1.786	21.6	20.4	140 E	—	55
5 23	15 37.49	−60 39.5	0.891	1.788	21.5	20.4	140 E	—	55
5 25	15 32.56	−60 42.7	0.892	1.789	21.5	20.4	140 E	—	55
5 27	15 27.71	−60 42.9	0.894	1.791	21.5	20.4	140 E	—	55
5 29	15 22.98	−60 40.2	0.897	1.793	21.5	20.4	139 E	—	55
5 31	15 18.43	−60 34.8	0.900	1.794	21.7	20.4	139 E	—	55
6 2	15 14.09	−60 26.8	0.904	1.796	21.8	20.4	139 E	—	56
6 4	15 10.00	−60 16.4	0.908	1.798	22.0	20.4	138 E	—	56
6 6	15 6.18	−60 3.8	0.913	1.799	22.2	20.4	138 E	—	56
6 8	15 2.65	−59 49.1	0.919	1.801	22.5	20.5	137 E	—	56
6 10	14 59.44	−59 32.6	0.925	1.803	22.8	20.5	137 E	—	56
6 15	14 52.85	−58 44.5	0.943	1.807	23.6	20.6	135 E	—	57
6 20	14 48.39	−57 49.0	0.964	1.811	24.6	20.6	132 E	—	58
6 25	14 46.03	−56 49.2	0.988	1.814	25.5	20.7	130 E	—	59
6 30	14 45.65	−55 47.3	1.015	1.818	26.5	20.8	127 E	—	60
7 5	14 47.05	−54 45.2	1.045	1.822	27.5	20.9	124 E	—	61
7 10	14 50.03	−53 44.3	1.077	1.825	28.4	21.0	121 E	—	62
7 15	14 54.41	−52 45.2	1.111	1.829	29.3	21.1	118 E	—	63
7 20	15 0.03	−51 48.5	1.148	1.832	30.0	21.2	116 E	—	64
7 25	15 6.73	−50 54.6	1.186	1.836	30.7	21.3	113 E	—	65
7 30	15 14.38	−50 3.6	1.226	1.839	31.3	21.4	110 E	—	66
8 4	15 22.85	−49 15.2	1.267	1.842	31.8	21.5	107 E	—	67

171671 2000 PF_{32}

3 2	16 1.55	−13 28.0	1.831	2.235	25.9	21.3	100 W	32	77
3 12	16 11.55	−13 41.2	1.679	2.199	25.5	21.1	108 W	31	78
3 22	16 19.57	−13 47.4	1.533	2.162	24.5	20.8	116 W	31	78
4 1	16 25.16	−13 47.6	1.395	2.125	22.9	20.5	124 W	31	78
4 11	16 27.87	−13 43.5	1.269	2.088	20.4	20.2	133 W	31	78
4 21	16 27.25	−13 37.0	1.157	2.051	17.1	19.9	143 W	31	78
5 1	16 23.05	−13 30.5	1.061	2.013	12.9	19.5	153 W	31	78
5 11	16 15.45	−13 27.0	0.985	1.976	8.0	19.1	164 W	32	77
5 21	16 5.11	−13 29.6	0.931	1.939	3.9	18.7	173 W	32	77
5 26	15 59.32	−13 34.2	0.912	1.920	4.3	18.7	172 E	31	78
5 31	15 53.42	−13 41.6	0.899	1.902	6.6	18.8	168 E	31	78
6 5	15 47.63	−13 52.0	0.892	1.884	9.4	18.9	162 E	31	78
6 10	15 42.19	−14 5.9	0.890	1.866	12.5	18.9	157 E	31	78
6 15	15 37.30	−14 23.2	0.893	1.848	15.5	19.0	151 E	31	78
6 20	15 33.16	−14 44.2	0.900	1.830	18.3	19.1	145 E	30	79
6 30	15 27.67	−15 37.3	0.927	1.796	23.6	19.3	135 E	29	80
7 10	15 26.42	−16 44.1	0.966	1.763	28.0	19.5	126 E	28*	81
7 20	15 29.55	−18 2.3	1.013	1.731	31.5	19.7	117 E	26*	82
7 30	15 36.91	−19 28.9	1.067	1.701	34.2	19.8	110 E	24*	83
8 9	15 48.20	−21 0.2	1.124	1.673	36.2	19.9	103 E	22*	85
8 19	16 3.04	−22 32.4	1.183	1.647	37.6	20.1	97 E	20*	87
8 29	16 21.13	−24 1.2	1.243	1.624	38.4	20.2	92 E	18*	85*
9 8	16 42.15	−25 22.5	1.303	1.604	38.8	20.3	87 E	17*	81*
9 18	17 5.77	−26 31.8	1.364	1.587	38.9	20.3	83 E	16*	77*

171671 2000 PF_{32} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 28	17 31.68	−27 25.2	1.425	1.573	38.7	20.4	79 E	16*	73*
10 8	17 59.50	−27 58.6	1.486	1.562	38.2	20.5	75 E	15*	69*
10 18	18 28.81	−28 9.1	1.549	1.556	37.4	20.5	72 E	16*	66*
10 28	18 59.18	−27 54.5	1.613	1.553	36.5	20.6	68 E	16*	62*
11 7	19 30.10	−27 13.7	1.679	1.554	35.4	20.6	65 E	17*	59*
11 17	20 1.15	−26 7.1	1.747	1.558	34.2	20.7	62 E	18*	55*
11 27	20 31.93	−24 36.0	1.818	1.567	32.8	20.8	59 E	20*	51*
12 7	21 2.14	−22 43.0	1.891	1.579	31.4	20.8	57 E	21*	47*
12 17	21 31.56	−20 31.1	1.967	1.594	29.8	20.9	54 E	23*	43*
12 27	22 0.10	−18 4.0	2.046	1.613	28.1	20.9	51 E	24*	38*
1 6	22 27.70	−15 25.4	2.127	1.634	26.4	21.0	48 E	25*	34*
1 16	22 54.39	−12 38.9	2.210	1.659	24.6	21.1	45 E	26*	30*

436325 2010 GR_7

3 2	16 12.17	+ 4 39.9	1.179	1.672	35.7	21.3	100 W	50	59*
3 7	16 23.34	+ 6 16.9	1.077	1.613	37.0	21.1	102 W	51	58
3 12	16 35.58	+ 8 13.9	0.979	1.551	38.5	20.8	104 W	53	56
3 17	16 49.25	+10 35.4	0.884	1.488	40.3	20.6	105 W	56	53
3 22	17 4.90	+13 26.7	0.794	1.422	42.7	20.3	105 W	58	51
3 27	17 23.33	+16 53.7	0.709	1.354	45.7	20.1	104 W	62	47
4 1	17 45.80	+21 2.5	0.632	1.284	49.7	19.8	101 W	66	43
4 3	17 56.31	+22 54.6	0.603	1.255	51.7	19.7	100 W	68*	41
4 5	18 7.92	+24 53.8	0.576	1.225	53.9	19.6	98 W	70*	39
4 7	18 20.82	+26 59.7	0.551	1.196	56.3	19.5	96 W	72*	37
4 9	18 35.20	+29 11.4	0.528	1.165	59.0	19.5	94 W	73*	35
4 11	18 51.32	+31 27.2	0.507	1.135	62.0	19.4	91 W	74*	33
4 13	19 9.40	+33 44.7	0.489	1.103	65.3	19.4	88 W	75*	30
4 15	19 29.68	+36 0.3	0.473	1.072	68.9	19.3	85 W	74*	28*
4 17	19 52.33	+38 9.4	0.460	1.039	72.7	19.3	81 W	72*	26*
4 19	20 17.41	+40 6.3	0.451	1.007	76.8	19.4	77 W	69*	23*
4 21	20 44.79	+41 44.9	0.444	0.973	81.1	19.4	73 W	66*	21*
4 22	20 59.23	+42 25.4	0.443	0.956	83.2	19.4	71 W	64*	20*
4 23	21 14.08	+42 59.1	0.442	0.939	85.4	19.5	69 W	62*	19*
4 24	21 29.25	+43 25.5	0.442	0.922	87.6	19.5	66 W	60*	18*
4 25	21 44.62	+43 44.1	0.443	0.905	89.8	19.6	64 W	57*	17*
4 26	22 0.10	+43 54.8	0.445	0.887	92.0	19.6	62 W	55*	16*
4 27	22 15.55	+43 57.5	0.447	0.869	94.2	19.7	59 W	53*	15*
4 28	22 30.87	+43 52.2	0.451	0.852	96.4	19.8	57 W	51*	14*
4 29	22 45.93	+43 39.3	0.456	0.834	98.4	19.9	55 W	49*	13*
4 30	23 0.65	+43 19.2	0.461	0.815	100.5	19.9	53 W	46*	13*
5 1	23 14.93	+42 52.3	0.468	0.797	102.5	20.0	51 W	44*	12*
5 2	23 28.72	+42 19.4	0.475	0.779	104.4	20.1	48 W	42*	11*
5 3	23 41.96	+41 41.1	0.484	0.760	106.2	20.2	46 W	40*	11*
5 4	23 54.64	+40 58.1	0.493	0.741	107.9	20.3	44 W	38*	10*
5 5	0 6.73	+40 11.1	0.503	0.722	109.5	20.3	42 W	36*	10*
5 6	0 18.23	+39 20.7	0.513	0.703	111.1	20.4	41 W	34*	10*
5 7	0 29.16	+38 27.6	0.525	0.684	112.5	20.5	39 W	32*	9*
5 8	0 39.54	+37 32.3	0.538	0.665	113.8	20.6	37 W	30*	9*
5 9	0 49.40	+36 35.4	0.551	0.645	114.9	20.6	35 W	29*	9*
5 10	0 58.76	+35 37.2	0.565	0.625	115.9	20.7	34 W	27*	9*
5 11	1 7.66	+34 38.3	0.580	0.606	116.8	20.7	32 W	25*	9*
5 13	1 24.25	+32 39.2	0.613	0.566	118.0	20.8	30 W	22*	9*
5 15	1 39.46	+30 40.5	0.649	0.525	118.4	20.8	27 W	19*	9*
5 17	1 53.62	+28 43.8	0.689	0.485	117.8	20.7	25 W	17*	9*
5 19	2 7.04	+26 50.4	0.733	0.445	116.1	20.5	23 W	14*	10*
5 21	2 20.06	+25 1.4	0.782	0.407	113.0	20.3	22 W	12*	10*
5 23	2 33.01	+23 18.1	0.834	0.370	108.2	19.9	20 W	9*	10*
5 25	2 46.24	+21 42.0	0.892	0.337	101.3	19.5	19 W	7*	10*
5 27	3 0.11	+20 15.1	0.953	0.309	92.2	19.0	18 W	5*	10*
5 29	3 14.86	+18 59.8	1.018	0.291	81.0	18.6	16 W	2*	10*
5 31	3 30.57	+17 58.0	1.083	0.283	68.4	18.2	15 W	—	9*
6 2	3 46.99	+17 10.7	1.147	0.287	55.8	18.0	14 W	—	7*
6 4	4 3.68	+16 36.5	1.208	0.303	44.5	17.9	12 W	—	6*
6 6	4 20.18	+16 12.8	1.265	0.329	35.3	17.9	11 W	—	5*
6 8	4 36.14	+15 56.4	1.317	0.360	28.4	18.0	10 W	—	3*
6 10	4 51.40	+15 44.8	1.367	0.396	23.4	18.2	9 W	—	2*
6 12	5 5.88	+15 35.9	1.413	0.435	20.0	18.3	8 W	—	1*
6 14	5 19.59	+15 28.5	1.457	0.474	17.7	18.5	8 W	—	—
6 16	5 32.56	+15 21.9	1.500	0.514	16.1	18.7	8 W	—	—
6 18	5 44.84	+15 15.4	1.541	0.555	15.1	18.9	8 W	—	—
6 20	5 56.48	+15 8.7	1.582	0.595	14.3	19.1	8 E	—	—
6 25	6 23.09	+14 50.4	1.680	0.693	12.8	19.5	9 E	—	—
6 30	6 46.68	+14 29.0	1.775	0.787	11.7	19.8	9 E	—	—
7 5	7 7.79	+14 4.6	1.867	0.877	10.5	20.1	9 E	—	—
7 10	7 26.86	+13 37.6	1.955	0.964	9.4	20.4	9 E	—	—
7 15	7 44.23	+13 8.5	2.041	1.047	8.3	20.6	9 E	—	—
7 20	8 0.16	+12 37.7	2.123	1.126	7.3	20.8	8 E	—	—
7 25	8 14.88	+12 5.6	2.202	1.202	6.4	21.0	8 W	—	—
7 30	8 28.54	+11 32.5	2.276	1.276	5.8	21.2	7 W	—	—
8 4	8 41.29	+10 58.6	2.346	1.346	5.5	21.3	7 W	—	—

