2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
106538 2000 WK_{63}									
4 11	0 1.21	+10 55.5	0.473	0.577	145.0	21.0	19 W	9*	10*
4 13	23 52.05	+10 24.0	0.493	0.583	137.3	20.0	23 W	11*	14*
4 15	23 44.52	+ 9 54.0	0.515	0.591	130.0	19.3	27 W	13*	18*
4 17	23 38.53	+ 9 26.6	0.538	0.602	123.2	18.8	30 W	14*	21*
4 19	23 33.95	+ 9 2.2	0.563	0.615	116.9	18.5	33 W	16*	24*
4 21	23 30.60	+ 8 41.3	0.588	0.630	111.0	18.3	36 W	17*	27*
4 26	23 26.52	+ 8 3.0	0.652	0.675	98.6	18.0	42 W	19*	32*
5 1	23 26.69	+ 7 41.6	0.712	0.729	88.7	17.9	46 W	21*	37*
5 6	23 29.37	+ 7 32.4	0.768	0.787	80.9	17.9	50 W	22*	40*
5 11	23 33.40	+ 7 31.1	0.817	0.849	74.6	18.0	54 W	24*	43*
5 16	23 38.05	+ 7 34.4	0.859	0.913	69.5	18.1	58 W	25*	46*
5 21	23 42.85	+ 7 39.8	0.895	0.978	65.2	18.2	61 W	27*	49*
5 26	23 47.46	+ 7 45.5	0.925	1.044	61.6	18.3	65 W	29*	51*
5 31	23 51.69	+ 7 49.9	0.948	1.109	58.4	18.4	69 W	31*	53*
6 5	23 55.38	+ 7 52.1	0.967	1.173	55.6	18.5	73 W	33*	54*
6 10	23 58.44	+ 7 51.0	0.980	1.237	53.0	18.6	77 W	35*	56*
6 15	0 0.75	+ 7 45.9	0.989	1.300	50.5	18.6	81 W	37*	56*
6 20	0 2.23	+ 7 36.0	0.993	1.362	48.0	18.7	85 W	40*	56
6 25	0 2.81	+ 7 20.4	0.995	1.423	45.6	18.7	90 W	43*	57
6 30	0 2.41	+ 6 58.5	0.994	1.483	43.1	18.7	95 W	45*	57
7 10	23 58.52	+ 5 53.5	0.988	1.600	37.7	18.7	106 W	49*	58
7 20	23 50.28	+ 4 17.1	0.982	1.712	31.6	18.7	118 W	49*	60
7 30	23 37.85	+ 2 9.0	0.984	1.820	24.8	18.6	131 W	47	62
8 4	23 30.31	+ 0 54.7	0.991	1.873	21.2	18.6	138 W	46	63
8 9	23 22.10	− 0 24.7	1.002	1.925	17.4	18.5	145 W	45	64
8 14	23 13.41	− 1 47.3	1.020	1.975	13.6	18.5	153 W	43	66
8 19	23 4.51	− 3 11.1	1.044	2.025	9.8	18.5	160 W	42	67
8 24	22 55.64	− 4 33.7	1.075	2.074	6.1	18.4	167 W	40	69
8 29	22 47.05	− 5 53.0	1.114	2.122	2.6	18.3	175 W	39	70
9 3	22 38.98	− 7 7.1	1.161	2.169	1.1	18.4	178 E	38	71
9 8	22 31.59	− 8 14.8	1.215	2.215	4.1	18.7	171 E	37	72
9 13	22 25.00	− 9 15.2	1.276	2.261	7.0	19.0	164 E	36	73
9 18	22 19.31	−10 7.9	1.344	2.305	9.5	19.3	158 E	35	74
9 28	22 10.76	−11 30.4	1.498	2.392	13.7	19.8	145 E	33	76
10 8	22 5.86	−12 24.6	1.674	2.476	16.8	20.2	134 E	33	76
10 18	22 4.23	−12 54.9	1.866	2.558	18.9	20.6	124 E	32	77
10 28	22 5.38	−13 5.5	2.071	2.636	20.1	20.9	114 E	32	77
11 7	22 8.80	−13 0.2	2.284	2.712	20.7	21.2	105 E	32	77
11 17	22 14.05	−12 41.9	2.501	2.785	20.7	21.4	96 E	32	76*
159699 2002 PQ_{142}									
4 11	0 6.88	− 2 46.6	2.558	1.662	12.5	21.5	21 W	—	15*
4 21	0 31.00	− 0 48.7	2.420	1.563	15.5	21.3	25 W	—	18*
5 1	0 57.32	+ 1 17.4	2.276	1.458	18.6	21.2	27 W	—	21*
5 11	1 26.47	+ 3 31.9	2.129	1.347	21.7	20.9	30 W	1*	24*
5 21	1 59.28	+ 5 54.8	1.984	1.229	24.9	20.7	31 W	2*	25*
5 31	2 36.80	+ 8 24.8	1.846	1.106	28.1	20.4	31 W	2*	25*
6 5	2 57.70	+ 9 41.3	1.781	1.041	29.5	20.2	30 W	2*	24*
6 10	3 20.27	+10 57.8	1.721	0.976	30.9	20.0	30 W	3*	23*
6 15	3 44.67	+12 13.1	1.666	0.909	32.0	19.9	28 W	2*	22*
6 20	4 11.07	+13 25.6	1.617	0.841	32.7	19.6	27 W	2*	20*
6 25	4 39.57	+14 33.0	1.576	0.773	32.8	19.4	24 W	2*	18*
6 30	5 10.27	+15 33.0	1.543	0.706	32.1	19.1	22 W	1*	15*
7 5	5 43.16	+16 22.7	1.518	0.642	30.3	18.9	19 W	—	12*
7 10	6 18.17	+16 59.1	1.503	0.583	26.7	18.5	15 W	—	9*
7 15	6 55.08	+17 19.4	1.495	0.533	21.2	18.1	11 W	—	5*
7 20	7 33.48	+17 20.9	1.492	0.497	13.8	17.7	7 W	—	1*
7 25	8 12.71	+17 1.6	1.493	0.481	6.2	17.4	3 W	—	—
7 30	8 51.85	+16 20.6	1.495	0.487	8.4	17.5	4 E	—	—
8 4	9 29.97	+15 18.5	1.499	0.515	16.2	17.9	8 E	—	2*
8 9	10 6.39	+13 57.8	1.506	0.559	22.7	18.3	12 E	1*	6*
8 14	10 40.71	+12 22.3	1.520	0.615	27.2	18.7	16 E	3*	9*
8 19	11 12.80	+10 36.4	1.541	0.677	29.9	19.0	19 E	6*	12*
8 24	11 42.68	+ 8 44.4	1.570	0.743	31.2	19.3	22 E	8*	15*
8 29	12 10.45	+ 6 50.3	1.607	0.811	31.6	19.5	25 E	10*	17*
9 3	12 36.25	+ 4 57.2	1.651	0.879	31.2	19.7	27 E	11*	19*
9 8	13 0.25	+ 3 7.4	1.701	0.946	30.5	19.9	28 E	12*	20*
9 13	13 22.63	+ 1 22.5	1.757	1.012	29.4	20.1	30 E	13*	21*
9 18	13 43.56	− 0 16.5	1.818	1.077	28.1	20.3	30 E	14*	22*
9 28	14 21.67	− 3 14.5	1.948	1.202	25.2	20.6	31 E	15*	22*
10 8	14 55.69	− 5 45.2	2.087	1.321	22.3	20.9	30 E	15*	21*
10 18	15 26.51	− 7 50.2	2.230	1.433	19.3	21.1	28 E	15*	19*
10 28	15 54.79	− 9 31.7	2.371	1.540	16.4	21.3	26 E	14*	16*
11 7	16 21.03	−10 52.0	2.507	1.640	13.6	21.5	23 E	13*	12*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
459462 2013 AY_{52}									
4 11	0 11.77	− 4 15.4	1.576	0.733	29.2	21.5	21 W	—	15*
4 16	0 39.38	− 2 12.0	1.583	0.712	27.2	21.4	19 W	—	12*
4 21	1 7.03	− 0 2.2	1.595	0.699	24.8	21.3	17 W	—	10*
4 26	1 34.60	+ 2 11.5	1.612	0.692	22.1	21.2	15 W	—	8*
5 1	2 1.95	+ 4 26.5	1.634	0.692	19.4	21.1	13 W	—	6*
5 6	2 28.97	+ 6 39.8	1.659	0.699	16.6	21.1	11 W	—	4*
5 11	2 55.57	+ 8 48.6	1.687	0.714	14.1	21.1	10 W	—	2*
5 16	3 21.67	+10 50.3	1.719	0.735	11.9	21.1	9 W	—	—
5 21	3 47.19	+12 43.0	1.752	0.761	10.1	21.2	8 W	—	—
5 26	4 12.10	+14 25.1	1.788	0.791	8.6	21.2	7 E	—	—
5 31	4 36.34	+15 55.4	1.826	0.824	7.5	21.3	6 E	—	—
6 5	4 59.90	+17 13.6	1.865	0.861	6.6	21.4	6 E	—	—
297418 2000 SP_{43}									
4 11	0 15.31	− 4 50.4	0.675	0.440	126.8	21.3	21 W	—	14*
4 13	0 13.06	− 5 15.4	0.710	0.447	118.2	20.7	23 W	—	17*
4 15	0 12.18	− 5 24.6	0.748	0.457	110.4	20.4	25 W	—	19*
4 17	0 12.51	− 5 20.3	0.786	0.470	103.2	20.1	27 W	—	21*
4 19	0 13.87	− 5 5.0	0.825	0.484	96.8	20.0	29 W	—	22*
4 21	0 16.08	− 4 40.9	0.863	0.499	91.0	19.9	30 W	—	24*
4 23	0 18.99	− 4 10.0	0.900	0.516	85.9	19.9	31 W	—	25*
4 25	0 22.44	− 3 33.8	0.937	0.534	81.3	19.8	32 W	1*	26*
4 27	0 26.33	− 2 53.6	0.972	0.553	77.2	19.8	32 W	1*	26*
4 29	0 30.56	− 2 10.5	1.006	0.573	73.6	19.9	33 W	2*	27*
5 1	0 35.05	− 1 25.2	1.038	0.592	70.4	19.9	34 W	2*	28*
5 6	0 47.04	+ 0 33.4	1.112	0.643	63.7	20.0	35 W	4*	29*
5 11	0 59.66	+ 2 34.8	1.177	0.693	58.8	20.2	36 W	5*	30*
5 16	1 12.57	+ 4 35.5	1.233	0.742	55.0	20.3	37 W	7*	31*
5 21	1 25.59	+ 6 33.5	1.282	0.788	52.2	20.4	38 W	8*	31*
5 31	1 51.62	+10 17.8	1.356	0.875	48.4	20.7	40 W	11*	33*
6 10	2 17.56	+13 44.7	1.405	0.951	46.2	20.9	43 W	15*	33*
6 20	2 43.53	+16 54.4	1.432	1.016	45.2	21.0	45 W	20*	34*
6 30	3 9.72	+19 47.5	1.439	1.071	44.9	21.2	48 W	25*	34*
7 10	3 36.37	+22 24.7	1.430	1.115	45.0	21.2	51 W	30*	33*
7 20	4 3.77	+24 46.3	1.404	1.149	45.6	21.3	54 W	35*	32*
7 30	4 32.16	+26 52.1	1.366	1.172	46.4	21.3	57 W	41*	31*
8 9	5 1.89	+28 41.4	1.316	1.186	47.5	21.3	60 W	46*	30*
8 19	5 33.33	+30 12.4	1.256	1.190	48.8	21.2	62 W	50*	29*
8 29	6 6.87	+31 22.1	1.188	1.185	50.4	21.1	65 W	54*	27*
9 8	6 43.04	+32 5.4	1.115	1.169	52.3	21.0	67 W	58*	26*
9 18	7 22.37	+32 14.8	1.039	1.144	54.6	20.9	68 W	60*	25*
9 28	8 5.35	+31 38.3	0.962	1.108	57.4	20.7	69 W	61*	24*
10 8	8 52.39	+29 59.5	0.889	1.062	60.8	20.5	68 W	61*	23*
10 18	9 43.56	+26 57.1	0.825	1.006	65.1	20.4	66 W	59*	22*
10 23	10 10.54	+24 47.7	0.798	0.974	67.5	20.3	65 W	57*	22*
10 28	10 38.30	+22 9.8	0.775	0.939	70.1	20.3	63 W	55*	21*
11 2	11 6.69	+19 2.4	0.758	0.901	72.9	20.2	60 W	52*	21*
11 7	11 35.57	+15 26.3	0.748	0.861	75.7	20.2	57 W	49*	21*
11 12	12 4.78	+11 24.3	0.746	0.818	78.4	20.2	54 W	45*	21*
11 17	12 34.19	+ 7 1.6	0.753	0.773	80.8	20.1	50 W	41*	21*
11 22	13 3.77	+ 2 25.4	0.770	0.725	82.6	20.1	47 W	37*	20*
11 27	13 33.56	− 2 16.1	0.798	0.676	83.6	20.1	43 W	32*	20*
12 2	14 3.77	− 6 54.4	0.838	0.625	83.3	20.0	39 W	28*	20*
12 7	14 34.71	−11 21.5	0.890	0.576	81.5	19.9	35 W	23*	19*
12 12	15 6.82	−15 29.6	0.953	0.528	77.5	19.7	32 W	18*	18*
12 17	15 40.63	−19 11.2	1.026	0.486	71.2	19.5	28 W	14*	17*
12 22	16 16.56	−22 17.9	1.107	0.453	62.5	19.2	24 W	10*	15*
12 27	16 54.65	−24 40.0	1.192	0.435	51.7	19.0	20 W	6*	13*
1 1	17 34.24	−26 9.3	1.276	0.435	40.0	18.8	17 W	2*	10*
1 6	18 14.00	−26 42.5	1.354	0.452	29.0	18.7	13 W	—	7*
1 8	18 29.61	−26 40.8	1.383	0.463	25.1	18.7	12 W	—	5*
1 10	18 44.92	−26 31.3	1.411	0.476	21.5	18.7	10 W	—	4*
1 12	18 59.86	−26 14.6	1.438	0.491	18.2	18.7	9 W	—	3*
1 14	19 14.39	−25 51.5	1.464	0.508	15.3	18.7	8 W	—	2*
1 16	19 28.46	−25 22.6	1.489	0.525	12.8	18.7	7 W	—	1*
477588 2010 JD_{87}									
4 11	1 10.05	+16 59.4	1.927	0.950	9.4	21.3	9 W	2*	—
4 16	1 29.01	+19 15.4	1.865	0.890	10.6	21.2	9 W	2*	—
4 21	1 49.87	+21 31.5	1.803	0.830	11.9	21.0	10 W	2*	—
4 26	2 12.95	+23 44.4	1.740	0.771	13.4	20.8	10 W	2*	—
5 1	2 38.62	+25 49.1	1.676	0.712	15.4	20.6	11 E	3*	—
5 6	3 7.19	+27 38.7	1.612	0.656	18.0	20.5	12 E	5*	—
5 11	3 38.84	+29 3.7	1.548	0.606	21.6	20.3	13 E	7*	—
5 13	3 52.36	+29 28.3	1.523	0.587	23.4	20.3	13 E	7*	—
5 15	4 6.32	+29 46.3	1.497	0.571	25.3	20.2	14 E	8*	—
5 17	4 20.70	+29 56.9	1.471	0.556	27.5	20.2	15 E	9*	—
5 19	4 35.43	+29 59.4	1.445	0.543	30.0	20.2	16 E	9*	—

477588 2010 JD_{87} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 21	4 50.44	+29 53.0	1.419	0.532	32.6	20.2	16 E	10*	1*
5 23	5 5.64	+29 37.3	1.393	0.523	35.4	20.2	17 E	11*	3*
5 25	5 20.95	+29 11.8	1.367	0.518	38.3	20.2	18 E	11*	4*
5 27	5 36.26	+28 36.3	1.342	0.515	41.3	20.2	20 E	11*	6*
5 29	5 51.48	+27 51.0	1.316	0.515	44.3	20.3	21 E	12*	8*
5 31	6 6.53	+26 55.9	1.292	0.517	47.2	20.3	22 E	12*	10*
6 5	6 42.92	+23 59.6	1.233	0.536	54.0	20.5	25 E	12*	15*
6 10	7 17.08	+20 16.8	1.181	0.569	59.2	20.7	29 E	11*	20*
6 15	7 48.93	+16 0.5	1.139	0.614	62.7	20.9	32 E	9*	25*
6 20	8 18.72	+11 23.2	1.107	0.666	64.4	21.0	36 E	8*	29*
6 25	8 46.81	+ 6 35.7	1.087	0.722	64.7	21.2	40 E	6*	34*
6 30	9 13.55	+ 1 47.4	1.079	0.781	64.0	21.3	44 E	4*	38*
7 5	9 39.23	− 2 53.8	1.081	0.840	62.4	21.4	47 E	1*	41*

282347 2003 AZ_{22}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	1 23.31	+26 3.8	3.996	3.057	5.7	21.5	18 E	8*	—
4 21	1 38.33	+27 26.2	4.003	3.050	5.2	21.5	16 W	8*	—
5 1	1 53.59	+28 48.9	3.994	3.042	5.4	21.5	17 W	10*	—
5 11	2 9.07	+30 11.3	3.971	3.033	6.2	21.5	19 W	13*	1*
5 21	2 24.75	+31 32.9	3.932	3.023	7.4	21.5	23 W	15*	5*

3688 Navajo

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	1 25.63	+ 9 8.0	4.730	3.728	0.5	21.4	2 E	—	—
4 21	1 36.81	+10 15.6	4.691	3.690	1.3	21.5	5 W	—	—
5 1	1 48.18	+11 22.6	4.633	3.652	3.2	21.6	12 W	—	6*
5 11	1 59.69	+12 28.4	4.558	3.613	5.0	21.6	18 W	2*	12*
5 21	2 11.30	+13 32.5	4.465	3.573	6.9	21.6	25 W	5*	18*

468468 2004 KH_{17}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	1 32.73	+ 4 32.8	1.366	0.378	13.7	21.3	5 E	—	—
4 13	1 47.03	+ 6 47.6	1.352	0.367	15.6	21.2	6 E	—	—
4 15	2 1.44	+ 9 6.1	1.335	0.360	19.7	21.3	7 E	—	—
4 17	2 15.92	+11 27.1	1.316	0.357	25.0	21.4	9 E	1*	1*
4 19	2 30.42	+13 48.6	1.295	0.359	31.0	21.6	11 E	3*	2*

73575 4789 *P–L*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	1 35.37	+ 9 58.6	3.072	2.074	2.1	21.5	4 E	—	—
4 21	1 55.69	+11 55.3	3.114	2.109	0.0	21.3	0 W	—	—
5 1	2 15.81	+13 44.0	3.146	2.143	2.1	21.6	4 W	—	—
5 11	2 35.73	+15 24.1	3.168	2.176	4.2	21.8	9 W	—	3*
5 21	2 55.46	+16 55.3	3.180	2.210	6.2	21.9	14 W	—	7*

413260 2003 TL_4

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	2 0.53	+11 50.2	1.890	0.926	11.8	21.3	11 E	4*	2*
4 21	2 38.22	+13 58.8	1.835	0.867	12.3	21.1	11 E	3*	2*
5 1	3 18.88	+15 51.3	1.765	0.799	13.9	20.9	11 E	2*	3*
5 11	4 3.24	+17 21.2	1.679	0.723	17.1	20.7	12 E	2*	5*
5 21	4 52.00	+18 21.2	1.574	0.643	22.9	20.5	14 E	2*	7*
5 31	5 45.52	+18 44.4	1.445	0.566	32.5	20.3	17 E	3*	11*
6 5	6 13.94	+18 41.7	1.371	0.533	39.1	20.3	19 E	3*	12*
6 10	6 43.20	+18 30.7	1.289	0.506	47.2	20.3	21 E	4*	14*
6 15	7 12.94	+18 14.4	1.200	0.487	56.5	20.3	24 E	5*	16*
6 20	7 42.71	+17 57.1	1.106	0.480	66.7	20.4	26 E	6*	18*
6 25	8 12.05	+17 43.9	1.009	0.486	77.0	20.5	28 E	7*	20*
6 30	8 40.69	+17 39.4	0.914	0.502	86.6	20.8	30 E	9*	22*
7 5	9 8.61	+17 46.6	0.823	0.528	95.1	21.0	31 E	11*	23*
7 10	9 36.06	+18 6.2	0.740	0.561	102.0	21.2	33 E	13*	24*
7 15	10 3.45	+18 37.0	0.664	0.598	107.2	21.4	34 E	15*	24*

332408 2007 MM_{13}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	2 8.72	+20 46.2	2.487	1.560	11.1	21.4	17 E	11*	—
4 21	2 33.96	+20 58.3	2.447	1.484	8.7	21.2	13 E	7*	—
5 1	3 0.59	+21 0.4	2.392	1.404	6.3	20.9	9 E	3*	—
5 11	3 28.82	+20 48.4	2.323	1.320	3.7	20.6	5 E	—	—
5 21	3 58.94	+20 17.8	2.241	1.230	1.4	20.2	2 E	—	—
5 26	4 14.81	+19 53.9	2.196	1.184	1.2	20.0	1 E	—	—
5 31	4 31.28	+19 23.2	2.148	1.136	2.3	20.0	3 W	—	—
6 5	4 48.39	+18 45.1	2.097	1.087	3.7	19.9	4 W	—	—
6 10	5 6.22	+17 58.6	2.045	1.038	5.2	19.9	5 W	—	—
6 15	5 24.83	+17 3.1	1.990	0.988	6.8	19.8	7 W	—	—
6 20	5 44.30	+15 57.7	1.934	0.938	8.5	19.7	8 W	—	—
6 25	6 4.71	+14 41.7	1.877	0.888	10.4	19.6	9 W	—	—
6 30	6 26.16	+13 14.8	1.820	0.839	12.4	19.5	10 W	—	1*
7 10	7 12.63	+ 9 48.1	1.704	0.745	17.2	19.2	12 W	—	1*
7 20	8 4.64	+ 5 45.4	1.594	0.666	23.2	19.0	15 E	—	2*
7 30	9 2.79	+ 1 31.1	1.494	0.616	30.8	18.9	18 E	—	7*

332408 2007 MM_{13} *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
8 4	9 34.02	− 0 27.4	1.451	0.606	34.8	19.0	20 E	—	10*
8 9	10 6.37	− 2 12.6	1.415	0.607	38.6	19.0	22 E	—	13*
8 14	10 39.43	− 3 40.0	1.386	0.619	41.9	19.1	24 E	—	16*
8 19	11 12.69	− 4 47.1	1.365	0.642	44.4	19.2	26 E	—	19*
8 24	11 45.64	− 5 34.0	1.355	0.673	46.0	19.3	29 E	—	22*
8 29	12 17.81	− 6 2.2	1.353	0.710	46.8	19.5	31 E	2*	25*
9 3	12 48.83	− 6 14.7	1.361	0.753	46.8	19.6	33 E	5*	27*
9 8	13 18.45	− 6 14.8	1.378	0.799	46.3	19.8	35 E	8*	29*
9 13	13 46.56	− 6 5.6	1.402	0.848	45.3	19.9	37 E	12*	30*
9 18	14 13.10	− 5 49.9	1.433	0.897	44.0	20.0	38 E	14*	31*
9 23	14 38.11	− 5 29.9	1.470	0.947	42.6	20.2	40 E	17*	32*
9 28	15 1.67	− 5 7.0	1.511	0.997	41.0	20.3	41 E	20*	32*
10 3	15 23.88	− 4 42.4	1.556	1.047	39.5	20.4	42 E	22*	32*
10 8	15 44.86	− 4 16.8	1.604	1.096	37.9	20.5	42 E	24*	31*
10 13	16 4.74	− 3 50.5	1.654	1.145	36.3	20.7	43 E	25*	31*
10 18	16 23.63	− 3 23.9	1.706	1.192	34.8	20.8	43 E	27*	30*
10 23	16 41.64	− 2 56.8	1.760	1.238	33.3	20.9	43 E	28*	28*
10 28	16 58.86	− 2 29.1	1.815	1.284	31.9	21.0	43 E	29*	27*
11 2	17 15.37	− 2 0.9	1.870	1.328	30.6	21.1	43 E	30*	25*
11 7	17 31.26	− 1 32.0	1.926	1.370	29.3	21.2	43 E	31*	23*
11 12	17 46.58	− 1 2.1	1.982	1.412	28.0	21.3	42 E	31*	21*
11 17	18 1.40	− 0 31.2	2.037	1.452	26.8	21.4	41 E	32*	19*
11 22	18 15.76	+ 0 0.9	2.092	1.491	25.6	21.4	41 E	32*	17*

250458 2004 BO_{41}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	2 37.28	+39 41.7	2.117	1.433	24.3	21.4	36 E	28*	—
4 21	3 10.97	+40 52.5	2.120	1.396	23.3	21.4	33 E	26*	—
5 1	3 46.58	+41 37.9	2.114	1.352	22.5	21.3	31 E	24*	—
5 11	4 23.90	+41 51.9	2.097	1.301	21.7	21.1	28 E	22*	—
5 21	5 2.59	+41 28.1	2.070	1.243	20.9	21.0	26 E	20*	—
5 31	5 42.12	+40 20.4	2.034	1.178	20.2	20.8	24 E	18*	—
6 10	6 21.85	+38 23.3	1.989	1.105	19.4	20.6	21 E	15*	—
6 20	7 1.24	+35 31.5	1.934	1.025	18.6	20.3	19 E	12*	1*
6 25	7 20.66	+33 43.7	1.903	0.983	18.2	20.2	18 E	11*	1*
6 30	7 39.84	+31 40.4	1.869	0.939	17.8	20.0	16 E	9*	2*
7 5	7 58.77	+29 21.1	1.832	0.893	17.5	19.9	15 E	8*	3*
7 10	8 17.46	+26 45.2	1.793	0.846	17.3	19.7	14 E	6*	4*
7 15	8 35.92	+23 51.9	1.750	0.798	17.4	19.5	14 E	4*	5*
7 20	8 54.22	+20 40.7	1.703	0.750	17.9	19.4	13 E	2*	6*
7 25	9 12.42	+17 11.1	1.652	0.702	19.2	19.2	13 E	—	7*
7 30	9 30.61	+13 22.9	1.596	0.656	21.5	19.0	14 E	—	8*
8 9	10 7.50	+ 4 53.0	1.466	0.574	30.5	18.8	17 E	—	10*
8 19	10 46.55	− 4 29.9	1.307	0.524	45.6	18.8	22 E	—	13*
8 29	11 30.65	−13 54.8	1.126	0.523	63.7	19.0	28 E	—	17*
8 31	11 40.47	−15 41.8	1.089	0.529	67.2	19.1	29 E	—	18*
9 2	11 50.75	−17 25.4	1.052	0.537	70.5	19.1	30 E	—	19*
9 4	12 1.53	−19 5.1	1.016	0.547	73.6	19.2	31 E	—	21*
9 6	12 12.87	−20 40.3	0.981	0.558	76.4	19.3	33 E	—	22*
9 8	12 24.84	−22 10.4	0.947	0.571	79.0	19.3	34 E	—	23*
9 10	12 37.48	−23 34.7	0.914	0.585	81.2	19.4	35 E	—	24*
9 12	12 50.84	−24 52.7	0.882	0.601	83.2	19.4	36 E	—	26*
9 14	13 4.96	−26 3.4	0.852	0.617	84.8	19.5	38 E	—	27*
9 16	13 19.86	−27 6.2	0.824	0.634	86.1	19.5	39 E	—	29*
9 18	13 35.55	−28 0.0	0.798	0.652	87.1	19.5	40 E	—	31*
9 20	13 52.01	−28 43.8	0.775	0.670	87.8	19.6	42 E	—	32*
9 22	14 9.16	−29 16.8	0.753	0.688	88.1	19.6	43 E	—	34*
9 24	14 26.94	−29 38.1	0.734	0.707	88.2	19.6	45 E	—	36*
9 26	14 45.22	−29 46.9	0.718	0.726	87.9	19.6	46 E	—	38*
9 28	15 3.85	−29 42.8	0.704	0.745	87.4	19.6	48 E	—	41*
9 30	15 22.65	−29 25.7	0.693	0.765	86.6	19.6	50 E	2*	43*
10 2	15 41.45	−28 55.7	0.685	0.784	85.6	19.6	51 E	4*	45*
10 4	16 0.07	−28 13.5	0.679	0.803	84.5	19.5	53 E	6*	47*
10 6	16 18.32	−27 20.0	0.676	0.822	83.1	19.5	55 E	9*	49*
10 8	16 36.06	−26 16.7	0.675	0.842	81.6	19.5	56 E	11*	50*
10 10	16 53.18	−25 4.9	0.677	0.861	80.0	19.5	58 E	13*	52*
10 12	17 9.59	−23 46.5	0.682	0.879	78.4	19.5	60 E	16*	53*
10 14	17 25.23	−22 22.9	0.688	0.898	76.7	19.5	61 E	18*	55*
10 16	17 40.08	−20 55.8	0.697	0.916	74.9	19.5	63 E	20*	56*
10 18	17 54.13	−19 26.6	0.708	0.934	73.2	19.6	64 E	22*	56*
10 20	18 7.41	−17 56.5	0.721	0.952	71.5	19.6	65 E	24*	57*
10 22	18 19.93	−16 26.7	0.735	0.970	69.9	19.6	66 E	26*	57*
10 24	18 31.74	−14 57.9	0.751	0.987	68.3	19.7	67 E	28*	57*
10 26	18 42.89	−13 30.8	0.768	1.005	66.7	19.7	68 E	30*	57*
10 28	18 53.42	−12 5.8	0.786	1.022	65.2	19.7	69 E	31*	56*
11 2	19 17.34	− 8 45.0	0.836	1.063	61.7	19.8	70 E	35*	55*
11 7	19 38.39	− 5 42.0	0.891	1.102	58.5	20.0	71 E	39*	53*
11 12	19 57.20	− 2 56.6	0.949	1.139	55.7	20.1	72 E	41*	50*
11 17	20 14.25	− 0 27.1	1.009	1.175	53.2	20.2	72 E	44*	47*
11 22	20 29.94	+ 1 48.8	1.071	1.208	50.9	20.3	72 E	46*	44*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
250458 2004 BO_{41} *(continuation)*									
11 27	20 44.56	+ 3 53.1	1.133	1.240	48.9	20.5	71 E	48*	41*
12 2	20 58.33	+ 5 47.7	1.195	1.270	47.0	20.6	70 E	50*	38*
12 7	21 11.45	+ 7 34.4	1.257	1.298	45.3	20.7	70 E	51*	35*
12 12	21 24.07	+ 9 14.5	1.318	1.325	43.7	20.8	68 E	53*	32*
12 17	21 36.31	+10 49.5	1.379	1.350	42.3	20.9	67 E	53*	29*
12 22	21 48.26	+12 20.3	1.438	1.373	40.9	21.0	66 E	54*	26*
12 27	21 59.98	+13 47.7	1.495	1.394	39.6	21.1	65 E	54*	23*
1 1	22 11.53	+15 12.4	1.551	1.413	38.4	21.1	63 E	54*	20*
1 6	22 22.99	+16 34.8	1.605	1.431	37.2	21.2	62 E	54*	18*
1 11	22 34.38	+17 55.5	1.657	1.447	36.1	21.3	60 E	53*	15*
1 16	22 45.76	+19 14.8	1.707	1.462	35.1	21.3	59 E	52*	13*
285179 1996 TY_{11}									
4 11	3 31.66	+27 18.2	1.397	0.843	45.3	21.4	37 E	30*	12*
4 16	3 49.97	+28 20.0	1.343	0.795	48.0	21.2	36 E	29*	12*
4 21	4 9.46	+29 12.5	1.282	0.747	51.5	21.1	36 E	28*	12*
4 26	4 30.10	+29 52.2	1.215	0.702	55.9	21.0	35 E	28*	12*
5 1	4 51.71	+30 14.9	1.141	0.661	61.3	20.9	35 E	27*	13*
5 6	5 14.00	+30 15.5	1.062	0.625	67.9	20.8	35 E	27*	14*
5 11	5 36.43	+29 48.5	0.976	0.596	75.7	20.8	35 E	26*	15*
5 16	5 58.29	+28 48.5	0.887	0.578	84.5	20.8	35 E	24*	17*
5 21	6 18.73	+27 10.5	0.796	0.571	94.1	20.9	34 E	22*	18*
5 26	6 36.94	+24 50.2	0.707	0.576	103.9	21.2	33 E	19*	20*
202683 2006 US_{216}									
4 11	3 43.75	+17 44.5	1.084	0.658	65.0	21.4	36 E	26*	20*
4 16	3 53.96	+18 29.0	1.028	0.596	70.7	21.2	34 E	23*	19*
4 21	4 1.68	+19 8.3	0.960	0.529	79.1	21.1	31 E	21*	17*
4 26	4 4.65	+19 39.8	0.883	0.458	91.7	21.1	27 E	17*	14*
5 1	3 58.54	+19 55.7	0.801	0.385	111.6	21.5	21 E	11*	10*
497025 2003 QW_{30}									
4 11	4 47.77	+43 15.5	0.221	0.902	110.8	21.1	57 E	51*	11*
4 12	4 57.27	+44 49.1	0.219	0.908	109.6	21.0	59 E	53*	11*
4 13	5 7.43	+46 21.4	0.216	0.914	108.3	20.9	60 E	54*	10*
4 14	5 18.28	+47 51.5	0.214	0.920	106.9	20.9	61 E	55*	10*
4 15	5 29.88	+49 18.9	0.212	0.926	105.5	20.8	63 E	57*	9*
4 16	5 42.25	+50 42.6	0.210	0.931	104.1	20.7	64 E	58*	9*
4 17	5 55.42	+52 1.9	0.209	0.937	102.6	20.6	66 E	59*	8*
4 18	6 9.40	+53 15.8	0.208	0.943	101.0	20.5	67 E	61*	8*
4 19	6 24.17	+54 23.5	0.208	0.949	99.5	20.5	69 E	62*	7*
4 20	6 39.69	+55 24.2	0.207	0.955	97.9	20.4	70 E	63*	7*
4 21	6 55.90	+56 17.1	0.208	0.961	96.3	20.4	72 E	65*	7*
4 22	7 12.68	+57 1.5	0.208	0.967	94.7	20.3	73 E	66*	6*
4 23	7 29.92	+57 37.1	0.209	0.973	93.0	20.2	75 E	68*	6*
4 24	7 47.43	+58 3.4	0.210	0.978	91.4	20.2	77 E	69*	6*
4 25	8 5.06	+58 20.4	0.211	0.984	89.8	20.2	78 E	70*	6*
4 26	8 22.60	+58 28.2	0.213	0.990	88.2	20.1	80 E	71*	6
4 27	8 39.89	+58 27.2	0.215	0.996	86.7	20.1	81 E	73*	6
4 28	8 56.75	+58 17.7	0.217	1.002	85.1	20.1	82 E	74*	6
4 29	9 13.05	+58 0.5	0.219	1.008	83.6	20.0	84 E	75*	6
4 30	9 28.68	+57 36.3	0.222	1.013	82.2	20.0	85 E	76*	6
5 1	9 43.55	+57 5.9	0.225	1.019	80.8	20.0	87 E	77*	7
5 2	9 57.62	+56 30.1	0.228	1.025	79.4	20.0	88 E	78*	7
5 3	10 10.87	+55 49.6	0.231	1.030	78.0	20.0	89 E	79*	8
5 4	10 23.31	+55 5.3	0.235	1.036	76.7	20.0	90 E	80*	9
5 5	10 34.94	+54 17.8	0.238	1.042	75.5	20.0	91 E	81	10
5 6	10 45.81	+53 27.7	0.242	1.047	74.2	20.0	92 E	82	11
5 7	10 55.95	+52 35.7	0.246	1.053	73.1	20.0	93 E	82	11
5 8	11 5.42	+51 42.1	0.251	1.058	71.9	20.0	94 E	83	12
5 9	11 14.24	+50 47.5	0.255	1.064	70.9	20.1	95 E	84	13
5 10	11 22.48	+49 52.1	0.260	1.069	69.8	20.1	96 E	85	14
5 11	11 30.18	+48 56.3	0.264	1.075	68.8	20.1	97 E	86	15
5 12	11 37.39	+48 0.3	0.269	1.080	67.9	20.1	98 E	87	16
5 13	11 44.14	+47 4.3	0.274	1.086	67.0	20.1	99 E	88	17
5 14	11 50.47	+46 8.5	0.279	1.091	66.1	20.1	99 E	89	18
5 15	11 56.42	+45 13.1	0.284	1.096	65.3	20.2	100 E	90	19
5 16	12 2.03	+44 18.1	0.289	1.102	64.5	20.2	101 E	89	20
5 17	12 7.32	+43 23.7	0.295	1.107	63.7	20.2	101 E	88	21
5 18	12 12.33	+42 29.8	0.300	1.112	63.0	20.3	102 E	87	22
5 19	12 17.07	+41 36.7	0.306	1.117	62.3	20.3	102 E	87	22
5 20	12 21.56	+40 44.2	0.312	1.122	61.6	20.3	103 E	86	23
5 21	12 25.84	+39 52.5	0.317	1.128	60.9	20.3	103 E	85	24
5 23	12 33.81	+38 11.3	0.329	1.138	59.8	20.4	104 E	83	26
5 25	12 41.11	+36 33.2	0.341	1.147	58.7	20.5	105 E	82	27
5 27	12 47.83	+34 58.2	0.354	1.157	57.7	20.5	105 E	80	29
5 29	12 54.07	+33 26.2	0.366	1.167	56.8	20.6	106 E	78	31
5 31	12 59.90	+31 57.2	0.379	1.176	56.0	20.7	106 E	77	32
6 5	13 13.06	+28 26.7	0.413	1.199	54.2	20.9	106 E	73*	36
6 10	13 24.72	+25 11.9	0.448	1.221	52.9	21.0	107 E	70*	39

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
497025 2003 QW_{30} *(continuation)*									
6 15	13 35.36	+22 10.5	0.484	1.241	51.8	21.2	106 E	67*	42
6 20	13 45.32	+19 20.7	0.521	1.260	50.9	21.4	106 E	63*	45
419624 2010 SO_{16}									
4 11	5 51.07	+46 16.3	0.402	0.936	87.5	21.5	69 E	63*	14*
4 16	6 20.71	+44 25.8	0.386	0.939	88.1	21.4	69 E	63*	17*
4 21	6 49.31	+41 55.5	0.371	0.943	88.6	21.3	70 E	63*	20*
4 26	7 16.47	+38 46.2	0.357	0.948	88.9	21.3	70 E	62*	24*
5 1	7 41.92	+34 59.9	0.345	0.953	89.0	21.2	71 E	60*	28*
5 6	8 5.55	+30 40.4	0.334	0.958	88.9	21.2	72 E	57*	32*
5 11	8 27.37	+25 52.4	0.326	0.964	88.7	21.1	73 E	53*	37*
5 16	8 47.53	+20 42.3	0.320	0.969	88.2	21.1	73 E	48*	43*
5 21	9 6.23	+15 17.0	0.316	0.976	87.5	21.0	74 E	43*	48*
5 26	9 23.69	+ 9 43.9	0.315	0.982	86.6	21.0	75 E	38*	53*
5 31	9 40.12	+ 4 10.3	0.316	0.988	85.5	21.0	76 E	32*	59*
6 5	9 55.69	− 1 17.6	0.320	0.995	84.4	21.0	77 E	26*	64*
6 10	10 10.59	− 6 34.4	0.325	1.001	83.2	21.0	78 E	21*	68*
6 15	10 25.05	−11 36.4	0.332	1.008	81.9	21.0	79 E	16*	71*
6 20	10 39.25	−16 21.4	0.340	1.014	80.7	21.0	80 E	11*	74*
6 25	10 53.38	−20 48.6	0.350	1.020	79.5	21.0	81 E	6*	75*
6 30	11 7.59	−24 57.9	0.360	1.026	78.3	21.1	81 E	2*	74*
7 5	11 22.03	−28 49.6	0.370	1.032	77.2	21.1	82 E	—	73*
7 10	11 36.86	−32 24.1	0.380	1.038	76.2	21.1	83 E	—	71*
7 15	11 52.26	−35 42.3	0.391	1.044	75.2	21.2	83 E	—	68*
7 20	12 8.41	−38 45.2	0.401	1.049	74.3	21.2	83 E	—	66*
7 25	12 25.50	−41 33.5	0.411	1.053	73.4	21.3	84 E	—	64*
7 30	12 43.67	−44 7.7	0.421	1.058	72.6	21.3	84 E	—	62*
8 4	13 3.08	−46 27.5	0.430	1.062	71.9	21.3	84 E	—	61*
8 9	13 23.86	−48 32.5	0.438	1.066	71.3	21.3	85 E	—	59*
8 14	13 46.16	−50 21.9	0.446	1.069	70.7	21.4	85 E	—	58*
8 19	14 10.07	−51 54.7	0.454	1.072	70.2	21.4	85 E	—	57*
8 24	14 35.58	−53 9.6	0.461	1.074	69.7	21.4	85 E	—	57*
8 29	15 2.55	−54 5.1	0.467	1.076	69.3	21.4	85 E	—	57*
9 3	15 30.74	−54 39.4	0.473	1.077	68.9	21.5	85 E	—	57*
9 8	15 59.77	−54 51.0	0.478	1.078	68.6	21.5	85 E	—	57*
9 13	16 29.21	−54 38.7	0.483	1.079	68.3	21.5	85 E	—	58*
523805 2001 QA_{143}									
4 11	14 7.04	−23 6.9	2.347	3.311	5.6	24.8	161 W	22	87
4 16	14 1.97	−22 45.8	2.335	3.317	4.2	24.7	166 W	22	87
4 21	13 56.80	−22 21.6	2.330	3.323	3.2	24.7	169 W	23	86
4 26	13 51.67	−21 54.9	2.333	3.329	3.0	24.7	170 E	23	86
5 1	13 46.66	−21 26.2	2.344	3.334	3.8	24.7	167 E	24	85
5 6	13 41.91	−20 56.4	2.362	3.339	5.2	24.8	163 E	24	85
5 11	13 37.48	−20 26.0	2.388	3.343	6.6	24.9	158 E	25	84
500912 2013 OL_5									
4 11	14 7.52	−31 33.4	2.433	3.363	7.5	23.3	154 W	13	84
4 16	14 2.73	−31 16.0	2.402	3.354	6.4	23.2	158 W	14	85
4 21	13 57.78	−30 53.8	2.378	3.344	5.6	23.2	161 W	14	85
4 26	13 52.77	−30 27.1	2.361	3.333	5.3	23.1	162 E	15	86
5 1	13 47.83	−29 56.4	2.351	3.323	5.4	23.1	162 E	15	86
5 6	13 43.07	−29 22.3	2.348	3.312	6.1	23.1	159 E	16	87
5 11	13 38.59	−28 45.6	2.353	3.301	7.2	23.2	156 E	16	87
498664 2008 SZ_{136}									
4 11	14 10.90	−13 49.9	2.905	3.885	3.6	23.5	166 W	31	78
4 21	14 3.15	−13 3.6	2.875	3.880	0.6	23.2	178 W	32	77
5 1	13 55.29	−12 15.2	2.877	3.874	2.5	23.4	170 E	33	76
5 11	13 47.95	−11 28.4	2.909	3.868	5.5	23.6	159 E	34	75
5 21	13 41.63	−10 46.5	2.970	3.860	8.1	23.8	147 E	34	75
499490 2010 MW									
4 11	14 12.07	−32 13.6	1.826	2.757	9.5	23.0	153 W	13	84
4 16	14 6.66	−31 39.9	1.783	2.737	8.1	22.9	157 W	13	84
4 21	14 0.94	−30 58.7	1.747	2.717	7.0	22.8	161 W	14	85
4 26	13 55.07	−30 10.3	1.719	2.696	6.4	22.7	163 E	15	86
5 1	13 49.22	−29 15.5	1.697	2.675	6.5	22.7	163 E	16	87
5 6	13 43.56	−28 15.3	1.682	2.654	7.4	22.7	160 E	17	88
5 11	13 38.24	−27 11.0	1.675	2.632	8.8	22.7	156 E	18	89
523595 2002 OS_4									
4 11	14 15.78	−52 54.3	1.993	2.783	15.0	22.9	134 W	—	63
4 16	14 7.88	−52 49.6	1.961	2.779	14.3	22.8	137 W	—	63
4 21	13 59.61	−52 34.3	1.935	2.775	13.7	22.7	139 W	—	63
4 26	13 51.25	−52 8.2	1.915	2.771	13.2	22.7	141 E	—	64
5 1	13 43.07	−51 31.7	1.900	2.766	12.9	22.7	142 E	—	64
5 6	13 35.33	−50 45.4	1.892	2.761	12.9	22.6	142 E	—	65
5 11	13 28.22	−49 50.5	1.889	2.755	13.1	22.6	142 E	—	66

418929 2009 DM_1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	14 18.28	− 8 30.1	3.088	4.065	3.6	22.8	165 W	36	73
4 21	14 10.40	− 7 30.7	3.099	4.100	1.4	22.7	174 W	37	72
5 1	14 2.55	− 6 34.1	3.142	4.134	2.8	22.9	169 E	38	71
5 11	13 55.29	− 5 43.8	3.216	4.167	5.3	23.1	158 E	39	70
5 21	13 49.05	− 5 2.2	3.318	4.200	7.6	23.3	147 E	40	69

466084 2012 BK_{24}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 19.11	− 8 27.3	2.035	3.014	4.9	22.5	165 W	37	72
4 21	14 9.66	− 7 34.0	2.033	3.035	1.8	22.3	175 W	37	72
5 1	14 0.18	− 6 44.0	2.061	3.054	3.8	22.5	168 E	38	71
5 11	13 51.53	− 6 2.2	2.118	3.073	7.4	22.7	157 E	39	70
5 21	13 44.41	− 5 31.7	2.200	3.090	10.6	22.9	146 E	39	70

483504 2002 XN_{14}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 20.96	+ 3 30.2	1.549	2.516	7.6	23.7	160 W	49	60
4 16	14 14.61	+ 3 59.7	1.544	2.521	6.6	23.7	163 W	49	60
4 21	14 8.08	+ 4 25.5	1.546	2.526	6.5	23.7	163 W	49	60
4 26	14 1.53	+ 4 46.6	1.556	2.530	7.3	23.7	161 E	50	59
5 1	13 55.15	+ 5 2.4	1.573	2.534	8.7	23.8	158 E	50	59
5 6	13 49.08	+ 5 12.5	1.596	2.537	10.3	23.9	153 E	50	59
5 11	13 43.47	+ 5 16.9	1.626	2.540	12.1	24.0	148 E	50	59

162741 2000 WG_6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 21.95	− 5 23.7	2.501	3.475	4.5	22.4	164 W	40	69
4 21	14 12.52	− 4 46.5	2.477	3.475	2.4	22.2	172 W	40	69
5 1	14 2.85	− 4 13.4	2.485	3.473	3.8	22.3	167 E	41	68
5 11	13 53.72	− 3 47.8	2.523	3.471	6.7	22.5	156 E	41	68
5 21	13 45.74	− 3 32.1	2.588	3.467	9.6	22.7	145 E	41	68

450142 1998 XN_2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 24.02	−16 9.9	2.046	3.016	5.8	24.3	162 W	29	80
4 21	14 13.09	−15 14.5	1.998	3.000	1.8	24.0	175 W	30	79
5 1	14 1.64	−14 12.1	1.981	2.982	2.6	24.0	172 E	31	78
5 11	13 50.73	−13 8.6	1.994	2.963	6.8	24.3	160 E	32	77
5 21	13 41.26	−12 9.8	2.036	2.942	10.6	24.5	148 E	33	76

496164 2010 WL_{40}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 24.37	−22 16.5	1.703	2.663	7.8	22.2	159 W	23	86
4 16	14 19.71	−21 57.0	1.669	2.649	5.9	22.1	164 W	23	86
4 21	14 14.70	−21 33.2	1.641	2.635	4.1	21.9	169 W	23	86
4 26	14 9.48	−21 5.7	1.620	2.621	2.9	21.8	172 E	24	85
5 1	14 4.22	−20 35.1	1.606	2.607	3.4	21.8	171 E	24	85
5 6	13 59.05	−20 2.1	1.600	2.592	5.1	21.9	167 E	25	84
5 11	13 54.14	−19 27.6	1.600	2.577	7.2	22.0	161 E	26	83
5 16	13 49.60	−18 52.8	1.606	2.562	9.3	22.1	156 E	26	83
5 21	13 45.55	−18 18.4	1.619	2.547	11.4	22.2	150 E	27	82

497483 2005 YE_{277}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 25.12	−18 43.5	2.537	3.499	5.4	22.5	161 W	26	83
4 21	14 16.80	−18 0.2	2.492	3.490	2.3	22.3	172 W	27	82
5 1	14 8.11	−17 10.3	2.478	3.481	1.9	22.2	174 E	28	81
5 11	13 59.80	−16 17.7	2.494	3.471	5.0	22.4	163 E	29	80
5 21	13 52.54	−15 26.9	2.539	3.461	8.1	22.6	151 E	30	79

497138 2004 RE_{10}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 25.18	− 2 35.0	2.700	3.668	4.7	22.9	163 W	42	67
4 21	14 17.24	− 1 51.3	2.667	3.658	3.1	22.8	169 W	43	66
5 1	14 8.96	− 1 13.2	2.665	3.647	4.1	22.8	165 E	44	65
5 11	14 1.03	− 0 44.1	2.692	3.635	6.6	23.0	156 E	44	65
5 21	13 54.01	− 0 26.3	2.746	3.623	9.2	23.1	145 E	45	64

465402 2008 HW_1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 25.52	+ 1 4.8	2.385	3.348	5.6	22.3	161 W	46	63
4 16	14 19.24	+ 1 48.8	2.333	3.310	4.8	22.1	164 W	47	62
4 21	14 12.56	+ 2 32.3	2.290	3.271	4.6	22.1	165 W	48	61
4 26	14 5.59	+ 3 14.5	2.256	3.232	5.2	22.0	163 E	48	61
5 1	13 58.45	+ 3 54.4	2.230	3.192	6.5	22.1	159 E	49	60
5 6	13 51.27	+ 4 31.4	2.213	3.151	8.1	22.1	154 E	50	59
5 11	13 44.19	+ 5 4.6	2.204	3.110	9.8	22.1	148 E	50	59
5 16	13 37.32	+ 5 33.5	2.203	3.067	11.6	22.2	143 E	51	58
5 21	13 30.78	+ 5 57.6	2.208	3.025	13.3	22.2	137 E	51	58

488636 2002 WY_{12}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 26.22	+ 7 32.2	1.391	2.346	9.6	22.6	157 W	53	56
4 16	14 18.96	+ 7 38.2	1.400	2.366	8.6	22.6	159 W	53	56
4 21	14 11.61	+ 7 38.6	1.416	2.386	8.2	22.6	160 W	53	56
4 26	14 4.39	+ 7 33.1	1.439	2.405	8.7	22.7	159 E	53	56
5 1	13 57.48	+ 7 21.7	1.468	2.423	9.8	22.8	156 E	52	57
5 6	13 51.05	+ 7 4.6	1.505	2.441	11.2	22.9	152 E	52	57
5 11	13 45.21	+ 6 42.1	1.547	2.459	12.8	23.1	147 E	52	57

471108 2010 CL_1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	14 26.51	+16 23.0	1.332	2.257	12.8	22.5	150 W	61	48
4 16	14 20.60	+17 21.1	1.341	2.269	12.6	22.6	151 W	62	47
4 21	14 14.52	+18 9.8	1.357	2.281	12.9	22.6	150 W	63	46
4 26	14 8.46	+18 48.2	1.378	2.293	13.6	22.7	148 E	64	45
5 1	14 2.60	+19 15.7	1.406	2.304	14.6	22.8	145 E	64	45
5 6	13 57.12	+19 32.5	1.438	2.314	15.8	22.9	141 E	65	44
5 11	13 52.13	+19 39.0	1.476	2.324	17.0	23.0	138 E	65	44

7336 Saunders

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 29.68	− 7 46.3	1.923	2.894	6.0	23.0	162 W	37	72
4 16	14 25.09	− 7 10.3	1.887	2.875	4.2	22.9	168 W	38	71
4 21	14 20.16	− 6 33.6	1.858	2.856	2.8	22.7	172 W	38	71
4 26	14 15.02	− 5 56.9	1.836	2.837	2.7	22.7	172 W	39	70
5 1	14 9.79	− 5 21.0	1.822	2.817	4.0	22.7	169 E	40	69
5 6	14 4.60	− 4 46.8	1.816	2.797	5.9	22.8	163 E	40	69
5 11	13 59.58	− 4 15.0	1.816	2.777	8.0	22.9	158 E	41	68
5 16	13 54.85	− 3 46.4	1.824	2.756	10.0	23.0	152 E	41	68

381844 2009 WV_{163}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 29.86	−10 40.2	2.301	3.270	5.3	22.3	162 W	34	75
4 21	14 21.16	−10 5.8	2.252	3.252	2.0	22.1	174 W	35	74
5 1	14 11.89	− 9 30.9	2.233	3.234	2.4	22.1	172 E	35	74
5 11	14 2.89	− 8 59.1	2.243	3.215	5.9	22.3	161 E	36	73
5 21	13 54.90	− 8 34.1	2.281	3.194	9.3	22.4	149 E	36	73

506446 2001 RD_{142}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 31.55	+ 3 51.0	3.425	4.371	4.9	22.8	158 W	49	60
4 21	14 24.67	+ 4 29.6	3.397	4.365	4.0	22.7	162 W	49	60
5 1	14 17.49	+ 5 0.1	3.400	4.358	4.6	22.8	160 E	50	59
5 11	14 10.50	+ 5 20.1	3.432	4.351	6.2	22.9	152 E	50	59
5 21	14 4.16	+ 5 28.3	3.490	4.343	8.0	23.0	143 E	50	59

508861 2002 RN_{38}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 33.44	−20 8.6	4.974	5.918	3.6	25.0	158 W	25	84
4 21	14 27.65	−19 43.6	4.950	5.939	1.8	24.9	169 W	25	84
5 1	14 21.67	−19 15.0	4.956	5.960	0.9	24.8	175 E	26	83
5 11	14 15.85	−18 44.5	4.994	5.981	2.2	24.9	167 E	26	83
5 21	14 10.51	−18 13.9	5.062	6.001	3.9	25.1	156 E	27	82

368810 2005 YE_{181}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 35.77	−50 31.7	2.859	3.636	11.3	22.7	135 W	—	65
4 16	14 30.06	−50 38.3	2.830	3.639	10.6	22.6	138 W	—	65
4 21	14 24.02	−50 38.3	2.808	3.642	10.0	22.6	141 W	—	65
4 26	14 17.80	−50 31.6	2.791	3.645	9.6	22.6	143 W	—	65
5 1	14 11.55	−50 18.2	2.780	3.648	9.2	22.5	144 E	—	66
5 6	14 5.42	−49 58.5	2.776	3.650	9.1	22.5	145 E	—	66
5 11	13 59.57	−49 32.9	2.778	3.652	9.1	22.5	145 E	—	66
5 16	13 54.10	−49 2.1	2.786	3.654	9.3	22.6	144 E	—	67

427885 2005 SR_{218}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 36.00	− 8 25.3	2.566	3.528	5.3	22.4	161 W	37	72
4 21	14 27.56	− 7 51.6	2.548	3.544	2.5	22.3	171 W	37	72
5 1	14 18.76	− 7 19.9	2.560	3.560	2.4	22.3	171 E	38	71
5 11	14 10.34	− 6 53.3	2.603	3.574	5.2	22.5	161 E	38	71
5 21	14 2.90	− 6 34.4	2.674	3.588	8.0	22.7	150 E	38	71

353938 1998 QR_{15}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 36.62	−28 7.0	3.012	3.931	6.7	24.0	153 W	17	88
4 21	14 28.04	−27 45.9	2.934	3.904	4.5	23.8	162 W	17	88
5 1	14 18.80	−27 12.4	2.886	3.876	3.3	23.7	167 E	18	89
5 11	14 9.63	−26 28.8	2.869	3.847	4.4	23.7	163 E	19	90
5 21	14 1.20	−25 38.5	2.881	3.816	6.7	23.8	154 E	19	90

250162 2002 TY_{57}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 38.80	− 9 35.7	1.549	2.515	7.8	22.8	160 W	35	74
4 16	14 33.60	− 9 5.9	1.524	2.509	5.5	22.7	166 W	36	73
4 21	14 27.99	− 8 35.3	1.505	2.504	3.4	22.5	171 W	36	73
4 26	14 22.15	− 8 4.6	1.494	2.497	2.3	22.4	174 W	37	72
5 1	14 16.22	− 7 34.9	1.490	2.491	3.5	22.5	171 E	37	72
5 6	14 10.39	− 7 6.9	1.493	2.484	5.6	22.6	166 E	38	71
5 11	14 4.80	− 6 41.5	1.503	2.477	8.0	22.7	160 E	38	71
5 16	13 59.60	− 6 19.3	1.520	2.469	10.3	22.8	154 E	39	70

507013 2008 TP_{165}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 40.01	−12 50.4	4.026	4.977	4.0	22.5	160 W	32	77
4 21	14 34.10	−12 35.5	3.997	4.991	1.9	22.3	171 W	32	77
5 1	14 27.88	−12 19.7	3.998	5.004	0.6	22.2	177 E	33	76
5 11	14 21.77	−12 4.7	4.030	5.017	2.7	22.4	167 E	33	76
5 21	14 16.15	−11 52.1	4.091	5.030	4.8	22.6	156 E	33	76

469366 2001 PH_{13}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	14 40.31	− 1 40.5	3.116	4.065	5.2	24.0	159 W	43	66
4 21	14 33.21	− 0 48.5	3.056	4.037	3.6	23.9	166 W	44	65
5 1	14 25.55	− 0 1.3	3.027	4.008	3.8	23.9	165 E	45	64
5 11	14 17.91	+ 0 38.0	3.028	3.978	5.7	24.0	157 E	46	63
5 21	14 10.80	+ 1 6.7	3.057	3.947	7.9	24.1	147 E	46	63

461397 2001 SD_{170}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 41.34	− 4 9.4	2.351	3.307	6.2	22.9	159 W	41	68
4 16	14 36.94	− 3 21.6	2.342	3.317	4.9	22.9	164 W	42	67
4 21	14 32.34	− 2 34.7	2.340	3.327	3.9	22.8	167 W	42	67
4 26	14 27.65	− 1 49.5	2.346	3.337	3.6	22.8	168 W	43	66
5 1	14 22.97	− 1 6.8	2.360	3.346	4.2	22.9	166 E	44	65
5 6	14 18.39	− 0 27.2	2.382	3.355	5.4	23.0	162 E	45	64
5 11	14 14.01	+ 0 8.8	2.411	3.364	6.7	23.1	157 E	45	64
5 16	14 9.90	+ 0 40.8	2.448	3.373	8.1	23.2	152 E	46	63

523610 2005 TG

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 46.62	−19 20.8	2.816	3.754	6.2	23.7	156 W	26	83
4 21	14 38.40	−18 31.5	2.792	3.780	3.2	23.5	168 W	26	83
5 1	14 29.76	−17 36.6	2.798	3.805	0.7	23.4	177 E	27	82
5 11	14 21.39	−16 39.7	2.836	3.829	3.2	23.6	168 E	28	81
5 21	14 13.88	−15 44.6	2.903	3.852	6.1	23.8	156 E	29	80

31210 1998 BX_7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 52.37	− 4 32.0	2.753	3.693	6.2	21.8	156 W	40	69
4 21	14 44.51	− 3 41.1	2.732	3.713	3.9	21.7	165 W	41	68
5 1	14 36.14	− 2 55.0	2.742	3.733	3.3	21.7	168 W	42	67
5 11	14 27.91	− 2 16.9	2.782	3.751	5.0	21.8	161 E	43	66
5 21	14 20.41	− 1 49.2	2.850	3.768	7.5	22.0	151 E	43	66
5 31	14 14.13	− 1 33.5	2.945	3.785	9.8	22.2	141 E	43	66

506298 2017 ME_8

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 53.87	−11 44.3	1.676	2.625	8.8	21.9	156 W	33	76
4 21	14 45.16	−11 1.1	1.606	2.597	4.7	21.6	168 W	34	75
5 1	14 34.99	−10 14.8	1.563	2.569	1.9	21.3	175 W	35	74
5 11	14 24.49	− 9 30.8	1.548	2.539	5.6	21.5	166 E	35	74
5 21	14 14.79	− 8 54.3	1.560	2.509	10.2	21.7	154 E	36	73
5 31	14 6.90	− 8 30.2	1.595	2.478	14.4	21.9	143 E	36	73

297539 2001 OY_{51}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 54.63	−15 12.1	1.616	2.562	9.3	21.6	156 W	30	79
4 21	14 45.44	−14 35.7	1.551	2.541	4.9	21.3	168 W	30	79
5 1	14 34.78	−13 52.5	1.512	2.520	0.5	20.9	179 W	31	78
5 11	14 23.82	−13 7.5	1.502	2.497	5.1	21.2	167 E	32	77
5 21	14 13.79	−12 26.3	1.518	2.474	9.9	21.4	155 E	33	76
5 31	14 5.75	−11 54.5	1.558	2.449	14.2	21.6	144 E	33	76

405399 2004 OJ

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 56.21	− 8 38.3	1.604	2.551	9.2	22.0	156 W	36	73
4 21	14 47.34	− 7 46.8	1.537	2.526	5.3	21.7	167 W	37	72
5 1	14 36.95	− 6 55.6	1.498	2.499	3.3	21.5	172 W	38	71
5 11	14 26.19	− 6 10.6	1.486	2.472	6.5	21.6	164 E	39	70
5 21	14 16.25	− 5 37.6	1.501	2.444	11.0	21.8	153 E	39	70
5 31	14 8.19	− 5 20.7	1.538	2.415	15.2	22.0	141 E	40	69

363135 2001 QQ_{199}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 56.23	− 8 2.4	6.671	7.597	3.1	21.5	156 W	37	72
4 21	14 52.38	− 7 23.8	6.621	7.598	1.9	21.4	165 W	38	71
5 1	14 48.26	− 6 45.8	6.603	7.599	1.2	21.4	171 W	38	71
5 11	14 44.09	− 6 9.9	6.615	7.600	1.8	21.4	166 E	39	70
5 21	14 40.08	− 5 37.1	6.657	7.601	2.9	21.5	157 E	39	70
5 31	14 36.42	− 5 8.6	6.728	7.602	4.1	21.6	147 E	40	69

323308 2003 UH_{81}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 57.50	−10 33.8	2.229	3.168	7.5	22.4	156 W	34	75
4 21	14 49.32	− 9 40.8	2.185	3.171	4.2	22.2	167 W	35	74
5 1	14 40.27	− 8 47.3	2.170	3.174	2.1	22.0	174 W	36	73
5 11	14 31.19	− 7 58.0	2.186	3.175	4.4	22.2	166 E	37	72
5 21	14 22.86	− 7 16.7	2.229	3.175	7.8	22.4	155 E	38	71

376784 2000 QW_{144}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 57.53	−21 57.9	1.544	2.477	10.7	21.6	153 W	23	86
4 21	14 48.19	−21 52.1	1.466	2.447	6.5	21.3	164 W	23	86
5 1	14 36.95	−21 32.3	1.413	2.417	2.7	21.0	173 W	23	86
5 11	14 25.10	−21 0.9	1.388	2.386	4.9	21.0	168 E	24	85
5 21	14 14.03	−20 22.8	1.389	2.354	9.6	21.2	157 E	25	84
5 31	14 5.03	−19 44.8	1.414	2.322	14.3	21.4	146 E	25	84

413010 2000 CV_{39}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	14 57.74	−29 28.5	2.338	3.235	9.3	22.0	149 W	16	87
4 16	14 53.46	−29 18.3	2.307	3.238	7.9	21.9	154 W	16	87
4 21	14 48.83	−29 4.1	2.284	3.241	6.4	21.8	159 W	16	87
4 26	14 43.96	−28 45.8	2.267	3.244	5.1	21.8	163 W	16	87
5 1	14 38.96	−28 23.9	2.258	3.246	4.1	21.7	167 W	17	88
5 6	14 33.96	−27 58.7	2.256	3.248	3.8	21.7	168 E	17	88
5 11	14 29.07	−27 30.9	2.261	3.250	4.3	21.7	166 E	17	88
5 16	14 24.40	−27 0.9	2.273	3.252	5.3	21.8	163 E	18	89
5 21	14 20.04	−26 29.5	2.293	3.254	6.7	21.9	158 E	19	90
5 26	14 16.10	−25 57.5	2.319	3.255	8.1	22.0	153 E	19	90
5 31	14 12.63	−25 25.6	2.352	3.256	9.5	22.0	148 E	20	89

434431 2005 NC_7

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 57.89	− 1 30.6	2.987	3.914	6.4	21.9	154 W	43	66
4 21	14 51.20	− 0 31.6	2.913	3.882	4.5	21.8	162 W	44	65
5 1	14 43.70	+ 0 23.1	2.870	3.850	4.0	21.7	164 W	45	64
5 11	14 35.96	+ 1 9.7	2.856	3.816	5.4	21.7	159 E	46	63
5 21	14 28.55	+ 1 45.2	2.871	3.782	7.7	21.8	150 E	47	62
5 31	14 22.02	+ 2 7.4	2.912	3.747	10.0	21.9	140 E	47	62

219527 2001 QK_{142}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 58.53	−16 40.8	2.107	3.041	8.2	21.3	154 W	28	81
4 21	14 49.34	−16 14.0	2.011	2.996	4.6	21.0	166 W	29	80
5 1	14 38.64	−15 39.7	1.943	2.951	0.5	20.6	179 W	29	80
5 11	14 27.36	−15 0.9	1.906	2.904	3.8	20.8	169 E	30	79
5 21	14 16.51	−14 21.8	1.898	2.856	8.1	20.9	157 E	31	78
5 31	14 7.07	−13 47.3	1.917	2.806	12.1	21.1	145 E	31	78
6 10	13 59.77	−13 21.7	1.958	2.755	15.6	21.2	133 E	32	77
6 20	13 55.03	−13 7.9	2.017	2.702	18.5	21.3	122 E	32*	77
6 30	13 53.02	−13 7.4	2.087	2.648	20.8	21.4	112 E	30*	77