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2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 2	16 14.79	−40 36.4	2.779	2.988	19.4	21.5	92 W	4	75*
3 7	16 17.46	−41 27.5	2.715	2.992	19.2	21.4	96 W	4	75
3 12	16 19.52	−42 18.8	2.651	2.995	19.0	21.4	100 W	3	74
3 17	16 20.90	−43 10.2	2.588	2.999	18.7	21.3	105 W	2	73
3 22	16 21.55	−44 1.4	2.528	3.001	18.3	21.2	109 W	1	72
3 27	16 21.41	−44 52.2	2.469	3.004	17.8	21.2	113 W	—	71
4 1	16 20.41	−45 41.9	2.413	3.007	17.2	21.1	117 W	—	70
4 6	16 18.53	−46 30.2	2.360	3.009	16.4	21.0	122 W	—	69
4 11	16 15.72	−47 16.3	2.311	3.011	15.6	21.0	126 W	—	69
4 16	16 11.97	−47 59.4	2.266	3.012	14.8	20.9	130 W	—	68
4 21	16 7.29	−48 38.6	2.226	3.014	13.8	20.8	134 W	—	67
4 26	16 1.73	−49 12.9	2.190	3.015	12.9	20.8	138 W	—	67
5 1	15 55.37	−49 41.5	2.160	3.016	12.0	20.7	142 W	—	66
5 6	15 48.34	−50 3.4	2.136	3.016	11.2	20.6	145 W	—	66
5 11	15 40.82	−50 18.1	2.118	3.017	10.5	20.6	147 W	—	66
5 16	15 32.99	−50 25.0	2.107	3.017	10.0	20.6	149 W	—	66
5 21	15 25.06	−50 24.0	2.101	3.016	9.9	20.6	149 E	—	66
5 26	15 17.28	−50 15.3	2.102	3.016	10.0	20.6	149 E	—	66
5 31	15 9.86	−49 59.6	2.110	3.015	10.4	20.6	148 E	—	66
6 5	15 2.99	−49 37.6	2.124	3.014	11.0	20.6	145 E	—	66
6 10	14 56.81	−49 10.5	2.143	3.013	11.8	20.7	143 E	—	67
6 15	14 51.45	−48 39.3	2.168	3.011	12.7	20.7	139 E	—	67
6 20	14 46.98	−48 5.3	2.199	3.010	13.7	20.8	136 E	—	68
6 25	14 43.43	−47 29.7	2.234	3.008	14.6	20.9	132 E	—	69
6 30	14 40.84	−46 53.5	2.274	3.005	15.5	20.9	128 E	—	69
7 5	14 39.16	−46 17.7	2.318	3.003	16.4	21.0	124 E	—	70
7 10	14 38.38	−45 43.0	2.365	3.000	17.1	21.1	120 E	—	70
7 15	14 38.44	−45 10.0	2.415	2.997	17.8	21.1	116 E	—	71
7 20	14 39.31	−44 39.2	2.467	2.993	18.4	21.2	112 E	—	71
7 25	14 40.93	−44 10.9	2.522	2.990	18.9	21.3	108 E	—	72
7 30	14 43.26	−43 45.4	2.578	2.986	19.3	21.3	104 E	—	72
8 4	14 46.23	−43 22.6	2.636	2.982	19.6	21.4	100 E	—	73*
8 9	14 49.81	−43 2.7	2.694	2.977	19.8	21.4	96 E	—	72*
8 14	14 53.94	−42 45.4	2.753	2.973	19.9	21.5	92 E	—	71*

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3 2	16 17.53	−45 36.8	2.882	3.062	18.9	21.5	91 W	—	70*
3 7	16 21.01	−46 22.8	2.812	3.057	18.9	21.4	95 W	—	70
3 12	16 23.90	−47 8.7	2.742	3.052	18.8	21.4	99 W	—	69
3 17	16 26.15	−47 54.6	2.673	3.047	18.6	21.3	102 W	—	68
3 22	16 27.69	−48 40.1	2.606	3.041	18.3	21.2	106 W	—	67
3 27	16 28.44	−49 25.0	2.540	3.035	18.0	21.2	110 W	—	67
4 1	16 28.35	−50 8.8	2.477	3.029	17.5	21.1	114 W	—	66
4 6	16 27.37	−50 51.1	2.416	3.023	16.9	21.0	118 W	—	65
4 11	16 25.44	−51 31.3	2.359	3.016	16.3	20.9	122 W	—	64
4 16	16 22.54	−52 8.5	2.305	3.010	15.6	20.9	126 W	—	64
4 21	16 18.64	−52 42.0	2.255	3.003	14.8	20.8	130 W	—	63
4 26	16 13.78	−53 10.7	2.209	2.995	14.0	20.7	134 W	—	63
5 1	16 8.02	−53 33.7	2.168	2.988	13.2	20.6	137 W	—	62
5 6	16 1.47	−53 49.9	2.133	2.980	12.5	20.6	140 W	—	62
5 11	15 54.29	−53 58.7	2.103	2.972	11.8	20.5	143 W	—	62
5 16	15 46.66	−53 59.4	2.078	2.964	11.3	20.4	145 W	—	62
5 21	15 38.80	−53 51.6	2.060	2.955	11.0	20.4	146 E	—	62
5 26	15 30.98	−53 35.2	2.048	2.947	10.9	20.4	147 E	—	62
5 31	15 23.42	−53 10.8	2.041	2.938	11.1	20.4	146 E	—	63
6 5	15 16.37	−52 38.9	2.041	2.928	11.5	20.4	145 E	—	63
6 10	15 9.98	−52 0.7	2.046	2.919	12.2	20.4	143 E	—	64
6 15	15 4.42	−51 17.2	2.058	2.909	13.0	20.4	140 E	—	65
6 20	14 59.76	−50 29.8	2.074	2.899	13.9	20.5	137 E	—	66
6 25	14 56.09	−49 39.8	2.096	2.889	14.9	20.5	133 E	—	66
6 30	14 53.41	−48 48.5	2.122	2.878	15.8	20.6	130 E	—	67
7 5	14 51.72	−47 57.0	2.153	2.868	16.7	20.6	126 E	—	68
7 10	14 50.98	−47 6.3	2.187	2.857	17.6	20.7	122 E	—	69
7 15	14 51.15	−46 17.0	2.225	2.845	18.4	20.8	118 E	—	70
7 20	14 52.18	−45 29.9	2.266	2.834	19.1	20.8	114 E	—	71
7 25	14 54.01	−44 45.3	2.309	2.822	19.8	20.9	110 E	—	71
7 30	14 56.60	−44 3.6	2.354	2.810	20.3	20.9	106 E	—	72
8 4	14 59.88	−43 25.0	2.401	2.798	20.8	21.0	102 E	—	73
8 9	15 3.80	−42 49.4	2.449	2.786	21.1	21.0	98 E	—	73*
8 14	15 8.31	−42 16.8	2.498	2.773	21.3	21.0	95 E	—	73*
8 19	15 13.38	−41 47.1	2.548	2.760	21.5	21.1	91 E	—	72*
8 24	15 18.96	−41 20.2	2.597	2.747	21.6	21.1	88 E	—	70*
8 29	15 25.01	−40 55.9	2.647	2.734	21.6	21.1	84 E	—	69*
9 3	15 31.50	−40 33.9	2.696	2.720	21.5	21.2	81 E	—	66*
9 8	15 38.39	−40 13.9	2.745	2.706	21.3	21.2	77 E	—	64*
9 13	15 45.67	−39 55.7	2.792	2.692	21.0	21.2	74 E	—	62*
9 18	15 53.31	−39 39.1	2.838	2.678	20.7	21.2	71 E	—	59*
9 23	16 1.29	−39 23.6	2.883	2.663	20.3	21.2	67 E	—	57*
9 28	16 9.58	−39 9.1	2.927	2.649	19.9	21.2	64 E	—	54*
10 3	16 18.16	−38 55.3	2.968	2.634	19.4	21.2	61 E	—	52*
10 8	16 27.01	−38 41.9	3.008	2.619	18.9	21.2	58 E	—	49*
10 13	16 36.12	−38 28.5	3.046	2.603	18.3	21.2	55 E	—	47*

247748 2003 OL_{16} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
10 18	16 45.47	−38 15.0	3.081	2.588	17.6	21.2	52 E	—	44*
10 23	16 55.05	−38 1.2	3.114	2.572	17.0	21.2	49 E	—	41*
10 28	17 4.83	−37 46.7	3.144	2.556	16.2	21.2	46 E	—	39*
11 2	17 14.79	−37 31.3	3.172	2.539	15.5	21.2	43 E	—	36*
11 7	17 24.92	−37 14.8	3.198	2.523	14.7	21.2	40 E	—	34*
11 12	17 35.21	−36 57.1	3.220	2.506	13.9	21.1	37 E	—	31*
11 17	17 45.65	−36 37.8	3.240	2.490	13.0	21.1	35 E	—	28*
11 22	17 56.20	−36 16.9	3.256	2.473	12.2	21.1	32 E	—	26*
11 27	18 6.86	−35 54.2	3.270	2.455	11.3	21.0	29 E	—	23*
12 2	18 17.60	−35 29.5	3.281	2.438	10.4	21.0	26 E	—	20*
12 7	18 28.42	−35 2.6	3.288	2.420	9.5	20.9	24 E	—	18*
12 12	18 39.29	−34 33.5	3.293	2.403	8.6	20.9	21 E	—	15*
12 17	18 50.21	−34 2.1	3.295	2.385	7.7	20.8	19 E	—	13*
12 22	19 1.16	−33 28.3	3.293	2.367	6.8	20.8	17 E	—	10*
12 27	19 12.11	−32 51.9	3.289	2.348	5.9	20.7	14 E	—	8*
1 1	19 23.07	−32 13.0	3.281	2.330	5.2	20.6	12 E	—	6*
1 6	19 34.01	−31 31.4	3.270	2.312	4.5	20.6	11 E	—	4*
1 11	19 44.93	−30 47.2	3.257	2.293	4.1	20.5	10 E	—	2*
1 16	19 55.81	−30 0.2	3.240	2.274	3.9	20.5	9 E	—	—

372369 2009 *LC*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	16 18.38	−35 0.3	2.701	2.920	19.8	21.5	93 W	10	81*
3 12	16 25.22	−35 25.9	2.538	2.896	19.7	21.3	101 W	10	81
3 22	16 29.81	−35 45.3	2.379	2.871	19.1	21.1	110 W	9	80
4 1	16 31.75	−35 56.9	2.227	2.846	17.9	20.9	119 W	9	80
4 11	16 30.75	−35 58.2	2.086	2.819	16.2	20.7	128 W	9	80
4 21	16 26.64	−35 46.2	1.959	2.792	13.8	20.5	138 W	9	80
5 1	16 19.51	−35 16.7	1.852	2.764	10.9	20.2	149 W	10	81
5 6	16 14.96	−34 54.3	1.807	2.750	9.2	20.1	154 W	10	81
5 11	16 9.87	−34 26.3	1.768	2.735	7.6	20.0	159 W	11	82
5 16	16 4.38	−33 52.6	1.736	2.720	6.0	19.8	164 W	11	82
5 21	15 58.64	−33 13.4	1.710	2.705	4.9	19.7	167 W	12	83
5 26	15 52.80	−32 29.0	1.691	2.690	4.5	19.7	168 E	13	84
5 31	15 47.05	−31 40.0	1.680	2.675	5.3	19.7	166 E	13	84
6 5	15 41.55	−30 47.5	1.676	2.660	6.7	19.8	162 E	14	85
6 10	15 36.45	−29 52.4	1.678	2.644	8.5	19.8	157 E	15	86
6 15	15 31.87	−28 55.9	1.687	2.628	10.4	19.9	152 E	16	87
6 20	15 27.92	−27 59.2	1.702	2.612	12.3	20.0	147 E	17	88
6 25	15 24.67	−27 3.5	1.723	2.596	14.2	20.1	141 E	18	89
6 30	15 22.17	−26 9.7	1.750	2.579	15.9	20.1	136 E	19	90
7 10	15 19.52	−24 30.8	1.815	2.546	18.9	20.3	126 E	20*	89
7 20	15 19.92	−23 6.5	1.894	2.512	21.3	20.4	116 E	21*	87
7 30	15 23.20	−21 58.4	1.983	2.478	23.1	20.6	107 E	21*	86
8 9	15 29.09	−21 5.7	2.077	2.443	24.2	20.7	99 E	21*	85
8 19	15 37.28	−20 26.5	2.173	2.407	24.9	20.7	91 E	20*	83*
8 29	15 47.54	−19 58.1	2.267	2.371	25.0	20.8	83 E	20*	77*
9 8	15 59.60	−19 37.8	2.359	2.335	24.8	20.9	76 E	19*	70*
9 18	16 13.27	−19 22.9	2.446	2.299	24.2	20.9	70 E	19*	63*
9 28	16 28.40	−19 10.5	2.525	2.262	23.3	20.9	63 E	19*	57*
10 8	16 44.82	−18 58.1	2.597	2.225	22.2	20.9	57 E	18*	51*
10 18	17 2.42	−18 43.3	2.661	2.188	20.9	20.9	52 E	18*	44*
10 28	17 21.08	−18 24.0	2.715	2.150	19.5	20.8	46 E	18*	38*
11 7	17 40.69	−17 58.0	2.760	2.114	17.9	20.8	41 E	18*	32*
11 17	18 1.15	−17 23.4	2.795	2.077	16.2	20.7	36 E	17*	26*
11 27	18 22.36	−16 38.8	2.820	2.041	14.5	20.6	31 E	16*	20*
12 7	18 44.21	−15 42.6	2.836	2.005	12.7	20.5	27 E	15*	14*
12 17	19 6.62	−14 33.8	2.843	1.970	11.0	20.4	22 E	14*	8*
12 27	19 29.49	−13 11.5	2.842	1.936	9.3	20.3	19 E	12*	3*
1 6	19 52.73	−11 35.2	2.833	1.903	7.9	20.2	15 E	9*	—
1 16	20 16.29	− 9 44.8	2.818	1.871	6.7	20.1	13 E	6*	—

358551 2007 TC_{157}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	16 23.21	−26 0.0	1.850	2.148	27.4	21.3	93 W	19	87*
3 12	16 37.35	−26 58.7	1.698	2.110	27.6	21.1	100 W	18	89
3 22	16 50.16	−27 54.3	1.550	2.073	27.4	20.9	107 W	17	88
4 1	17 1.20	−28 47.8	1.409	2.035	26.6	20.6	114 W	16	87
4 11	17 9.98	−29 40.1	1.276	1.997	25.2	20.3	122 W	15	86
4 16	17 13.36	−30 6.0	1.213	1.978	24.2	20.1	126 W	15	86
4 21	17 15.95	−30 31.9	1.153	1.959	23.1	20.0	130 W	14	85
4 26	17 17.68	−30 57.5	1.096	1.940	21.7	19.8	135 W	14	85
5 1	17 18.47	−31 22.6	1.043	1.921	20.1	19.6	139 W	14	85
5 11	17 17.09	−32 10.1	0.947	1.884	16.3	19.2	148 W	13	84
5 21	17 11.61	−32 50.0	0.869	1.847	11.8	18.8	158 W	12	83
5 31	17 2.48	−33 15.5	0.809	1.811	7.3	18.5	167 W	12	83
6 5	16 56.95	−33 20.9	0.787	1.793	6.1	18.3	169 W	12	83
6 10	16 51.11	−33 20.7	0.769	1.776	6.5	18.3	169 E	12	83
6 15	16 45.22	−33 14.7	0.757	1.759	8.4	18.3	165 E	12	83
6 20	16 39.61	−33 3.2	0.750	1.742	11.0	18.4	161 E	12	83

358551 2007 TC_{157} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 25	16 34.56	−32 47.0	0.748	1.726	13.9	18.4	156 E	12	83
6 30	16 30.38	−32 27.2	0.749	1.710	16.9	18.5	151 E	13	84
7 5	16 27.24	−32 4.9	0.755	1.695	19.8	18.6	146 E	13	84
7 10	16 25.30	−31 41.4	0.764	1.680	22.5	18.7	141 E	13	84
7 15	16 24.63	−31 17.6	0.777	1.665	25.1	18.8	136 E	14	85
7 20	16 25.28	−30 54.4	0.792	1.651	27.5	18.9	131 E	14	85
7 30	16 30.53	−30 12.1	0.830	1.625	31.5	19.1	123 E	15*	86
8 9	16 40.69	−29 36.2	0.874	1.602	34.7	19.3	116 E	15*	86
8 19	16 55.15	−29 4.8	0.924	1.581	37.1	19.4	109 E	16*	87
8 24	17 3.81	−28 49.9	0.950	1.572	38.0	19.5	107 E	16*	87
8 29	17 13.33	−28 34.7	0.978	1.564	38.8	19.6	104 E	16*	87
9 3	17 23.60	−28 18.8	1.006	1.557	39.5	19.6	101 E	16*	88
9 8	17 34.55	−28 1.5	1.034	1.551	39.9	19.7	99 E	17*	88
9 18	17 58.22	−27 20.8	1.094	1.541	40.6	19.8	94 E	17*	88*
9 28	18 23.78	−26 28.8	1.157	1.534	40.8	19.9	90 E	18*	84*
10 8	18 50.65	−25 22.8	1.223	1.532	40.6	20.1	87 E	20*	80*
10 13	19 4.43	−24 43.9	1.257	1.532	40.4	20.1	85 E	20*	78*
10 18	19 18.36	−24 0.9	1.292	1.534	40.2	20.2	83 E	21*	76*
10 23	19 32.40	−23 13.8	1.329	1.536	39.8	20.2	81 E	22*	74*
10 28	19 46.49	−22 22.6	1.366	1.539	39.4	20.3	80 E	23*	72*
11 2	20 0.59	−21 27.4	1.404	1.543	39.0	20.3	78 E	24*	70*
11 7	20 14.64	−20 28.3	1.443	1.548	38.5	20.4	77 E	25*	67*
11 12	20 28.64	−19 25.6	1.483	1.555	37.9	20.4	75 E	26*	65*
11 17	20 42.56	−18 19.3	1.524	1.562	37.4	20.5	73 E	27*	62*
11 22	20 56.36	−17 9.9	1.566	1.569	36.7	20.5	72 E	28*	60*
11 27	21 10.04	−15 57.6	1.610	1.578	36.0	20.6	70 E	29*	57*
12 2	21 23.57	−14 42.6	1.654	1.588	35.3	20.6	69 E	30*	54*
12 7	21 36.95	−13 25.4	1.699	1.598	34.6	20.7	67 E	31*	52*
12 12	21 50.17	−12 6.3	1.745	1.609	33.8	20.8	65 E	33*	49*
12 17	22 3.24	−10 45.4	1.792	1.621	33.0	20.8	64 E	34*	46*
12 22	22 16.15	− 9 23.2	1.840	1.633	32.2	20.9	62 E	35*	43*
12 27	22 28.91	− 8 0.0	1.889	1.646	31.4	20.9	61 E	36*	41*
1 1	22 41.51	− 6 36.1	1.938	1.660	30.5	21.0	59 E	37*	38*
1 6	22 53.96	− 5 11.7	1.988	1.674	29.6	21.0	57 E	37*	36*
1 11	23 6.28	− 3 47.2	2.039	1.689	28.7	21.0	56 E	37*	33*
1 16	23 18.48	− 2 22.7	2.090	1.704	27.7	21.1	54 E	38*	31*

433992 2000 HD_{74}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	16 35.28	+20 23.2	1.409	1.811	32.9	21.4	96 W	65	43*
3 7	16 40.70	+20 8.1	1.325	1.774	33.6	21.3	99 W	65	44*
3 12	16 45.64	+19 51.1	1.241	1.736	34.1	21.1	101 W	65	44
3 17	16 50.03	+19 31.0	1.157	1.699	34.6	20.9	104 W	65	44
3 22	16 53.78	+19 6.3	1.074	1.662	35.0	20.7	107 W	64	45
3 27	16 56.77	+18 35.0	0.990	1.625	35.3	20.5	110 W	64	45
4 1	16 58.87	+17 54.2	0.907	1.589	35.4	20.2	113 W	63	46
4 6	16 59.93	+17 0.2	0.824	1.553	35.3	20.0	116 W	62	47
4 11	16 59.72	+15 48.0	0.743	1.518	34.8	19.7	120 W	61	48
4 16	16 57.96	+14 10.3	0.663	1.484	33.8	19.4	125 W	59	50
4 21	16 54.21	+11 56.6	0.585	1.451	32.2	19.0	130 W	57	52
4 23	16 52.03	+10 49.8	0.555	1.438	31.3	18.8	132 W	56	53
4 25	16 49.40	+ 9 33.5	0.525	1.425	30.2	18.7	135 W	55	54
4 27	16 46.26	+ 8 6.2	0.496	1.412	28.9	18.5	137 W	53	56
4 29	16 42.55	+ 6 26.3	0.468	1.399	27.4	18.3	140 W	51	58
5 1	16 38.19	+ 4 31.8	0.441	1.387	25.6	18.1	143 W	50	59
5 3	16 33.11	+ 2 20.6	0.415	1.375	23.5	17.9	147 W	47	62
5 5	16 27.21	− 0 9.7	0.390	1.363	21.1	17.7	151 W	45	64
5 7	16 20.36	− 3 1.4	0.367	1.351	18.2	17.4	155 W	42	67
5 9	16 12.44	− 6 16.6	0.346	1.340	14.9	17.2	160 W	39	70
5 11	16 3.28	− 9 56.6	0.327	1.329	11.1	16.9	165 W	35	74
5 13	15 52.72	−14 1.9	0.310	1.318	6.9	16.6	171 W	31	78
5 15	15 40.55	−18 30.6	0.297	1.307	2.3	16.2	177 W	26	83
5 17	15 26.58	−23 18.3	0.286	1.297	3.5	16.2	175 E	22	87
5 19	15 10.64	−28 17.7	0.280	1.287	8.9	16.4	169 E	17	88
5 21	14 52.57	−33 18.5	0.277	1.277	14.6	16.6	161 E	12	83
5 22	14 42.72	−35 45.9	0.277	1.273	17.5	16.7	158 E	9	80
5 23	14 32.32	−38 9.1	0.278	1.268	20.3	16.7	154 E	7	78
5 24	14 21.40	−40 27.0	0.279	1.264	23.1	16.8	151 E	5	76
5 25	14 9.97	−42 38.2	0.282	1.259	25.9	16.9	147 E	2	73
5 26	13 58.08	−44 41.6	0.286	1.255	28.5	17.0	144 E	—	71
5 27	13 45.78	−46 36.5	0.290	1.251	31.1	17.1	140 E	—	69
5 28	13 33.13	−48 22.2	0.295	1.246	33.5	17.2	137 E	—	68
5 29	13 20.21	−49 58.4	0.301	1.242	35.8	17.3	134 E	—	66
5 30	13 7.10	−51 25.0	0.307	1.238	38.0	17.4	131 E	—	65
5 31	12 53.91	−52 42.1	0.315	1.235	40.0	17.5	128 E	—	63
6 1	12 40.73	−53 50.1	0.322	1.231	41.9	17.6	126 E	—	62
6 2	12 27.65	−54 49.4	0.330	1.227	43.7	17.7	123 E	—	61
6 3	12 14.77	−55 40.5	0.339	1.224	45.4	17.8	121 E	—	60
6 4	12 2.16	−56 24.1	0.348	1.220	46.9	17.9	119 E	—	60