401871 2000 WA_{44}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	14 58.72	− 7 48.3	2.143	3.082	7.8	22.4	155 W	37	72
4 21	14 50.05	− 7 9.5	2.100	3.084	4.6	22.2	166 W	38	71
5 1	14 40.44	− 6 32.9	2.085	3.085	2.8	22.0	171 W	38	71
5 11	14 30.78	− 6 2.4	2.100	3.085	5.0	22.2	164 E	39	70
5 21	14 21.89	− 5 41.4	2.143	3.084	8.3	22.4	154 E	39	70

461590 2004 RS_{251}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 0.12	−44 55.2	1.864	2.688	14.6	22.5	137 W	—	71
4 16	14 53.70	−45 22.5	1.844	2.700	13.5	22.5	141 W	—	71
4 21	14 46.65	−45 41.8	1.831	2.712	12.4	22.4	144 W	—	70
4 26	14 39.19	−45 52.5	1.822	2.724	11.5	22.4	147 W	—	70
5 1	14 31.53	−45 54.3	1.821	2.735	10.9	22.4	149 E	—	70
5 6	14 23.91	−45 47.6	1.825	2.746	10.5	22.4	150 E	—	70
5 11	14 16.55	−45 33.0	1.836	2.757	10.6	22.4	150 E	—	70
5 16	14 9.65	−45 11.2	1.853	2.768	10.9	22.4	149 E	—	71
5 21	14 3.38	−44 43.4	1.876	2.778	11.5	22.5	147 E	—	71

285594 2000 QC_{114}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 2.81	− 2 41.5	1.866	2.799	9.2	21.4	154 W	42	67
4 16	14 59.02	− 2 3.8	1.833	2.790	7.7	21.3	158 W	43	66
4 21	14 54.81	− 1 26.6	1.807	2.780	6.4	21.2	162 W	44	65
4 26	14 50.26	− 0 50.8	1.788	2.771	5.5	21.1	165 W	44	65
5 1	14 45.49	− 0 17.3	1.775	2.761	5.4	21.1	165 W	45	64
5 6	14 40.64	+ 0 13.0	1.770	2.750	6.2	21.1	163 E	45	64
5 11	14 35.83	+ 0 39.5	1.771	2.740	7.4	21.2	159 E	46	63
5 16	14 31.16	+ 1 1.7	1.779	2.729	9.0	21.2	155 E	46	63
5 21	14 26.77	+ 1 19.1	1.794	2.718	10.7	21.3	150 E	46	63
5 26	14 22.76	+ 1 31.4	1.814	2.707	12.4	21.4	145 E	47	62
5 31	14 19.22	+ 1 38.4	1.840	2.695	14.0	21.5	140 E	47	62

306886 2001 TC_{63}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 3.48	−14 38.8	1.536	2.474	10.4	21.7	154 W	30	79
4 21	14 54.97	−13 57.9	1.466	2.451	5.9	21.3	165 W	31	78
5 1	14 44.70	−13 10.4	1.421	2.428	1.4	21.0	177 W	32	77
5 11	14 33.84	−12 21.4	1.404	2.404	4.5	21.1	169 E	33	76
5 21	14 23.68	−11 37.0	1.413	2.379	9.5	21.4	157 E	33	76
5 31	14 15.37	−11 3.0	1.446	2.353	14.1	21.6	146 E	34	75

259430 2003 SN_6

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 3.58	−15 53.9	1.842	2.774	9.3	21.7	153 W	29	80
4 21	14 55.51	−14 53.2	1.765	2.749	5.4	21.4	165 W	30	79
5 1	14 45.96	−13 44.2	1.717	2.723	1.2	21.0	177 W	31	78
5 11	14 35.93	−12 32.3	1.696	2.696	3.8	21.2	170 E	32	77
5 21	14 26.48	−11 23.9	1.704	2.669	8.3	21.4	158 E	34	75
5 31	14 18.56	−10 25.0	1.738	2.640	12.4	21.5	146 E	35	74

513138 2002 CY_{58}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	15 4.34	−31 25.1	0.934	1.853	17.5	23.0	146 W	14	85
4 16	14 56.46	−31 41.4	0.899	1.845	15.0	22.8	152 W	13	84
4 21	14 47.30	−31 48.4	0.869	1.836	12.5	22.7	157 W	13	84
4 26	14 37.12	−31 44.9	0.845	1.826	10.3	22.5	161 W	13	84
5 1	14 26.26	−31 29.9	0.826	1.815	9.1	22.4	163 E	14	85
5 6	14 15.16	−31 3.7	0.814	1.804	9.3	22.4	163 E	14	85
5 11	14 4.25	−30 27.2	0.809	1.792	11.1	22.4	160 E	15	86
5 16	13 53.94	−29 42.2	0.809	1.778	13.7	22.5	155 E	15	86

18916 2000 OG_{44}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 5.83	−26 8.8	5.174	6.055	4.9	22.4	149 W	19	90
4 21	15 0.51	−25 54.1	5.098	6.048	3.4	22.3	159 W	19	90
5 1	14 54.69	−25 33.7	5.050	6.041	1.9	22.2	168 W	19	90
5 11	14 48.70	−25 8.6	5.033	6.033	1.5	22.1	171 E	20	89
5 21	14 42.89	−24 40.2	5.047	6.024	2.7	22.2	163 E	20	89
5 31	14 37.59	−24 10.2	5.091	6.016	4.3	22.3	154 E	21	88

189263 2005 CA

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 8.41	−10 3.3	3.403	4.320	6.1	21.9	153 W	35	74
4 21	15 1.64	− 9 11.3	3.351	4.324	3.8	21.8	164 W	36	73
5 1	14 54.18	− 8 19.1	3.328	4.327	2.0	21.6	172 W	37	72
5 11	14 46.56	− 7 29.7	3.337	4.330	2.8	21.7	168 E	38	71
5 21	14 39.28	− 6 45.7	3.377	4.332	5.0	21.8	158 E	38	71
5 31	14 32.80	− 6 9.6	3.446	4.332	7.3	22.0	147 E	39	70

408875 2001 TQ_{123}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 11.25	−25 7.0	1.610	2.518	12.0	21.9	148 W	20	89
4 21	15 3.02	−24 29.8	1.530	2.497	8.0	21.6	160 W	21	88
5 1	14 52.83	−23 34.1	1.475	2.474	3.9	21.3	170 W	21	88
5 11	14 41.86	−22 23.1	1.447	2.451	3.5	21.2	172 E	23	86
5 21	14 31.44	−21 3.2	1.447	2.427	7.7	21.4	161 E	24	85
5 31	14 22.80	−19 42.9	1.471	2.402	12.3	21.6	150 E	25	84

494888 2008 SC_{180}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 11.66	−14 54.0	1.517	2.446	11.2	22.0	152 W	30	79
4 21	15 2.81	−14 35.7	1.443	2.424	6.8	21.7	163 W	30	79
5 1	14 51.92	−14 11.6	1.395	2.401	1.9	21.4	175 W	31	78
5 11	14 40.18	−13 45.4	1.374	2.378	3.7	21.4	171 E	31	78
5 21	14 28.94	−13 21.7	1.380	2.353	8.8	21.7	159 E	32	77
5 31	14 19.49	−13 5.6	1.410	2.328	13.6	21.9	147 E	32	77

363091 2000 SF_{102}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 12.75	−18 18.8	1.485	2.409	11.8	21.5	151 W	27	82
4 21	15 4.94	−17 42.4	1.397	2.374	7.4	21.1	162 W	27	82
5 1	14 54.88	−16 54.2	1.334	2.339	2.3	20.7	175 W	28	81
5 11	14 43.73	−15 57.9	1.297	2.303	3.1	20.7	173 E	29	80
5 21	14 32.84	−14 59.9	1.287	2.266	8.6	20.9	160 E	30	79
5 31	14 23.58	−14 7.6	1.300	2.229	13.8	21.1	148 E	31	78
6 10	14 17.00	−13 27.7	1.334	2.191	18.4	21.3	137 E	32	77
6 20	14 13.63	−13 4.2	1.385	2.152	22.2	21.4	127 E	32*	77

308899 2006 SL_{198}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 13.15	+ 1 6.6	1.529	2.448	11.8	21.7	150 W	46	63
4 16	15 8.66	+ 2 8.8	1.501	2.443	10.3	21.6	154 W	47	62
4 21	15 3.61	+ 3 9.6	1.479	2.438	9.1	21.5	157 W	48	61
4 26	14 58.11	+ 4 7.7	1.464	2.432	8.4	21.4	159 W	49	60
5 1	14 52.31	+ 5 1.8	1.457	2.426	8.4	21.4	159 W	50	59
5 6	14 46.39	+ 5 50.4	1.456	2.419	9.2	21.4	158 E	51	58
5 11	14 40.50	+ 6 32.7	1.461	2.412	10.4	21.5	154 E	52	57
5 16	14 34.80	+ 7 7.7	1.473	2.404	12.0	21.6	150 E	52	57
5 21	14 29.44	+ 7 35.1	1.491	2.396	13.8	21.7	146 E	53	56
5 26	14 24.56	+ 7 54.5	1.515	2.387	15.6	21.7	141 E	53	56
5 31	14 20.26	+ 8 6.1	1.544	2.378	17.3	21.8	136 E	53	56

469338 2000 SF_{137}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 14.61	−27 3.9	1.849	2.742	11.5	21.8	147 W	18	89
4 21	15 6.91	−26 52.2	1.749	2.705	8.2	21.5	158 W	18	89
5 1	14 57.18	−26 23.7	1.674	2.667	4.7	21.3	167 W	19	90
5 11	14 46.41	−25 38.9	1.627	2.628	3.8	21.1	170 E	19	90
5 21	14 35.80	−24 41.4	1.607	2.588	7.0	21.2	162 E	20	89
5 31	14 26.55	−23 37.7	1.613	2.548	11.1	21.4	151 E	21	88

247858 2003 UA_{38}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 15.70	− 7 5.0	1.879	2.798	10.0	21.5	151 W	38	71
4 21	15 7.73	− 6 24.6	1.807	2.778	6.6	21.2	161 W	39	70
5 1	14 58.14	− 5 46.3	1.762	2.758	4.0	21.0	169 W	39	70
5 11	14 47.87	− 5 15.0	1.746	2.737	5.1	21.0	166 E	40	69
5 21	14 37.94	− 4 54.6	1.757	2.715	8.6	21.2	156 E	40	69
5 31	14 29.32	− 4 48.4	1.794	2.692	12.3	21.4	146 E	40	69

285110 1995 MA_{1}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	15 16.01	+12 38.6	2.273	3.140	10.8	22.0	144 W	58	51
4 16	15 11.78	+13 8.3	2.226	3.115	10.1	22.0	147 W	58	51
4 21	15 7.06	+13 34.8	2.185	3.090	9.6	21.9	149 W	59	50
4 26	15 1.92	+13 57.0	2.151	3.065	9.4	21.8	150 W	59	50
5 1	14 56.46	+14 14.2	2.124	3.040	9.5	21.8	150 W	59	50
5 6	14 50.80	+14 25.8	2.103	3.014	9.9	21.8	149 E	59	50
5 11	14 45.04	+14 31.0	2.090	2.987	10.6	21.7	147 E	60	49
5 16	14 39.31	+14 29.7	2.082	2.961	11.6	21.8	144 E	59	50
5 21	14 33.73	+14 21.7	2.081	2.934	12.7	21.8	140 E	59	50
5 26	14 28.41	+14 6.8	2.086	2.906	13.9	21.8	137 E	59	50
5 31	14 23.46	+13 45.3	2.096	2.878	15.1	21.8	132 E	59	50

313087 2000 UD_{12}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 16.02	− 2 34.1	1.797	2.713	10.6	21.5	150 W	42	67
4 16	15 12.37	− 2 5.1	1.759	2.703	9.0	21.4	155 W	43	66
4 21	15 8.20	− 1 36.8	1.729	2.692	7.6	21.3	159 W	43	66
4 26	15 3.61	− 1 10.1	1.704	2.682	6.4	21.2	163 W	44	65
5 1	14 58.72	− 0 45.8	1.687	2.671	5.8	21.1	164 W	44	65
5 6	14 53.66	− 0 24.6	1.676	2.660	6.0	21.1	164 W	45	64
5 11	14 48.54	− 0 7.0	1.672	2.649	7.0	21.2	161 E	45	64
5 16	14 43.52	+ 0 6.3	1.675	2.637	8.5	21.2	157 E	45	64
5 21	14 38.71	+ 0 14.9	1.684	2.626	10.1	21.3	153 E	45	64
5 26	14 34.23	+ 0 18.6	1.700	2.614	11.9	21.4	148 E	45	64
5 31	14 30.21	+ 0 17.3	1.721	2.602	13.6	21.4	143 E	45	64
6 5	14 26.72	+ 0 10.9	1.747	2.590	15.3	21.5	138 E	45	64

520862 2014 WG_{7}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 17.59	+29 11.3	0.765	1.622	26.9	22.3	133 W	74	35
4 16	15 6.93	+29 1.0	0.725	1.602	26.2	22.1	135 W	74	35
4 21	14 54.37	+28 29.3	0.689	1.581	25.6	22.0	137 W	73	36
4 26	14 40.19	+27 31.1	0.658	1.561	25.3	21.8	139 W	73	36
5 1	14 24.83	+26 2.4	0.632	1.540	25.5	21.7	139 E	71	38
5 6	14 8.88	+24 1.0	0.611	1.520	26.3	21.6	138 E	69	40
5 11	13 52.98	+21 27.2	0.597	1.499	27.8	21.6	136 E	66	43
5 16	13 37.74	+18 24.2	0.589	1.478	29.9	21.6	133 E	63	46
5 21	13 23.70	+14 57.2	0.587	1.457	32.5	21.6	129 E	60	49
5 26	13 11.23	+11 13.1	0.590	1.436	35.3	21.7	125 E	56	53

4596 1981 QB

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 17.71	+27 46.0	2.613	3.385	12.3	21.8	134 W	73	36
4 16	15 13.62	+28 37.9	2.606	3.389	12.1	21.8	135 W	74	35
4 21	15 9.16	+29 24.1	2.604	3.391	12.1	21.8	135 W	74	35
4 26	15 4.41	+30 3.6	2.609	3.394	12.1	21.8	135 W	75	34
5 1	14 59.49	+30 35.8	2.619	3.396	12.3	21.8	134 W	76	33
5 6	14 54.49	+31 0.4	2.635	3.398	12.7	21.8	132 W	76	33
5 11	14 49.52	+31 17.3	2.656	3.400	13.0	21.8	131 E	76	33
5 16	14 44.67	+31 26.4	2.681	3.401	13.5	21.9	128 E	76	33
5 21	14 40.06	+31 27.8	2.712	3.402	14.0	21.9	126 E	76	33
5 26	14 35.75	+31 21.9	2.747	3.403	14.5	22.0	123 E	76	33
5 31	14 31.83	+31 9.2	2.786	3.403	15.0	22.0	120 E	76	33
6 5	14 28.36	+30 50.2	2.828	3.403	15.5	22.1	116 E	76	33

405020 2001 QX

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 19.84	− 7 24.2	1.211	2.139	13.6	21.4	150 W	38	71
4 16	15 17.07	− 6 44.8	1.171	2.124	11.5	21.3	155 W	38	71
4 21	15 13.57	− 6 4.0	1.137	2.109	9.4	21.1	160 W	39	70
4 26	15 9.44	− 5 23.0	1.108	2.094	7.5	21.0	164 W	40	69
5 1	15 4.80	− 4 42.9	1.085	2.079	6.2	20.8	167 W	40	69
5 6	14 59.82	− 4 4.9	1.068	2.064	6.1	20.8	167 W	41	68
5 11	14 54.67	− 3 30.3	1.057	2.049	7.3	20.8	165 E	41	68
5 16	14 49.55	− 3 0.2	1.052	2.034	9.4	20.9	161 E	42	67
5 21	14 44.65	− 2 35.6	1.052	2.019	11.8	21.0	156 E	42	67
5 26	14 40.15	− 2 17.4	1.058	2.004	14.3	21.0	151 E	43	66
5 31	14 36.21	− 2 6.0	1.069	1.989	16.8	21.1	146 E	43	66
6 5	14 32.97	− 2 1.6	1.084	1.974	19.1	21.2	140 E	43	66
6 10	14 30.51	− 2 4.2	1.103	1.959	21.4	21.3	135 E	43	66
6 15	14 28.89	− 2 13.6	1.125	1.945	23.4	21.4	130 E	43	66
6 20	14 28.15	− 2 29.4	1.151	1.930	25.3	21.5	126 E	43	66

303226 2004 NY_{30}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 21.32	+ 6 44.6	3.958	4.821	6.7	21.5	146 W	52	57
4 21	15 15.73	+ 7 24.0	3.910	4.823	5.6	21.4	152 W	52	57
5 1	15 9.46	+ 7 55.6	3.890	4.824	5.0	21.4	155 W	53	56
5 11	15 2.90	+ 8 17.0	3.898	4.825	5.3	21.4	154 E	53	56
5 21	14 56.47	+ 8 26.8	3.934	4.825	6.3	21.5	148 E	53	56
5 31	14 50.56	+ 8 24.2	3.996	4.824	7.6	21.6	141 E	53	56

370199 2002 DG_{2}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
4 11	15 21.72	−54 28.5	2.844	3.547	12.9	21.7	128 W	—	62
4 16	15 16.26	−54 57.1	2.804	3.545	12.3	21.6	131 W	—	61
4 21	15 10.09	−55 19.9	2.768	3.543	11.7	21.6	134 W	—	61
4 26	15 3.33	−55 36.1	2.739	3.540	11.2	21.5	137 W	—	60

370199 2002 DG_2 *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
5 1	14 56.15	−55 45.1	2.714	3.538	10.8	21.5	139 W	—	60
5 6	14 48.73	−55 46.9	2.696	3.535	10.4	21.5	141 E	—	60
5 11	14 41.25	−55 41.2	2.683	3.532	10.2	21.4	142 E	—	60
5 16	14 33.91	−55 28.3	2.677	3.529	10.2	21.4	142 E	—	61
5 21	14 26.89	−55 8.6	2.676	3.526	10.3	21.4	142 E	—	61
5 26	14 20.38	−54 42.8	2.682	3.522	10.6	21.4	140 E	—	61
5 31	14 14.51	−54 11.8	2.693	3.518	11.0	21.5	139 E	—	62

508808 2000 UK_{19}

4 11	15 22.47	−12 14.1	1.888	2.797	10.5	21.6	149 W	33	76
4 21	15 14.59	−12 8.4	1.793	2.762	6.9	21.3	161 W	33	76
5 1	15 4.71	−12 1.5	1.725	2.726	3.0	21.0	172 W	33	76
5 11	14 53.71	−11 55.7	1.685	2.689	2.8	20.9	173 E	33	76
5 21	14 42.66	−11 53.9	1.673	2.652	7.0	21.1	161 E	33	76
5 31	14 32.68	−11 59.1	1.688	2.614	11.3	21.2	150 E	33	76
6 10	14 24.70	−12 13.9	1.725	2.575	15.1	21.4	139 E	33	76

378701 2008 NJ_1

4 11	15 22.49	−47 47.0	1.514	2.313	18.6	21.7	133 W	—	68
4 16	15 17.10	−47 53.3	1.472	2.308	17.3	21.6	137 W	—	68
4 21	15 10.73	−47 50.1	1.435	2.302	16.0	21.5	141 W	—	68
4 26	15 3.57	−47 36.0	1.402	2.296	14.8	21.4	144 W	—	68
5 1	14 55.85	−47 10.4	1.375	2.290	13.7	21.3	148 W	—	69
5 6	14 47.87	−46 32.9	1.354	2.284	12.8	21.2	150 E	—	69
5 11	14 39.92	−45 43.8	1.338	2.277	12.3	21.2	151 E	—	70
5 16	14 32.28	−44 43.9	1.329	2.269	12.3	21.1	152 E	—	71
5 21	14 25.23	−43 34.6	1.326	2.262	12.8	21.1	150 E	1	72
5 26	14 18.99	−42 17.8	1.328	2.254	13.7	21.2	148 E	3	74
5 31	14 13.72	−40 55.7	1.337	2.245	14.9	21.2	145 E	4	75
6 5	14 9.51	−39 30.8	1.351	2.237	16.4	21.3	142 E	5	76
6 10	14 6.40	−38 5.1	1.371	2.227	17.9	21.4	138 E	7	78
6 15	14 4.39	−36 40.5	1.395	2.218	19.5	21.4	133 E	8	79

501731 2014 UG_{84}

4 11	15 24.25	−17 34.3	1.403	2.315	13.2	21.6	148 W	27	82
4 21	15 17.09	−17 14.4	1.317	2.286	8.8	21.3	160 W	28	81
5 1	15 7.37	−16 45.0	1.254	2.256	3.7	20.9	172 W	28	81
5 11	14 56.18	−16 9.3	1.217	2.225	1.9	20.7	176 E	29	80
5 21	14 44.93	−15 32.1	1.205	2.194	7.6	21.0	163 E	29	80
5 31	14 35.13	−14 59.8	1.217	2.163	13.0	21.2	151 E	30	79
6 10	14 27.95	−14 38.2	1.251	2.131	17.8	21.4	140 E	30	79

523670 2013 EP_{41}

4 11	15 24.91	+15 33.3	0.991	1.877	19.8	21.6	141 W	61	48
4 16	15 22.00	+17 37.1	0.966	1.863	19.3	21.6	142 W	63	46
4 21	15 18.20	+19 36.7	0.947	1.848	19.3	21.5	143 W	65	44
4 26	15 13.59	+21 28.8	0.932	1.834	19.7	21.5	142 W	66	43
5 1	15 8.35	+23 10.5	0.923	1.819	20.5	21.4	141 W	68	41
5 6	15 2.66	+24 39.1	0.918	1.804	21.6	21.4	139 W	70	39
5 11	14 56.76	+25 52.6	0.918	1.788	23.1	21.5	136 E	71	38
5 16	14 50.86	+26 49.7	0.922	1.773	24.6	21.5	133 E	72	37
5 21	14 45.22	+27 29.8	0.929	1.757	26.3	21.6	130 E	72	37
5 26	14 40.06	+27 52.8	0.939	1.741	28.0	21.6	126 E	73	36
5 31	14 35.59	+27 59.6	0.951	1.725	29.7	21.7	123 E	73	36
6 5	14 31.94	+27 51.3	0.966	1.708	31.2	21.7	119 E	73	36

368812 2006 AA_{11}

4 11	15 27.64	−22 18.0	2.679	3.554	9.1	21.7	146 W	23	86
4 21	15 20.31	−22 8.4	2.599	3.548	6.3	21.5	157 W	23	86
5 1	15 11.63	−21 50.9	2.547	3.541	3.2	21.3	169 W	23	86
5 11	15 2.31	−21 26.7	2.525	3.533	1.2	21.1	176 E	24	85
5 21	14 53.10	−20 58.0	2.533	3.524	3.9	21.3	166 E	24	85
5 31	14 44.74	−20 27.9	2.569	3.514	7.0	21.5	155 E	25	84

469513 2003 QR_{79}

4 11	15 28.08	−55 41.5	0.700	1.524	32.0	22.4	126 W	—	60
4 16	15 15.25	−56 52.5	0.691	1.539	30.2	22.3	130 W	—	59
4 21	15 0.06	−57 41.7	0.686	1.553	28.5	22.3	133 W	—	58
4 26	14 43.24	−58 5.3	0.683	1.566	27.0	22.3	135 W	—	58
5 1	14 25.82	−58 1.4	0.684	1.579	25.8	22.2	137 E	—	58
5 6	14 8.96	−57 30.7	0.689	1.590	25.0	22.3	138 E	—	58
5 11	13 53.65	−56 36.0	0.698	1.601	24.7	22.3	139 E	—	59
5 16	13 40.59	−55 21.8	0.710	1.611	24.8	22.3	138 E	—	61
5 21	13 30.15	−53 53.3	0.727	1.621	25.3	22.4	137 E	—	62

417894 2007 RW_{40}

4 11	15 29.38	−20 27.5	1.606	2.502	12.9	22.1	146 W	25	84
4 21	15 21.96	−20 19.0	1.517	2.477	8.9	21.8	158 W	25	84
5 1	15 12.12	−20 0.0	1.453	2.451	4.3	21.4	170 W	25	84
5 11	15 0.89	−19 31.8	1.415	2.424	1.3	21.2	177 E	25	84
5 21	14 49.55	−18 58.1	1.404	2.397	6.2	21.4	165 E	26	83
5 31	14 39.45	−18 24.1	1.419	2.369	11.1	21.6	153 E	27	82

430802 2004 XK_4

4 11	15 34.36	− 7 32.9	0.709	1.641	19.8	22.3	146 W	37	72
4 16	15 27.82	− 7 38.0	0.708	1.665	16.1	22.2	153 W	37	72
4 21	15 20.44	− 7 44.3	0.712	1.688	12.5	22.1	159 W	37	72
4 26	15 12.51	− 7 52.1	0.721	1.712	8.9	22.1	165 W	37	72
5 1	15 4.38	− 8 2.0	0.735	1.735	6.0	22.0	170 W	37	72
5 6	14 56.39	− 8 14.2	0.754	1.759	4.8	22.0	172 W	37	72
5 11	14 48.83	− 8 28.9	0.780	1.782	6.2	22.2	169 E	37	72
5 16	14 41.94	− 8 46.2	0.811	1.805	8.8	22.4	164 E	36	73
5 21	14 35.92	− 9 6.1	0.847	1.827	11.7	22.7	159 E	36	73
5 26	14 30.89	− 9 28.6	0.889	1.849	14.4	22.9	153 E	36	73

461369 2000 SK_9

4 11	15 35.39	− 5 54.5	1.945	2.832	11.4	21.7	146 W	39	70
4 16	15 32.03	− 4 59.4	1.921	2.841	9.8	21.6	151 W	40	69
4 21	15 28.20	− 4 4.3	1.903	2.850	8.3	21.5	156 W	41	68
4 26	15 24.00	− 3 10.0	1.893	2.859	6.9	21.5	160 W	42	67
5 1	15 19.52	− 2 17.6	1.889	2.868	5.9	21.4	163 W	43	66
5 6	15 14.90	− 1 28.0	1.893	2.876	5.6	21.4	164 W	44	65
5 11	15 10.24	− 0 42.0	1.904	2.885	5.9	21.5	163 E	44	65
5 16	15 5.66	− 0 0.4	1.922	2.893	6.9	21.5	160 E	45	64
5 21	15 1.26	+ 0 36.4	1.948	2.901	8.2	21.6	156 E	46	63
5 26	14 57.15	+ 1 7.8	1.979	2.908	9.7	21.7	151 E	46	63
5 31	14 53.42	+ 1 33.7	2.017	2.916	11.1	21.8	146 E	47	62
6 5	14 50.14	+ 1 54.0	2.061	2.923	12.5	21.9	141 E	47	62

399404 2001 TL_{54}

4 11	15 35.62	−21 5.9	1.925	2.803	12.0	22.5	145 W	24	85
4 21	15 28.21	−20 33.0	1.844	2.793	8.4	22.2	156 W	24	85
5 1	15 18.83	−19 49.4	1.788	2.782	4.2	22.0	168 W	25	84
5 11	15 8.39	−18 57.5	1.761	2.771	0.5	21.6	179 E	26	83
5 21	14 57.96	−18 1.5	1.762	2.758	4.7	21.9	167 E	27	82
5 31	14 48.61	−17 7.0	1.791	2.744	8.9	22.2	155 E	28	81

416451 2003 VM_{12}

4 11	15 36.16	−10 52.4	2.065	2.950	10.9	22.4	146 W	34	75
4 21	15 28.98	−10 21.9	1.982	2.934	7.7	22.2	157 W	35	74
5 1	15 19.97	− 9 50.3	1.925	2.916	4.3	21.9	168 W	35	74
5 11	15 9.93	− 9 21.1	1.896	2.898	3.0	21.8	171 E	36	73
5 21	14 59.79	− 8 57.8	1.895	2.879	5.8	21.9	163 E	36	73
5 31	14 50.50	− 8 43.6	1.923	2.859	9.5	22.1	152 E	36	73

455217 2001 QD_{154}

4 11	15 38.46	−10 7.7	2.157	3.037	10.8	22.4	145 W	35	74
4 21	15 30.91	− 9 13.3	2.101	3.049	7.6	22.2	156 W	36	73
5 1	15 21.84	− 8 18.6	2.072	3.061	4.4	22.0	166 W	37	72
5 11	15 12.07	− 7 28.0	2.072	3.071	3.4	21.9	170 E	38	71
5 21	15 2.45	− 6 45.5	2.102	3.080	5.8	22.1	162 E	38	71
5 31	14 53.85	− 6 14.5	2.159	3.088	9.0	22.3	152 E	39	70

446819 2000 RB_{53}

4 11	15 39.46	−53 24.3	3.019	3.706	12.5	22.4	127 W	—	63
4 16	15 34.90	−53 44.8	2.971	3.702	11.9	22.3	130 W	—	62
4 21	15 29.66	−54 0.2	2.928	3.697	11.3	22.3	134 W	—	62
4 26	15 23.84	−54 9.8	2.890	3.692	10.7	22.2	137 W	—	62
5 1	15 17.56	−54 13.2	2.858	3.686	10.1	22.2	140 W	—	62
5 6	15 10.98	−54 10.1	2.831	3.681	9.7	22.1	142 W	—	62
5 11	15 4.25	−54 0.2	2.811	3.675	9.3	22.1	144 E	—	62
5 16	14 57.53	−53 43.7	2.797	3.669	9.2	22.1	145 E	—	62
5 21	14 51.00	−53 20.7	2.789	3.663	9.2	22.1	145 E	—	63
5 26	14 44.81	−52 51.9	2.787	3.656	9.3	22.1	144 E	—	63
5 31	14 39.11	−52 17.8	2.792	3.650	9.7	22.1	143 E	—	64
6 5	14 34.01	−51 39.5	2.802	3.643	10.2	22.1	141 E	—	64

504869 2010 VQ_{25}

4 11	15 39.80	−17 14.6	1.866	2.745	12.2	22.2	145 W	28	81
4 21	15 32.51	−17 13.4	1.771	2.720	8.6	21.9	156 W	28	81
5 1	15 22.93	−17 6.9	1.700	2.694	4.5	21.6	168 W	28	81
5 11	15 11.90	−16 56.2	1.657	2.667	0.4	21.2	179 E	28	81
5 21	15 0.50	−16 43.8	1.642	2.639	4.8	21.5	167 E	28	81
5 31	14 49.93	−16 32.9	1.655	2.610	9.3	21.7	155 E	28	81

89958 2002 LY_{45}

4 11	15 40.29	−10 57.2	2.079	2.956	11.2	21.6	145 W	34	75
4 21	15 27.37	− 9 44.5	2.030	2.983	7.4	21.4	157 W	35	74
5 1	15 12.88	− 8 29.6	2.013	3.007	3.9	21.3	168 W	37	72
5 11	14 57.97	− 7 18.2	2.030	3.028	3.7	21.3	169 E	38	71
5 21	14 43.80	− 6 15.9	2.082	3.046	7.0	21.5	158 E	39	70
5 31	14 31.37	− 5 27.1	2.164	3.061	10.5	21.8	146 E	40	69