433992 2000 HD_{74} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 5	11 49.90	−57 0.9	0.358	1.217	48.3	18.0	116 E	—	59
6 6	11 38.04	−57 31.5	0.367	1.213	49.6	18.1	114 E	—	58
6 7	11 26.64	−57 56.7	0.377	1.210	50.8	18.2	112 E	—	58
6 8	11 15.72	−58 17.2	0.388	1.207	51.9	18.3	111 E	—	58
6 9	11 5.31	−58 33.4	0.398	1.204	52.9	18.3	109 E	—	57
6 10	10 55.41	−58 46.2	0.409	1.202	53.8	18.4	107 E	—	57
6 12	10 37.16	−59 3.0	0.430	1.196	55.4	18.6	104 E	—	57*
6 14	10 20.89	−59 11.1	0.453	1.192	56.7	18.7	101 E	—	56*
6 16	10 6.44	−59 13.3	0.475	1.187	57.7	18.8	99 E	—	54*
6 18	9 53.64	−59 11.8	0.498	1.183	58.5	19.0	97 E	—	53*
6 20	9 42.28	−59 8.0	0.521	1.180	59.1	19.1	95 E	—	51*
6 22	9 32.18	−59 3.0	0.544	1.177	59.6	19.2	93 E	—	50*
6 24	9 23.18	−58 57.6	0.566	1.175	59.9	19.3	91 E	—	48*
6 26	9 15.12	−58 52.3	0.589	1.173	60.1	19.3	90 E	—	46*
6 28	9 7.87	−58 47.6	0.611	1.172	60.1	19.4	88 E	—	45*
6 30	9 1.30	−58 43.7	0.633	1.171	60.1	19.5	87 E	—	43*
7 2	8 55.34	−58 40.6	0.654	1.171	60.1	19.6	86 E	—	41*
7 4	8 49.89	−58 38.6	0.675	1.171	59.9	19.6	85 E	—	39*
7 6	8 44.88	−58 37.6	0.696	1.172	59.7	19.7	84 E	—	38*
7 8	8 40.26	−58 37.8	0.716	1.173	59.4	19.8	83 E	—	36*
7 10	8 35.97	−58 39.0	0.736	1.175	59.1	19.8	82 E	—	34*
7 12	8 31.97	−58 41.5	0.755	1.177	58.8	19.9	82 E	—	33*
7 14	8 28.22	−58 45.0	0.774	1.180	58.4	19.9	81 E	—	31*
7 16	8 24.68	−58 49.8	0.792	1.183	58.0	19.9	81 E	—	29*
7 18	8 21.32	−58 55.8	0.809	1.187	57.6	20.0	80 E	—	28*
7 20	8 18.12	−59 3.0	0.826	1.191	57.1	20.0	80 E	—	26*
7 25	8 10.58	−59 26.1	0.866	1.204	56.0	20.1	79 W	—	25*
7 30	8 3.42	−59 56.7	0.901	1.219	54.8	20.2	79 W	—	28*
8 4	7 56.31	−60 34.4	0.933	1.237	53.5	20.3	79 W	—	31*
8 9	7 48.96	−61 19.2	0.961	1.258	52.3	20.3	79 W	—	34*
8 14	7 41.02	−62 11.0	0.985	1.281	51.1	20.4	80 W	—	36*
8 19	7 32.12	−63 9.6	1.005	1.306	49.9	20.4	81 W	—	39*
8 21	7 28.18	−63 34.8	1.012	1.317	49.4	20.5	81 W	—	39*
8 23	7 23.98	−64 0.9	1.019	1.327	48.9	20.5	82 W	—	40*
8 25	7 19.48	−64 27.8	1.025	1.339	48.4	20.5	82 W	—	41*
8 27	7 14.65	−64 55.3	1.031	1.350	47.9	20.5	83 W	—	42*
8 29	7 9.43	−65 23.5	1.036	1.362	47.5	20.5	83 W	—	43*
8 31	7 3.80	−65 52.1	1.041	1.373	47.0	20.6	84 W	—	43*
9 2	6 57.70	−66 21.0	1.046	1.386	46.5	20.6	85 W	—	44*
9 4	6 51.09	−66 49.9	1.050	1.398	46.0	20.6	86 W	—	44*
9 6	6 43.93	−67 18.6	1.054	1.410	45.5	20.6	86 W	—	45*
9 8	6 36.15	−67 47.0	1.058	1.423	45.0	20.6	87 W	—	45*
9 10	6 27.71	−68 14.6	1.061	1.436	44.5	20.6	88 W	—	46*
9 12	6 18.56	−68 41.1	1.065	1.449	44.0	20.6	89 W	—	46*
9 14	6 8.66	−69 6.1	1.068	1.462	43.5	20.6	90 W	—	46*
9 16	5 57.97	−69 29.1	1.071	1.476	42.9	20.7	91 W	—	46*
9 18	5 46.49	−69 49.6	1.074	1.489	42.4	20.7	91 W	—	46*
9 20	5 34.20	−70 7.1	1.077	1.503	41.9	20.7	92 W	—	46*
9 22	5 21.16	−70 21.0	1.080	1.517	41.4	20.7	93 W	—	46
9 24	5 7.42	−70 30.7	1.084	1.531	40.8	20.7	94 W	—	45
9 26	4 53.08	−70 35.6	1.087	1.545	40.3	20.7	95 W	—	45
9 28	4 38.27	−70 35.3	1.091	1.559	39.7	20.7	96 W	—	45
9 29	4 30.74	−70 33.0	1.093	1.566	39.4	20.7	97 W	—	45
9 30	4 23.15	−70 29.2	1.095	1.573	39.2	20.7	97 W	—	46
10 1	4 15.53	−70 23.9	1.097	1.580	38.9	20.7	98 W	—	46
10 2	4 7.91	−70 17.1	1.099	1.587	38.6	20.8	98 W	—	46
10 3	4 0.29	−70 8.7	1.101	1.594	38.4	20.8	99 W	—	46
10 4	3 52.72	−69 58.7	1.104	1.602	38.1	20.8	99 W	—	46
10 5	3 45.21	−69 47.1	1.106	1.609	37.8	20.8	99 W	—	46
10 6	3 37.79	−69 33.9	1.109	1.616	37.5	20.8	100 W	—	46
10 7	3 30.47	−69 19.2	1.112	1.623	37.3	20.8	100 W	—	47
10 8	3 23.28	−69 2.8	1.114	1.631	37.0	20.8	101 W	—	47
10 9	3 16.23	−68 44.9	1.117	1.638	36.7	20.8	101 W	—	47
10 10	3 9.34	−68 25.4	1.120	1.645	36.5	20.8	102 W	—	48
10 11	3 2.62	−68 4.4	1.124	1.653	36.2	20.8	102 W	—	48
10 12	2 56.09	−67 42.0	1.127	1.660	35.9	20.8	103 W	—	48
10 13	2 49.75	−67 18.1	1.131	1.667	35.7	20.8	103 W	—	49
10 14	2 43.62	−66 52.9	1.134	1.675	35.4	20.8	103 W	—	49
10 15	2 37.69	−66 26.3	1.138	1.682	35.2	20.9	104 W	—	50
10 16	2 31.98	−65 58.5	1.142	1.690	34.9	20.9	104 W	—	50
10 17	2 26.48	−65 29.4	1.147	1.697	34.7	20.9	104 W	—	51
10 18	2 21.19	−64 59.1	1.151	1.704	34.4	20.9	105 W	—	51
10 23	1 57.97	−62 12.6	1.176	1.742	33.2	20.9	106 W	—	54
10 28	1 39.68	−59 5.7	1.206	1.779	32.2	21.0	108 E	—	57
11 2	1 25.61	−55 45.4	1.242	1.817	31.2	21.1	108 E	—	60
11 7	1 15.00	−52 17.6	1.284	1.854	30.5	21.2	108 E	—	64
11 12	1 7.18	−48 46.9	1.332	1.892	29.8	21.3	108 E	—	67
11 17	1 1.61	−45 17.3	1.387	1.929	29.3	21.4	107 E	—	71
11 22	0 57.88	−41 51.5	1.447	1.967	28.8	21.5	106 E	3	74

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20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
3 2	16 39.72	−17 36.0	1.738	2.012	29.5	21.4	91 W	27	79*
3 12	16 57.38	−17 30.0	1.585	1.964	30.2	21.2	97 W	27	81*
3 22	17 14.42	−17 10.4	1.437	1.917	30.5	20.9	102 W	28	81
4 1	17 30.54	−16 37.0	1.295	1.869	30.5	20.6	108 W	28	81
4 11	17 45.48	−15 49.9	1.161	1.822	30.0	20.3	115 W	29	80
4 21	17 58.91	−14 49.6	1.036	1.776	29.0	20.0	121 W	30	79
5 1	18 10.39	−13 37.6	0.921	1.731	27.5	19.6	128 W	31	78
5 11	18 19.56	−12 16.3	0.818	1.688	25.3	19.3	135 W	33	76
5 21	18 25.99	−10 49.4	0.727	1.646	22.4	18.9	142 W	34	75
5 26	18 28.06	−10 5.7	0.686	1.626	20.7	18.7	146 W	35	74
5 31	18 29.35	− 9 23.1	0.649	1.606	18.8	18.5	149 W	36	73
6 5	18 29.88	− 8 42.7	0.615	1.587	16.9	18.2	153 W	36	73
6 10	18 29.68	− 8 5.7	0.585	1.569	15.0	18.0	156 W	37	72
6 15	18 28.80	− 7 33.4	0.559	1.552	13.2	17.9	160 W	37	72
6 20	18 27.34	− 7 7.3	0.537	1.535	11.8	17.7	162 W	38	71
6 25	18 25.48	− 6 48.7	0.518	1.520	11.1	17.6	163 W	38	71
6 30	18 23.41	− 6 38.6	0.503	1.505	11.3	17.5	163 E	38	71
7 5	18 21.38	− 6 37.8	0.492	1.492	12.4	17.5	162 E	38	71
7 10	18 19.59	− 6 46.5	0.484	1.479	14.2	17.5	159 E	38	71
7 20	18 17.69	− 7 32.0	0.479	1.458	18.8	17.6	152 E	37	72
7 30	18 19.37	− 8 49.4	0.487	1.441	23.8	17.7	145 E	36	73
8 9	18 25.63	−10 27.1	0.505	1.430	28.2	17.9	138 E	35	74
8 14	18 30.55	−11 19.5	0.518	1.427	30.1	18.0	135 E	34	75
8 19	18 36.66	−12 12.1	0.533	1.425	31.9	18.2	132 E	33	76
8 24	18 43.92	−13 3.4	0.551	1.424	33.4	18.3	129 E	32	77
8 29	18 52.25	−13 51.9	0.571	1.425	34.7	18.4	126 E	31	78
9 3	19 1.54	−14 36.3	0.593	1.427	35.9	18.5	124 E	30	79
9 8	19 11.67	−15 15.7	0.617	1.431	36.8	18.6	122 E	30	79
9 18	19 34.07	−16 16.2	0.672	1.442	38.3	18.9	117 E	29	80
9 28	19 58.58	−16 49.0	0.736	1.459	39.1	19.1	113 E	28	81
10 8	20 24.33	−16 52.4	0.809	1.480	39.5	19.4	109 E	28	81
10 13	20 37.44	−16 43.5	0.849	1.493	39.6	19.5	108 E	28	81
10 18	20 50.61	−16 27.7	0.892	1.507	39.5	19.6	106 E	29	80
10 23	21 3.77	−16 5.5	0.936	1.521	39.4	19.7	104 E	29	80
10 28	21 16.89	−15 37.3	0.983	1.537	39.2	19.9	102 E	29	80
11 2	21 29.89	−15 3.6	1.032	1.553	38.9	20.0	100 E	30	79
11 7	21 42.76	−14 25.0	1.083	1.571	38.6	20.1	98 E	31	78*
11 12	21 55.47	−13 41.8	1.136	1.589	38.2	20.2	97 E	31	77*
11 17	22 8.01	−12 54.7	1.191	1.608	37.8	20.3	95 E	32	75*
11 22	22 20.36	−12 4.0	1.248	1.627	37.3	20.4	93 E	33	73*
11 27	22 32.54	−11 10.3	1.307	1.648	36.8	20.6	91 E	34	71*
12 2	22 44.51	−10 14.1	1.368	1.668	36.2	20.7	89 E	35	68*
12 7	22 56.30	− 9 15.7	1.430	1.689	35.6	20.8	87 E	36	65*
12 12	23 7.90	− 8 15.5	1.494	1.711	35.0	20.9	85 E	37	63*
12 17	23 19.34	− 7 13.9	1.559	1.733	34.3	21.0	83 E	38	60*
12 22	23 30.62	− 6 11.2	1.625	1.756	33.6	21.1	81 E	39	57*
12 27	23 41.74	− 5 7.7	1.693	1.778	32.8	21.2	78 E	40	54*
1 1	23 52.71	− 4 3.8	1.761	1.801	32.0	21.3	76 E	41	52*
1 6	0 3.55	− 2 59.6	1.830	1.824	31.2	21.4	74 E	42*	49*
1 11	0 14.26	− 1 55.5	1.900	1.848	30.4	21.4	72 E	43*	47*