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
474451 2003 SR_{15}									
4 11	15 48.16	+ 2 43.8	0.591	1.509	24.6	22.5	141 W	48	61
4 16	15 41.98	+ 4 52.7	0.585	1.522	21.9	22.4	145 W	50	59
4 21	15 34.60	+ 6 55.6	0.583	1.534	19.7	22.3	149 W	52	57
4 26	15 26.31	+ 8 48.1	0.586	1.546	18.1	22.3	151 W	54	55
5 1	15 17.46	+10 26.5	0.593	1.557	17.5	22.3	152 W	55	54
5 6	15 8.47	+11 47.7	0.606	1.568	17.9	22.4	151 W	57	52
5 11	14 59.70	+12 50.2	0.623	1.577	19.2	22.5	149 E	58	51
5 16	14 51.50	+13 33.5	0.644	1.586	21.0	22.7	146 E	59	50
5 21	14 44.13	+13 58.2	0.670	1.594	23.0	22.8	142 E	59	50
5 26	14 37.83	+14 5.6	0.699	1.602	25.1	23.0	138 E	59	50
380434 2003 QV_{114}									
4 11	15 48.85	−11 34.2	1.284	2.169	16.2	21.2	143 W	33	76
4 21	15 44.08	−11 15.3	1.181	2.128	12.2	20.8	153 W	34	75
5 1	15 36.03	−10 55.3	1.100	2.087	7.5	20.4	164 W	34	75
5 11	15 25.43	−10 38.2	1.041	2.046	3.9	20.1	172 W	34	75
5 16	15 19.55	−10 32.3	1.021	2.026	4.5	20.1	171 E	34	75
5 21	15 13.53	−10 28.9	1.007	2.005	6.7	20.1	167 E	35	74
5 26	15 7.61	−10 28.7	0.998	1.984	9.4	20.2	161 E	35	74
5 31	15 2.00	−10 32.3	0.995	1.964	12.3	20.3	156 E	34	75
6 10	14 52.51	−10 52.2	1.005	1.923	17.9	20.5	144 E	34	75
6 20	14 46.23	−11 30.3	1.031	1.882	23.0	20.6	134 E	33	76
6 30	14 43.88	−12 26.3	1.071	1.843	27.2	20.8	124 E	32*	76
7 10	14 45.60	−13 38.4	1.118	1.804	30.7	20.9	115 E	30*	78
7 20	14 51.25	−15 3.6	1.172	1.766	33.3	21.1	107 E	27*	79
7 30	15 0.60	−16 38.8	1.227	1.729	35.3	21.2	100 E	25*	81
8 9	15 13.33	−18 20.5	1.284	1.694	36.6	21.3	94 E	22*	82
8 19	15 29.16	−20 4.8	1.340	1.662	37.5	21.4	89 E	20*	81*
8 29	15 47.90	−21 48.2	1.396	1.631	38.0	21.4	84 E	18*	78*
9 8	16 9.34	−23 26.4	1.449	1.603	38.1	21.5	79 E	17*	73*
9 18	16 33.28	−24 55.1	1.502	1.579	38.0	21.5	75 E	16*	69*
385240 2000 SW_{363}									
4 11	15 48.89	−20 16.9	1.941	2.798	12.8	21.4	142 W	25	84
4 21	15 42.81	−20 16.9	1.831	2.764	9.5	21.1	153 W	25	84
5 1	15 34.32	−20 9.7	1.745	2.730	5.6	20.8	165 W	25	84
5 11	15 24.13	−19 55.6	1.685	2.694	1.3	20.5	177 W	25	84
5 16	15 18.68	−19 46.4	1.666	2.676	1.2	20.4	177 E	25	84
5 21	15 13.19	−19 36.2	1.654	2.658	3.5	20.5	171 E	25	84
5 26	15 7.81	−19 25.5	1.649	2.640	5.8	20.7	165 E	26	83
5 31	15 2.70	−19 14.9	1.650	2.621	8.0	20.7	159 E	26	83
6 5	14 57.98	−19 4.7	1.658	2.603	10.2	20.8	153 E	26	83
6 10	14 53.76	−18 55.7	1.671	2.584	12.3	20.9	147 E	26	83
6 15	14 50.13	−18 48.2	1.690	2.565	14.2	21.0	142 E	26	83
6 20	14 47.17	−18 42.8	1.714	2.546	16.1	21.1	136 E	26	83
6 25	14 44.92	−18 39.6	1.742	2.527	17.7	21.1	131 E	26	83
6 30	14 43.42	−18 39.1	1.774	2.507	19.2	21.2	126 E	26*	83
7 5	14 42.68	−18 41.4	1.809	2.488	20.6	21.3	121 E	26*	83
7 10	14 42.68	−18 46.5	1.846	2.468	21.7	21.3	116 E	25*	83
7 15	14 43.42	−18 54.4	1.886	2.448	22.7	21.4	112 E	24*	83
7 20	14 44.87	−19 5.0	1.927	2.429	23.6	21.5	107 E	23*	83
382456 2000 QV_{84}									
4 11	15 51.27	− 8 36.7	2.346	3.198	11.1	21.4	142 W	36	73
4 21	15 45.68	− 7 38.3	2.248	3.174	8.4	21.1	153 W	37	72
5 1	15 38.32	− 6 38.7	2.175	3.149	5.7	20.9	162 W	38	71
5 11	15 29.76	− 5 42.3	2.131	3.123	4.1	20.8	167 W	39	70
5 21	15 20.77	− 4 53.3	2.115	3.097	5.5	20.8	163 E	40	69
5 31	15 12.15	− 4 15.7	2.127	3.069	8.4	21.0	154 E	41	68
6 10	15 4.69	− 3 52.2	2.164	3.041	11.5	21.1	143 E	41	68
6 20	14 58.94	− 3 43.8	2.223	3.011	14.2	21.2	133 E	41	68
6 30	14 55.29	− 3 50.4	2.300	2.981	16.6	21.4	123 E	41*	68
7 10	14 53.88	− 4 10.6	2.390	2.950	18.4	21.5	114 E	40*	68
335746 2007 EJ_{26}									
4 11	16 0.25	+15 3.3	1.261	2.083	20.4	21.4	134 W	60	49
4 16	15 57.14	+16 57.1	1.239	2.082	19.5	21.3	136 W	62	47
4 21	15 53.12	+18 46.7	1.224	2.081	18.9	21.3	138 W	64	45
4 26	15 48.31	+20 29.7	1.213	2.080	18.5	21.3	139 W	65	44
5 1	15 42.81	+22 3.5	1.208	2.078	18.5	21.2	139 W	67	42
5 6	15 36.80	+23 26.2	1.208	2.075	18.7	21.3	139 W	68	41
5 11	15 30.46	+24 36.0	1.214	2.072	19.3	21.3	137 W	70	39
5 16	15 23.99	+25 31.9	1.224	2.069	20.1	21.3	135 E	71	38
5 21	15 17.61	+26 13.2	1.239	2.065	21.0	21.4	133 E	71	38
5 26	15 11.51	+26 39.7	1.258	2.061	22.1	21.4	130 E	72	37
5 31	15 5.90	+26 52.1	1.281	2.057	23.2	21.5	127 E	72	37
6 5	15 0.92	+26 51.3	1.307	2.051	24.3	21.6	124 E	72	37
6 10	14 56.68	+26 38.4	1.336	2.046	25.4	21.6	120 E	72	37

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
393350 1992 RN_1									
4 11	16 8.52	−12 38.4	2.324	3.141	12.3	21.5	138 W	32	77
4 21	16 4.27	−12 4.4	2.189	3.091	9.8	21.2	149 W	33	76
5 1	15 57.87	−11 27.2	2.077	3.040	6.8	20.9	159 W	34	75
5 11	15 49.74	−10 49.4	1.991	2.988	3.9	20.6	169 W	34	75
5 21	15 40.52	−10 13.9	1.934	2.935	3.5	20.5	170 E	35	74
5 31	15 31.06	− 9 44.4	1.905	2.882	6.6	20.6	161 E	35	74
6 10	15 22.30	− 9 24.3	1.902	2.828	10.3	20.7	150 E	36	73
6 20	15 15.05	− 9 16.0	1.923	2.774	13.8	20.8	139 E	36	73
6 30	15 9.92	− 9 20.9	1.964	2.719	16.9	20.9	129 E	36	73
7 10	15 7.28	− 9 39.0	2.019	2.663	19.5	21.0	119 E	35*	74
7 20	15 7.26	−10 9.4	2.084	2.607	21.5	21.1	110 E	33*	74
7 30	15 9.85	−10 50.7	2.155	2.551	23.0	21.2	101 E	31*	75
8 9	15 14.92	−11 41.0	2.228	2.494	24.0	21.2	93 E	29*	76
8 19	15 22.33	−12 38.3	2.301	2.437	24.5	21.3	85 E	26*	75*
8 29	15 31.94	−13 40.7	2.371	2.380	24.5	21.3	78 E	24*	70*
9 8	15 43.57	−14 46.2	2.435	2.323	24.3	21.3	72 E	22*	64*
9 18	15 57.12	−15 52.8	2.494	2.266	23.8	21.3	65 E	21*	58*
9 28	16 12.50	−16 58.5	2.544	2.209	23.0	21.2	59 E	19*	53*
10 8	16 29.60	−18 1.3	2.587	2.152	22.0	21.2	54 E	18*	47*
10 18	16 48.36	−18 59.1	2.622	2.097	20.8	21.1	48 E	16*	41*
10 28	17 8.72	−19 49.7	2.648	2.042	19.5	21.0	43 E	15*	36*
11 7	17 30.59	−20 31.0	2.666	1.988	18.1	21.0	38 E	14*	31*
11 17	17 53.91	−21 0.7	2.677	1.936	16.5	20.9	34 E	13*	26*
11 27	18 18.57	−21 16.7	2.680	1.885	14.9	20.7	29 E	12*	21*
12 7	18 44.43	−21 17.0	2.678	1.836	13.3	20.6	25 E	11*	16*
12 17	19 11.35	−20 59.8	2.670	1.791	11.6	20.5	21 E	9*	12*
12 27	19 39.17	−20 23.8	2.658	1.748	9.9	20.4	18 E	7*	8*
1 6	20 7.67	−19 28.3	2.643	1.708	8.2	20.2	14 E	5*	5*
1 16	20 36.67	−18 12.8	2.627	1.672	6.5	20.1	11 E	3*	2*
153315 2001 NH_6									
4 11	16 11.99	+46 19.7	1.094	1.750	31.8	22.0	113 W	89	18
4 16	16 3.04	+47 30.2	1.094	1.759	31.4	22.0	114 W	87	16
4 21	15 52.64	+48 24.3	1.096	1.767	31.2	22.0	114 W	87	16
4 26	15 41.08	+48 59.7	1.100	1.774	31.0	22.0	115 W	86	15
5 1	15 28.77	+49 14.6	1.107	1.780	31.0	22.0	115 W	86	15
5 6	15 16.18	+49 8.1	1.116	1.784	31.1	22.0	114 W	86	15
5 11	15 3.79	+48 40.2	1.128	1.788	31.2	22.1	113 E	86	15
5 16	14 52.03	+47 52.1	1.142	1.791	31.4	22.1	112 E	87	16
5 21	14 41.27	+46 45.0	1.158	1.793	31.8	22.1	111 E	88	17
5 26	14 31.78	+45 21.3	1.177	1.794	32.1	22.2	110 E	90	19
5 31	14 23.70	+43 43.2	1.198	1.793	32.5	22.2	108 E	89	20
6 5	14 17.09	+41 53.6	1.221	1.792	32.9	22.3	106 E	87	22
430560 2002 NC_{32}									
4 11	16 23.37	−35 2.8	2.296	3.040	14.6	21.4	130 W	10	81
4 21	16 18.01	−34 44.7	2.176	3.019	12.2	21.2	140 W	10	81
5 1	16 10.00	−34 9.9	2.076	2.998	9.4	21.0	151 W	11	82
5 11	15 59.94	−33 16.0	2.002	2.976	6.3	20.8	161 W	12	83
5 21	15 48.74	−32 2.8	1.955	2.952	4.1	20.6	168 E	13	84
5 31	15 37.55	−30 33.3	1.937	2.928	5.1	20.6	165 E	14	85
6 10	15 27.50	−28 53.6	1.948	2.903	8.3	20.7	156 E	16	87
6 20	15 19.47	−27 11.5	1.986	2.877	11.8	20.9	145 E	18	89
6 30	15 14.01	−25 34.3	2.047	2.850	14.8	21.1	134 E	19	90
7 10	15 11.33	−24 7.7	2.126	2.821	17.4	21.2	124 E	21*	88
7 20	15 11.38	−22 54.7	2.219	2.792	19.4	21.3	114 E	21*	87
7 30	15 14.01	−21 56.2	2.321	2.762	20.8	21.5	105 E	21*	86
495891 2004 VS_{60}									
4 11	16 26.22	−29 13.8	1.168	1.979	22.3	21.2	131 W	16	87
4 16	16 27.04	−28 36.1	1.097	1.950	20.9	21.0	136 W	16	87
4 21	16 26.90	−27 49.3	1.030	1.920	19.1	20.8	141 W	17	88
4 26	16 25.74	−26 52.0	0.967	1.890	17.1	20.5	147 W	18	89
5 1	16 23.52	−25 43.2	0.909	1.860	14.6	20.3	152 W	19	90
5 6	16 20.28	−24 21.9	0.855	1.830	11.9	20.0	158 W	21	88
5 11	16 16.05	−22 47.1	0.807	1.800	8.8	19.7	164 W	22	87
5 16	16 10.93	−20 58.6	0.764	1.769	5.3	19.4	171 W	24	85
5 21	16 5.07	−18 56.8	0.727	1.739	2.0	19.0	177 W	26	83
5 26	15 58.69	−16 43.0	0.697	1.708	3.2	19.0	175 E	28	81
5 31	15 52.07	−14 20.0	0.673	1.678	7.3	19.1	168 E	31	78
6 5	15 45.52	−11 51.1	0.655	1.647	11.7	19.2	161 E	33	76
6 10	15 39.33	− 9 20.5	0.643	1.617	16.2	19.3	154 E	36	73
6 15	15 33.74	− 6 52.1	0.636	1.587	20.6	19.3	147 E	38	71
6 20	15 29.01	− 4 30.1	0.634	1.557	24.8	19.4	140 E	40	69
6 25	15 25.33	− 2 17.5	0.636	1.527	28.8	19.5	134 E	43	66
6 30	15 22.84	− 0 16.4	0.642	1.498	32.5	19.6	128 E	45	64
7 10	15 21.60	+ 3 8.1	0.658	1.441	38.9	19.7	117 E	48*	61
7 20	15 25.38	+ 5 43.6	0.678	1.386	44.2	19.9	108 E	50*	58
7 30	15 33.97	+ 7 36.7	0.698	1.335	48.3	20.0	101 E	50*	56

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
495891 2004 VS_{60} *(continuation)*									
8 4	15 39.94	+ 8 20.2	0.707	1.311	50.1	20.0	98 E	50*	56
8 9	15 46.96	+ 8 56.4	0.715	1.289	51.6	20.0	95 E	51*	55
8 14	15 54.99	+ 9 26.3	0.721	1.268	53.0	20.0	92 E	51*	55
8 19	16 4.02	+ 9 50.5	0.726	1.249	54.2	20.1	90 E	51*	54
8 24	16 14.02	+10 9.8	0.729	1.231	55.2	20.1	88 E	51*	54*
8 29	16 24.98	+10 24.9	0.731	1.215	56.1	20.1	87 E	51*	53*
9 8	16 49.75	+10 44.1	0.731	1.190	57.5	20.1	85 E	52*	52*
9 18	17 18.37	+10 50.0	0.726	1.173	58.3	20.1	84 E	53*	51*
9 28	17 51.01	+10 43.9	0.720	1.167	58.6	20.0	84 E	54*	51*
10 8	18 27.65	+10 26.4	0.715	1.170	58.2	20.0	84 E	55*	50*
10 18	19 8.10	+ 9 57.7	0.715	1.184	57.1	20.0	86 E	55*	50*
10 23	19 29.57	+ 9 39.9	0.718	1.194	56.3	20.0	87 E	55*	50*
10 28	19 51.70	+ 9 20.5	0.725	1.207	55.4	20.0	88 E	54	51*
11 2	20 14.28	+ 9 0.0	0.735	1.221	54.3	20.0	89 E	54	51*
11 7	20 37.12	+ 8 39.2	0.749	1.238	53.2	20.1	90 E	54	51*
11 12	21 0.00	+ 8 18.8	0.768	1.256	52.0	20.1	90 E	53	51*
11 17	21 22.72	+ 8 0.0	0.791	1.276	50.8	20.2	91 E	53	51*
11 22	21 45.08	+ 7 43.4	0.819	1.298	49.5	20.3	91 E	53	52*
11 27	22 6.89	+ 7 30.0	0.852	1.321	48.3	20.4	92 E	53	52*
12 2	22 28.02	+ 7 20.0	0.890	1.345	47.1	20.5	92 E	52	51*
12 7	22 48.39	+ 7 13.7	0.932	1.371	45.9	20.6	91 E	52	51*
12 12	23 7.94	+ 7 11.3	0.979	1.397	44.8	20.7	91 E	52	51*
12 17	23 26.67	+ 7 12.9	1.029	1.424	43.7	20.8	90 E	52	50*
12 22	23 44.59	+ 7 18.2	1.084	1.452	42.6	20.9	89 E	52	49*
12 27	0 1.73	+ 7 27.0	1.142	1.481	41.6	21.1	88 E	52	49*
1 1	0 18.12	+ 7 38.9	1.203	1.510	40.6	21.2	87 E	53	48*
1 6	0 33.82	+ 7 53.5	1.268	1.539	39.5	21.3	85 E	53	47*
1 11	0 48.89	+ 8 10.5	1.334	1.569	38.5	21.4	84 E	53	46*
367073 2006 PZ_{19}									
4 11	16 27.74	− 8 15.7	1.919	2.707	15.6	21.4	133 W	37	72
4 21	16 24.21	− 7 24.0	1.808	2.681	13.0	21.2	143 W	38	71
5 1	16 18.07	− 6 31.7	1.717	2.654	9.9	20.9	153 W	38	71
5 11	16 9.74	− 5 43.2	1.649	2.627	7.0	20.7	161 W	39	70
5 21	15 59.95	− 5 3.2	1.608	2.598	5.9	20.6	165 W	40	69
5 31	15 49.69	− 4 36.5	1.594	2.569	7.8	20.6	160 E	40	69
6 10	15 40.09	− 4 26.6	1.605	2.540	11.2	20.7	151 E	41	68
6 20	15 32.12	− 4 34.6	1.639	2.509	14.9	20.9	141 E	40	69
6 30	15 26.51	− 5 0.4	1.692	2.478	18.1	21.1	131 E	40	69
7 10	15 23.63	− 5 41.8	1.760	2.447	20.8	21.2	121 E	39*	70
7 20	15 23.59	− 6 36.1	1.838	2.414	22.9	21.3	112 E	37*	71
7 30	15 26.34	− 7 40.6	1.924	2.381	24.4	21.4	104 E	35*	72
171465 Evamaria									
4 11	16 32.82	− 8 53.0	3.658	4.393	9.8	21.4	132 W	36	73
4 21	16 29.91	− 8 20.3	3.544	4.379	8.1	21.2	142 W	37	72
5 1	16 25.65	− 7 48.2	3.452	4.365	6.3	21.1	152 W	37	72
5 11	16 20.31	− 7 18.5	3.386	4.350	4.5	20.9	160 W	38	71
5 21	16 14.27	− 6 53.2	3.348	4.335	3.3	20.8	166 W	38	71
5 31	16 7.97	− 6 33.9	3.338	4.320	3.8	20.9	164 E	38	71
6 10	16 1.90	− 6 22.2	3.358	4.305	5.5	20.9	156 E	39	70
6 20	15 56.48	− 6 18.7	3.404	4.290	7.5	21.1	147 E	39	70
6 30	15 52.09	− 6 23.8	3.474	4.274	9.3	21.2	137 E	39	70
7 10	15 49.00	− 6 37.0	3.564	4.258	10.9	21.3	127 E	38	71
7 20	15 47.36	− 6 57.7	3.670	4.242	12.2	21.4	118 E	38*	71
7 30	15 47.26	− 7 24.8	3.789	4.226	13.1	21.5	109 E	36*	71
455263 2001 UM_{221}									
4 11	16 35.60	−20 23.7	1.516	2.302	19.2	21.5	131 W	25	84
4 21	16 28.85	−21 32.7	1.458	2.334	15.3	21.3	142 W	23	86
5 1	16 18.65	−22 38.7	1.419	2.367	10.7	21.1	154 W	22	87
5 11	16 5.89	−23 37.9	1.405	2.398	5.8	20.9	166 W	21	88
5 21	15 51.89	−24 26.9	1.419	2.429	1.8	20.7	176 W	21	88
5 31	15 38.25	−25 4.8	1.461	2.460	5.2	21.0	167 E	20	89
6 10	15 26.47	−25 33.4	1.529	2.489	9.7	21.3	156 E	19	90
6 20	15 17.51	−25 56.4	1.622	2.518	13.6	21.6	144 E	19	90
501771 2014 UQ_{204}									
4 11	16 42.54	−15 15.2	1.390	2.172	20.8	21.3	130 W	30	79
4 21	16 42.81	−14 30.3	1.278	2.142	17.8	21.0	139 W	30	79
5 1	16 39.69	−13 38.6	1.182	2.113	14.0	20.7	149 W	31	78
5 11	16 33.36	−12 43.2	1.105	2.083	9.7	20.3	160 W	32	77
5 16	16 29.14	−12 15.4	1.075	2.068	7.4	20.2	165 W	33	76
5 21	16 24.38	−11 48.5	1.051	2.053	5.6	20.0	169 W	33	76
5 26	16 19.25	−11 23.3	1.032	2.038	4.9	19.9	170 W	34	75
5 31	16 13.93	−11 0.5	1.019	2.023	5.9	19.9	168 E	34	75
6 5	16 8.64	−10 41.1	1.013	2.008	7.9	20.0	164 E	34	75
6 10	16 3.57	−10 25.6	1.011	1.993	10.5	20.1	159 E	35	74
6 15	15 58.91	−10 14.6	1.015	1.978	13.1	20.2	154 E	35	74
6 20	15 54.83	−10 8.5	1.024	1.963	15.7	20.3	148 E	35	74

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
501771 2014 UQ_{204} *(continuation)*									
6 30	15 48.97	−10 11.7	1.055	1.934	20.6	20.5	138 E	35	74
7 10	15 46.68	−10 34.8	1.101	1.906	24.7	20.7	128 E	34	75
7 20	15 48.18	−11 15.1	1.157	1.878	28.1	20.8	120 E	34*	75
7 30	15 53.39	−12 9.2	1.220	1.852	30.7	21.0	112 E	32*	76
8 9	16 2.03	−13 12.7	1.287	1.826	32.5	21.1	104 E	30*	77
8 19	16 13.77	−14 21.7	1.358	1.801	33.8	21.3	98 E	29*	78
8 29	16 28.30	−15 32.3	1.429	1.778	34.6	21.4	92 E	27*	79*
9 8	16 45.30	−16 40.6	1.501	1.757	34.9	21.4	87 E	26*	77*
332079 2005 TZ_{27}									
4 11	16 43.32	−19 21.1	1.416	2.192	20.7	21.5	129 W	26	83
4 21	16 38.96	−18 45.8	1.347	2.214	16.9	21.3	140 W	26	83
5 1	16 31.06	−18 3.3	1.297	2.236	12.3	21.0	152 W	27	82
5 11	16 20.39	−17 15.5	1.268	2.255	7.2	20.8	164 W	28	81
5 21	16 8.15	−16 25.7	1.265	2.274	2.4	20.6	175 W	29	80
5 31	15 55.86	−15 38.5	1.288	2.292	4.7	20.8	169 E	29	80
6 10	15 45.02	−14 59.4	1.337	2.308	9.6	21.1	158 E	30	79
6 20	15 36.67	−14 32.1	1.409	2.323	14.1	21.4	146 E	30	79
265196 2004 BW_{58}									
4 11	16 44.89	+ 4 57.4	1.070	1.854	25.6	21.5	127 W	50	59
4 16	16 41.52	+ 5 56.7	1.046	1.868	23.8	21.4	131 W	51	58
4 21	16 37.00	+ 6 53.4	1.026	1.881	21.9	21.3	136 W	52	57
4 26	16 31.39	+ 7 45.7	1.010	1.894	20.0	21.2	140 W	53	56
5 1	16 24.82	+ 8 31.8	0.999	1.906	18.2	21.1	144 W	54	55
5 6	16 17.46	+ 9 10.0	0.992	1.918	16.7	21.1	147 W	54	55
5 11	16 9.52	+ 9 38.7	0.991	1.929	15.6	21.1	149 W	55	54
5 16	16 1.25	+ 9 57.0	0.996	1.939	15.1	21.1	150 W	55	54
5 21	15 52.90	+10 3.9	1.006	1.948	15.2	21.1	150 W	55	54
5 26	15 44.75	+ 9 59.4	1.021	1.957	15.8	21.2	148 E	55	54
5 31	15 37.07	+ 9 43.7	1.043	1.965	17.0	21.3	146 E	55	54
6 5	15 30.04	+ 9 17.8	1.069	1.972	18.4	21.4	142 E	54	55
6 10	15 23.83	+ 8 42.8	1.100	1.978	19.9	21.5	138 E	54	55
6 15	15 18.53	+ 8 0.0	1.136	1.984	21.5	21.6	134 E	53	56
6 20	15 14.21	+ 7 10.7	1.176	1.989	23.0	21.7	130 E	52	57
65909 1998 FH_{12}									
4 11	16 46.48	−15 51.1	0.821	1.646	28.3	21.1	129 W	29	80
4 16	16 43.58	−15 26.9	0.768	1.635	26.1	20.9	134 W	30	79
4 21	16 38.93	−14 58.7	0.718	1.623	23.3	20.6	140 W	30	79
4 26	16 32.36	−14 26.1	0.671	1.609	20.1	20.4	147 W	31	78
5 1	16 23.76	−13 48.7	0.628	1.594	16.5	20.1	153 W	31	78
5 11	16 0.44	−12 18.9	0.559	1.560	8.3	19.5	167 W	33	76
5 21	15 30.25	−10 32.2	0.513	1.519	7.3	19.2	169 E	34	75
5 31	14 57.24	− 8 42.7	0.493	1.472	17.8	19.4	154 E	36	73
6 5	14 41.40	− 7 53.6	0.492	1.446	23.6	19.6	145 E	37	72
6 10	14 26.79	− 7 11.5	0.496	1.418	29.2	19.7	137 E	38	71
6 15	14 13.82	− 6 38.1	0.503	1.389	34.6	19.9	129 E	38	71
6 20	14 2.69	− 6 14.3	0.514	1.358	39.5	20.0	122 E	39*	70
6 30	13 46.13	− 5 55.1	0.538	1.291	48.4	20.2	108 E	36*	70
7 10	13 36.25	− 6 8.8	0.562	1.217	56.1	20.4	97 E	32*	70
7 20	13 31.35	− 6 46.7	0.579	1.135	63.3	20.5	86 E	28*	71*
7 30	13 29.59	− 7 40.3	0.584	1.047	70.6	20.6	77 E	23*	67*
8 9	13 28.61	− 8 39.2	0.573	0.951	79.2	20.6	67 E	18*	60*
8 19	13 25.24	− 9 28.4	0.546	0.849	90.4	20.7	57 E	14*	51*
8 29	13 14.14	− 9 40.0	0.504	0.744	106.5	21.0	45 E	9*	39*
507411 2012 MQ_{6}									
4 11	16 48.98	− 0 29.6	2.036	2.758	16.9	21.3	127 W	45	64
4 21	16 45.38	− 0 20.0	1.905	2.722	14.8	21.1	136 W	45	64
5 1	16 38.93	− 0 19.7	1.792	2.685	12.2	20.8	146 W	45	64
5 11	16 29.85	− 0 33.6	1.701	2.647	9.5	20.6	154 W	44	65
5 21	16 18.69	− 1 5.9	1.635	2.609	7.7	20.4	160 W	44	65
5 31	16 6.36	− 1 59.1	1.597	2.570	8.1	20.3	159 E	43	66
6 10	15 54.05	− 3 13.6	1.587	2.531	10.7	20.4	152 E	42	67
6 20	15 42.94	− 4 47.0	1.602	2.491	14.2	20.5	143 E	40	69
6 30	15 34.02	− 6 35.3	1.640	2.450	17.6	20.6	133 E	38	71
7 10	15 27.92	− 8 34.2	1.697	2.410	20.6	20.8	123 E	36*	73
7 20	15 24.90	−10 39.8	1.767	2.369	23.1	20.9	114 E	34*	75
7 30	15 25.01	−12 49.0	1.847	2.328	24.9	21.0	105 E	30*	77
8 9	15 28.11	−14 59.5	1.932	2.286	26.1	21.1	97 E	26*	79
8 19	15 33.98	−17 9.8	2.019	2.245	26.8	21.2	89 E	23*	80*
8 29	15 42.45	−19 18.5	2.105	2.203	27.0	21.2	82 E	20*	75*
9 8	15 53.30	−21 24.6	2.188	2.162	26.8	21.3	75 E	17*	69*
9 18	16 6.40	−23 26.7	2.265	2.121	26.2	21.3	69 E	15*	63*
9 28	16 21.64	−25 23.9	2.337	2.081	25.4	21.3	63 E	12*	57*
10 8	16 38.92	−27 14.5	2.401	2.041	24.3	21.3	57 E	10*	51*
10 18	16 58.19	−28 56.9	2.457	2.002	23.1	21.3	52 E	9*	46*
10 28	17 19.40	−30 29.4	2.504	1.964	21.7	21.2	47 E	7*	41*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
507411 2012 MQ_6 *(continuation)*									
11 7	17 42.48	−31 49.8	2.543	1.927	20.2	21.2	42 E	5*	36*
11 17	18 7.38	−32 55.9	2.573	1.892	18.7	21.1	38 E	4*	32*
11 27	18 33.96	−33 45.3	2.595	1.858	17.2	21.0	34 E	3*	28*
12 7	19 2.06	−34 15.7	2.610	1.826	15.7	20.9	30 E	2*	24*
12 17	19 31.47	−34 24.9	2.618	1.796	14.3	20.9	27 E	—	21*
12 27	20 1.91	−34 11.1	2.621	1.769	13.1	20.8	24 E	—	18*
1 6	20 33.05	−33 33.1	2.619	1.744	12.1	20.7	22 E	—	16*
1 16	21 4.57	−32 30.5	2.613	1.722	11.3	20.7	20 E	—	14*
151723 2003 BX_{63}									
4 11	16 50.26	− 6 57.8	2.614	3.322	13.8	21.4	128 W	38	71
4 21	16 46.53	− 6 10.9	2.523	3.334	11.7	21.2	137 W	39	70
5 1	16 40.78	− 5 25.8	2.453	3.345	9.4	21.1	147 W	40	69
5 11	16 33.41	− 4 45.7	2.407	3.356	7.0	21.0	156 W	40	69
5 21	16 24.94	− 4 13.4	2.388	3.365	5.3	20.9	162 W	41	68
5 31	16 16.09	− 3 51.7	2.397	3.374	5.5	20.9	162 E	41	68
6 10	16 7.59	− 3 42.4	2.435	3.382	7.3	21.0	155 E	41	68
6 20	16 0.10	− 3 45.9	2.498	3.389	9.7	21.2	146 E	41	68
6 30	15 54.13	− 4 1.8	2.586	3.395	11.9	21.3	136 E	41	68
363491 2003 TP									
4 11	16 54.65	−10 45.2	1.442	2.194	21.5	21.3	127 W	34	75
4 21	16 55.87	− 7 58.8	1.321	2.156	19.1	21.0	136 W	37	72
5 1	16 53.84	− 4 49.6	1.218	2.118	16.2	20.7	144 W	40	69
5 11	16 48.62	− 1 24.9	1.136	2.079	13.5	20.4	151 W	44	65
5 16	16 44.92	+ 0 19.8	1.104	2.060	12.6	20.3	154 W	45	64
5 21	16 40.61	+ 2 3.2	1.079	2.040	12.2	20.2	155 W	47	62
5 26	16 35.83	+ 3 43.3	1.059	2.021	12.5	20.2	154 W	49	60
5 31	16 30.75	+ 5 17.7	1.046	2.002	13.4	20.2	153 E	50	59
6 5	16 25.56	+ 6 44.4	1.038	1.982	14.8	20.2	150 E	52	57
6 10	16 20.45	+ 8 1.6	1.036	1.963	16.6	20.2	146 E	53	56
6 15	16 15.59	+ 9 8.2	1.039	1.944	18.6	20.3	142 E	54	55
6 20	16 11.17	+10 3.2	1.046	1.925	20.7	20.3	138 E	55	54
6 30	16 4.26	+11 17.8	1.072	1.888	24.7	20.5	129 E	56	53
7 10	16 0.61	+11 48.5	1.110	1.851	28.1	20.6	121 E	57	52
7 20	16 0.57	+11 41.9	1.155	1.815	31.0	20.7	113 E	57*	52
7 30	16 4.24	+11 5.8	1.204	1.780	33.2	20.8	106 E	55*	53
8 9	16 11.41	+10 8.0	1.254	1.747	34.8	20.9	100 E	54*	54
8 19	16 21.83	+ 8 54.9	1.303	1.716	36.0	21.0	95 E	52*	55
8 29	16 35.23	+ 7 31.8	1.351	1.686	36.8	21.1	90 E	50*	56*
9 8	16 51.34	+ 6 3.4	1.397	1.659	37.3	21.1	86 E	48*	57*
9 18	17 9.94	+ 4 33.5	1.442	1.634	37.5	21.2	82 E	46*	57*
9 28	17 30.82	+ 3 5.8	1.485	1.612	37.5	21.2	78 E	45*	55*
10 8	17 53.77	+ 1 43.7	1.527	1.594	37.3	21.2	75 E	44*	53*
10 18	18 18.57	+ 0 30.2	1.570	1.579	36.9	21.3	72 E	43*	51*
10 28	18 45.01	− 0 31.5	1.614	1.567	36.4	21.3	69 E	42*	48*
11 7	19 12.78	− 1 19.2	1.661	1.559	35.7	21.3	67 E	42*	45*
11 17	19 41.61	− 1 50.8	1.712	1.555	34.8	21.4	64 E	41*	41*
11 27	20 11.18	− 2 5.2	1.767	1.555	33.8	21.4	61 E	41*	38*
12 7	20 41.17	− 2 2.1	1.828	1.559	32.6	21.4	58 E	40*	34*
12 17	21 11.28	− 1 42.1	1.894	1.566	31.3	21.5	56 E	40*	30*
364141 2006 DC_{42}									
4 11	16 57.58	−29 56.5	1.120	1.879	26.0	21.4	125 W	15	86
4 21	16 57.28	−30 1.2	1.041	1.885	22.4	21.1	134 W	15	86
5 1	16 52.23	−29 51.6	0.974	1.889	17.9	20.9	145 W	15	86
5 11	16 42.74	−29 23.6	0.924	1.893	12.4	20.6	156 W	16	87
5 21	16 29.90	−28 33.9	0.895	1.896	6.4	20.2	168 W	16	87
5 26	16 22.81	−28 1.1	0.888	1.898	3.9	20.1	173 W	17	88
5 31	16 15.68	−27 23.8	0.888	1.899	3.6	20.1	173 E	18	89
6 5	16 8.79	−26 43.3	0.893	1.899	5.8	20.2	169 E	18	89
6 10	16 2.41	−26 0.8	0.905	1.900	8.7	20.4	164 E	19	90
6 15	15 56.76	−25 18.0	0.921	1.901	11.7	20.5	158 E	20	89
6 20	15 52.01	−24 36.1	0.943	1.901	14.6	20.7	152 E	20	89
6 25	15 48.29	−23 56.7	0.970	1.901	17.3	20.8	146 E	21	88
6 30	15 45.66	−23 20.6	1.000	1.901	19.7	21.0	141 E	22	87
7 5	15 44.12	−22 48.6	1.035	1.900	21.9	21.1	136 E	22	87
7 10	15 43.66	−22 21.1	1.073	1.900	23.9	21.3	131 E	23	86
7 15	15 44.22	−21 58.1	1.114	1.899	25.6	21.4	126 E	23*	86
503848 4702 P–L									
4 11	17 7.61	−22 24.2	1.302	2.034	24.3	21.4	123 W	23	86
4 21	17 12.21	−22 31.8	1.182	2.000	21.9	21.1	132 W	22	87
5 1	17 13.41	−22 36.1	1.076	1.967	18.6	20.8	142 W	22	87
5 11	17 10.94	−22 37.3	0.985	1.934	14.3	20.4	152 W	22	87
5 21	17 4.83	−22 35.0	0.912	1.902	9.0	20.0	163 W	22	87
5 26	17 0.58	−22 32.2	0.883	1.886	6.1	19.8	169 W	22	87
5 31	16 55.73	−22 28.4	0.859	1.871	3.0	19.5	175 W	23	86

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
503848 4702 P–L *(continuation)*									
6 5	16 50.49	−22 23.7	0.841	1.855	0.3	19.2	179 E	23	86
6 10	16 45.08	−22 18.1	0.828	1.840	3.6	19.5	173 E	23	86
6 15	16 39.73	−22 12.1	0.820	1.825	7.0	19.6	167 E	23	86
6 20	16 34.71	−22 6.1	0.818	1.810	10.3	19.7	161 E	23	86
6 25	16 30.26	−22 0.7	0.820	1.796	13.5	19.8	156 E	23	86
6 30	16 26.58	−21 56.5	0.827	1.782	16.6	19.9	150 E	23	86
7 5	16 23.85	−21 53.9	0.839	1.768	19.4	20.0	145 E	23	86
7 10	16 22.15	−21 53.4	0.853	1.755	22.1	20.1	139 E	23	86
7 20	16 22.10	−21 59.3	0.892	1.730	26.8	20.3	130 E	23	86
7 30	16 26.60	−22 14.6	0.941	1.707	30.5	20.5	121 E	23*	86
8 9	16 35.41	−22 37.3	0.996	1.686	33.3	20.7	114 E	22*	87
8 19	16 48.08	−23 4.1	1.057	1.667	35.4	20.9	107 E	21*	87
8 29	17 4.16	−23 31.0	1.121	1.650	36.9	21.0	101 E	21*	88
9 8	17 23.16	−23 53.8	1.188	1.637	37.7	21.2	96 E	20*	88
9 18	17 44.60	−24 8.4	1.257	1.626	38.2	21.3	91 E	20*	85*
9 28	18 8.08	−24 11.3	1.328	1.618	38.2	21.4	87 E	20*	81*
10 8	18 33.13	−23 59.4	1.401	1.614	37.9	21.5	83 E	21*	76*
399325 1999 GY_5									
4 11	17 9.53	− 4 6.0	0.719	1.515	33.9	21.5	123 W	41	68
4 16	17 1.17	− 1 32.5	0.706	1.546	30.5	21.4	129 W	43	66
4 21	16 51.23	+ 1 1.7	0.698	1.576	27.0	21.3	135 W	46	63
4 26	16 39.89	+ 3 32.3	0.695	1.603	23.7	21.3	140 W	49	60
5 1	16 27.46	+ 5 54.5	0.699	1.629	20.9	21.2	145 W	51	58
5 6	16 14.33	+ 8 3.6	0.709	1.654	18.8	21.2	148 W	53	56
5 11	16 0.98	+ 9 55.5	0.725	1.677	17.7	21.3	150 W	55	54
5 16	15 47.84	+11 27.6	0.749	1.698	17.8	21.3	149 W	56	53
5 21	15 35.37	+12 38.6	0.779	1.718	18.7	21.5	147 E	58	51
5 26	15 23.93	+13 28.8	0.815	1.737	20.3	21.7	143 E	58	51
5 31	15 13.78	+13 59.7	0.856	1.754	22.2	21.9	139 E	59	50
6 5	15 5.07	+14 13.6	0.902	1.770	24.0	22.0	135 E	59	50
6 10	14 57.82	+14 13.2	0.952	1.784	25.8	22.2	130 E	59	50
6 15	14 52.02	+14 0.8	1.005	1.797	27.4	22.4	126 E	59	50
6318 Cronkite									
4 11	17 12.16	−19 11.8	2.864	3.506	13.9	21.4	123 W	26	83
4 21	17 7.94	−19 34.3	2.759	3.524	12.0	21.3	133 W	25	84
5 1	17 1.49	−19 56.7	2.673	3.541	9.5	21.1	144 W	25	84
5 11	16 53.11	−20 18.5	2.611	3.558	6.6	20.9	156 W	25	84
5 21	16 43.27	−20 38.9	2.577	3.573	3.4	20.8	168 W	24	85
5 31	16 32.68	−20 57.4	2.573	3.587	0.3	20.5	179 W	24	85
6 10	16 22.16	−21 13.9	2.600	3.600	3.4	20.8	168 E	24	85
6 20	16 12.46	−21 29.0	2.658	3.612	6.5	21.0	156 E	24	85
6 30	16 4.23	−21 43.9	2.743	3.623	9.3	21.2	145 E	23	86
7 10	15 57.91	−22 0.0	2.852	3.632	11.6	21.4	134 E	23	86
335052 2004 RA_{110}									
4 11	17 15.14	−53 6.9	2.568	3.124	16.9	21.4	115 W	—	63
4 16	17 14.45	−53 38.3	2.498	3.108	16.4	21.3	119 W	—	62
4 21	17 12.78	−54 7.8	2.430	3.092	15.9	21.2	123 W	—	62
4 26	17 10.10	−54 34.7	2.367	3.075	15.2	21.2	127 W	—	61
5 1	17 6.40	−54 58.0	2.307	3.058	14.5	21.1	130 W	—	61
5 6	17 1.69	−55 17.0	2.252	3.041	13.8	21.0	134 W	—	61
5 11	16 56.03	−55 30.5	2.201	3.024	13.0	20.9	138 W	—	60
5 16	16 49.53	−55 37.6	2.156	3.007	12.3	20.8	141 W	—	60
5 21	16 42.31	−55 37.2	2.115	2.989	11.7	20.7	143 W	—	60
5 26	16 34.58	−55 28.7	2.081	2.971	11.2	20.6	145 W	—	61
5 31	16 26.58	−55 11.4	2.052	2.953	10.9	20.6	147 E	—	61
6 5	16 18.56	−54 45.3	2.030	2.934	10.8	20.6	147 E	—	61
6 10	16 10.78	−54 10.7	2.014	2.916	11.0	20.5	147 E	—	62
6 15	16 3.46	−53 28.0	2.004	2.897	11.5	20.5	145 E	—	63
6 20	15 56.80	−52 38.2	1.999	2.878	12.2	20.5	143 E	—	63
6 25	15 50.97	−51 42.5	2.001	2.859	13.1	20.6	140 E	—	64
6 30	15 46.08	−50 42.2	2.009	2.839	14.1	20.6	137 E	—	65
7 5	15 42.20	−49 38.7	2.021	2.820	15.2	20.6	134 E	—	66
7 10	15 39.34	−48 33.4	2.039	2.800	16.2	20.7	130 E	—	67
7 15	15 37.49	−47 27.4	2.061	2.780	17.3	20.7	126 E	—	69
7 20	15 36.64	−46 21.8	2.087	2.759	18.3	20.7	122 E	—	70
7 25	15 36.73	−45 17.5	2.117	2.739	19.2	20.8	118 E	—	71
7 30	15 37.72	−44 15.2	2.150	2.718	20.0	20.8	113 E	—	72
8 4	15 39.54	−43 15.4	2.186	2.697	20.8	20.9	109 E	—	73
8 9	15 42.13	−42 18.4	2.223	2.676	21.4	20.9	105 E	1*	74
8 14	15 45.43	−41 24.3	2.263	2.655	22.0	21.0	101 E	1*	75
8 19	15 49.40	−40 33.3	2.303	2.633	22.4	21.0	97 E	2*	75*
8 24	15 53.99	−39 45.4	2.345	2.612	22.7	21.0	94 E	2*	75*
8 29	15 59.14	−39 0.3	2.387	2.590	23.0	21.0	90 E	3*	75*
9 3	16 4.81	−38 17.9	2.429	2.568	23.1	21.1	86 E	3*	73*
9 8	16 10.95	−37 37.9	2.472	2.546	23.1	21.1	83 E	4*	71*
9 13	16 17.54	−37 0.1	2.513	2.523	23.0	21.1	79 E	4*	69*
9 18	16 24.55	−36 24.1	2.554	2.501	22.9	21.1	76 E	4*	66*
9 23	16 31.95	−35 49.8	2.594	2.478	22.7	21.1	72 E	5*	63*

335052 2004 RA_{110} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	−26°
	h m	° ′			°	m	°	°	°
9 28	16 39.70	−35 16.7	2.633	2.455	22.4	21.1	69 E	5*	61*
10 3	16 47.77	−34 44.4	2.670	2.432	22.0	21.1	66 E	5*	58*
10 8	16 56.16	−34 12.8	2.705	2.409	21.5	21.1	62 E	6*	55*
10 13	17 4.82	−33 41.4	2.739	2.386	21.0	21.1	59 E	6*	52*
10 18	17 13.76	−33 10.0	2.771	2.363	20.5	21.1	56 E	6*	50*
10 23	17 22.94	−32 38.3	2.800	2.340	19.8	21.1	53 E	6*	47*
10 28	17 32.35	−32 5.9	2.828	2.316	19.2	21.1	50 E	7*	44*
11 2	17 41.96	−31 32.6	2.852	2.292	18.4	21.0	47 E	7*	41*
11 7	17 51.76	−30 58.2	2.875	2.269	17.7	21.0	44 E	7*	38*
11 12	18 1.73	−30 22.2	2.895	2.245	16.8	21.0	41 E	7*	35*
11 17	18 11.87	−29 44.7	2.912	2.221	16.0	20.9	38 E	7*	32*
11 22	18 22.15	−29 5.2	2.927	2.198	15.1	20.9	35 E	7*	29*
11 27	18 32.55	−28 23.5	2.939	2.174	14.2	20.8	33 E	7*	26*
12 2	18 43.07	−27 39.6	2.948	2.150	13.2	20.8	30 E	7*	23*
12 7	18 53.68	−26 53.2	2.954	2.126	12.2	20.7	27 E	7*	20*
12 12	19 4.38	−26 4.0	2.958	2.102	11.2	20.7	25 E	7*	17*
12 17	19 15.15	−25 12.1	2.959	2.079	10.2	20.6	22 E	6*	14*
12 22	19 25.99	−24 17.2	2.957	2.055	9.1	20.5	19 E	6*	12*
12 27	19 36.88	−23 19.2	2.953	2.032	8.1	20.5	17 E	5*	9*
1 1	19 47.81	−22 18.0	2.946	2.008	7.0	20.4	14 E	4*	6*
1 6	19 58.78	−21 13.5	2.937	1.985	5.9	20.3	12 E	3*	4*
1 11	20 9.78	−20 5.6	2.925	1.962	4.8	20.2	10 E	2*	1*
1 16	20 20.80	−18 54.2	2.911	1.939	3.7	20.1	7 E	—	—

497133 2004 PV_{97}

4 11	17 19.60	−29 3.5	1.302	2.001	25.7	21.4	120 W	16	87
4 21	17 25.78	−30 8.2	1.186	1.972	23.6	21.1	128 W	15	86
5 1	17 28.48	−31 15.6	1.081	1.943	20.7	20.7	137 W	14	85
5 11	17 27.24	−32 23.9	0.991	1.915	17.0	20.4	146 W	13	84
5 21	17 21.82	−33 28.8	0.917	1.887	12.6	20.0	156 W	12	83
5 26	17 17.62	−33 57.7	0.888	1.874	10.3	19.9	161 W	11	82
5 31	17 12.61	−34 22.9	0.863	1.860	8.3	19.7	165 W	11	82
6 5	17 6.98	−34 43.4	0.844	1.847	6.9	19.6	167 W	10	81
6 10	17 0.96	−34 58.5	0.829	1.834	6.8	19.5	168 E	10	81
6 15	16 54.84	−35 7.8	0.821	1.822	8.1	19.5	165 E	10	81
6 20	16 48.91	−35 11.0	0.817	1.809	10.3	19.6	161 E	10	81
6 25	16 43.49	−35 8.8	0.818	1.797	12.9	19.7	157 E	10	81
6 30	16 38.86	−35 1.9	0.824	1.785	15.6	19.8	152 E	10	81
7 5	16 35.21	−34 51.3	0.834	1.774	18.3	19.9	147 E	10	81
7 10	16 32.71	−34 38.1	0.847	1.763	20.8	20.0	142 E	10	81
7 15	16 31.43	−34 23.3	0.865	1.753	23.2	20.1	137 E	11	82
7 20	16 31.43	−34 7.8	0.885	1.742	25.4	20.2	133 E	11	82
7 30	16 35.25	−33 37.2	0.933	1.723	29.1	20.4	124 E	11	82
8 9	16 43.84	−33 9.2	0.990	1.706	32.0	20.6	117 E	12*	83
8 19	16 56.61	−32 43.2	1.052	1.691	34.2	20.8	110 E	12*	83
8 29	17 12.97	−32 17.1	1.120	1.678	35.7	20.9	104 E	12*	84
9 8	17 32.26	−31 47.7	1.190	1.668	36.7	21.1	98 E	13*	84
9 18	17 53.92	−31 11.5	1.263	1.660	37.2	21.2	93 E	13*	84*
9 28	18 17.43	−30 25.5	1.339	1.655	37.3	21.3	89 E	14*	82*
10 8	18 42.27	−29 27.0	1.417	1.652	37.0	21.4	84 E	15*	78*

498046 2007 PT_{27}

4 11	17 24.91	−18 46.3	1.309	2.003	25.8	21.3	120 W	26	83
4 21	17 31.63	−18 18.1	1.184	1.966	23.9	21.0	128 W	27	82
5 1	17 35.28	−17 44.1	1.071	1.930	21.1	20.6	136 W	27	82
5 11	17 35.48	−17 6.1	0.972	1.895	17.4	20.2	146 W	28	81
5 21	17 32.03	−16 26.6	0.889	1.860	12.8	19.8	156 W	29	80
5 31	17 25.21	−15 48.5	0.825	1.825	7.7	19.4	166 W	29	80
6 5	17 20.81	−15 31.2	0.800	1.808	5.4	19.2	170 W	29	80
6 10	17 15.97	−15 15.9	0.781	1.792	4.4	19.1	172 W	30	79
6 15	17 10.90	−15 2.9	0.766	1.775	5.7	19.1	170 E	30	79
6 20	17 5.84	−14 52.9	0.757	1.759	8.3	19.2	166 E	30	79
6 25	17 1.06	−14 46.4	0.753	1.744	11.3	19.3	160 E	30	79
6 30	16 56.79	−14 43.8	0.753	1.728	14.4	19.4	155 E	30	79
7 5	16 53.25	−14 45.4	0.757	1.714	17.4	19.5	150 E	30	79
7 10	16 50.59	−14 51.1	0.766	1.699	20.4	19.6	144 E	30	79
7 20	16 48.39	−15 14.7	0.793	1.672	25.6	19.8	135 E	30	79
7 30	16 50.74	−15 52.5	0.830	1.646	29.9	20.0	126 E	29	80
8 9	16 57.64	−16 40.2	0.876	1.623	33.4	20.2	118 E	28*	81
8 19	17 8.75	−17 33.0	0.927	1.603	36.0	20.3	111 E	27*	82
8 29	17 23.67	−18 25.7	0.983	1.586	37.9	20.5	105 E	26*	82
9 8	17 41.88	−19 13.3	1.042	1.572	39.1	20.6	100 E	26*	83
9 18	18 2.88	−19 51.1	1.104	1.561	39.9	20.8	95 E	25*	84*
9 28	18 26.23	−20 15.1	1.168	1.554	40.1	20.9	91 E	25*	82*
10 8	18 51.41	−20 22.0	1.236	1.550	40.1	21.0	87 E	25*	79*
10 18	19 17.94	−20 9.4	1.306	1.550	39.7	21.1	83 E	25*	75*
10 28	19 45.41	−19 36.0	1.380	1.554	39.0	21.2	80 E	25*	71*
11 7	20 13.35	−18 41.8	1.457	1.561	38.1	21.3	77 E	26*	66*
11 17	20 41.44	−17 27.4	1.538	1.572	37.1	21.4	73 E	28*	62*

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

507639 2013 LU_{34}

4 11	17 30.43	−26 13.7	1.202	1.891	27.9	21.2	118 W	19	90
4 16	17 35.13	−25 12.6	1.140	1.874	27.1	21.1	122 W	20	89
4 21	17 39.05	−24 3.0	1.080	1.857	26.0	20.9	126 W	21	88
4 26	17 42.11	−22 44.4	1.023	1.840	24.7	20.7	130 W	22	87
5 1	17 44.26	−21 16.4	0.969	1.823	23.2	20.5	134 W	24	85
5 6	17 45.47	−19 38.5	0.920	1.807	21.5	20.4	139 W	25	84
5 11	17 45.71	−17 50.8	0.875	1.790	19.6	20.2	144 W	27	82
5 21	17 43.24	−13 47.3	0.798	1.759	15.3	19.8	153 W	31	78
5 31	17 37.20	− 9 15.0	0.742	1.730	11.6	19.5	160 W	36	73
6 10	17 28.71	− 4 33.5	0.710	1.703	11.1	19.3	161 W	40	69
6 15	17 24.01	− 2 17.5	0.702	1.690	12.5	19.3	159 E	43	66
6 20	17 19.33	− 0 9.5	0.700	1.678	14.7	19.4	155 E	45	64
6 25	17 14.92	+ 1 47.6	0.703	1.666	17.3	19.5	151 E	47	62
6 30	17 11.00	+ 3 31.4	0.711	1.655	20.0	19.6	146 E	49	60
7 5	17 7.78	+ 5 0.8	0.723	1.645	22.7	19.7	141 E	50	59
7 10	17 5.37	+ 6 15.3	0.738	1.635	25.2	19.8	137 E	51	58
7 20	17 3.41	+ 8 0.8	0.777	1.618	29.5	20.0	128 E	53	56
7 30	17 5.57	+ 8 55.2	0.825	1.604	32.9	20.2	121 E	54	55
8 9	17 11.78	+ 9 9.7	0.879	1.594	35.4	20.4	115 E	54	55
8 14	17 16.28	+ 9 5.3	0.907	1.590	36.3	20.5	112 E	54	55
8 19	17 21.68	+ 8 54.7	0.936	1.587	37.1	20.6	109 E	54*	55
8 24	17 27.91	+ 8 39.2	0.965	1.585	37.7	20.6	107 E	54*	55
8 29	17 34.92	+ 8 19.9	0.995	1.583	38.2	20.7	104 E	53*	56
9 3	17 42.65	+ 7 57.6	1.026	1.583	38.5	20.8	102 E	53*	56
9 8	17 51.04	+ 7 33.2	1.057	1.584	38.8	20.9	100 E	52*	56
9 13	18 0.05	+ 7 7.5	1.089	1.585	38.9	20.9	98 E	52*	57
9 18	18 9.64	+ 6 41.1	1.121	1.588	39.0	21.0	96 E	52*	57
9 23	18 19.77	+ 6 14.7	1.154	1.591	38.9	21.1	95 E	51*	58*
9 28	18 30.38	+ 5 48.9	1.187	1.595	38.8	21.1	93 E	51*	58*
10 3	18 41.42	+ 5 24.3	1.222	1.600	38.7	21.2	92 E	50*	58*
10 8	18 52.84	+ 5 1.4	1.257	1.606	38.5	21.3	90 E	50*	57*
10 13	19 4.61	+ 4 40.5	1.294	1.613	38.2	21.3	89 E	50*	57*
10 18	19 16.70	+ 4 21.9	1.331	1.620	37.9	21.4	87 E	49*	56*
10 23	19 29.05	+ 4 6.2	1.370	1.629	37.5	21.5	86 E	49*	55*

498550 2008 HV_4

4 11	17 38.06	−20 30.2	0.741	1.488	37.1	21.3	116 W	24	85
4 21	17 36.64	−16 21.8	0.696	1.525	32.0	21.1	126 W	29	80
5 1	17 29.18	−11 47.6	0.663	1.560	26.0	20.9	137 W	33	76
5 11	17 16.33	− 7 3.0	0.645	1.594	19.7	20.7	148 W	38	71
5 21	16 59.69	− 2 33.6	0.648	1.625	14.8	20.5	156 W	42	67
5 31	16 41.83	+ 1 11.2	0.674	1.655	14.0	20.6	157 W	46	63
6 10	16 25.52	+ 3 51.3	0.721	1.682	17.2	20.9	151 E	49	60
6 20	16 12.73	+ 5 23.6	0.788	1.707	21.6	21.3	142 E	50	59
6 30	16 4.47	+ 5 57.2	0.869	1.729	25.6	21.7	133 E	51	58

325766 2010 JX_{140}

4 11	17 45.13	−22 52.0	1.847	2.442	21.9	21.3	115 W	22	87
4 21	17 48.58	−22 22.8	1.707	2.414	20.3	21.1	124 W	23	86
5 1	17 49.05	−21 48.0	1.578	2.385	17.9	20.8	133 W	23	86
5 11	17 46.32	−21 7.7	1.465	2.356	14.7	20.5	144 W	24	85
5 21	17 40.38	−20 22.1	1.371	2.326	10.8	20.2	155 W	25	84
5 31	17 31.62	−19 31.6	1.299	2.295	6.2	19.9	166 W	25	84
6 5	17 26.44	−19 5.0	1.272	2.280	3.8	19.7	171 W	26	83
6 10	17 20.93	−18 38.0	1.251	2.265	2.1	19.5	175 W	26	83
6 15	17 15.26	−18 11.0	1.237	2.249	3.1	19.5	173 E	27	82
6 20	17 9.60	−17 44.5	1.229	2.233	5.5	19.6	168 E	27	82
6 25	17 4.15	−17 19.1	1.228	2.218	8.1	19.7	162 E	28	81
6 30	16 59.11	−16 55.4	1.233	2.202	10.7	19.8	156 E	28	81
7 5	16 54.62	−16 34.0	1.243	2.186	13.2	19.9	151 E	28	81
7 10	16 50.81	−16 15.2	1.258	2.170	15.6	20.0	145 E	29	80
7 20	16 45.57	−15 46.9	1.302	2.138	19.9	20.2	134 E	29	80
7 30	16 43.87	−15 31.4	1.360	2.106	23.5	20.4	124 E	29	80
8 9	16 45.74	−15 27.8	1.428	2.074	26.2	20.5	115 E	29*	79
8 19	16 51.00	−15 33.9	1.503	2.042	28.3	20.7	107 E	29*	80
8 29	16 59.36	−15 46.8	1.581	2.011	29.7	20.8	99 E	28*	80
9 8	17 10.51	−16 3.3	1.661	1.980	30.6	20.9	92 E	28*	80*
9 18	17 24.11	−16 20.2	1.740	1.949	31.0	21.0	86 E	27*	76*
9 28	17 39.91	−16 34.6	1.816	1.919	31.0	21.0	80 E	27*	71*
10 8	17 57.61	−16 43.7	1.890	1.890	30.7	21.1	75 E	26*	66*
10 18	18 17.00	−16 44.8	1.961	1.862	30.1	21.1	69 E	26*	60*
10 28	18 37.86	−16 35.9	2.027	1.835	29.3	21.1	65 E	26*	55*
11 7	18 59.95	−16 15.0	2.089	1.809	28.3	21.1	60 E	26*	49*
11 17	19 23.09	−15 40.7	2.148	1.785	27.2	21.1	56 E	26*	44*
11 27	19 47.08	−14 51.9	2.202	1.762	25.9	21.1	51 E	27*	38*
12 7	20 11.73	−13 48.1	2.252	1.742	24.6	21.1	47 E	27*	33*
12 17	20 36.88	−12 29.3	2.299	1.724	23.1	21.1	43 E	26*	28*
12 27	21 2.39	−10 55.9	2.343	1.707	21.6	21.1	40 E	26*	23*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
325766 2010 JX_{140} *(continuation)*									
1 6	21 28.11	− 9 8.9	2.384	1.694	20.1	21.0	36 E	25*	18*
1 16	21 53.98	− 7 9.8	2.423	1.683	18.4	21.0	33 E	23*	14*
512979 2017 UA_{10}									
4 11	17 53.58	−33 32.1	1.537	2.130	25.8	21.5	112 W	11	82
4 16	17 58.14	−33 52.5	1.471	2.114	25.2	21.3	116 W	11	82
4 21	18 2.02	−34 12.9	1.407	2.099	24.5	21.2	120 W	11	82
4 26	18 5.12	−34 33.3	1.345	2.083	23.6	21.0	124 W	10	81
5 1	18 7.39	−34 53.6	1.285	2.068	22.5	20.9	128 W	10	81
5 6	18 8.75	−35 13.5	1.229	2.052	21.2	20.7	133 W	10	81
5 11	18 9.16	−35 32.8	1.177	2.036	19.7	20.6	137 W	9	80
5 16	18 8.54	−35 51.0	1.127	2.021	18.0	20.4	142 W	9	80
5 21	18 6.87	−36 7.5	1.082	2.006	16.2	20.3	146 W	9	80
5 26	18 4.14	−36 21.4	1.042	1.990	14.2	20.1	151 W	9	80
5 31	18 0.41	−36 31.8	1.005	1.975	12.1	19.9	156 W	8	79
6 5	17 55.79	−36 37.6	0.974	1.960	10.0	19.8	160 W	8	79
6 10	17 50.42	−36 38.1	0.948	1.945	8.2	19.6	164 W	8	79
6 15	17 44.50	−36 32.3	0.928	1.930	7.0	19.5	167 W	8	79
6 20	17 38.28	−36 19.9	0.912	1.915	7.1	19.4	167 E	9	80
6 25	17 32.06	−36 0.6	0.903	1.901	8.4	19.5	164 E	9	80
6 30	17 26.14	−35 35.1	0.898	1.887	10.5	19.5	160 E	9	80
7 5	17 20.80	−35 4.2	0.899	1.873	12.9	19.6	156 E	10	81
7 10	17 16.25	−34 28.9	0.904	1.859	15.5	19.7	151 E	11	82
7 15	17 12.68	−33 50.5	0.914	1.845	18.1	19.8	146 E	11	82
7 20	17 10.22	−33 10.4	0.928	1.832	20.5	19.9	141 E	12	83
7 25	17 8.96	−32 29.6	0.946	1.819	22.8	20.0	136 E	13	84
7 30	17 8.91	−31 49.1	0.967	1.806	24.9	20.1	131 E	13	84
8 9	17 12.37	−30 32.0	1.017	1.782	28.6	20.2	123 E	14	85
8 19	17 20.20	−29 21.3	1.075	1.760	31.4	20.4	115 E	16*	87
8 29	17 31.89	−28 16.8	1.139	1.739	33.6	20.6	108 E	17*	88
9 8	17 46.82	−27 16.0	1.208	1.720	35.0	20.7	102 E	18*	89
9 18	18 4.42	−26 15.5	1.279	1.704	35.9	20.9	96 E	19*	90*
9 28	18 24.22	−25 12.2	1.352	1.689	36.4	21.0	90 E	20*	84*
10 8	18 45.72	−24 2.7	1.427	1.677	36.4	21.1	86 E	21*	79*
10 18	19 8.54	−22 44.7	1.503	1.668	36.2	21.2	81 E	22*	74*
10 28	19 32.34	−21 16.3	1.580	1.661	35.6	21.3	77 E	24*	69*
11 7	19 56.77	−19 36.4	1.658	1.658	34.8	21.3	73 E	25*	63*
11 17	20 21.59	−17 44.5	1.736	1.657	33.8	21.4	69 E	27*	58*
11 27	20 46.61	−15 40.9	1.815	1.658	32.6	21.5	65 E	29*	52*
290074 Donasadock									
4 11	18 2.09	+ 6 58.3	2.012	2.506	22.4	21.5	108 W	52	57
4 21	18 3.44	+ 8 37.8	1.927	2.524	21.1	21.4	115 W	54	55
5 1	18 1.93	+10 12.0	1.853	2.541	19.5	21.2	123 W	55	54
5 11	17 57.58	+11 34.3	1.791	2.557	17.7	21.1	130 W	57	52
5 21	17 50.63	+12 37.6	1.745	2.572	15.8	21.0	136 W	58	51
5 31	17 41.60	+13 14.7	1.719	2.586	14.3	20.9	141 W	58	51
6 10	17 31.37	+13 20.4	1.713	2.599	13.5	20.9	143 W	58	51
6 20	17 20.94	+12 52.9	1.729	2.612	13.6	21.0	143 E	58	51
6 30	17 11.37	+11 53.9	1.768	2.623	14.7	21.1	139 E	57	52
7 10	17 3.55	+10 28.7	1.827	2.633	16.2	21.2	134 E	55	54
7 20	16 58.03	+ 8 44.2	1.904	2.642	17.9	21.3	127 E	54	55
383006 2005 LE_{19}									
4 11	18 9.31	−16 14.5	1.543	2.094	26.9	21.5	109 W	29	80
4 21	18 19.47	−15 23.6	1.399	2.050	26.1	21.2	116 W	30	79
5 1	18 27.42	−14 26.3	1.265	2.007	24.7	20.9	124 W	31	78
5 11	18 32.79	−13 24.9	1.141	1.963	22.6	20.5	132 W	32	77
5 21	18 35.16	−12 22.3	1.030	1.920	19.7	20.2	140 W	33	76
5 31	18 34.23	−11 22.6	0.934	1.878	16.1	19.8	149 W	34	75
6 5	18 32.53	−10 55.3	0.893	1.857	14.1	19.6	154 W	34	75
6 10	18 30.04	−10 30.7	0.856	1.836	12.0	19.4	158 W	34	75
6 15	18 26.84	−10 9.6	0.823	1.816	10.1	19.2	162 W	35	74
6 20	18 23.03	− 9 52.5	0.795	1.796	8.5	19.1	165 W	35	74
6 25	18 18.77	− 9 40.4	0.773	1.776	7.8	18.9	166 W	35	74
6 30	18 14.28	− 9 33.7	0.755	1.757	8.4	18.9	165 E	35	74
7 10	18 5.47	− 9 37.9	0.733	1.720	12.5	18.9	159 E	35	74
7 20	17 58.39	−10 5.6	0.729	1.685	17.9	19.1	149 E	35	74
7 30	17 54.65	−10 54.0	0.741	1.653	23.3	19.2	140 E	34	75
8 4	17 54.37	−11 24.2	0.752	1.637	25.8	19.3	135 E	34	75
8 9	17 55.24	−11 57.4	0.765	1.623	28.0	19.4	131 E	33	76
8 14	17 57.28	−12 32.7	0.780	1.609	30.1	19.5	127 E	32	77
8 19	18 0.50	−13 9.2	0.798	1.596	32.0	19.6	123 E	32	77
8 24	18 4.88	−13 46.1	0.818	1.584	33.7	19.7	120 E	31	78
8 29	18 10.39	−14 22.5	0.839	1.573	35.1	19.7	116 E	31	78
9 8	18 24.52	−15 30.8	0.885	1.554	37.5	19.9	110 E	29	80
9 18	18 42.37	−16 28.4	0.936	1.539	39.1	20.1	105 E	29	80
9 28	19 3.41	−17 10.3	0.991	1.528	40.2	20.2	100 E	28	81