306769 2001 BX_2

3 2	16 53.28	−27 6.2	2.504	2.635	22.0	21.5	86 W	18*	80*
3 12	17 3.52	−27 59.7	2.331	2.598	22.4	21.3	94 W	17	87*
3 22	17 12.19	−28 54.3	2.159	2.559	22.4	21.1	102 W	16	87
4 1	17 18.91	−29 51.4	1.992	2.519	21.8	20.9	110 W	15	86
4 11	17 23.21	−30 52.0	1.833	2.478	20.7	20.6	119 W	14	85
4 21	17 24.62	−31 56.7	1.684	2.436	18.9	20.3	128 W	13	84
5 1	17 22.58	−33 4.4	1.549	2.393	16.4	20.0	138 W	12	83
5 11	17 16.77	−34 12.4	1.432	2.349	13.2	19.7	148 W	11	82
5 16	17 12.39	−34 44.9	1.381	2.326	11.5	19.5	153 W	10	81
5 21	17 7.08	−35 15.3	1.335	2.304	9.6	19.4	158 W	10	81
5 26	17 0.91	−35 42.5	1.296	2.281	7.9	19.2	162 W	9	80
5 31	16 54.02	−36 5.6	1.263	2.257	6.7	19.1	165 W	9	80
6 5	16 46.62	−36 23.9	1.236	2.234	6.3	19.0	166 E	9	80
6 10	16 38.91	−36 36.6	1.215	2.210	7.1	19.0	164 E	8	79
6 15	16 31.16	−36 43.6	1.201	2.187	8.7	19.0	161 E	8	79
6 20	16 23.63	−36 44.8	1.193	2.162	10.9	19.0	156 E	8	79
6 25	16 16.58	−36 41.0	1.191	2.138	13.3	19.1	151 E	8	79
6 30	16 10.27	−36 32.8	1.194	2.114	15.7	19.2	146 E	8	79
7 5	16 4.86	−36 21.4	1.202	2.089	18.0	19.2	141 E	9	80
7 10	16 0.51	−36 8.0	1.214	2.065	20.3	19.3	135 E	9	80
7 15	15 57.28	−35 53.4	1.230	2.040	22.4	19.4	130 E	9	80
7 20	15 55.25	−35 38.8	1.249	2.015	24.3	19.4	125 E	9*	80
7 30	15 54.79	−35 12.4	1.294	1.964	27.7	19.6	116 E	9*	81
8 9	15 58.96	−34 52.6	1.345	1.914	30.3	19.7	108 E	9*	81
8 19	16 7.38	−34 40.2	1.399	1.864	32.3	19.7	100 E	9*	81

306769 2001 BX_2 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
8 29	16 19.69	−34 34.0	1.452	1.813	33.8	19.8	93 E	8*	80*
9 8	16 35.48	−34 31.1	1.504	1.763	34.8	19.9	87 E	8*	77*
9 18	16 54.42	−34 27.5	1.552	1.714	35.4	19.9	81 E	8*	72*
9 28	17 16.22	−34 19.1	1.595	1.666	35.7	19.9	76 E	8*	68*
10 8	17 40.56	−34 1.1	1.634	1.620	35.8	19.9	71 E	9*	64*
10 18	18 7.13	−33 28.8	1.669	1.576	35.6	19.9	67 E	9*	61*
10 28	18 35.59	−32 38.0	1.699	1.534	35.3	19.8	63 E	10*	57*
11 7	19 5.51	−31 24.6	1.725	1.495	34.9	19.8	60 E	12*	54*
11 17	19 36.49	−29 45.9	1.749	1.460	34.4	19.8	57 E	14*	50*
11 27	20 8.11	−27 40.0	1.771	1.429	33.8	19.7	54 E	16*	46*
12 7	20 39.96	−25 6.7	1.793	1.403	33.1	19.7	51 E	18*	43*
12 12	20 55.88	−23 40.0	1.805	1.392	32.8	19.7	50 E	19*	41*
12 17	21 11.75	−22 7.1	1.816	1.382	32.4	19.7	49 E	20*	39*
12 22	21 27.54	−20 28.2	1.828	1.374	32.0	19.7	48 E	21*	37*
12 27	21 43.24	−18 43.8	1.841	1.367	31.5	19.6	47 E	23*	35*
1 1	21 58.81	−16 54.4	1.855	1.362	31.0	19.6	46 E	24*	33*
1 6	22 14.27	−15 0.7	1.870	1.359	30.6	19.6	45 E	25*	31*
1 11	22 29.61	−13 3.1	1.886	1.357	30.1	19.6	44 E	26*	29*
1 16	22 44.83	−11 2.4	1.903	1.356	29.5	19.6	43 E	26*	27*

242196 2003 PT_9

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	16 53.70	+ 2 29.6	2.813	2.981	19.4	21.5	90 W	47*	60*
3 12	17 0.48	+ 3 41.3	2.671	2.967	19.4	21.4	97 W	49	60*
3 22	17 5.46	+ 5 2.8	2.532	2.951	19.0	21.2	105 W	50	59
4 1	17 8.36	+ 6 32.1	2.400	2.934	18.3	21.1	113 W	52	57
4 11	17 8.96	+ 8 5.8	2.279	2.916	17.3	20.9	120 W	53	56
4 21	17 7.12	+ 9 39.9	2.170	2.897	15.9	20.8	128 W	55	54
5 1	17 2.78	+11 8.4	2.078	2.878	14.4	20.6	135 W	56	53
5 11	16 56.15	+12 24.4	2.006	2.857	13.0	20.5	140 W	57	52
5 16	16 52.10	+12 55.6	1.977	2.846	12.5	20.4	142 W	58	51
5 21	16 47.65	+13 21.0	1.955	2.835	12.2	20.3	144 W	58	51
5 26	16 42.90	+13 40.0	1.938	2.824	12.1	20.3	144 W	59	50
5 31	16 37.97	+13 51.9	1.927	2.812	12.2	20.3	144 W	59	50
6 10	16 28.04	+13 53.1	1.922	2.789	13.1	20.3	141 E	59	50
6 20	16 18.78	+13 24.2	1.939	2.764	14.7	20.4	136 E	58	51
6 30	16 11.04	+12 27.5	1.976	2.738	16.6	20.5	130 E	57	52
7 10	16 5.41	+11 7.8	2.029	2.712	18.5	20.6	122 E	56	53
7 20	16 2.22	+ 9 30.6	2.096	2.684	20.1	20.7	115 E	54*	54
7 30	16 1.58	+ 7 41.6	2.174	2.656	21.4	20.8	107 E	52*	56
8 9	16 3.44	+ 5 45.5	2.258	2.627	22.4	20.8	100 E	49*	58
8 19	16 7.63	+ 3 46.3	2.347	2.596	22.9	20.9	93 E	46*	60
8 29	16 14.00	+ 1 47.1	2.436	2.565	23.1	21.0	86 E	42*	62*
9 8	16 22.32	− 0 9.6	2.525	2.533	23.0	21.0	79 E	40*	60*
9 18	16 32.43	− 2 2.2	2.611	2.501	22.5	21.1	73 E	37*	57*
9 28	16 44.16	− 3 49.0	2.692	2.467	21.8	21.1	66 E	34*	53*
10 8	16 57.35	− 5 28.8	2.768	2.433	20.9	21.1	60 E	32*	48*
10 18	17 11.89	− 7 0.5	2.836	2.398	19.8	21.1	54 E	30*	42*
10 28	17 27.66	− 8 23.2	2.897	2.362	18.4	21.0	49 E	28*	36*
11 7	17 44.54	− 9 36.0	2.948	2.326	16.9	21.0	43 E	25*	30*
11 17	18 2.44	−10 38.3	2.990	2.289	15.3	20.9	38 E	23*	24*
11 27	18 21.28	−11 29.3	3.022	2.252	13.6	20.8	32 E	21*	18*
12 7	18 40.95	−12 8.5	3.043	2.214	11.8	20.8	27 E	18*	12*
12 17	19 1.37	−12 35.7	3.055	2.176	9.9	20.7	22 E	15*	6*
12 27	19 22.45	−12 50.5	3.055	2.138	7.9	20.5	17 E	11*	1*
1 6	19 44.11	−12 53.1	3.046	2.099	6.0	20.4	13 E	7*	—
1 16	20 6.29	−12 43.5	3.026	2.061	4.3	20.3	9 E	3*	—

323182 2003 MQ_5

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	16 56.23	+ 0 44.3	2.555	2.725	21.3	21.5	89 W	46*	61*
3 12	17 4.50	+ 1 38.0	2.410	2.705	21.4	21.3	96 W	47	62*
3 22	17 10.97	+ 2 40.7	2.268	2.684	21.1	21.2	104 W	48	61
4 1	17 15.34	+ 3 50.5	2.132	2.662	20.5	21.0	111 W	49	60
4 11	17 17.33	+ 5 4.5	2.004	2.640	19.4	20.8	119 W	50	59
4 21	17 16.69	+ 6 18.6	1.887	2.616	17.9	20.6	127 W	51	58
5 1	17 13.27	+ 7 27.3	1.784	2.592	16.1	20.4	134 W	52	57
5 6	17 10.54	+ 7 57.5	1.740	2.580	15.2	20.3	138 W	53	56
5 11	17 7.16	+ 8 23.7	1.700	2.567	14.2	20.2	141 W	53	56
5 16	17 3.18	+ 8 45.1	1.665	2.554	13.4	20.1	144 W	54	55
5 21	16 58.68	+ 9 0.6	1.635	2.541	12.7	20.0	146 W	54	55
5 26	16 53.76	+ 9 9.4	1.611	2.528	12.3	20.0	148 W	54	55
5 31	16 48.55	+ 9 10.8	1.593	2.514	12.1	19.9	149 W	54	55
6 10	16 37.78	+ 8 50.1	1.574	2.487	12.9	19.9	147 E	54	55
6 20	16 27.49	+ 7 57.6	1.577	2.459	14.7	20.0	142 E	53	56
6 30	16 18.75	+ 6 35.9	1.602	2.430	17.2	20.1	135 E	52	57
7 5	16 15.22	+ 5 45.8	1.622	2.416	18.5	20.1	131 E	51	58
7 10	16 12.35	+ 4 50.7	1.646	2.401	19.7	20.2	127 E	50	59
7 15	16 10.18	+ 3 51.5	1.673	2.386	20.9	20.2	123 E	49	60

323182 2003 MQ_5 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
7 20	16 8.74	+ 2 48.8	1.704	2.371	22.0	20.3	119 E	48	61
7 25	16 8.04	+ 1 43.5	1.738	2.356	23.0	20.4	115 E	47*	62
7 30	16 8.09	+ 0 36.4	1.774	2.341	23.9	20.4	111 E	45*	63
8 9	16 10.34	− 1 41.1	1.852	2.310	25.3	20.5	103 E	42*	66
8 19	16 15.32	− 3 59.5	1.936	2.278	26.2	20.6	96 E	39*	68
8 29	16 22.83	− 6 15.8	2.022	2.246	26.7	20.7	89 E	36*	70*
9 8	16 32.64	− 8 27.5	2.108	2.214	26.8	20.8	82 E	33*	69*
9 18	16 44.53	−10 32.7	2.193	2.182	26.6	20.8	76 E	30*	65*
9 28	16 58.34	−12 30.0	2.274	2.149	26.0	20.8	70 E	28*	61*
10 8	17 13.90	−14 18.0	2.352	2.116	25.1	20.8	64 E	26*	55*
10 18	17 31.07	−15 55.5	2.423	2.084	24.1	20.8	58 E	24*	50*
10 28	17 49.73	−17 21.4	2.489	2.051	22.8	20.8	53 E	22*	44*
11 7	18 9.74	−18 34.5	2.547	2.019	21.3	20.8	48 E	20*	39*
11 17	18 31.00	−19 33.8	2.598	1.987	19.7	20.8	43 E	18*	33*
11 27	18 53.37	−20 18.5	2.641	1.955	18.0	20.7	38 E	17*	28*
12 7	19 16.72	−20 47.7	2.676	1.925	16.1	20.6	33 E	15*	23*
12 17	19 40.93	−21 1.1	2.704	1.895	14.2	20.6	28 E	13*	18*
12 27	20 5.85	−20 58.3	2.723	1.866	12.3	20.5	24 E	11*	14*
1 6	20 31.35	−20 39.3	2.735	1.838	10.3	20.4	20 E	8*	10*
1 16	20 57.31	−20 4.4	2.740	1.812	8.4	20.3	16 E	5*	7*