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
383006 2005 LE_{19} *(continuation)*									
10 8	19 26.98	−17 32.5	1.051	1.522	40.8	20.3	96 E	27	81*
10 18	19 52.49	−17 32.5	1.115	1.521	40.9	20.5	92 E	27	80*
10 28	20 19.37	−17 8.6	1.184	1.524	40.7	20.6	88 E	28	76*
11 7	20 47.05	−16 21.1	1.258	1.532	40.1	20.7	85 E	29	72*
11 17	21 15.07	−15 11.0	1.337	1.544	39.3	20.8	82 E	30	68*
11 27	21 43.06	−13 40.7	1.421	1.561	38.3	21.0	79 E	31	63*
12 7	22 10.72	−11 53.3	1.511	1.581	37.1	21.1	75 E	33	58*
12 17	22 37.89	− 9 52.2	1.606	1.606	35.7	21.2	72 E	35	53*
12 27	23 4.48	− 7 40.9	1.706	1.633	34.2	21.3	69 E	37*	48*
1 6	23 30.43	− 5 22.9	1.811	1.664	32.5	21.5	66 E	39*	44*
511061 2013 SM_{84}									
4 11	18 12.12	−12 47.7	1.452	2.002	28.4	21.4	108 W	32*	77
4 21	18 22.43	−10 4.7	1.325	1.969	27.6	21.1	115 W	35	74
5 1	18 30.23	− 6 57.7	1.209	1.937	26.3	20.8	122 W	38	71
5 11	18 35.15	− 3 28.7	1.106	1.905	24.6	20.6	128 W	42	67
5 21	18 36.86	+ 0 17.1	1.019	1.874	22.6	20.3	135 W	45	64
5 26	18 36.45	+ 2 13.4	0.981	1.860	21.5	20.2	138 W	47	62
5 31	18 35.20	+ 4 9.7	0.948	1.845	20.6	20.0	140 W	49	60
6 5	18 33.16	+ 6 4.2	0.920	1.831	19.8	19.9	142 W	51	58
6 10	18 30.38	+ 7 54.5	0.896	1.817	19.3	19.8	144 W	53	56
6 15	18 26.97	+ 9 38.4	0.877	1.804	19.0	19.8	145 W	55	54
6 20	18 23.05	+11 13.5	0.863	1.791	19.2	19.7	145 W	56	53
6 25	18 18.79	+12 37.6	0.853	1.779	19.6	19.7	144 W	58	51
6 30	18 14.40	+13 49.1	0.848	1.767	20.4	19.7	143 E	59	50
7 5	18 10.09	+14 46.7	0.846	1.756	21.5	19.7	141 E	60	49
7 10	18 6.05	+15 29.9	0.849	1.745	22.8	19.7	138 E	61	48
7 15	18 2.47	+15 58.7	0.854	1.734	24.1	19.8	136 E	61	48
7 20	17 59.53	+16 13.4	0.863	1.725	25.5	19.8	133 E	61	48
7 25	17 57.38	+16 14.9	0.875	1.716	26.9	19.9	130 E	61	48
7 30	17 56.12	+16 4.4	0.889	1.707	28.2	20.0	127 E	61	48
8 4	17 55.84	+15 43.5	0.905	1.700	29.5	20.0	124 E	61	48
8 9	17 56.54	+15 13.6	0.923	1.693	30.6	20.1	122 E	60	49
8 14	17 58.25	+14 36.0	0.943	1.686	31.7	20.2	119 E	60	49
8 19	18 0.96	+13 52.2	0.964	1.681	32.6	20.2	116 E	59	50
8 24	18 4.65	+13 3.5	0.987	1.676	33.4	20.3	114 E	58	51
8 29	18 9.29	+12 11.2	1.011	1.672	34.2	20.4	112 E	57	52
9 3	18 14.82	+11 16.5	1.036	1.668	34.8	20.4	109 E	56	53
9 8	18 21.19	+10 20.4	1.062	1.666	35.3	20.5	107 E	55	54
9 13	18 28.35	+ 9 23.7	1.090	1.664	35.7	20.6	105 E	54	55
9 18	18 36.24	+ 8 27.3	1.118	1.663	36.1	20.6	103 E	53	56
9 23	18 44.82	+ 7 31.9	1.148	1.663	36.3	20.7	101 E	53	56
9 28	18 54.02	+ 6 38.5	1.179	1.663	36.5	20.7	99 E	52	57
10 3	19 3.79	+ 5 47.4	1.211	1.664	36.6	20.8	97 E	51	58*
10 8	19 14.07	+ 4 59.4	1.245	1.667	36.7	20.9	95 E	50	59*
10 13	19 24.80	+ 4 14.7	1.280	1.669	36.6	20.9	93 E	49	59*
10 18	19 35.95	+ 3 33.8	1.317	1.673	36.5	21.0	92 E	49	59*
10 23	19 47.46	+ 2 57.2	1.355	1.678	36.4	21.1	90 E	48	58*
10 28	19 59.27	+ 2 25.1	1.394	1.683	36.2	21.1	88 E	47	58*
11 2	20 11.33	+ 1 57.7	1.435	1.689	35.9	21.2	86 E	47	57*
11 7	20 23.60	+ 1 35.0	1.477	1.695	35.6	21.3	84 E	47	55*
11 12	20 36.04	+ 1 17.2	1.521	1.703	35.2	21.3	82 E	46	54*
11 17	20 48.60	+ 1 4.2	1.567	1.711	34.8	21.4	81 E	46	52*
11 22	21 1.26	+ 0 56.1	1.614	1.719	34.3	21.4	79 E	46*	50*
11 27	21 13.97	+ 0 52.8	1.662	1.729	33.8	21.5	77 E	46*	49*
398577 2011 WK_{45}									
4 11	18 16.17	−21 56.8	1.512	2.051	27.8	21.5	108 W	23*	86
4 21	18 26.75	−21 24.6	1.374	2.015	26.9	21.2	115 W	24	85
5 1	18 34.93	−20 47.1	1.244	1.978	25.4	20.9	123 W	24	85
5 11	18 40.26	−20 5.7	1.124	1.942	23.1	20.6	131 W	25	84
5 21	18 42.27	−19 22.0	1.016	1.906	20.0	20.2	140 W	26	83
5 31	18 40.58	−18 37.4	0.923	1.870	15.8	19.8	150 W	26	83
6 10	18 35.23	−17 53.7	0.847	1.835	10.8	19.4	160 W	27	82
6 20	18 26.67	−17 12.6	0.790	1.800	5.4	19.0	170 W	28	81
6 25	18 21.56	−16 53.8	0.769	1.782	3.8	18.8	173 W	28	81
6 30	18 16.17	−16 36.6	0.753	1.766	4.7	18.8	172 E	28	81
7 5	18 10.78	−16 21.3	0.743	1.749	7.3	18.9	167 E	29	80
7 10	18 5.62	−16 8.3	0.737	1.733	10.5	19.0	162 E	29	80
7 15	18 0.95	−15 57.9	0.736	1.716	13.7	19.1	156 E	29	80
7 20	17 56.99	−15 50.4	0.740	1.701	16.9	19.2	151 E	29	80
7 25	17 53.94	−15 45.9	0.747	1.686	19.9	19.3	146 E	29	80
7 30	17 51.96	−15 44.4	0.758	1.671	22.8	19.4	140 E	29	80
8 9	17 51.46	−15 49.4	0.789	1.642	27.8	19.6	131 E	29	80
8 19	17 55.71	−16 2.8	0.829	1.616	31.9	19.8	122 E	29	80
8 29	18 4.55	−16 20.6	0.876	1.593	35.1	20.0	115 E	29	80
9 8	18 17.51	−16 37.9	0.927	1.572	37.4	20.1	109 E	28	81
9 18	18 34.04	−16 50.3	0.982	1.553	39.1	20.3	103 E	28	81
9 28	18 53.62	−16 53.3	1.040	1.539	40.2	20.4	98 E	28	81
10 8	19 15.67	−16 43.3	1.099	1.527	40.8	20.5	93 E	28	80*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
398577 2011 WK_{45} *(continuation)*									
10 18	19 39.68	−16 17.4	1.162	1.520	41.0	20.6	89 E	29	77*
10 28	20 5.18	−15 33.8	1.227	1.515	40.8	20.8	85 E	29	73*
11 7	20 31.70	−14 31.6	1.294	1.515	40.4	20.9	82 E	30	68*
11 17	20 58.85	−13 11.2	1.365	1.519	39.6	21.0	79 E	32	64*
11 27	21 26.32	−11 33.4	1.440	1.526	38.7	21.1	75 E	33	59*
12 7	21 53.81	− 9 40.6	1.518	1.537	37.6	21.2	72 E	35*	53*
12 17	22 21.16	− 7 35.0	1.600	1.551	36.4	21.3	69 E	37*	48*
12 27	22 48.24	− 5 19.5	1.685	1.569	34.9	21.4	66 E	39*	44*
1 6	23 14.96	− 2 57.2	1.775	1.590	33.4	21.4	63 E	41*	39*
210705 2000 SY_{155}									
4 11	18 17.13	−26 25.3	2.320	2.789	20.0	21.5	107 W	19*	90
4 21	18 20.42	−26 48.8	2.175	2.773	18.9	21.3	116 W	18	89
5 1	18 21.03	−27 15.5	2.040	2.756	17.2	21.1	126 W	18	89
5 11	18 18.71	−27 45.2	1.919	2.738	14.8	20.8	136 W	17	88
5 21	18 13.36	−28 16.4	1.815	2.719	11.7	20.6	147 W	17	88
5 31	18 5.12	−28 46.5	1.732	2.699	8.1	20.3	158 W	16	87
6 5	18 0.08	−28 59.9	1.700	2.689	6.1	20.2	164 W	16	87
6 10	17 54.57	−29 11.8	1.675	2.678	4.2	20.0	169 W	16	87
6 15	17 48.71	−29 21.7	1.656	2.668	2.6	19.9	173 W	16	87
6 20	17 42.65	−29 29.2	1.645	2.657	2.5	19.9	173 E	16	87
6 25	17 36.58	−29 34.3	1.640	2.646	4.1	20.0	169 E	15	86
6 30	17 30.66	−29 36.9	1.642	2.634	6.1	20.1	164 E	15	86
7 5	17 25.07	−29 37.3	1.651	2.623	8.2	20.2	158 E	15	86
7 10	17 19.94	−29 35.8	1.666	2.611	10.3	20.3	153 E	15	86
7 15	17 15.40	−29 32.7	1.687	2.599	12.3	20.3	147 E	15	86
7 20	17 11.54	−29 28.4	1.713	2.587	14.2	20.4	141 E	16	87
7 30	17 6.18	−29 18.2	1.780	2.562	17.4	20.6	131 E	16	87
8 9	17 4.12	−29 8.3	1.861	2.536	20.0	20.8	121 E	16	87
8 19	17 5.33	−29 0.4	1.953	2.510	22.0	20.9	112 E	16*	87
8 29	17 9.63	−28 55.2	2.051	2.482	23.4	21.0	103 E	16*	87
9 8	17 16.72	−28 52.1	2.153	2.454	24.1	21.1	95 E	15*	87*
9 18	17 26.27	−28 50.2	2.255	2.426	24.4	21.2	87 E	15*	81*
9 28	17 38.03	−28 47.9	2.355	2.396	24.3	21.3	80 E	15*	74*
10 8	17 51.69	−28 43.5	2.450	2.366	23.9	21.3	73 E	14*	67*
10 18	18 7.01	−28 35.2	2.540	2.336	23.1	21.4	67 E	14*	61*
10 28	18 23.80	−28 21.5	2.623	2.305	22.1	21.4	61 E	14*	55*
11 7	18 41.81	−28 0.8	2.698	2.273	20.8	21.4	55 E	14*	48*
11 17	19 0.89	−27 31.7	2.764	2.241	19.4	21.3	49 E	14*	42*
11 27	19 20.85	−26 53.1	2.821	2.209	17.8	21.3	43 E	13*	36*
12 7	19 41.52	−26 3.9	2.868	2.176	16.2	21.2	38 E	13*	30*
12 17	20 2.76	−25 3.7	2.905	2.144	14.4	21.2	33 E	12*	24*
12 27	20 24.44	−23 51.9	2.932	2.111	12.5	21.1	28 E	10*	19*
1 6	20 46.43	−22 28.4	2.949	2.078	10.6	21.0	23 E	8*	14*
1 16	21 8.66	−20 53.3	2.957	2.045	8.6	20.9	18 E	6*	10*
453319 2008 VM_{77}									
4 11	18 29.36	−21 0.7	1.587	2.077	27.9	21.4	104 W	24*	85
4 21	18 34.64	−22 34.4	1.501	2.109	26.0	21.3	113 W	22*	87
5 1	18 36.42	−24 22.1	1.423	2.140	23.4	21.1	123 W	21	88
5 11	18 34.33	−26 24.0	1.356	2.172	20.0	20.9	133 W	19	90
5 21	18 28.14	−28 36.8	1.305	2.203	15.8	20.8	144 W	16	87
5 31	18 18.02	−30 52.8	1.275	2.234	11.2	20.6	155 W	14	85
6 10	18 4.83	−33 1.2	1.269	2.265	6.7	20.4	165 W	12	83
6 15	17 57.52	−33 59.0	1.276	2.280	5.2	20.4	168 W	11	82
6 20	17 50.04	−34 51.1	1.290	2.295	5.1	20.4	169 E	10	81
6 25	17 42.63	−35 36.6	1.311	2.310	6.2	20.5	166 E	9	80
6 30	17 35.56	−36 15.5	1.339	2.325	8.0	20.6	161 E	9	80
7 5	17 29.04	−36 47.8	1.373	2.340	10.0	20.8	156 E	8	79
7 10	17 23.23	−37 14.0	1.412	2.354	12.0	20.9	151 E	8	79
7 15	17 18.29	−37 34.9	1.457	2.369	13.9	21.1	146 E	7	78
7 20	17 14.28	−37 51.2	1.508	2.383	15.7	21.2	141 E	7	78
7 25	17 11.28	−38 3.8	1.563	2.397	17.2	21.4	136 E	7	78
138155 2000 ES_{70}									
4 11	18 35.74	+ 7 2.2	1.888	2.280	25.7	21.4	100 W	52*	57
4 21	18 39.61	+ 9 21.2	1.802	2.297	24.8	21.3	106 W	54*	55
5 1	18 40.53	+11 40.0	1.722	2.314	23.6	21.2	113 W	57	52
5 11	18 38.32	+13 51.9	1.652	2.329	22.0	21.1	120 W	59	50
5 21	18 32.92	+15 49.2	1.593	2.342	20.3	21.0	127 W	61	48
5 31	18 24.57	+17 22.3	1.550	2.353	18.7	20.9	132 W	62	47
6 10	18 13.90	+18 22.1	1.524	2.363	17.3	20.8	136 W	63	46
6 20	18 1.91	+18 41.8	1.517	2.371	16.7	20.8	138 W	64	45
6 30	17 49.84	+18 18.8	1.530	2.377	17.0	20.8	137 E	63	46
7 10	17 39.00	+17 16.0	1.563	2.382	18.0	20.9	134 E	62	47
7 20	17 30.34	+15 40.5	1.614	2.385	19.4	21.0	129 E	61	48
7 30	17 24.53	+13 41.4	1.682	2.387	21.0	21.1	123 E	59	50
8 9	17 21.79	+11 28.6	1.762	2.386	22.5	21.3	116 E	56	53
8 19	17 22.05	+ 9 10.0	1.854	2.384	23.7	21.4	109 E	54*	55

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
389694 2011 QD_{48}									
4 11	18 37.14	−47 20.3	1.372	1.874	31.4	21.5	103 W	—	69
4 16	18 39.28	−48 30.9	1.343	1.899	30.3	21.4	107 W	—	67
4 21	18 40.00	−49 43.3	1.315	1.923	29.2	21.4	111 W	—	66
4 26	18 39.15	−50 56.9	1.289	1.946	27.8	21.3	115 W	—	65
5 1	18 36.56	−52 10.5	1.265	1.969	26.4	21.3	120 W	—	64
5 6	18 32.09	−53 22.7	1.243	1.991	24.9	21.2	124 W	—	63
5 11	18 25.62	−54 31.5	1.225	2.012	23.3	21.2	128 W	—	61
5 16	18 17.11	−55 34.4	1.210	2.032	21.6	21.1	132 W	—	60
5 21	18 6.58	−56 28.5	1.199	2.051	20.1	21.1	136 W	—	60
5 26	17 54.27	−57 10.9	1.193	2.070	18.6	21.0	139 W	—	59
5 31	17 40.58	−57 39.1	1.193	2.088	17.3	21.0	142 W	—	58
6 5	17 26.06	−57 51.2	1.197	2.105	16.4	21.0	144 W	—	58
6 10	17 11.38	−57 46.6	1.208	2.122	15.8	21.0	145 E	—	58
6 15	16 57.18	−57 25.8	1.223	2.138	15.7	21.0	145 E	—	59
6 20	16 44.07	−56 50.4	1.245	2.153	16.0	21.1	144 E	—	59
6 25	16 32.50	−56 2.9	1.272	2.167	16.7	21.2	142 E	—	60
6 30	16 22.74	−55 6.3	1.305	2.181	17.6	21.3	140 E	—	61
7 5	16 14.89	−54 3.8	1.342	2.194	18.6	21.4	136 E	—	62
308004 2004 RT_{110}									
4 11	18 42.56	−44 51.3	2.592	2.971	19.2	21.4	102 W	—	71
4 16	18 44.76	−45 12.6	2.527	2.970	18.9	21.3	106 W	—	71
4 21	18 46.19	−45 34.6	2.463	2.969	18.5	21.3	111 W	—	70
4 26	18 46.82	−45 57.1	2.401	2.968	17.9	21.2	115 W	—	70
5 1	18 46.58	−46 19.7	2.342	2.967	17.2	21.1	119 W	—	70
5 6	18 45.45	−46 42.0	2.285	2.965	16.5	21.0	124 W	—	69
5 11	18 43.40	−47 3.5	2.232	2.963	15.6	21.0	128 W	—	69
5 16	18 40.41	−47 23.4	2.182	2.961	14.6	20.9	133 W	—	69
5 21	18 36.47	−47 41.0	2.137	2.959	13.5	20.8	137 W	—	68
5 26	18 31.63	−47 55.4	2.097	2.956	12.4	20.7	141 W	—	68
5 31	18 25.96	−48 5.6	2.062	2.953	11.3	20.6	145 W	—	68
6 5	18 19.58	−48 10.7	2.033	2.950	10.2	20.5	149 W	—	68
6 10	18 12.62	−48 10.0	2.010	2.947	9.2	20.5	152 W	—	68
6 15	18 5.25	−48 2.8	1.993	2.943	8.5	20.4	154 W	—	68
6 20	17 57.69	−47 48.8	1.983	2.939	8.2	20.4	156 W	—	68
6 25	17 50.15	−47 27.9	1.980	2.935	8.3	20.4	155 E	—	69
6 30	17 42.85	−47 0.4	1.983	2.930	8.8	20.4	154 E	—	69
7 5	17 35.98	−46 26.9	1.993	2.926	9.6	20.5	151 E	—	70
7 10	17 29.70	−45 48.2	2.010	2.921	10.7	20.5	148 E	—	70
7 15	17 24.15	−45 5.3	2.032	2.915	11.9	20.6	144 E	—	71
7 20	17 19.42	−44 19.3	2.060	2.910	13.1	20.7	140 E	1	72
7 25	17 15.57	−43 31.2	2.094	2.904	14.3	20.7	135 E	1	72
7 30	17 12.63	−42 42.1	2.133	2.898	15.4	20.8	131 E	2	73
8 4	17 10.60	−41 52.8	2.176	2.892	16.5	20.9	126 E	3	74
8 9	17 9.44	−41 4.0	2.222	2.886	17.4	21.0	122 E	4	75
8 14	17 9.12	−40 16.3	2.273	2.879	18.3	21.0	117 E	5*	76
8 19	17 9.61	−39 30.0	2.326	2.872	19.0	21.1	113 E	5*	76
8 24	17 10.85	−38 45.6	2.381	2.865	19.6	21.2	108 E	6*	77
8 29	17 12.80	−38 3.0	2.439	2.857	20.1	21.2	104 E	7*	78
9 3	17 15.40	−37 22.5	2.497	2.849	20.4	21.3	100 E	7*	79
9 8	17 18.60	−36 43.9	2.557	2.841	20.7	21.3	96 E	8*	79*
9 13	17 22.35	−36 7.1	2.617	2.833	20.8	21.4	92 E	8*	79*
9 18	17 26.61	−35 32.0	2.678	2.825	20.8	21.4	88 E	8*	77*
9 23	17 31.33	−34 58.5	2.738	2.816	20.8	21.5	84 E	9*	75*
9 28	17 36.49	−34 26.3	2.798	2.807	20.6	21.5	80 E	9*	72*
3908 Nyx									
4 11	18 57.97	−23 0.0	1.809	2.187	27.0	21.5	98 W	21*	87
4 21	19 9.09	−22 36.4	1.642	2.138	27.0	21.2	105 W	22*	87
5 1	19 18.39	−22 11.8	1.479	2.087	26.4	20.9	113 W	23*	86
5 11	19 25.47	−21 47.7	1.324	2.034	25.3	20.6	121 W	23*	86
5 21	19 29.80	−21 25.9	1.177	1.980	23.3	20.2	129 W	24	85
5 31	19 30.77	−21 7.9	1.042	1.924	20.4	19.8	139 W	24	85
6 10	19 27.77	−20 54.9	0.922	1.866	16.3	19.4	149 W	24	85
6 20	19 20.27	−20 46.8	0.818	1.807	11.0	18.8	160 W	24	85
6 30	19 8.22	−20 41.8	0.733	1.746	4.5	18.2	172 W	24	85
7 5	19 0.72	−20 39.5	0.699	1.715	1.4	17.9	178 W	24	85
7 10	18 52.49	−20 36.6	0.670	1.684	3.7	17.9	174 E	24	85
7 15	18 43.78	−20 32.8	0.646	1.652	7.8	18.0	167 E	24	85
7 20	18 34.95	−20 27.8	0.627	1.621	12.1	18.1	161 E	25	84
7 25	18 26.38	−20 21.6	0.613	1.589	16.4	18.1	154 E	25	84
7 30	18 18.45	−20 14.5	0.604	1.557	20.7	18.2	147 E	25	84
8 4	18 11.48	−20 6.9	0.598	1.525	24.9	18.2	141 E	25	84
8 9	18 5.72	−19 59.2	0.595	1.493	28.9	18.3	135 E	25	84
8 14	18 1.37	−19 51.9	0.595	1.461	32.7	18.4	129 E	25	84
8 19	17 58.55	−19 45.3	0.596	1.429	36.2	18.4	123 E	25	84
8 29	17 57.78	−19 35.2	0.602	1.367	42.6	18.5	114 E	25	84
9 8	18 3.32	−19 27.8	0.607	1.306	48.1	18.6	105 E	26*	83
9 18	18 14.77	−19 20.1	0.610	1.248	52.9	18.6	98 E	26*	83
9 28	18 31.75	−19 6.9	0.607	1.194	57.0	18.7	92 E	26*	82*
10 8	18 53.79	−18 41.9	0.599	1.146	60.6	18.6	88 E	26*	78*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
3908 Nyx *(continuation)*									
10 18	19 20.63	−17 58.4	0.584	1.105	63.8	18.6	84 E	27*	74*
10 28	19 52.14	−16 48.4	0.565	1.073	66.5	18.6	82 E	28	71*
11 7	20 28.15	−15 4.1	0.543	1.052	68.4	18.5	81 E	30	68*
11 17	21 8.62	−12 38.0	0.522	1.043	69.4	18.4	81 E	32	65*
11 27	21 53.36	− 9 25.0	0.505	1.047	69.1	18.3	82 E	36	63*
12 2	22 17.13	− 7 31.0	0.499	1.053	68.5	18.3	83 E	37	61*
12 7	22 41.68	− 5 26.7	0.496	1.062	67.5	18.3	85 E	40	60*
12 12	23 6.84	− 3 13.9	0.496	1.074	66.2	18.3	86 E	42	59*
12 17	23 32.42	− 0 55.2	0.501	1.089	64.6	18.3	88 E	44	58*
12 22	23 58.19	+ 1 26.2	0.509	1.106	62.8	18.3	90 E	46	56*
12 27	0 23.88	+ 3 46.8	0.522	1.126	60.8	18.3	92 E	49	55*
1 1	0 49.24	+ 6 3.2	0.539	1.147	58.8	18.4	93 E	51	53*
1 6	1 14.07	+ 8 12.4	0.561	1.171	56.8	18.4	95 E	53	52*
1 11	1 38.19	+10 12.3	0.588	1.196	54.9	18.5	96 E	55	50*
1 16	2 1.51	+12 1.6	0.620	1.222	53.1	18.6	97 E	57	49*
310582 2001 TP_{235}									
4 11	19 0.85	−21 5.6	1.614	2.002	29.8	21.4	97 W	23*	85
4 21	19 15.90	−21 10.7	1.479	1.971	29.7	21.2	103 W	23*	85
5 1	19 29.46	−21 20.2	1.348	1.940	29.2	21.0	110 W	23*	85
5 11	19 41.20	−21 37.9	1.225	1.910	28.1	20.7	117 W	23*	86
5 21	19 50.73	−22 7.9	1.110	1.880	26.3	20.4	125 W	23*	86
5 31	19 57.54	−22 54.4	1.006	1.851	23.7	20.1	133 W	22	87
6 10	20 1.18	−24 0.8	0.914	1.822	20.2	19.7	142 W	21	88
6 20	20 1.22	−25 28.0	0.836	1.795	15.8	19.3	151 W	20	89
6 25	19 59.81	−26 18.7	0.803	1.782	13.3	19.2	156 W	19	90
6 30	19 57.51	−27 13.0	0.775	1.769	10.6	19.0	161 W	18	89
7 5	19 54.38	−28 9.6	0.752	1.756	8.0	18.8	166 W	17	88
7 10	19 50.54	−29 6.9	0.734	1.744	5.9	18.6	170 W	16	87
7 15	19 46.18	−30 3.2	0.720	1.732	5.1	18.5	171 W	15	86
7 20	19 41.51	−30 56.4	0.712	1.721	6.4	18.5	169 E	14	85
7 25	19 36.83	−31 45.1	0.709	1.710	9.0	18.6	165 E	13	84
7 30	19 32.44	−32 27.7	0.710	1.699	11.9	18.7	160 E	13	84
8 4	19 28.61	−33 3.4	0.716	1.689	14.9	18.8	155 E	12	83
8 9	19 25.58	−33 31.8	0.726	1.680	17.9	19.0	149 E	11	82
8 14	19 23.54	−33 52.8	0.739	1.671	20.6	19.1	144 E	11	82
8 19	19 22.64	−34 6.5	0.757	1.663	23.2	19.2	140 E	11	82
8 24	19 22.98	−34 13.3	0.777	1.655	25.5	19.3	135 E	11	82
8 29	19 24.59	−34 13.8	0.800	1.648	27.6	19.4	131 E	11	82
9 3	19 27.45	−34 8.3	0.825	1.641	29.5	19.5	127 E	11	82
9 8	19 31.49	−33 57.3	0.853	1.635	31.1	19.7	123 E	11	82
9 13	19 36.64	−33 41.1	0.882	1.630	32.6	19.8	119 E	11	82
9 18	19 42.82	−33 19.7	0.913	1.626	33.8	19.9	116 E	12	83
9 23	19 49.95	−32 53.4	0.945	1.622	34.8	20.0	113 E	12	83
9 28	19 57.91	−32 22.3	0.979	1.619	35.7	20.1	110 E	13	84
10 3	20 6.59	−31 46.5	1.014	1.617	36.3	20.2	107 E	13	84
10 8	20 15.89	−31 6.1	1.050	1.615	36.9	20.2	104 E	14	85
10 13	20 25.73	−30 21.0	1.087	1.614	37.3	20.3	101 E	15	86
10 18	20 36.01	−29 31.4	1.125	1.614	37.6	20.4	99 E	15	86
10 23	20 46.68	−28 37.4	1.164	1.615	37.8	20.5	97 E	16	87
10 28	20 57.64	−27 39.1	1.204	1.616	37.8	20.6	94 E	17	88*
11 2	21 8.83	−26 36.8	1.244	1.618	37.8	20.6	92 E	18	86*
11 7	21 20.19	−25 30.6	1.286	1.621	37.7	20.7	90 E	19	83*
11 12	21 31.68	−24 20.7	1.328	1.624	37.5	20.8	88 E	21	80*
11 17	21 43.25	−23 7.4	1.372	1.628	37.3	20.9	86 E	22	77*
11 22	21 54.89	−21 50.9	1.416	1.633	36.9	20.9	84 E	23	74*
11 27	22 6.54	−20 31.6	1.461	1.639	36.6	21.0	82 E	24	71*
12 2	22 18.20	−19 9.8	1.507	1.645	36.1	21.0	80 E	26	68*
12 7	22 29.83	−17 45.8	1.553	1.652	35.6	21.1	78 E	27	65*
12 12	22 41.43	−16 20.0	1.600	1.659	35.1	21.2	76 E	29	62*
12 17	22 52.99	−14 52.5	1.648	1.667	34.5	21.2	74 E	30	59*
12 22	23 4.51	−13 23.8	1.697	1.676	33.9	21.3	72 E	32	56*
12 27	23 15.97	−11 54.1	1.746	1.685	33.2	21.3	70 E	33*	53*
1 1	23 27.38	−10 23.8	1.796	1.695	32.6	21.4	68 E	34*	50*
1 6	23 38.73	− 8 53.2	1.846	1.705	31.8	21.4	66 E	36*	47*
1 11	23 50.04	− 7 22.6	1.897	1.716	31.1	21.5	64 E	37*	45*
190451 2000 AX_{146}									
4 11	19 3.52	− 3 39.4	2.376	2.646	22.2	21.5	94 W	40*	68
4 21	19 8.73	− 3 7.0	2.246	2.647	21.8	21.3	102 W	41*	67
5 1	19 11.68	− 2 39.3	2.120	2.647	20.9	21.2	110 W	42*	67
5 11	19 12.15	− 2 19.7	2.001	2.645	19.5	21.0	119 W	43	66
5 21	19 9.95	− 2 11.9	1.892	2.643	17.5	20.8	128 W	43	66
5 31	19 5.00	− 2 20.0	1.797	2.640	14.9	20.6	138 W	43	66
6 10	18 57.51	− 2 47.4	1.721	2.635	11.9	20.4	148 W	42	67
6 20	18 47.91	− 3 36.1	1.667	2.630	8.9	20.2	156 W	41	68
6 30	18 37.01	− 4 46.1	1.639	2.624	7.0	20.1	162 W	40	69
7 10	18 25.89	− 6 14.4	1.639	2.617	7.7	20.1	160 E	39	70
7 15	18 20.59	− 7 3.8	1.650	2.613	9.0	20.2	156 E	38	71
7 20	18 15.65	− 7 55.8	1.666	2.609	10.5	20.3	152 E	37	72

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
190451 2000 AX_{146} *(continuation)*									
7 25	18 11.18	− 8 49.6	1.690	2.604	12.1	20.3	147 E	36	73
7 30	18 7.28	− 9 44.4	1.719	2.600	13.7	20.4	143 E	35	74
8 4	18 4.02	−10 39.5	1.754	2.595	15.3	20.5	138 E	34	75
8 9	18 1.45	−11 34.4	1.793	2.590	16.7	20.6	133 E	33	76
8 14	17 59.60	−12 28.4	1.837	2.584	18.1	20.7	128 E	33	76
8 19	17 58.49	−13 21.2	1.885	2.579	19.3	20.8	123 E	32	77
8 24	17 58.13	−14 12.6	1.937	2.573	20.3	20.9	118 E	31	78
8 29	17 58.50	−15 2.1	1.991	2.567	21.1	21.0	114 E	30	79
9 3	17 59.57	−15 49.6	2.047	2.561	21.9	21.1	109 E	29	80
9 8	18 1.32	−16 35.1	2.105	2.554	22.4	21.1	105 E	28*	81
9 13	18 3.72	−17 18.2	2.165	2.547	22.9	21.2	100 E	28*	81
9 18	18 6.74	−17 59.1	2.225	2.540	23.2	21.3	96 E	27*	82
9 23	18 10.35	−18 37.6	2.286	2.533	23.3	21.3	92 E	26*	82*
9 28	18 14.50	−19 13.6	2.347	2.526	23.4	21.4	88 E	25*	80*
10 3	18 19.18	−19 47.2	2.407	2.518	23.3	21.4	85 E	25*	77*
10 8	18 24.33	−20 18.2	2.467	2.510	23.1	21.5	81 E	24*	73*
10 13	18 29.93	−20 46.7	2.527	2.502	22.9	21.5	77 E	23*	70*
218271 2003 ED_4									
4 11	19 37.58	+ 0 26.6	2.944	3.030	19.2	21.4	85 W	41*	63*
4 21	19 44.03	+ 1 34.7	2.787	3.004	19.5	21.3	93 W	44*	62
5 1	19 48.84	+ 2 43.3	2.630	2.977	19.5	21.2	100 W	46*	61
5 11	19 51.82	+ 3 49.9	2.478	2.948	19.0	21.0	108 W	48*	60
5 21	19 52.74	+ 4 51.7	2.332	2.919	18.2	20.8	116 W	50*	59
5 31	19 51.41	+ 5 44.7	2.197	2.888	16.9	20.6	124 W	51	58
6 10	19 47.76	+ 6 24.6	2.074	2.857	15.3	20.4	132 W	51	58
6 20	19 41.84	+ 6 46.7	1.969	2.825	13.3	20.2	140 W	52	57
6 30	19 33.92	+ 6 46.1	1.884	2.791	11.5	20.0	147 W	52	57
7 10	19 24.60	+ 6 19.4	1.821	2.757	10.2	19.9	151 W	51	58
7 20	19 14.67	+ 5 25.5	1.783	2.722	10.2	19.8	152 E	50	59
7 30	19 5.12	+ 4 6.4	1.771	2.686	11.6	19.8	148 E	49	60
8 4	18 56.79	+ 3 18.9	1.774	2.667	12.7	19.8	145 E	48	61
8 9	18 56.90	+ 2 27.2	1.783	2.649	13.9	19.9	141 E	47	62
8 14	18 53.54	+ 1 32.1	1.797	2.630	15.2	19.9	137 E	47	62
8 19	18 50.78	+ 0 34.5	1.816	2.611	16.5	20.0	133 E	46	63
8 24	18 48.68	− 0 24.7	1.840	2.591	17.8	20.0	128 E	45	64
8 29	18 47.28	− 1 24.6	1.868	2.572	19.0	20.1	124 E	44	65
9 3	18 46.59	− 2 24.4	1.899	2.552	20.1	20.1	120 E	43	66
9 8	18 46.62	− 3 23.5	1.934	2.532	21.1	20.2	115 E	42	67
9 18	18 48.81	− 5 17.5	2.010	2.492	22.7	20.3	107 E	40	69
9 28	18 53.74	− 7 3.0	2.093	2.450	23.9	20.4	98 E	38	71
10 8	19 1.19	− 8 37.6	2.180	2.408	24.5	20.4	91 E	36*	71*
10 18	19 10.93	−10 0.0	2.266	2.366	24.7	20.5	83 E	35*	67*
10 28	19 22.73	−11 9.1	2.350	2.323	24.5	20.5	76 E	33*	62*
11 7	19 36.34	−12 4.4	2.430	2.279	24.0	20.5	69 E	32*	56*
11 17	19 51.55	−12 45.7	2.504	2.234	23.2	20.5	63 E	31*	49*
11 27	20 8.18	−13 12.7	2.570	2.190	22.1	20.5	57 E	30*	42*
12 7	20 26.04	−13 25.5	2.628	2.145	20.8	20.5	51 E	28*	36*
12 17	20 44.98	−13 24.2	2.677	2.100	19.4	20.4	45 E	26*	30*
12 27	21 4.88	−13 9.3	2.716	2.054	17.7	20.4	39 E	24*	24*
1 6	21 25.60	−12 41.2	2.745	2.009	16.0	20.3	34 E	22*	19*
1 16	21 47.07	−12 0.4	2.764	1.965	14.1	20.2	29 E	18*	15*
206253 2002 XM_{63}									
4 11	19 41.62	−17 30.4	1.923	2.123	28.1	21.5	87 W	24*	78*
4 21	19 56.71	−16 50.8	1.774	2.087	28.7	21.3	93 W	25*	81*
5 1	20 10.67	−16 10.5	1.628	2.051	29.0	21.1	99 W	26*	80
5 11	20 23.29	−15 32.3	1.486	2.014	28.8	20.8	106 W	28*	80
5 21	20 34.29	−14 59.1	1.349	1.977	28.1	20.6	113 W	29*	79
5 31	20 43.32	−14 34.6	1.220	1.940	26.8	20.3	120 W	30*	79
6 10	20 50.03	−14 22.8	1.099	1.903	24.8	19.9	128 W	31	78
6 20	20 53.95	−14 28.4	0.989	1.866	21.8	19.6	137 W	31	78
6 30	20 54.65	−14 55.8	0.893	1.829	17.9	19.2	146 W	30	79
7 10	20 51.93	−15 47.4	0.812	1.792	12.9	18.8	157 W	29	80
7 20	20 45.87	−17 3.0	0.749	1.756	6.8	18.3	168 W	28	81
7 25	20 41.79	−17 48.1	0.725	1.738	3.5	18.0	174 W	27	82
7 30	20 37.24	−18 36.6	0.706	1.721	0.1	17.7	180 E	26	83
8 4	20 32.45	−19 26.9	0.692	1.704	3.7	17.9	174 E	26	83
8 9	20 27.64	−20 17.4	0.682	1.687	7.4	18.0	168 E	25	84
8 14	20 23.09	−21 6.4	0.678	1.670	11.0	18.2	162 E	24	85
8 19	20 19.06	−21 52.5	0.679	1.654	14.6	18.3	156 E	23	86
8 24	20 15.82	−22 34.4	0.683	1.639	18.0	18.4	150 E	22	87
8 29	20 13.57	−23 11.1	0.692	1.623	21.2	18.5	144 E	22	87
9 3	20 12.46	−23 42.1	0.703	1.609	24.1	18.6	139 E	21	88
9 8	20 12.57	−24 7.0	0.718	1.594	26.9	18.7	134 E	21	88
9 18	20 16.59	−24 37.8	0.755	1.568	31.5	18.9	125 E	20	89
9 28	20 25.57	−24 43.0	0.799	1.544	35.1	19.1	118 E	20	89
10 8	20 38.92	−24 22.8	0.848	1.523	37.8	19.3	111 E	21	88

206253 2002 XM_{63} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 13	20 47.01	−24 3.2	0.874	1.514	38.9	19.4	108 E	21	88
10 18	20 55.92	−23 37.3	0.901	1.505	39.8	19.4	105 E	21	88
10 23	21 5.56	−23 5.1	0.928	1.498	40.5	19.5	102 E	22	87
10 28	21 15.83	−22 26.7	0.957	1.491	41.1	19.6	100 E	23	86
11 2	21 26.65	−21 42.2	0.985	1.485	41.5	19.7	97 E	23	86*
11 7	21 37.91	−20 51.9	1.015	1.481	41.8	19.7	95 E	24	84*
11 12	21 49.56	−19 55.8	1.045	1.477	42.0	19.8	93 E	25	82*
11 17	22 1.54	−18 54.3	1.076	1.474	42.1	19.8	91 E	26	79*
11 22	22 13.79	−17 47.6	1.107	1.473	42.1	19.9	89 E	27	76*
11 27	22 26.24	−16 36.2	1.139	1.472	42.0	20.0	87 E	28	73*
12 2	22 38.85	−15 20.3	1.172	1.472	41.9	20.0	86 E	30	71*
12 7	22 51.58	−14 0.5	1.206	1.474	41.7	20.1	84 E	31	68*
12 12	23 4.40	−12 37.2	1.241	1.476	41.4	20.1	82 E	32	65*
12 17	23 17.29	−11 10.8	1.276	1.479	41.0	20.2	81 E	34	62*
12 22	23 30.23	− 9 41.9	1.313	1.484	40.6	20.2	79 E	35	59*
12 27	23 43.20	− 8 10.9	1.350	1.489	40.2	20.3	78 E	37	57*
1 1	23 56.18	− 6 38.5	1.388	1.495	39.7	20.4	76 E	38	54*
1 6	0 9.16	− 5 5.0	1.428	1.502	39.1	20.4	75 E	40	52*
1 11	0 22.15	− 3 31.1	1.468	1.511	38.5	20.5	73 E	41*	49*
1 16	0 35.15	− 1 57.0	1.510	1.520	37.9	20.5	72 E	43*	47*

468910 2014 KQ_{76}

4 11	19 43.27	+25 17.5	0.113	0.991	92.6	20.0	81 W	63*	38*
4 13	19 16.68	+25 53.2	0.111	1.005	85.5	19.7	88 W	67*	38
4 15	18 49.57	+26 10.8	0.111	1.020	78.4	19.5	95 W	70*	38
4 17	18 22.52	+26 9.0	0.112	1.034	71.4	19.3	102 W	71	38
4 19	17 56.11	+25 48.2	0.115	1.048	64.7	19.2	109 W	71	38
4 21	17 30.89	+25 10.2	0.118	1.062	58.4	19.1	116 W	70	39
4 23	17 7.25	+24 18.0	0.122	1.075	52.5	19.0	122 W	69	40
4 25	16 45.47	+23 14.8	0.128	1.089	47.2	19.0	127 W	68	41
4 27	16 25.67	+22 4.1	0.134	1.102	42.4	19.0	132 W	67	42
4 29	16 7.86	+20 48.9	0.142	1.114	38.3	19.0	137 W	66	43
5 1	15 51.97	+19 31.8	0.150	1.127	34.7	19.1	140 W	65	44
5 3	15 37.86	+18 14.7	0.159	1.139	31.9	19.1	143 W	63	46
5 5	15 25.39	+16 58.8	0.168	1.151	29.7	19.2	146 W	62	47
5 7	15 14.39	+15 45.1	0.179	1.163	28.1	19.3	147 W	61	48
5 9	15 4.70	+14 34.0	0.190	1.175	27.0	19.5	148 W	60	49
5 11	14 56.19	+13 25.9	0.201	1.186	26.5	19.6	148 E	58	51
5 16	14 39.19	+10 48.5	0.232	1.213	26.7	20.0	147 E	56	53
5 21	14 27.13	+ 8 28.1	0.266	1.239	28.3	20.3	145 E	53	56
5 26	14 18.83	+ 6 21.9	0.303	1.263	30.4	20.7	141 E	51	58
5 31	14 13.48	+ 4 27.4	0.342	1.285	32.5	21.1	137 E	49	60
6 5	14 10.43	+ 2 42.4	0.382	1.306	34.6	21.4	133 E	48	61

48468 1991 SS_1

4 11	19 48.50	−26 4.9	2.370	2.525	23.3	21.5	87 W	15*	81*
4 21	20 0.55	−26 0.1	2.204	2.487	23.8	21.3	94 W	16*	88*
5 1	20 11.18	−25 59.8	2.039	2.448	23.8	21.1	101 W	17*	90
5 11	20 20.13	−26 6.2	1.879	2.408	23.4	20.9	109 W	18*	90
5 21	20 27.07	−26 21.7	1.726	2.367	22.4	20.6	117 W	18*	90
5 31	20 31.56	−26 48.2	1.582	2.325	20.7	20.4	126 W	18*	89
6 10	20 33.22	−27 27.0	1.450	2.283	18.4	20.0	135 W	18	89
6 20	20 31.61	−28 18.0	1.333	2.240	15.2	19.7	145 W	17	88
6 30	20 26.48	−29 18.4	1.235	2.197	11.4	19.4	155 W	16	87
7 5	20 22.62	−29 50.3	1.193	2.175	9.4	19.2	160 W	15	86
7 10	20 17.97	−30 22.2	1.157	2.154	7.4	19.0	164 W	15	86
7 15	20 12.62	−30 52.7	1.127	2.132	5.8	18.9	168 W	14	85
7 20	20 6.72	−31 20.7	1.103	2.110	5.2	18.8	169 W	14	85
7 25	20 0.48	−31 45.0	1.085	2.088	6.1	18.8	167 E	13	84
7 30	19 54.13	−32 4.5	1.073	2.066	8.1	18.8	163 E	13	84
8 4	19 47.93	−32 18.6	1.066	2.044	10.6	18.9	158 E	13	84
8 9	19 42.12	−32 27.0	1.065	2.021	13.2	18.9	153 E	13	84
8 14	19 36.91	−32 29.5	1.069	1.999	15.8	19.0	148 E	13	84
8 19	19 32.51	−32 26.4	1.078	1.977	18.3	19.1	142 E	13	84
8 24	19 29.09	−32 18.2	1.091	1.956	20.7	19.2	137 E	13	84
8 29	19 26.76	−32 5.4	1.107	1.934	22.9	19.2	132 E	13	84
9 8	19 25.54	−31 28.5	1.149	1.891	26.8	19.4	122 E	14	85
9 18	19 28.90	−30 39.2	1.199	1.848	29.9	19.5	114 E	14	85
9 28	19 36.55	−29 39.7	1.254	1.806	32.3	19.6	106 E	15	86
10 8	19 47.94	−28 30.3	1.312	1.766	34.0	19.7	99 E	16	87
10 18	20 2.53	−27 10.1	1.371	1.727	35.2	19.8	92 E	18	86*
10 28	20 19.79	−25 37.7	1.429	1.690	35.9	19.9	87 E	19	80*
11 7	20 39.20	−23 51.9	1.485	1.656	36.3	19.9	81 E	21	74*
11 17	21 0.33	−21 51.5	1.539	1.624	36.3	20.0	76 E	23	67*
11 27	21 22.83	−19 35.7	1.592	1.594	36.1	20.0	72 E	25	61*
12 7	21 46.37	−17 4.7	1.643	1.569	35.6	20.0	68 E	28*	55*
12 17	22 10.73	−14 19.1	1.693	1.546	35.0	20.0	64 E	30*	49*
12 27	22 35.72	−11 20.2	1.742	1.528	34.2	20.0	61 E	33*	44*
1 6	23 1.21	− 8 10.1	1.791	1.515	33.3	20.1	58 E	35*	39*
1 16	23 27.13	− 4 51.5	1.841	1.505	32.3	20.1	55 E	36*	34*

243100 2007 RQ_{31}

4 11	19 55.59	−15 11.1	1.496	1.702	35.8	21.4	83 W	25*	75*
4 21	20 18.19	−13 13.8	1.397	1.683	36.6	21.2	87 W	27*	76*
5 1	20 39.70	−11 4.7	1.301	1.665	37.2	21.1	91 W	29*	75*
5 11	20 59.93	− 8 46.8	1.211	1.651	37.5	20.9	96 W	32*	73
5 21	21 18.70	− 6 23.3	1.125	1.638	37.5	20.7	100 W	34*	70
5 31	21 35.73	− 3 58.3	1.045	1.629	37.0	20.6	105 W	38*	68
6 10	21 50.75	− 1 36.3	0.970	1.622	36.1	20.4	110 W	41*	66
6 15	21 57.40	− 0 27.9	0.934	1.620	35.5	20.3	112 W	43*	64
6 20	22 3.40	+ 0 37.6	0.900	1.619	34.6	20.1	115 W	45*	63
6 25	22 8.70	+ 1 39.5	0.867	1.618	33.6	20.0	118 W	46*	62
6 30	22 13.26	+ 2 36.9	0.837	1.618	32.5	19.9	121 W	48*	61
7 5	22 17.03	+ 3 28.9	0.808	1.619	31.1	19.8	125 W	48	61
7 10	22 19.96	+ 4 14.7	0.781	1.620	29.6	19.7	128 W	49	60
7 15	22 22.02	+ 4 53.2	0.756	1.623	27.8	19.6	132 W	50	59
7 20	22 23.17	+ 5 23.3	0.734	1.625	25.8	19.5	136 W	50	59
7 25	22 23.41	+ 5 44.2	0.714	1.629	23.6	19.3	140 W	51	58
7 30	22 22.80	+ 5 54.9	0.698	1.634	21.2	19.2	144 W	51	58
8 9	22 19.31	+ 5 44.7	0.674	1.645	16.1	19.0	153 W	51	58
8 19	22 13.66	+ 4 52.6	0.667	1.658	11.1	18.8	162 W	50	59
8 29	22 7.40	+ 3 25.9	0.676	1.674	8.4	18.8	166 E	48	61
9 3	22 4.60	+ 2 34.2	0.688	1.683	8.9	18.8	165 E	48	61
9 8	22 2.26	+ 1 39.7	0.705	1.693	10.4	18.9	162 E	47	62
9 13	22 0.54	+ 0 44.5	0.726	1.703	12.5	19.1	159 E	46	63
9 18	21 59.55	− 0 9.4	0.752	1.713	14.8	19.3	154 E	45	64
9 23	21 59.39	− 1 0.2	0.782	1.724	17.1	19.5	150 E	44	65
9 28	22 0.08	− 1 46.6	0.816	1.736	19.2	19.6	145 E	43	66
10 3	22 1.62	− 2 27.5	0.854	1.748	21.2	19.8	141 E	43	66
10 8	22 3.98	− 3 2.5	0.896	1.760	23.0	20.0	136 E	42	67
10 18	22 10.97	− 3 53.3	0.989	1.786	26.0	20.3	128 E	41	68
10 28	22 20.64	− 4 18.4	1.094	1.813	28.2	20.6	121 E	41	68
11 7	22 32.44	− 4 19.5	1.208	1.841	29.6	20.9	113 E	41	68
11 17	22 45.92	− 3 59.4	1.331	1.870	30.4	21.2	107 E	41	68
11 27	23 0.70	− 3 20.9	1.460	1.900	30.7	21.4	100 E	42	67*

237616 2001 RN_4

4 11	19 56.79	−17 43.9	1.697	1.872	32.1	21.4	84 W	23*	76*
4 21	20 16.60	−16 24.7	1.576	1.846	33.0	21.2	88 W	24*	79*
5 1	20 35.42	−14 58.2	1.458	1.821	33.5	21.0	93 W	26*	79
5 11	20 53.10	−13 26.5	1.344	1.797	33.8	20.8	99 W	28*	77
5 21	21 9.43	−11 51.9	1.235	1.774	33.6	20.6	104 W	30*	76
5 31	21 24.14	−10 17.7	1.131	1.753	33.0	20.4	110 W	33*	74
6 10	21 36.93	− 8 47.2	1.033	1.733	31.9	20.1	116 W	35*	73
6 20	21 47.44	− 7 24.6	0.943	1.715	30.1	19.8	122 W	37*	71
6 30	21 55.22	− 6 14.7	0.862	1.699	27.6	19.6	129 W	39	70
7 10	21 59.92	− 5 22.8	0.790	1.685	24.1	19.2	137 W	40	69
7 20	22 1.22	− 4 54.1	0.730	1.673	19.7	18.9	146 W	40	69
7 30	21 59.12	− 4 52.5	0.685	1.664	14.4	18.6	156 W	40	69
8 9	21 54.26	− 5 18.6	0.655	1.657	8.6	18.3	166 W	40	69
8 14	21 51.12	− 5 40.8	0.646	1.654	5.8	18.1	170 W	39	70
8 19	21 47.77	− 6 8.0	0.643	1.652	4.2	18.0	173 E	39	70
8 24	21 44.45	− 6 38.7	0.644	1.651	5.0	18.1	172 E	38	71
8 29	21 41.41	− 7 11.2	0.649	1.650	7.5	18.2	168 E	38	71
9 3	21 38.85	− 7 44.1	0.659	1.650	10.5	18.3	163 E	37	72
9 8	21 36.94	− 8 15.8	0.674	1.650	13.5	18.5	158 E	37	72
9 13	21 35.82	− 8 45.1	0.692	1.651	16.3	18.7	153 E	36	73
9 18	21 35.60	− 9 10.9	0.715	1.653	19.0	18.8	148 E	36	73
9 23	21 36.34	− 9 32.2	0.741	1.656	21.5	19.0	143 E	35	74
9 28	21 38.05	− 9 48.5	0.771	1.659	23.7	19.1	138 E	35	74
10 8	21 44.24	−10 4.8	0.839	1.667	27.4	19.5	130 E	35	74
10 18	21 53.74	− 9 58.9	0.918	1.677	30.1	19.7	122 E	35	74
10 28	22 6.04	− 9 31.5	1.005	1.690	32.1	20.0	115 E	35	74
11 7	22 20.53	− 8 44.5	1.101	1.704	33.3	20.3	109 E	36	73
11 17	22 36.68	− 7 40.0	1.203	1.721	34.0	20.5	103 E	37	72*
11 27	22 54.10	− 6 20.5	1.310	1.740	34.2	20.7	97 E	39	69*
12 7	23 12.43	− 4 48.6	1.422	1.760	34.0	20.9	92 E	40	64*
12 17	23 31.41	− 3 6.8	1.538	1.782	33.5	21.1	87 E	42	59*
12 27	23 50.89	− 1 17.4	1.656	1.805	32.7	21.3	82 E	44	54*
1 6	0 10.71	+ 0 37.2	1.777	1.829	31.6	21.4	77 E	46	48*

271480 2004 FX_{31}

4 11	20 2.58	+ 5 58.5	1.717	1.804	32.9	21.4	78 W	44*	55*
4 21	20 14.98	+ 8 14.8	1.624	1.813	33.4	21.3	84 W	47*	55*
5 1	20 25.46	+10 36.3	1.527	1.817	33.7	21.2	89 W	50*	53
5 11	20 33.74	+13 0.9	1.427	1.818	33.6	21.1	95 W	54*	51
5 21	20 39.44	+15 25.8	1.326	1.814	33.2	20.9	101 W	58*	49
5 31	20 42.04	+17 46.7	1.226	1.807	32.4	20.7	107 W	62*	46
6 10	20 40.98	+19 57.1	1.129	1.796	31.2	20.5	114 W	65	44

271480 2004 FX_{31} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
6 15	20 38.89	+20 55.5	1.082	1.788	30.4	20.3	117 W	66	43
6 20	20 35.66	+21 47.5	1.037	1.780	29.6	20.2	120 W	67	42
6 25	20 31.23	+22 30.9	0.994	1.771	28.6	20.1	124 W	68	41
6 30	20 25.59	+23 3.7	0.953	1.761	27.6	20.0	127 W	68	41
7 5	20 18.78	+23 23.5	0.915	1.750	26.5	19.8	130 W	68	41
7 10	20 10.87	+23 28.1	0.881	1.737	25.6	19.7	133 W	68	41
7 15	20 1.98	+23 14.9	0.849	1.724	24.7	19.6	135 W	68	41
7 20	19 52.35	+22 42.0	0.822	1.710	24.1	19.5	137 E	68	41
7 25	19 42.26	+21 47.9	0.800	1.695	23.8	19.4	138 E	67	42
7 30	19 32.07	+20 32.3	0.782	1.678	24.0	19.3	138 E	66	43
8 4	19 22.14	+18 56.1	0.768	1.661	24.6	19.3	137 E	64	45
8 9	19 12.80	+17 1.0	0.760	1.642	25.8	19.3	135 E	62	47
8 14	19 4.34	+14 50.0	0.756	1.623	27.3	19.3	133 E	60	49
8 19	18 57.03	+12 26.5	0.756	1.602	29.2	19.3	129 E	57	52
8 24	18 51.03	+ 9 54.2	0.761	1.581	31.3	19.3	126 E	55	54
8 29	18 46.44	+ 7 17.1	0.769	1.558	33.4	19.4	122 E	52	57
9 3	18 43.29	+ 4 38.6	0.780	1.535	35.6	19.5	118 E	50	59
9 8	18 41.56	+ 2 1.2	0.794	1.510	37.8	19.5	113 E	47	62
9 13	18 41.21	− 0 33.0	0.810	1.484	39.8	19.6	109 E	44	65
9 18	18 42.19	− 3 2.3	0.827	1.457	41.8	19.6	105 E	42	67
9 23	18 44.44	− 5 25.7	0.845	1.429	43.6	19.7	101 E	40	69
9 28	18 47.88	− 7 42.7	0.864	1.400	45.3	19.7	97 E	37	72*
10 8	18 58.00	−11 56.1	0.899	1.339	48.3	19.8	90 E	33*	74*
10 18	19 12.05	−15 42.8	0.931	1.274	50.9	19.9	83 E	29*	71*
10 28	19 29.63	−19 4.4	0.955	1.205	53.3	19.9	76 E	26*	67*
11 2	19 39.63	−20 36.6	0.963	1.170	54.4	19.8	73 E	24*	65*
11 7	19 50.38	−22 3.4	0.968	1.133	55.6	19.8	71 E	23*	62*
11 12	20 1.85	−23 25.3	0.970	1.096	56.8	19.8	68 E	21*	60*
11 17	20 14.03	−24 42.6	0.969	1.059	58.2	19.8	65 E	20*	58*
11 27	20 40.35	−27 4.9	0.955	0.984	61.2	19.6	61 E	17*	53*
12 7	21 8.96	−29 13.8	0.923	0.909	65.1	19.5	57 E	15*	50*
12 17	21 39.41	−31 13.1	0.873	0.839	70.1	19.4	53 E	13*	46*
12 22	21 55.07	−32 10.7	0.840	0.807	73.3	19.3	52 E	11*	45*
12 27	22 10.80	−33 7.8	0.803	0.778	76.9	19.3	50 E	10*	44*
1 1	22 26.36	−34 5.3	0.761	0.753	81.0	19.2	49 E	9*	43*
1 6	22 41.47	−35 3.4	0.714	0.732	85.7	19.2	48 E	8*	42*
1 11	22 55.78	−36 2.6	0.664	0.716	90.8	19.2	47 E	6*	41*
1 16	23 8.84	−37 2.8	0.610	0.707	96.4	19.2	46 E	4*	40*

279823 2000 RD_8

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	20 26.84	−36 50.1	2.811	2.844	20.4	21.4	82 W	3*	70*
4 21	20 37.11	−36 39.1	2.665	2.831	20.8	21.3	89 W	4*	76*
5 1	20 45.47	−36 34.3	2.518	2.817	20.8	21.2	97 W	5*	79*
5 11	20 51.65	−36 36.5	2.372	2.802	20.4	21.0	105 W	6*	79
5 21	20 55.29	−36 46.5	2.231	2.786	19.5	20.9	113 W	7*	79
5 31	20 56.00	−37 3.9	2.098	2.769	18.1	20.7	122 W	7*	79
6 10	20 53.44	−37 26.6	1.976	2.752	16.2	20.5	131 W	8*	79
6 20	20 47.35	−37 50.9	1.870	2.733	13.6	20.2	141 W	7	78
6 25	20 42.97	−38 1.8	1.824	2.723	12.2	20.1	145 W	7	78
6 30	20 37.75	−38 10.6	1.784	2.713	10.8	20.0	150 W	7	78
7 5	20 31.77	−38 16.3	1.749	2.703	9.3	19.9	155 W	7	78
7 10	20 25.13	−38 18.0	1.721	2.692	8.0	19.8	158 W	7	78
7 15	20 17.99	−38 14.8	1.699	2.681	7.0	19.7	161 W	7	78
7 20	20 10.52	−38 6.0	1.684	2.670	6.6	19.7	162 W	7	78
7 25	20 2.92	−37 51.0	1.676	2.659	7.0	19.7	162 E	7	78
7 30	19 55.43	−37 29.9	1.675	2.648	7.9	19.7	159 E	8	79
8 4	19 48.24	−37 2.7	1.681	2.636	9.3	19.8	155 E	8	79
8 9	19 41.55	−36 30.0	1.694	2.624	10.9	19.8	151 E	9	80
8 14	19 35.50	−35 52.6	1.712	2.612	12.6	19.9	146 E	9	80
8 19	19 30.22	−35 11.1	1.737	2.600	14.3	20.0	141 E	10	81
8 24	19 25.82	−34 26.6	1.767	2.587	15.9	20.1	136 E	11	82
8 29	19 22.32	−33 39.9	1.801	2.575	17.3	20.1	131 E	11	82
9 8	19 18.12	−32 2.8	1.882	2.548	19.9	20.3	121 E	13	84
9 18	19 17.48	−30 24.4	1.976	2.521	21.8	20.4	111 E	15	86
9 28	19 20.08	−28 47.3	2.077	2.493	23.1	20.6	102 E	16	87
10 8	19 25.48	−27 12.0	2.183	2.465	23.9	20.7	94 E	18	88*
10 18	19 33.27	−25 38.1	2.290	2.435	24.1	20.8	86 E	19	80*
10 28	19 43.06	−24 4.5	2.394	2.405	23.9	20.8	79 E	21*	72*
11 7	19 54.50	−22 29.7	2.494	2.374	23.3	20.9	72 E	22*	63*
11 17	20 7.30	−20 52.4	2.588	2.343	22.4	20.9	65 E	24*	55*
11 27	20 21.24	−19 11.1	2.673	2.310	21.3	20.9	58 E	24*	47*
12 7	20 36.10	−17 24.8	2.750	2.278	19.9	20.9	52 E	25*	39*
12 17	20 51.72	−15 32.5	2.816	2.244	18.3	20.8	46 E	25*	32*
12 27	21 7.98	−13 33.4	2.871	2.211	16.6	20.8	40 E	24*	25*
1 6	21 24.76	−11 27.1	2.915	2.177	14.8	20.7	34 E	23*	18*
1 16	21 42.01	− 9 13.1	2.947	2.142	12.9	20.7	29 E	20*	13*

329502 2002 RM_{137}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	20 28.56	− 1 9.2	2.565	2.464	22.9	21.5	73 W	35*	58*
4 21	20 41.38	− 0 1.1	2.415	2.430	23.9	21.4	79 W	37*	61*
5 1	20 53.27	+ 1 7.7	2.264	2.396	24.8	21.2	85 W	39*	63*
5 11	21 4.06	+ 2 14.7	2.112	2.361	25.3	21.1	91 W	41*	62
5 21	21 13.58	+ 3 17.5	1.960	2.325	25.6	20.9	98 W	44*	61
5 31	21 21.58	+ 4 12.7	1.811	2.289	25.4	20.7	105 W	47*	60
6 10	21 27.82	+ 4 56.0	1.666	2.253	24.7	20.4	112 W	49*	59
6 15	21 30.18	+ 5 11.7	1.596	2.234	24.2	20.3	116 W	50*	59
6 20	21 31.99	+ 5 22.4	1.528	2.216	23.5	20.2	120 W	50*	59
6 25	21 33.20	+ 5 27.2	1.462	2.198	22.6	20.0	124 W	50	59
6 30	21 33.79	+ 5 25.3	1.399	2.179	21.5	19.9	128 W	50	59
7 5	21 33.72	+ 5 15.8	1.339	2.161	20.3	19.7	133 W	50	59
7 10	21 32.99	+ 4 57.7	1.282	2.142	18.8	19.6	137 W	50	59
7 15	21 31.57	+ 4 30.0	1.229	2.124	17.2	19.4	142 W	49	60
7 20	21 29.47	+ 3 51.9	1.180	2.105	15.3	19.2	147 W	49	60
7 30	21 23.44	+ 2 2.2	1.097	2.068	11.3	18.9	157 W	47	62
8 9	21 15.56	− 0 32.2	1.036	2.031	7.6	18.6	165 E	44	65
8 19	21 6.89	− 3 44.5	0.999	1.995	7.4	18.4	165 E	41	68
8 24	21 2.71	− 5 30.4	0.991	1.977	9.1	18.5	162 E	39	70
8 29	20 58.90	− 7 19.6	0.989	1.959	11.5	18.5	157 E	38	71
9 3	20 55.62	− 9 9.5	0.992	1.942	14.1	18.6	152 E	36	73
9 8	20 53.04	−10 57.6	1.002	1.924	16.8	18.7	147 E	34	75
9 13	20 51.26	−12 41.9	1.016	1.907	19.4	18.8	141 E	32	77
9 18	20 50.41	−14 20.6	1.036	1.890	21.8	18.9	136 E	31	78
9 23	20 50.53	−15 52.3	1.059	1.873	24.0	19.0	131 E	29	80
9 28	20 51.67	−17 16.0	1.086	1.857	26.1	19.1	126 E	28	81
10 8	20 56.96	−19 37.7	1.148	1.825	29.4	19.3	116 E	25	84
10 18	21 6.06	−21 24.4	1.218	1.795	31.9	19.5	108 E	24	85
10 28	21 18.60	−22 36.9	1.293	1.766	33.6	19.6	100 E	22	87
11 2	21 26.00	−23 0.9	1.332	1.752	34.2	19.7	97 E	22	87*
11 7	21 34.06	−23 17.2	1.370	1.739	34.7	19.7	93 E	22	85*
11 12	21 42.73	−23 26.1	1.409	1.727	35.0	19.8	90 E	22	83*
11 17	21 51.95	−23 27.7	1.447	1.715	35.2	19.8	87 E	22	79*
11 22	22 1.66	−23 22.5	1.485	1.704	35.2	19.9	85 E	22	76*
11 27	22 11.81	−23 10.5	1.523	1.693	35.2	19.9	82 E	22	73*
12 2	22 22.34	−22 52.3	1.560	1.683	35.1	19.9	79 E	22	70*
12 7	22 33.20	−22 28.0	1.596	1.674	35.0	20.0	77 E	23	67*
12 12	22 44.35	−21 58.0	1.632	1.665	34.7	20.0	74 E	23	64*
12 17	22 55.77	−21 22.4	1.668	1.657	34.4	20.0	72 E	24	62*
12 22	23 7.41	−20 41.7	1.702	1.650	34.1	20.1	70 E	24	59*
12 27	23 19.25	−19 56.1	1.736	1.644	33.7	20.1	68 E	25*	57*
1 1	23 31.24	−19 6.0	1.769	1.639	33.3	20.1	66 E	26*	54*
1 6	23 43.38	−18 11.8	1.801	1.634	32.8	20.1	64 E	27*	52*
1 11	23 55.63	−17 13.6	1.833	1.630	32.3	20.1	62 E	27*	50*
1 16	0 8.00	−16 12.0	1.865	1.628	31.8	20.2	61 E	28*	48*