163335 2002 LJ

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
3 2	16 59.57	−48 38.1	2.076	2.195	26.6	21.5	83 W	—	65*
3 7	17 2.63	−48 53.8	2.011	2.201	26.8	21.4	87 W	—	66*
3 12	17 4.72	−49 9.3	1.943	2.205	26.8	21.4	91 W	—	67*
3 17	17 5.72	−49 24.4	1.875	2.209	26.6	21.3	96 W	—	67
3 22	17 5.50	−49 38.7	1.806	2.211	26.3	21.2	100 W	—	66
3 27	17 3.92	−49 51.5	1.737	2.213	25.9	21.1	105 W	—	66
4 1	17 0.83	−50 1.9	1.669	2.214	25.2	21.0	110 W	—	66
4 6	16 56.11	−50 8.6	1.602	2.213	24.3	20.9	115 W	—	66
4 11	16 49.66	−50 10.1	1.537	2.212	23.2	20.8	120 W	—	66
4 16	16 41.39	−50 4.2	1.475	2.209	21.9	20.6	125 W	—	66
4 21	16 31.30	−49 48.3	1.417	2.206	20.3	20.5	130 W	—	66
4 26	16 19.49	−49 19.5	1.364	2.201	18.5	20.3	136 W	—	67
5 1	16 6.20	−48 35.0	1.316	2.196	16.6	20.2	141 W	—	67
5 6	15 51.83	−47 32.1	1.275	2.189	14.7	20.1	147 W	—	68
5 11	15 36.85	−46 9.3	1.241	2.182	12.9	19.9	151 W	—	70
5 16	15 21.82	−44 26.3	1.216	2.173	11.5	19.8	155 E	1	72
5 21	15 7.30	−42 24.5	1.200	2.164	11.0	19.8	156 E	3	74
5 26	14 53.77	−40 6.9	1.193	2.153	11.6	19.8	155 E	5	76
5 31	14 41.60	−37 38.1	1.195	2.141	13.1	19.8	151 E	7	78
6 5	14 31.01	−35 3.0	1.206	2.128	15.2	19.9	147 E	10	81
6 10	14 22.07	−32 26.9	1.226	2.115	17.5	20.0	141 E	13	84
6 15	14 14.79	−29 54.0	1.253	2.100	19.9	20.1	135 E	15	86
6 20	14 9.08	−27 28.0	1.286	2.084	22.2	20.2	129 E	17*	89
6 25	14 4.84	−25 11.3	1.326	2.067	24.3	20.3	123 E	19*	89
6 30	14 1.94	−23 5.5	1.370	2.049	26.1	20.4	118 E	21*	87
7 5	14 0.25	−21 11.2	1.417	2.029	27.7	20.5	112 E	21*	85
7 10	13 59.61	−19 28.5	1.467	2.009	29.0	20.6	107 E	22*	83
7 15	13 59.93	−17 56.8	1.518	1.987	30.1	20.7	101 E	22*	82
7 20	14 1.09	−16 35.5	1.571	1.964	30.9	20.8	96 E	22*	81
7 25	14 3.02	−15 23.8	1.623	1.940	31.6	20.8	92 E	22*	79*
7 30	14 5.62	−14 20.8	1.675	1.915	32.0	20.9	87 E	22*	77*
8 4	14 8.83	−13 25.5	1.725	1.889	32.2	20.9	83 E	21*	74*
8 9	14 12.59	−12 37.0	1.774	1.861	32.3	21.0	79 E	21*	71*
8 14	14 16.84	−11 54.5	1.820	1.832	32.2	21.0	75 E	21*	67*
8 19	14 21.56	−11 17.3	1.863	1.802	32.0	21.0	71 E	20*	63*
8 24	14 26.72	−10 44.5	1.903	1.770	31.7	21.0	67 E	20*	60*
8 29	14 32.27	−10 15.5	1.939	1.737	31.3	21.0	63 E	20*	56*
9 3	14 38.20	− 9 49.6	1.971	1.702	30.8	21.0	60 E	20*	53*
9 8	14 44.50	− 9 26.2	1.999	1.667	30.2	20.9	56 E	19*	49*
9 13	14 51.16	− 9 4.9	2.022	1.629	29.6	20.9	53 E	19*	46*
9 18	14 58.16	− 8 45.0	2.040	1.590	28.9	20.8	50 E	19*	42*
9 23	15 5.52	− 8 26.2	2.053	1.550	28.2	20.8	47 E	19*	39*
9 28	15 13.23	− 8 7.9	2.060	1.508	27.4	20.7	44 E	19*	36*
10 3	15 21.29	− 7 49.7	2.061	1.464	26.7	20.6	41 E	19*	33*
10 8	15 29.72	− 7 31.2	2.057	1.418	26.0	20.5	38 E	19*	29*
10 13	15 38.54	− 7 11.9	2.046	1.371	25.3	20.4	36 E	19*	26*
10 18	15 47.77	− 6 51.4	2.029	1.322	24.7	20.3	34 E	19*	23*
10 28	16 7.61	− 6 5.2	1.975	1.218	23.9	20.0	30 E	19*	17*
11 7	16 29.58	− 5 9.4	1.894	1.107	24.0	19.7	27 E	19*	11*
11 17	16 54.28	− 4 1.2	1.783	0.987	25.5	19.4	25 E	19*	6*
11 27	17 22.65	− 2 39.8	1.642	0.860	29.3	19.0	25 E	19*	1*
12 2	17 38.67	− 1 55.3	1.560	0.794	32.4	18.8	26 E	20*	—
12 7	17 56.27	− 1 10.7	1.469	0.727	36.6	18.6	26 E	20*	—
12 12	18 15.84	− 0 30.0	1.370	0.661	42.0	18.4	27 E	20*	—
12 17	18 37.83	− 0 1.1	1.263	0.597	49.3	18.2	27 E	21*	—
12 19	18 47.43	+ 0 4.2	1.219	0.572	52.7	18.2	28 E	21*	—
12 21	18 57.54	+ 0 4.1	1.173	0.548	56.6	18.1	28 E	21*	—

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
163335 2002 *LJ*									*(continuation)*
	h m	° ′			°	m	°	°	°
12 23	19 8.19	− 0 3.1	1.126	0.526	60.9	18.0	28 E	22*	—
12 25	19 19.41	− 0 19.5	1.079	0.506	65.5	18.0	28 E	22*	—
12 27	19 31.23	− 0 47.5	1.031	0.488	70.6	18.0	28 E	22*	—
12 29	19 43.63	− 1 29.8	0.984	0.472	76.1	18.0	28 E	22*	—
12 31	19 56.61	− 2 29.5	0.938	0.459	81.8	18.0	28 E	22*	—
1 2	20 10.11	− 3 49.4	0.893	0.450	87.7	18.1	27 E	21*	2*
1 4	20 24.07	− 5 32.1	0.851	0.444	93.5	18.2	27 E	20*	4*
1 6	20 38.38	− 7 39.0	0.812	0.443	98.9	18.4	26 E	19*	6*
1 8	20 52.91	−10 10.4	0.778	0.445	103.8	18.5	26 E	18*	9*
1 10	21 7.54	−13 4.4	0.748	0.451	107.6	18.7	26 E	16*	12*
1 12	21 22.14	−16 17.6	0.725	0.461	110.1	18.8	26 E	14*	14*
1 14	21 36.58	−19 44.6	0.707	0.474	111.2	18.9	27 E	12*	17*
1 16	21 50.77	−23 19.2	0.695	0.491	110.9	18.9	28 E	9*	20*
88938 2001 TR_{33}									
3 2	17 1.02	−27 20.0	2.145	2.278	25.7	21.4	85 W	18*	79*
3 12	17 15.65	−27 42.4	1.995	2.251	26.2	21.3	91 W	17*	85*
3 22	17 28.92	−27 58.8	1.847	2.223	26.3	21.1	98 W	17	88
4 1	17 40.45	−28 9.8	1.702	2.195	26.0	20.8	106 W	17	88
4 11	17 49.83	−28 16.2	1.562	2.166	25.1	20.6	113 W	17	88
4 21	17 56.60	−28 18.5	1.430	2.137	23.6	20.3	122 W	17	88
5 1	18 0.24	−28 17.0	1.308	2.108	21.3	20.0	131 W	17	88
5 11	18 0.34	−28 10.9	1.199	2.078	18.1	19.7	140 W	17	88
5 21	17 56.63	−27 58.4	1.106	2.049	14.1	19.4	151 W	17	88
5 31	17 49.22	−27 36.8	1.031	2.019	9.1	19.0	162 W	17	88
6 5	17 44.36	−27 21.8	1.002	2.005	6.4	18.8	167 W	18	89
6 10	17 38.93	−27 3.6	0.978	1.990	3.6	18.6	173 W	18	89
6 15	17 33.12	−26 42.2	0.960	1.975	1.8	18.4	177 E	18	89
6 20	17 27.16	−26 17.9	0.948	1.961	3.6	18.5	173 E	19	90
6 25	17 21.31	−25 51.1	0.942	1.947	6.6	18.6	167 E	19	90
6 30	17 15.83	−25 22.6	0.941	1.932	9.6	18.7	161 E	20	89
7 5	17 10.94	−24 53.3	0.946	1.918	12.6	18.8	156 E	20	89
7 10	17 6.82	−24 23.9	0.955	1.904	15.5	18.9	150 E	21	88
7 15	17 3.60	−23 55.4	0.969	1.890	18.2	19.1	144 E	21	88
7 20	17 1.39	−23 28.4	0.987	1.877	20.8	19.2	139 E	22	87
7 30	17 0.23	−22 41.4	1.033	1.850	25.2	19.4	129 E	22	87
8 9	17 3.37	−22 4.6	1.089	1.824	28.7	19.6	120 E	23	86
8 19	17 10.51	−21 37.4	1.153	1.800	31.3	19.7	112 E	23*	86
8 29	17 21.26	−21 17.2	1.222	1.777	33.3	19.9	105 E	24*	85
9 8	17 35.11	−21 0.6	1.293	1.755	34.6	20.0	99 E	24*	85
9 18	17 51.62	−20 43.6	1.367	1.735	35.3	20.1	93 E	24*	84*
9 28	18 10.40	−20 23.0	1.440	1.717	35.7	20.2	87 E	24*	79*
10 8	18 31.05	−19 55.2	1.514	1.701	35.6	20.3	82 E	25*	74*
10 18	18 53.23	−19 17.7	1.588	1.687	35.3	20.4	78 E	25*	69*
10 28	19 16.63	−18 28.4	1.661	1.675	34.7	20.5	73 E	26*	64*
11 7	19 40.94	−17 25.6	1.733	1.666	33.8	20.5	69 E	27*	59*
11 17	20 5.90	−16 8.8	1.805	1.659	32.8	20.6	65 E	28*	53*
11 27	20 31.31	−14 37.6	1.877	1.655	31.7	20.6	62 E	29*	48*
12 7	20 56.93	−12 52.7	1.948	1.653	30.4	20.7	58 E	31*	42*
12 17	21 22.62	−10 54.9	2.019	1.655	29.0	20.7	54 E	32*	37*
12 27	21 48.28	− 8 45.9	2.090	1.658	27.4	20.7	51 E	32*	32*
1 6	22 13.81	− 6 27.5	2.161	1.665	25.9	20.8	48 E	32*	27*
1 16	22 39.18	− 4 1.7	2.232	1.674	24.2	20.8	44 E	32*	23*
170880 2004 PH_{85}									
3 2	17 6.36	−17 51.8	2.134	2.264	25.8	21.4	84 W	27*	75*
3 12	17 20.55	−17 47.8	1.983	2.234	26.4	21.2	91 W	27*	80*
3 22	17 33.48	−17 36.0	1.834	2.204	26.6	21.0	98 W	27*	82
4 1	17 44.81	−17 17.3	1.689	2.173	26.4	20.8	105 W	28	81
4 11	17 54.20	−16 53.0	1.548	2.143	25.6	20.6	113 W	28	81
4 21	18 1.25	−16 24.9	1.415	2.111	24.2	20.3	121 W	29	80
5 1	18 5.50	−15 54.9	1.292	2.080	22.1	20.0	129 W	29	80
5 11	18 6.58	−15 25.6	1.181	2.048	19.2	19.7	138 W	30	79
5 21	18 4.21	−14 59.7	1.085	2.017	15.4	19.3	148 W	30	79
5 31	17 58.39	−14 40.2	1.007	1.985	10.9	19.0	158 W	30	79
6 10	17 49.66	−14 29.8	0.950	1.954	6.2	18.6	168 W	31	78
6 15	17 44.52	−14 28.8	0.929	1.939	4.8	18.5	171 W	31	78
6 20	17 39.11	−14 30.7	0.914	1.923	5.1	18.5	170 E	30	79
6 25	17 33.64	−14 35.9	0.904	1.908	7.0	18.5	167 E	30	79
6 30	17 28.36	−14 44.4	0.900	1.893	9.6	18.6	162 E	30	79
7 5	17 23.50	−14 56.1	0.901	1.878	12.5	18.7	157 E	30	79
7 10	17 19.23	−15 10.9	0.907	1.863	15.3	18.8	151 E	30	79
7 15	17 15.73	−15 28.6	0.918	1.849	18.0	18.9	146 E	30	79
7 20	17 13.14	−15 49.0	0.932	1.835	20.6	19.0	141 E	29	80
7 30	17 11.02	−16 36.8	0.971	1.807	25.1	19.2	131 E	28	81
8 9	17 13.20	−17 31.1	1.022	1.781	28.9	19.4	122 E	27	82
8 19	17 19.57	−18 28.4	1.079	1.755	31.8	19.5	114 E	27*	82
8 29	17 29.84	−19 25.1	1.143	1.732	33.9	19.7	107 E	26*	83
9 8	17 43.58	−20 17.4	1.209	1.710	35.4	19.8	101 E	25*	84

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
170880 2004 PH_{85}									*(continuation)*
	h m	° ′			°	m	°	°	°
9 18	18 0.35	−21 1.7	1.278	1.691	36.3	20.0	95 E	24*	85*
9 28	18 19.77	−21 34.7	1.348	1.673	36.8	20.1	90 E	23*	82*
10 8	18 41.37	−21 53.5	1.419	1.658	36.9	20.2	85 E	23*	77*
10 18	19 4.77	−21 55.7	1.490	1.646	36.6	20.2	80 E	23*	73*
10 28	19 29.58	−21 39.3	1.562	1.636	36.1	20.3	76 E	23*	68*
11 7	19 55.42	−21 3.4	1.634	1.629	35.4	20.4	72 E	24*	63*
11 17	20 21.93	−20 7.6	1.707	1.624	34.4	20.4	68 E	25*	58*
11 27	20 48.83	−18 52.5	1.780	1.623	33.3	20.5	65 E	26*	53*
12 7	21 15.82	−17 19.1	1.855	1.625	32.0	20.6	61 E	27*	48*
12 17	21 42.73	−15 29.5	1.930	1.629	30.6	20.6	58 E	28*	43*
12 27	22 9.40	−13 25.7	2.005	1.637	29.1	20.7	54 E	29*	39*
1 6	22 35.73	−11 10.5	2.082	1.647	27.6	20.7	51 E	30*	34*
1 16	23 1.69	− 8 46.4	2.159	1.660	25.9	20.8	47 E	30*	30*
488640 2003 FR_6									
3 2	17 14.03	− 0 17.6	0.965	1.315	48.6	21.3	85 W	44*	60*
3 7	17 33.86	+ 3 4.7	0.935	1.297	49.6	21.3	85 W	47*	57*
3 12	17 53.96	+ 6 38.8	0.912	1.279	50.6	21.2	84 W	50*	54*
3 17	18 14.22	+10 20.1	0.896	1.263	51.5	21.2	84 W	53*	51*
3 22	18 34.55	+14 3.6	0.887	1.249	52.3	21.1	83 W	56*	48*
3 27	18 54.82	+17 44.0	0.884	1.236	53.1	21.1	82 W	59*	44*
4 1	19 14.94	+21 16.5	0.887	1.225	53.6	21.1	81 W	60*	41*
4 6	19 34.81	+24 37.2	0.895	1.215	54.1	21.2	80 W	62*	38*
4 11	19 54.36	+27 43.3	0.908	1.208	54.3	21.2	78 W	63*	35*
4 16	20 13.49	+30 33.4	0.923	1.202	54.5	21.2	77 W	64*	32*
4 21	20 32.15	+33 6.8	0.940	1.199	54.4	21.2	76 W	64*	30*
4 26	20 50.25	+35 23.6	0.958	1.197	54.3	21.3	75 W	64*	28*
5 1	21 7.77	+37 24.5	0.977	1.198	54.1	21.3	74 W	64*	26*
5 6	21 24.66	+39 10.3	0.995	1.200	53.7	21.4	74 W	64*	25*
5 11	21 40.92	+40 42.4	1.013	1.205	53.3	21.4	73 W	64*	23*
5 16	21 56.51	+42 2.0	1.028	1.211	52.9	21.4	73 W	64*	22*
5 21	22 11.40	+43 10.3	1.041	1.220	52.5	21.5	73 W	64*	21*
5 26	22 25.58	+44 8.2	1.052	1.230	52.0	21.5	73 W	64*	20
467609 2008 AV_{28}									
3 2	17 17.06	−45 1.1	0.814	1.174	56.4	21.3	80 W	—	67*
3 7	17 49.04	−45 56.0	0.783	1.147	58.3	21.3	80 W	—	65*
3 12	18 23.18	−46 18.6	0.755	1.119	60.4	21.2	78 W	—	63*
3 17	18 58.82	−46 2.9	0.731	1.091	62.6	21.1	77 W	—	62*
3 22	19 35.01	−45 4.5	0.712	1.063	64.8	21.1	75 W	—	60*
3 27	20 10.67	−43 21.6	0.697	1.035	67.1	21.1	73 W	—	59*
4 1	20 44.89	−40 55.6	0.687	1.007	69.4	21.0	71 W	—	57*
4 6	21 17.03	−37 50.4	0.682	0.979	71.6	21.0	68 W	—	56*
4 11	21 46.80	−34 12.1	0.681	0.952	73.6	21.0	66 W	—	55*
4 16	22 14.18	−30 7.5	0.686	0.926	75.4	21.0	63 W	—	54*
4 21	22 39.36	−25 44.0	0.696	0.901	76.8	21.1	61 W	—	53*
4 26	23 2.64	−21 8.5	0.710	0.877	77.9	21.1	58 W	1*	51*
5 1	23 24.34	−16 27.1	0.730	0.856	78.5	21.1	56 W	3*	50*
5 6	23 44.84	−11 45.1	0.753	0.837	78.6	21.1	54 W	5*	48*
5 11	0 4.47	− 7 6.9	0.782	0.820	78.1	21.2	53 W	8*	47*
5 16	0 23.53	− 2 36.1	0.813	0.807	77.2	21.2	51 W	10*	45*
5 21	0 42.27	+ 1 44.3	0.849	0.797	75.8	21.2	50 W	12*	43*
5 26	1 0.88	+ 5 52.1	0.886	0.791	74.0	21.2	49 W	15*	41*
5 31	1 19.53	+ 9 45.5	0.926	0.789	71.9	21.2	48 W	17*	39*
6 5	1 38.34	+13 22.9	0.968	0.791	69.6	21.3	47 W	19*	37*
6 10	1 57.41	+16 43.5	1.010	0.797	67.2	21.3	46 W	21*	35*
6 15	2 16.77	+19 46.6	1.053	0.806	64.7	21.3	46 W	23*	32*
6 20	2 36.43	+22 31.8	1.095	0.819	62.2	21.4	45 W	25*	31*
6 25	2 56.35	+24 58.9	1.136	0.836	59.8	21.4	45 W	27*	29*
6 30	3 16.48	+27 7.9	1.176	0.855	57.5	21.5	45 W	28*	27*
462102 2007 PN_{24}									
3 2	17 18.33	−33 33.3	1.641	1.773	33.5	21.4	81 W	11*	74*
3 7	17 32.08	−33 59.1	1.579	1.754	34.1	21.3	83 W	11*	75*
3 12	17 45.97	−34 20.6	1.518	1.735	34.8	21.2	85 W	10*	76*
3 17	17 59.98	−34 37.6	1.459	1.717	35.3	21.1	87 W	10*	78*
3 22	18 14.06	−34 50.0	1.400	1.699	35.9	21.0	89 W	10*	79*
3 27	18 28.17	−34 57.5	1.343	1.682	36.4	21.0	91 W	9*	79*
4 1	18 42.27	−35 0.0	1.287	1.665	36.8	20.8	93 W	9*	80*
4 6	18 56.31	−34 57.5	1.233	1.648	37.3	20.7	95 W	9*	81*
4 11	19 10.26	−34 49.7	1.180	1.632	37.6	20.6	96 W	9*	81*
4 16	19 24.05	−34 36.8	1.129	1.617	37.9	20.5	98 W	9*	81
4 21	19 37.62	−34 18.7	1.080	1.602	38.1	20.4	100 W	9*	82
4 26	19 50.90	−33 55.5	1.031	1.587	38.3	20.3	102 W	10*	82
5 1	20 3.84	−33 27.1	0.985	1.574	38.3	20.2	104 W	10*	83
5 6	20 16.37	−32 53.8	0.940	1.561	38.3	20.1	106 W	10*	83
5 11	20 28.44	−32 15.6	0.897	1.549	38.2	19.9	108 W	11*	84
5 16	20 39.96	−31 32.8	0.856	1.538	38.0	19.8	111 W	12*	84
5 21	20 50.87	−30 45.6	0.816	1.527	37.6	19.7	113 W	13*	85
5 26	21 1.07	−29 54.1	0.779	1.518	37.1	19.6	115 W	14*	86
5 31	21 10.49	−28 58.7	0.743	1.510	36.5	19.4	118 W	15*	87
6 5	21 19.07	−27 59.5	0.708	1.502	35.7	19.3	120 W	16*	88

462102 2007 PN_{24} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
6 10	21 26.73	−26 56.7	0.676	1.496	34.7	19.2	123 W	18*	89
6 15	21 33.38	−25 50.6	0.646	1.490	33.5	19.0	126 W	19*	90
6 20	21 38.92	−24 41.4	0.617	1.486	32.0	18.9	129 W	20*	89
6 30	21 46.42	−22 14.9	0.567	1.480	28.3	18.6	136 W	23	86
7 10	21 48.90	−19 38.5	0.527	1.479	23.4	18.3	145 W	25	84
7 20	21 46.36	−16 55.7	0.500	1.482	17.4	18.0	154 W	28	81
7 25	21 43.43	−15 33.5	0.491	1.485	14.0	17.8	159 W	29	80
7 30	21 39.65	−14 11.8	0.486	1.490	10.5	17.7	165 W	31	78
8 4	21 35.30	−12 51.8	0.486	1.495	6.9	17.5	170 W	32	77
8 9	21 30.64	−11 34.7	0.489	1.501	3.7	17.4	174 W	33	76
8 14	21 25.97	−10 21.7	0.497	1.509	3.1	17.4	175 E	35	74
8 19	21 21.60	− 9 13.8	0.509	1.517	5.8	17.6	171 E	36	73
8 24	21 17.79	− 8 11.5	0.526	1.527	9.0	17.8	166 E	37	72
8 29	21 14.78	− 7 15.0	0.546	1.537	12.3	18.1	161 E	38	71
9 8	21 11.62	− 5 38.9	0.599	1.560	18.0	18.5	151 E	39	70
9 18	21 12.51	− 4 21.7	0.667	1.586	22.7	18.9	142 E	41	68
9 28	21 17.34	− 3 16.9	0.747	1.615	26.3	19.3	134 E	42	67
10 3	21 21.05	− 2 47.1	0.791	1.631	27.7	19.5	131 E	42	67
10 8	21 25.51	− 2 18.2	0.838	1.647	28.9	19.7	127 E	43	66
10 13	21 30.65	− 1 49.6	0.888	1.663	29.9	19.8	124 E	43	66
10 18	21 36.40	− 1 20.8	0.940	1.680	30.8	20.0	120 E	44	65
10 28	21 49.43	− 0 21.0	1.051	1.716	31.9	20.3	114 E	45	64
11 7	22 4.08	+ 0 43.5	1.169	1.752	32.5	20.6	108 E	46	63
11 17	22 19.94	+ 1 53.6	1.294	1.790	32.6	20.9	102 E	47	62*
11 27	22 36.71	+ 3 9.9	1.426	1.829	32.4	21.1	97 E	48	59*
12 7	22 54.13	+ 4 32.1	1.562	1.869	31.8	21.4	92 E	50	54*

136698 1995 SO_{63}

3 2	17 24.43	−22 32.7	2.034	2.099	27.7	21.5	80 W	22*	73*
3 12	17 43.31	−22 37.8	1.883	2.059	28.8	21.3	85 W	22*	79*
3 22	18 1.68	−22 33.6	1.735	2.018	29.6	21.1	91 W	22*	84*
4 1	18 19.32	−22 20.5	1.589	1.978	30.1	20.9	97 W	22*	86
4 11	18 35.97	−21 59.5	1.449	1.938	30.3	20.6	103 W	23*	86
4 21	18 51.40	−21 31.9	1.315	1.899	30.0	20.4	109 W	23*	86
5 1	19 5.22	−20 59.5	1.187	1.860	29.2	20.1	116 W	24*	85
5 11	19 17.09	−20 24.4	1.069	1.822	27.9	19.8	122 W	25	84
5 21	19 26.59	−19 49.1	0.960	1.786	25.8	19.4	130 W	25	84
5 31	19 33.22	−19 16.5	0.863	1.751	22.9	19.1	138 W	26	83
6 10	19 36.64	−18 49.6	0.778	1.718	19.1	18.7	146 W	26	83
6 20	19 36.60	−18 30.9	0.708	1.687	14.3	18.3	156 W	26	83
6 30	19 33.28	−18 22.0	0.654	1.659	8.6	17.9	166 W	27	82
7 5	19 30.65	−18 21.2	0.634	1.646	5.5	17.6	171 W	27	82
7 10	19 27.58	−18 22.6	0.618	1.633	2.8	17.4	175 W	27	82
7 15	19 24.27	−18 26.0	0.606	1.621	2.8	17.4	176 E	27	82
7 20	19 20.96	−18 30.9	0.599	1.610	5.7	17.5	171 E	26	83
7 25	19 17.93	−18 37.1	0.596	1.600	9.0	17.6	166 E	26	83
7 30	19 15.42	−18 43.9	0.597	1.591	12.3	17.7	161 E	26	83
8 4	19 13.65	−18 51.1	0.603	1.582	15.5	17.8	155 E	26	83
8 9	19 12.79	−18 58.1	0.612	1.575	18.5	18.0	150 E	26	83
8 14	19 12.96	−19 4.6	0.624	1.568	21.3	18.1	146 E	26	83
8 19	19 14.24	−19 10.1	0.640	1.563	23.9	18.2	141 E	26	83
8 29	19 20.26	−19 16.7	0.679	1.555	28.4	18.5	133 E	26	83
9 8	19 30.64	−19 14.4	0.729	1.551	31.8	18.7	126 E	26	83
9 18	19 44.81	−19 0.4	0.787	1.551	34.4	19.0	119 E	26	83
9 28	20 2.10	−18 32.2	0.853	1.555	36.1	19.2	114 E	26	83
10 8	20 21.73	−17 48.0	0.925	1.564	37.3	19.4	109 E	27	82
10 18	20 43.03	−16 47.5	1.005	1.576	37.9	19.6	104 E	28	81
10 28	21 5.46	−15 30.9	1.091	1.592	38.0	19.8	99 E	29	80
11 2	21 16.93	−14 46.8	1.137	1.602	37.9	19.9	97 E	30	79*
11 7	21 28.51	−13 59.2	1.184	1.612	37.7	20.0	95 E	31	77*
11 12	21 40.15	−13 8.4	1.233	1.623	37.5	20.1	93 E	32	75*
11 17	21 51.83	−12 14.5	1.283	1.635	37.2	20.2	91 E	33	73*
11 27	22 15.19	−10 18.5	1.388	1.661	36.4	20.4	87 E	35	67*
12 7	22 38.40	− 8 13.8	1.498	1.690	35.4	20.6	83 E	37	62*
12 17	23 1.36	− 6 2.7	1.613	1.721	34.1	20.7	79 E	39	56*
12 27	23 24.06	− 3 47.3	1.732	1.754	32.8	20.9	75 E	41	50*
1 6	23 46.44	− 1 29.8	1.854	1.789	31.3	21.0	71 E	43*	45*
1 16	0 8.55	+ 0 47.8	1.979	1.825	29.6	21.2	66 E	44*	40*

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3 2	17 33.18	−18 37.7	2.674	2.651	21.4	21.5	78 W	26*	70*
3 12	17 44.47	−19 31.5	2.494	2.607	22.3	21.3	85 W	25*	77*
3 22	17 54.70	−20 29.7	2.313	2.563	22.9	21.2	93 W	24*	84*
4 1	18 3.58	−21 35.2	2.134	2.518	23.0	20.9	101 W	23*	86
4 11	18 10.78	−22 51.5	1.960	2.472	22.6	20.7	109 W	22*	87

474189 1999 XW_8 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
4 21	18 15.89	−24 22.4	1.792	2.426	21.6	20.4	117 W	21	88
5 1	18 18.41	−26 11.8	1.636	2.379	19.9	20.1	127 W	19	90
5 11	18 17.78	−28 22.7	1.494	2.332	17.4	19.8	136 W	17	88
5 21	18 13.43	−30 55.9	1.371	2.284	14.2	19.5	146 W	14	85
5 26	18 9.70	−32 19.9	1.317	2.260	12.3	19.3	152 W	13	84
5 31	18 4.88	−33 47.8	1.270	2.236	10.5	19.1	156 W	11	82
6 5	17 59.01	−35 18.1	1.229	2.212	8.7	19.0	161 W	10	81
6 10	17 52.12	−36 49.1	1.195	2.188	7.4	18.8	164 W	8	79
6 15	17 44.32	−38 18.8	1.167	2.164	7.1	18.7	165 W	7	78
6 20	17 35.78	−39 45.0	1.147	2.140	7.9	18.7	163 E	5	76
6 25	17 26.76	−41 5.9	1.134	2.116	9.7	18.7	160 E	4	75
6 30	17 17.57	−42 19.8	1.127	2.092	12.0	18.8	155 E	3	74
7 5	17 8.53	−43 25.8	1.127	2.068	14.4	18.9	150 E	2	73
7 10	16 59.97	−44 23.6	1.132	2.045	16.9	18.9	144 E	1	72
7 15	16 52.19	−45 13.4	1.143	2.021	19.4	19.0	139 E	—	71
7 20	16 45.46	−45 56.0	1.158	1.998	21.7	19.1	133 E	—	70
7 25	16 40.01	−46 32.5	1.176	1.974	23.8	19.1	128 E	—	69
7 30	16 35.97	−47 4.1	1.198	1.951	25.7	19.2	123 E	—	69
8 4	16 33.42	−47 31.9	1.223	1.929	27.4	19.3	119 E	—	68
8 9	16 32.39	−47 57.1	1.248	1.906	29.0	19.4	114 E	—	68
8 14	16 32.88	−48 20.3	1.276	1.884	30.3	19.4	110 E	—	68
8 19	16 34.88	−48 42.2	1.304	1.862	31.4	19.5	106 E	—	67
8 24	16 38.36	−49 3.2	1.332	1.840	32.4	19.5	103 E	—	67
8 29	16 43.26	−49 23.3	1.361	1.819	33.2	19.6	99 E	—	67
9 3	16 49.54	−49 42.7	1.389	1.798	33.9	19.6	96 E	—	66*
9 8	16 57.14	−50 0.9	1.416	1.778	34.5	19.6	93 E	—	65*
9 13	17 6.00	−50 17.6	1.443	1.758	34.9	19.7	90 E	—	65*
9 18	17 16.11	−50 32.2	1.469	1.739	35.2	19.7	87 E	—	64*
9 23	17 27.39	−50 44.3	1.493	1.721	35.5	19.7	85 E	—	63*
9 28	17 39.79	−50 53.0	1.517	1.703	35.7	19.7	82 E	—	62*
10 3	17 53.24	−50 57.7	1.540	1.686	35.8	19.7	80 E	—	61*
10 8	18 7.66	−50 57.3	1.561	1.670	35.8	19.7	78 E	—	60*
10 13	18 22.96	−50 51.1	1.581	1.654	35.8	19.8	76 E	—	60*
10 18	18 39.06	−50 38.3	1.601	1.640	35.8	19.8	74 E	—	59*
10 23	18 55.84	−50 18.0	1.619	1.626	35.7	19.8	73 E	—	58*
10 28	19 13.16	−49 49.6	1.637	1.613	35.6	19.8	71 E	—	58*
11 2	19 30.88	−49 12.4	1.654	1.602	35.4	19.8	69 E	—	58*
11 7	19 48.87	−48 25.9	1.671	1.591	35.3	19.8	68 E	—	57*
11 12	20 6.99	−47 29.8	1.687	1.581	35.1	19.8	67 E	—	57*
11 17	20 25.11	−46 23.9	1.703	1.573	34.8	19.8	65 E	—	57*
11 22	20 43.13	−45 8.4	1.720	1.566	34.6	19.8	64 E	—	56*
11 27	21 0.91	−43 43.4	1.737	1.560	34.3	19.8	63 E	1*	56*
12 2	21 18.39	−42 9.3	1.754	1.555	34.0	19.8	62 E	3*	55*
12 7	21 35.49	−40 26.6	1.772	1.551	33.7	19.8	61 E	4*	55*
12 12	21 52.18	−38 35.9	1.792	1.549	33.3	19.8	60 E	6*	54*
12 17	22 8.44	−36 38.1	1.812	1.548	32.9	19.8	59 E	8*	53*
12 22	22 24.24	−34 33.8	1.834	1.548	32.4	19.8	58 E	10*	51*
12 27	22 39.58	−32 24.1	1.857	1.549	32.0	19.9	57 E	12*	50*
1 1	22 54.48	−30 9.8	1.882	1.552	31.4	19.9	55 E	14*	48*
1 6	23 8.95	−27 51.9	1.909	1.556	30.9	19.9	54 E	16*	47*
1 11	23 23.01	−25 31.2	1.938	1.561	30.3	19.9	53 E	18*	45*
1 16	23 36.71	−23 8.6	1.968	1.568	29.6	19.9	52 E	19*	43*

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3 2	17 33.75	−42 43.9	0.685	1.075	64.1	21.4	77 W	2*	66*
3 4	17 48.48	−42 3.8	0.671	1.061	65.4	21.4	77 W	2*	66*
3 6	18 3.37	−41 14.9	0.657	1.046	66.8	21.3	76 W	2*	65*
3 8	18 18.33	−40 16.7	0.645	1.031	68.2	21.3	75 W	3*	65*
3 10	18 33.32	−39 9.2	0.635	1.016	69.6	21.3	74 W	4*	64*
3 12	18 48.24	−37 52.2	0.625	1.001	71.1	21.3	72 W	4*	64*
3 14	19 3.04	−36 25.8	0.616	0.986	72.6	21.3	71 W	5*	63*
3 16	19 17.66	−34 50.3	0.609	0.971	74.1	21.2	70 W	6*	62*
3 18	19 32.04	−33 6.2	0.603	0.956	75.5	21.2	69 W	6*	61*
3 20	19 46.14	−31 14.0	0.599	0.942	77.0	21.2	67 W	7*	60*
3 22	19 59.92	−29 14.5	0.596	0.927	78.4	21.3	66 W	8*	59*
3 24	20 13.36	−27 8.6	0.595	0.912	79.8	21.3	64 W	9*	58*
3 26	20 26.44	−24 57.3	0.595	0.898	81.1	21.3	63 W	10*	57*
3 28	20 39.16	−22 41.9	0.598	0.883	82.3	21.3	61 W	11*	55*
3 30	20 51.52	−20 23.3	0.601	0.869	83.4	21.3	60 W	12*	54*
4 1	21 3.52	−18 2.9	0.607	0.855	84.4	21.3	58 W	13*	52*
4 3	21 15.18	−15 41.7	0.614	0.842	85.2	21.4	57 W	14*	51*
4 5	21 26.53	−13 20.9	0.623	0.828	85.9	21.4	56 W	15*	49*
4 7	21 37.57	−11 1.4	0.634	0.815	86.4	21.4	54 W	16*	48*
4 9	21 48.35	− 8 44.1	0.646	0.803	86.8	21.4	53 W	17*	46*
4 11	21 58.87	− 6 29.8	0.660	0.790	86.9	21.4	52 W	17*	45*
4 16	22 24.26	− 1 11.2	0.700	0.762	86.5	21.5	49 W	19*	41*
4 21	22 48.63	+ 3 38.1	0.749	0.738	85.0	21.5	47 W	20*	38*
4 26	23 12.31	+ 7 55.3	0.805	0.718	82.5	21.5	45 W	21*	35*
5 1	23 35.58	+11 40.2	0.866	0.704	79.1	21.5	43 W	22*	32*
5 6	23 58.62	+14 54.3	0.930	0.697	75.1	21.5	42 W	22*	30*
5 11	0 21.56	+17 39.7	0.996	0.695	70.8	21.5	41 W	22*	28*
5 16	0 44.41	+19 59.0	1.063	0.700	66.3	21.5	39 W	22*	26*