380665 2005 EF_{224}

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 11	20 33.66	−43 9.3	2.663	2.718	21.4	21.4	82 W	—	66*
4 21	20 48.47	−43 42.5	2.510	2.686	22.0	21.3	89 W	—	69*
5 1	21 1.95	−44 25.4	2.358	2.652	22.2	21.1	96 W	—	71*
5 11	21 13.81	−45 19.8	2.209	2.618	22.1	21.0	102 W	—	71
5 21	21 23.68	−46 27.8	2.065	2.582	21.7	20.8	109 W	—	70
5 31	21 31.03	−47 50.3	1.929	2.545	21.0	20.6	116 W	—	68
6 10	21 35.25	−49 27.0	1.804	2.507	19.8	20.4	123 W	—	67
6 15	21 35.95	−50 19.9	1.746	2.487	19.2	20.3	126 W	—	66
6 20	21 35.57	−51 15.0	1.691	2.467	18.5	20.2	130 W	—	65
6 25	21 34.00	−52 11.4	1.641	2.447	17.8	20.0	133 W	—	64
6 30	21 31.14	−53 7.8	1.594	2.427	17.1	19.9	136 W	—	63
7 5	21 26.95	−54 2.6	1.552	2.406	16.4	19.8	138 W	—	62
7 10	21 21.37	−54 54.0	1.515	2.385	15.9	19.8	140 W	—	61
7 15	21 14.42	−55 40.1	1.482	2.364	15.5	19.7	141 W	—	60
7 20	21 6.21	−56 18.5	1.455	2.342	15.4	19.6	142 W	—	60
7 25	20 56.92	−56 47.2	1.433	2.321	15.6	19.6	142 W	—	59
7 30	20 46.89	−57 4.4	1.416	2.298	16.0	19.5	141 W	—	59
8 4	20 36.48	−57 8.8	1.404	2.276	16.7	19.5	140 E	—	59
8 9	20 26.12	−56 59.8	1.397	2.254	17.6	19.5	138 E	—	59
8 14	20 16.24	−56 37.4	1.395	2.231	18.7	19.5	135 E	—	59
8 19	20 7.22	−56 2.3	1.398	2.208	19.9	19.5	132 E	—	60
8 24	19 59.40	−55 15.5	1.404	2.185	21.1	19.6	129 E	—	61
8 29	19 52.98	−54 18.9	1.415	2.161	22.4	19.6	125 E	—	62
9 3	19 48.07	−53 14.0	1.429	2.138	23.7	19.6	122 E	—	63
9 8	19 44.68	−52 2.6	1.446	2.114	24.9	19.7	118 E	—	64
9 13	19 42.78	−50 46.1	1.465	2.090	26.1	19.7	114 E	—	65
9 18	19 42.30	−49 25.6	1.487	2.065	27.1	19.8	110 E	—	67
9 23	19 43.14	−48 2.3	1.511	2.041	28.1	19.8	107 E	—	68
9 28	19 45.18	−46 36.9	1.536	2.017	28.9	19.8	103 E	—	69
10 3	19 48.29	−45 10.0	1.563	1.992	29.7	19.9	100 E	—	71
10 8	19 52.37	−43 41.9	1.590	1.967	30.3	19.9	96 E	1	72

380665 2005 EF_{224} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
10 13	19 57.30	−42 12.8	1.618	1.942	30.9	19.9	93 E	3	74
10 18	20 2.99	−40 42.7	1.646	1.918	31.3	19.9	90 E	4	75*
10 23	20 9.36	−39 11.6	1.674	1.893	31.6	20.0	86 E	6	75*
10 28	20 16.32	−37 39.6	1.702	1.868	31.9	20.0	83 E	7	75*
11 2	20 23.79	−36 6.4	1.729	1.843	32.1	20.0	80 E	9	73*
11 7	20 31.72	−34 31.8	1.756	1.818	32.1	20.0	77 E	10	71*
11 17	20 48.72	−31 18.2	1.808	1.769	32.1	20.0	72 E	14	66*
11 27	21 6.99	−27 57.3	1.856	1.720	31.7	20.0	66 E	17*	59*
12 7	21 26.21	−24 28.2	1.900	1.672	31.2	19.9	62 E	20*	53*
12 17	21 46.22	−20 49.8	1.939	1.625	30.5	19.9	57 E	23*	46*
12 27	22 6.90	−17 1.8	1.973	1.580	29.6	19.9	52 E	26*	39*
1 6	22 28.17	−13 4.2	2.003	1.538	28.6	19.8	48 E	28*	33*
1 16	22 50.04	− 8 57.1	2.028	1.498	27.5	19.7	45 E	29*	28*

190677 2001 BQ_{61}

4 11	20 43.44	+ 5 50.6	3.784	3.537	15.3	21.5	68 W	39*	51*
4 21	20 50.49	+ 6 58.7	3.646	3.527	16.0	21.4	75 W	41*	54*
5 1	20 56.34	+ 8 6.9	3.503	3.515	16.5	21.3	82 W	45*	56*
5 11	21 0.84	+ 9 13.7	3.357	3.503	16.8	21.2	90 W	48*	55
5 21	21 3.84	+10 17.0	3.210	3.490	16.7	21.1	97 W	51*	54
5 31	21 5.17	+11 14.4	3.067	3.476	16.3	21.0	105 W	55*	53
6 10	21 4.72	+12 3.1	2.929	3.461	15.6	20.9	113 W	57*	52
6 20	21 2.39	+12 39.7	2.801	3.445	14.5	20.7	122 W	58	51
6 30	20 58.20	+13 0.8	2.687	3.429	13.1	20.6	130 W	58	51
7 10	20 52.33	+13 2.8	2.589	3.411	11.6	20.4	138 W	58	51
7 20	20 45.09	+12 43.0	2.513	3.393	10.0	20.3	145 W	58	51
7 30	20 36.98	+12 0.0	2.460	3.374	8.8	20.2	149 E	57	52
8 9	20 28.69	+10 54.8	2.432	3.354	8.5	20.1	151 E	56	53
8 19	20 20.88	+ 9 30.3	2.432	3.333	9.3	20.2	148 E	55	54
8 24	20 17.38	+ 8 42.4	2.441	3.322	10.0	20.2	145 E	54	55
8 29	20 14.24	+ 7 51.8	2.457	3.311	10.8	20.2	142 E	53	56
9 3	20 11.53	+ 6 59.2	2.479	3.300	11.8	20.3	138 E	52	57
9 8	20 9.29	+ 6 5.4	2.506	3.289	12.7	20.3	134 E	51	58
9 13	20 7.55	+ 5 11.2	2.539	3.277	13.6	20.4	130 E	50	59
9 18	20 6.34	+ 4 17.2	2.576	3.265	14.5	20.4	126 E	49	60
9 28	20 5.56	+ 2 32.6	2.664	3.241	16.0	20.5	117 E	48	61
10 8	20 6.95	+ 0 55.6	2.763	3.216	17.2	20.7	108 E	46	63
10 18	20 10.39	− 0 31.0	2.872	3.190	17.9	20.7	99 E	44	64*
10 28	20 15.74	− 1 45.6	2.986	3.164	18.3	20.8	91 E	43	63*
11 7	20 22.79	− 2 47.3	3.100	3.136	18.3	20.9	83 E	42	59*
11 17	20 31.33	− 3 35.9	3.213	3.108	17.9	20.9	75 E	41*	52*
11 27	20 41.17	− 4 11.6	3.320	3.078	17.2	21.0	67 E	40*	45*
12 7	20 52.12	− 4 34.8	3.420	3.048	16.2	21.0	60 E	38*	38*
12 17	21 4.01	− 4 46.2	3.511	3.017	15.0	21.0	53 E	36*	30*
12 27	21 16.70	− 4 46.4	3.589	2.986	13.6	20.9	46 E	33*	23*
1 6	21 30.05	− 4 36.4	3.655	2.953	12.0	20.9	39 E	29*	17*
1 16	21 43.95	− 4 16.9	3.706	2.920	10.3	20.8	32 E	24*	11*

464764 2003 US_{20}

4 11	20 44.67	−26 8.9	1.717	1.747	33.6	21.4	75 W	11*	68*
4 21	21 10.97	−25 14.0	1.617	1.727	34.8	21.3	79 W	11*	72*
5 1	21 36.58	−24 10.8	1.520	1.709	35.8	21.1	82 W	11*	76*
5 11	22 1.33	−23 1.9	1.427	1.693	36.5	21.0	86 W	12*	80*
5 21	22 25.05	−21 50.0	1.339	1.680	37.0	20.9	90 W	14*	84*
5 31	22 47.49	−20 38.2	1.254	1.670	37.3	20.7	94 W	16*	85
6 10	23 8.43	−19 29.4	1.173	1.662	37.2	20.6	99 W	18*	83
6 20	23 27.56	−18 27.0	1.096	1.657	36.6	20.4	103 W	21*	82
6 30	23 44.49	−17 34.0	1.024	1.656	35.6	20.2	108 W	24*	82
7 10	23 58.81	−16 52.8	0.957	1.657	34.1	20.0	114 W	27*	81
7 20	0 9.98	−16 25.3	0.896	1.661	31.8	19.8	121 W	28*	80
7 30	0 17.41	−16 12.0	0.841	1.668	28.8	19.6	128 W	29	80
8 9	0 20.63	−16 10.9	0.795	1.678	24.9	19.4	136 W	29	80
8 14	0 20.54	−16 13.6	0.776	1.684	22.7	19.3	140 W	29	80
8 19	0 19.31	−16 17.4	0.760	1.690	20.3	19.2	145 W	29	80
8 24	0 16.97	−16 21.1	0.748	1.698	17.7	19.0	149 W	29	80
8 29	0 13.64	−16 23.3	0.740	1.705	15.1	18.9	154 W	29	80
9 3	0 9.47	−16 22.7	0.735	1.714	12.5	18.8	158 W	29	80
9 8	0 4.63	−16 18.1	0.736	1.723	10.2	18.8	162 W	29	80
9 13	23 59.36	−16 8.3	0.741	1.732	8.6	18.7	165 W	29	80
9 18	23 53.91	−15 52.7	0.751	1.743	8.2	18.8	166 W	29	80
9 23	23 48.58	−15 30.7	0.766	1.753	9.0	18.8	164 E	29	80
9 28	23 43.61	−15 2.2	0.787	1.764	10.7	19.0	161 E	30	79
10 3	23 39.22	−14 27.5	0.812	1.776	12.9	19.2	157 E	31	78
10 8	23 35.56	−13 47.3	0.842	1.788	15.1	19.3	152 E	31	78
10 13	23 32.73	−13 2.2	0.877	1.800	17.3	19.5	148 E	32	77
10 18	23 30.81	−12 13.0	0.916	1.813	19.4	19.7	143 E	33	76
10 28	23 29.75	−10 24.8	1.007	1.840	22.9	20.0	134 E	35	74
11 7	23 32.18	− 8 27.6	1.110	1.868	25.6	20.4	125 E	37	72

464764 2003 US_{20} *(continuation)*

11 17	23 37.64	− 6 24.8	1.226	1.897	27.5	20.7	117 E	39	70
11 27	23 45.65	− 4 18.4	1.351	1.927	28.7	20.9	110 E	41	68
12 7	23 55.70	− 2 10.1	1.483	1.958	29.3	21.2	103 E	43	66*
12 17	0 7.39	− 0 0.8	1.621	1.989	29.4	21.4	96 E	45	61*

360658 2004 RS_{54}

4 11	20 48.06	−13 0.8	1.780	1.727	33.2	21.4	70 W	22*	63*
4 21	21 12.36	−11 19.8	1.677	1.702	34.6	21.3	74 W	23*	66*
5 1	21 36.29	− 9 31.3	1.577	1.679	35.9	21.2	78 W	24*	68*
5 11	21 59.80	− 7 37.9	1.480	1.659	37.0	21.0	81 W	26*	69*
5 21	22 22.83	− 5 42.2	1.387	1.640	37.9	20.9	85 W	28*	69*
5 31	22 45.28	− 3 47.4	1.297	1.624	38.6	20.8	88 W	31*	68
6 10	23 7.05	− 1 57.0	1.212	1.611	39.0	20.6	92 W	34*	66
6 20	23 27.98	− 0 14.5	1.130	1.601	39.1	20.4	96 W	38*	64
6 30	23 47.82	+ 1 15.9	1.052	1.593	38.8	20.3	101 W	41*	63
7 10	0 6.30	+ 2 30.2	0.979	1.589	38.1	20.1	105 W	45*	61
7 20	0 23.01	+ 3 24.2	0.910	1.587	36.7	19.9	111 W	48*	61
7 30	0 37.42	+ 3 53.3	0.847	1.589	34.7	19.7	117 W	49	60
8 9	0 49.02	+ 3 54.0	0.789	1.594	31.9	19.5	124 W	49	60
8 19	0 57.19	+ 3 23.5	0.740	1.602	28.2	19.2	132 W	48	61
8 29	1 1.42	+ 2 21.0	0.700	1.613	23.4	19.0	141 W	47	62
9 3	1 2.01	+ 1 38.9	0.684	1.620	20.7	18.8	145 W	47	62
9 8	1 1.61	+ 0 50.8	0.672	1.627	17.7	18.7	151 W	46	63
9 13	1 0.27	− 0 2.1	0.664	1.635	14.6	18.6	156 W	45	64
9 18	0 58.11	− 0 58.0	0.660	1.643	11.4	18.5	161 W	44	65
9 23	0 55.30	− 1 54.6	0.661	1.653	8.3	18.4	166 W	43	66
9 28	0 52.06	− 2 49.7	0.666	1.662	5.8	18.3	170 W	42	67
10 3	0 48.61	− 3 41.0	0.676	1.673	4.9	18.3	172 W	41	68
10 8	0 45.18	− 4 26.5	0.691	1.683	6.3	18.4	169 E	41	68
10 13	0 41.98	− 5 4.8	0.711	1.695	8.8	18.6	165 E	40	69
10 18	0 39.22	− 5 34.6	0.736	1.707	11.5	18.8	160 E	39	70
10 28	0 35.61	− 6 6.6	0.800	1.732	16.8	19.2	150 E	39	70
11 7	0 35.06	− 6 3.0	0.880	1.758	21.2	19.6	140 E	39	70
11 17	0 37.69	− 5 28.5	0.974	1.786	24.7	19.9	131 E	40	69
11 22	0 40.15	− 5 1.5	1.025	1.801	26.0	20.1	127 E	40	69
11 27	0 43.29	− 4 29.1	1.080	1.815	27.2	20.3	123 E	41	68
12 2	0 47.08	− 3 52.0	1.137	1.830	28.1	20.4	119 E	41	68
12 7	0 51.43	− 3 11.0	1.196	1.846	28.9	20.6	115 E	42	67
12 12	0 56.32	− 2 26.6	1.257	1.861	29.5	20.7	112 E	43	66
12 17	1 1.68	− 1 39.4	1.320	1.877	29.9	20.9	108 E	43	66
12 22	1 7.48	− 0 49.9	1.385	1.892	30.2	21.0	105 E	44	65*
12 27	1 13.67	+ 0 1.4	1.451	1.908	30.3	21.1	102 E	45	63*
1 1	1 20.20	+ 0 54.1	1.518	1.924	30.4	21.2	98 E	46	61*
1 6	1 27.05	+ 1 47.9	1.586	1.940	30.3	21.4	95 E	47	59*
1 11	1 34.19	+ 2 42.3	1.655	1.956	30.2	21.5	92 E	48	57*

522684 2016 JP

4 11	21 3.49	− 8 37.0	0.100	0.965	108.8	20.1	66 W	24*	58*
4 13	20 39.16	− 5 54.9	0.097	0.979	101.5	19.7	73 W	30*	62*
4 15	20 13.84	− 2 58.2	0.095	0.992	94.0	19.3	81 W	36*	64*
4 17	19 47.95	+ 0 6.7	0.094	1.005	86.4	19.0	88 W	41*	64*
4 19	19 21.94	+ 3 12.2	0.094	1.018	78.9	18.8	96 W	46*	61
4 21	18 56.32	+ 6 10.3	0.096	1.031	71.6	18.6	103 W	51*	58
4 22	18 43.80	+ 7 34.5	0.098	1.037	68.2	18.5	107 W	53*	56
4 23	18 31.55	+ 8 54.4	0.099	1.044	64.9	18.5	110 W	54	55
4 24	18 19.61	+10 9.5	0.102	1.050	61.7	18.4	113 W	55	54
4 25	18 8.01	+11 19.6	0.104	1.056	58.7	18.4	116 W	56	53
4 26	17 56.80	+12 24.3	0.107	1.062	55.8	18.4	119 W	57	52
4 27	17 46.00	+13 23.6	0.109	1.068	53.2	18.4	122 W	58	51
4 28	17 35.62	+14 17.6	0.113	1.074	50.7	18.4	124 W	59	50
4 29	17 25.68	+15 6.3	0.116	1.080	48.4	18.4	127 W	60	49
4 30	17 16.17	+15 50.0	0.120	1.086	46.3	18.4	129 W	61	48
5 1	17 7.11	+16 28.8	0.123	1.092	44.4	18.5	131 W	61	48
5 3	16 50.28	+17 33.2	0.132	1.104	41.1	18.5	134 W	63	46
5 5	16 35.12	+18 21.7	0.141	1.115	38.4	18.6	137 W	63	46
5 7	16 21.53	+18 56.8	0.150	1.126	36.3	18.7	139 W	64	45
5 9	16 9.35	+19 20.7	0.160	1.137	34.8	18.8	140 W	64	45
5 11	15 58.48	+19 35.1	0.171	1.147	33.8	19.0	141 W	65	44
5 13	15 48.78	+19 41.6	0.182	1.158	33.1	19.1	141 W	65	44
5 15	15 40.14	+19 41.5	0.193	1.168	32.7	19.2	141 W	65	44
5 17	15 32.46	+19 35.9	0.205	1.178	32.6	19.4	141 E	65	44
5 19	15 25.63	+19 25.7	0.217	1.188	32.8	19.5	141 E	64	45
5 21	15 19.59	+19 11.6	0.230	1.197	33.0	19.7	140 E	64	45
5 26	15 7.46	+18 23.1	0.263	1.220	34.2	20.0	137 E	63	46
5 31	14 58.84	+17 21.3	0.297	1.241	35.6	20.4	135 E	62	47
6 5	14 53.01	+16 11.3	0.333	1.260	37.1	20.7	131 E	61	48
6 10	14 49.40	+14 56.1	0.370	1.278	38.6	21.0	128 E	60	49
6 15	14 47.59	+13 37.7	0.409	1.294	40.0	21.3	125 E	59	50

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
354408 2003 UR_{205}									
4 11	21 17.07	− 8 1.7	2.591	2.305	22.7	21.5	62 W	22*	54*
4 21	21 33.64	− 6 10.5	2.442	2.259	24.3	21.3	68 W	25*	59*
5 1	21 49.85	− 4 12.6	2.291	2.213	25.8	21.2	73 W	27*	62*
5 11	22 5.68	− 2 8.7	2.140	2.168	27.1	21.0	78 W	30*	64*
5 21	22 21.09	+ 0 0.6	1.990	2.122	28.3	20.9	83 W	33*	64*
5 31	22 35.99	+ 2 14.0	1.842	2.077	29.2	20.7	88 W	37*	62
6 10	22 50.32	+ 4 30.7	1.698	2.032	29.9	20.5	94 W	42*	59
6 20	23 3.97	+ 6 49.2	1.559	1.988	30.3	20.3	99 W	47*	57
6 30	23 16.76	+ 9 7.7	1.425	1.945	30.4	20.0	104 W	52*	55
7 10	23 28.52	+11 23.8	1.298	1.903	30.2	19.8	110 W	56*	53
7 20	23 38.99	+13 34.7	1.179	1.862	29.4	19.5	116 W	59	50
7 25	23 43.62	+14 36.9	1.122	1.842	28.9	19.3	119 W	60	49
7 30	23 47.81	+15 36.0	1.068	1.823	28.2	19.2	122 W	61	48
8 4	23 51.51	+16 31.5	1.016	1.804	27.3	19.0	125 W	62	47
8 9	23 54.67	+17 22.4	0.967	1.786	26.3	18.9	129 W	62	47
8 14	23 57.25	+18 8.0	0.920	1.768	25.1	18.7	132 W	63	46
8 19	23 59.19	+18 47.1	0.877	1.751	23.8	18.5	136 W	64	45
8 24	0 0.48	+19 18.5	0.836	1.734	22.2	18.4	140 W	64	45
8 29	0 1.13	+19 41.2	0.799	1.719	20.5	18.2	143 W	65	44
9 3	0 1.14	+19 54.1	0.766	1.704	18.7	18.0	147 W	65	44
9 8	0 0.57	+19 56.2	0.736	1.689	16.7	17.9	151 W	65	44
9 13	23 59.49	+19 46.8	0.710	1.676	14.8	17.7	155 W	65	44
9 18	23 58.02	+19 25.1	0.688	1.663	12.9	17.5	158 W	64	45
9 23	23 56.34	+18 51.5	0.670	1.652	11.3	17.4	161 E	64	45
9 28	23 54.64	+18 6.7	0.657	1.641	10.4	17.3	163 E	63	46
10 3	23 53.12	+17 12.0	0.648	1.631	10.3	17.3	163 E	62	47
10 8	23 51.98	+16 9.5	0.644	1.623	11.3	17.3	161 E	61	48
10 13	23 51.40	+15 1.5	0.644	1.615	13.0	17.3	159 E	60	49
10 18	23 51.54	+13 50.5	0.649	1.608	15.1	17.4	155 E	59	50
10 23	23 52.53	+12 39.4	0.658	1.603	17.5	17.5	151 E	58	51
10 28	23 54.45	+11 31.0	0.671	1.598	19.8	17.6	147 E	57	52
11 2	23 57.32	+10 27.2	0.688	1.595	22.1	17.8	143 E	55	54
11 7	0 1.12	+ 9 29.8	0.708	1.593	24.3	17.9	139 E	54	55
11 12	0 5.82	+ 8 39.8	0.732	1.592	26.3	18.0	135 E	54	55
11 17	0 11.39	+ 7 58.1	0.760	1.592	28.1	18.2	131 E	53	56
11 27	0 24.85	+ 7 0.8	0.823	1.596	31.0	18.4	123 E	52	57
12 7	0 40.87	+ 6 36.9	0.896	1.604	33.2	18.7	117 E	52	57
12 17	0 58.87	+ 6 42.0	0.979	1.617	34.6	18.9	111 E	52	57
12 27	1 18.41	+ 7 11.0	1.069	1.634	35.5	19.2	105 E	52	56*
1 6	1 39.05	+ 7 58.0	1.167	1.655	35.8	19.4	100 E	53	54*
1 16	2 0.51	+ 8 57.3	1.272	1.679	35.7	19.6	95 E	54	52*
168870 2000 WN_6									
4 11	21 35.07	−30 26.5	3.348	3.081	17.3	21.5	66 W	1*	57*
4 21	21 47.49	−30 41.8	3.214	3.077	18.2	21.4	73 W	2*	64*
5 1	21 58.98	−31 7.0	3.075	3.072	18.9	21.3	80 W	3*	71*
5 11	22 9.38	−31 44.3	2.934	3.066	19.2	21.2	88 W	4*	78*
5 21	22 18.52	−32 35.6	2.793	3.058	19.2	21.1	95 W	5*	83*
5 31	22 26.15	−33 42.7	2.655	3.050	18.9	21.0	103 W	6*	82
6 10	22 32.00	−35 6.5	2.524	3.041	18.1	20.9	111 W	7*	81
6 20	22 35.74	−36 47.2	2.402	3.030	17.0	20.7	119 W	7*	79
6 30	22 37.00	−38 43.2	2.294	3.019	15.6	20.6	127 W	6*	77
7 10	22 35.46	−40 50.4	2.204	3.006	13.9	20.4	135 W	4	75
7 15	22 33.54	−41 56.3	2.166	3.000	13.1	20.3	138 W	3	74
7 20	22 30.84	−43 2.2	2.133	2.993	12.3	20.3	141 W	2	73
7 25	22 27.36	−44 6.9	2.106	2.986	11.6	20.2	144 W	1	72
7 30	22 23.13	−45 9.1	2.085	2.978	11.1	20.2	146 W	—	71
8 4	22 18.21	−46 7.2	2.071	2.971	10.8	20.1	147 W	—	70
8 9	22 12.70	−47 0.1	2.062	2.963	10.8	20.1	147 W	—	69
8 14	22 6.71	−47 46.4	2.060	2.954	11.1	20.1	146 W	—	68
8 19	22 0.41	−48 25.3	2.064	2.946	11.6	20.1	144 W	—	68
8 24	21 53.97	−48 55.8	2.074	2.937	12.2	20.2	142 E	—	67
8 29	21 47.59	−49 17.7	2.089	2.928	13.1	20.2	139 E	—	67
9 3	21 41.46	−49 30.8	2.110	2.919	14.0	20.2	136 E	—	66
9 8	21 35.77	−49 35.4	2.136	2.909	14.9	20.3	132 E	—	66
9 13	21 30.64	−49 32.0	2.167	2.900	15.8	20.4	128 E	—	66
9 18	21 26.23	−49 21.0	2.201	2.890	16.7	20.4	124 E	—	67
9 23	21 22.62	−49 3.4	2.239	2.879	17.5	20.5	120 E	—	67
9 28	21 19.86	−48 39.8	2.281	2.869	18.2	20.5	116 E	—	67
10 3	21 17.99	−48 11.2	2.324	2.858	18.9	20.6	112 E	—	68
10 8	21 16.99	−47 38.2	2.371	2.847	19.5	20.6	108 E	—	68
10 13	21 16.84	−47 1.4	2.418	2.836	19.9	20.7	104 E	—	69
10 18	21 17.51	−46 21.5	2.467	2.824	20.3	20.7	100 E	—	70
10 23	21 18.97	−45 38.9	2.517	2.812	20.6	20.8	97 E	—	70
10 28	21 21.15	−44 54.0	2.568	2.800	20.8	20.8	93 E	—	71
11 2	21 24.00	−44 7.2	2.618	2.788	20.8	20.8	89 E	1	72*
11 7	21 27.46	−43 18.6	2.669	2.775	20.9	20.9	86 E	2	72*
11 12	21 31.48	−42 28.6	2.719	2.763	20.8	20.9	82 E	3	71*
11 17	21 36.02	−41 37.1	2.768	2.749	20.6	20.9	79 E	3	70*
11 22	21 41.01	−40 44.4	2.815	2.736	20.4	20.9	75 E	4	68*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
168870 2000 WN_6 *(continuation)*									
11 27	21 46.42	−39 50.6	2.862	2.723	20.2	21.0	72 E	5	65*
12 2	21 52.21	−38 55.7	2.907	2.709	19.8	21.0	69 E	6	62*
12 7	21 58.32	−37 59.7	2.950	2.695	19.4	21.0	65 E	7	59*
12 12	22 4.73	−37 2.7	2.991	2.680	19.0	21.0	62 E	8*	56*
12 17	22 11.42	−36 4.7	3.030	2.666	18.5	21.0	59 E	9*	53*
12 22	22 18.34	−35 5.7	3.067	2.651	18.0	21.0	56 E	9*	50*
12 27	22 25.48	−34 5.9	3.102	2.636	17.4	21.0	53 E	10*	47*
1 1	22 32.80	−33 5.1	3.134	2.621	16.8	21.0	51 E	10*	44*
1 6	22 40.29	−32 3.5	3.163	2.605	16.2	21.0	48 E	10*	41*
1 11	22 47.94	−31 1.1	3.190	2.589	15.6	20.9	45 E	10*	38*
1 16	22 55.73	−29 57.8	3.214	2.573	14.9	20.9	42 E	10*	36*
365426 2010 KC_{61}									
4 11	21 44.25	−18 28.9	1.864	1.603	32.5	21.4	59 W	10*	53*
4 21	22 12.92	−16 33.3	1.785	1.584	34.1	21.4	62 W	11*	56*
5 1	22 41.10	−14 27.7	1.709	1.568	35.5	21.3	65 W	11*	59*
5 11	23 8.70	−12 14.9	1.637	1.555	36.8	21.2	67 W	13*	61*
5 21	23 35.68	− 9 58.1	1.569	1.546	37.9	21.1	70 W	15*	63*
5 31	0 1.91	− 7 40.4	1.504	1.541	38.9	21.1	73 W	17*	65*
6 10	0 27.33	− 5 25.0	1.442	1.539	39.6	21.0	75 W	20*	66*
6 20	0 51.83	− 3 14.7	1.383	1.541	40.2	20.9	78 W	24*	66*
6 30	1 15.23	− 1 12.5	1.324	1.547	40.5	20.9	82 W	29*	65*
7 10	1 37.35	+ 0 39.6	1.268	1.557	40.6	20.8	85 W	34*	63*
7 20	1 57.96	+ 2 19.8	1.211	1.570	40.3	20.7	89 W	39*	62
7 30	2 16.72	+ 3 46.7	1.155	1.587	39.7	20.6	94 W	44*	60
8 9	2 33.28	+ 4 59.8	1.100	1.607	38.6	20.5	99 W	48*	59
8 19	2 47.16	+ 5 58.9	1.045	1.629	36.9	20.4	105 W	51*	58
8 29	2 57.81	+ 6 44.2	0.992	1.655	34.6	20.2	112 W	52	57
9 8	3 4.71	+ 7 17.1	0.942	1.682	31.5	20.0	119 W	52	57
9 18	3 7.29	+ 7 38.9	0.898	1.712	27.5	19.9	128 W	53	56
9 28	3 5.24	+ 7 51.8	0.864	1.743	22.6	19.7	138 W	53	56
10 8	2 58.73	+ 7 59.0	0.842	1.776	16.8	19.5	149 W	53	56
10 13	2 54.02	+ 8 1.5	0.838	1.793	13.6	19.4	155 W	53	56
10 18	2 48.57	+ 8 3.9	0.838	1.810	10.3	19.3	161 W	53	56
10 23	2 42.61	+ 8 6.9	0.844	1.827	7.1	19.2	167 W	53	56
10 28	2 36.40	+ 8 11.1	0.856	1.845	4.4	19.1	172 W	53	56
11 2	2 30.22	+ 8 17.0	0.873	1.863	3.4	19.1	174 W	53	56
11 7	2 24.30	+ 8 25.0	0.897	1.881	5.2	19.3	170 E	53	56
11 17	2 14.13	+ 8 48.7	0.961	1.917	10.6	19.7	159 E	54	55
11 27	2 7.18	+ 9 24.2	1.047	1.954	15.6	20.1	148 E	54	55
12 7	2 3.94	+10 11.3	1.152	1.991	19.6	20.5	137 E	55	54
12 17	2 4.32	+11 8.6	1.272	2.028	22.6	20.8	128 E	56	53
12 27	2 7.99	+12 14.3	1.405	2.065	24.7	21.2	119 E	57	52
1 6	2 14.44	+13 26.1	1.548	2.102	26.0	21.4	110 E	58	50*
257803 2000 EC_{75}									
4 11	21 45.38	−28 11.6	3.104	2.797	18.6	21.4	63 W	2*	55*
4 21	21 58.59	−27 16.2	2.958	2.771	19.9	21.4	70 W	4*	62*
5 1	22 10.83	−26 24.4	2.806	2.744	20.9	21.3	76 W	6*	69*
5 11	22 21.95	−25 37.5	2.650	2.716	21.7	21.1	83 W	8*	76*
5 21	22 31.81	−24 56.8	2.491	2.687	22.1	21.0	90 W	10*	84*
5 31	22 40.17	−24 23.7	2.332	2.657	22.2	20.8	97 W	13*	88
6 10	22 46.77	−23 59.3	2.175	2.626	21.9	20.6	105 W	16*	88
6 20	22 51.29	−23 44.7	2.023	2.594	21.1	20.4	113 W	19*	88
6 30	22 53.35	−23 40.4	1.878	2.562	19.7	20.2	122 W	21*	88
7 10	22 52.56	−23 45.9	1.744	2.528	17.7	19.9	131 W	21	88
7 20	22 48.57	−23 59.2	1.624	2.494	15.0	19.7	141 W	21	88
7 30	22 41.18	−24 16.0	1.523	2.459	11.6	19.4	151 W	21	88
8 4	22 36.26	−24 23.8	1.481	2.442	9.8	19.2	156 W	21	88
8 9	22 30.59	−24 30.0	1.444	2.424	8.0	19.1	161 W	21	88
8 14	22 24.28	−24 33.4	1.414	2.406	6.4	18.9	165 W	20	89
8 19	22 17.47	−24 33.2	1.390	2.387	5.5	18.9	167 W	20	89
8 24	22 10.34	−24 28.3	1.374	2.369	5.7	18.8	167 E	21	88
8 29	22 3.11	−24 18.1	1.364	2.351	6.9	18.8	164 E	21	88
9 3	21 55.98	−24 2.3	1.361	2.332	8.8	18.9	159 E	21	88
9 8	21 49.16	−23 40.7	1.365	2.313	11.0	19.0	154 E	21	88
9 13	21 42.84	−23 13.6	1.374	2.294	13.2	19.1	149 E	22	87
9 18	21 37.19	−22 41.2	1.390	2.275	15.4	19.1	143 E	22	87
9 23	21 32.35	−22 4.1	1.410	2.256	17.4	19.2	138 E	23	86
9 28	21 28.41	−21 23.0	1.436	2.237	19.4	19.3	132 E	24	85
10 8	21 23.35	−19 50.8	1.498	2.198	22.7	19.5	122 E	25	84
10 18	21 22.08	−18 8.9	1.572	2.159	25.3	19.6	112 E	27	82
10 28	21 24.34	−16 19.7	1.653	2.119	27.1	19.7	104 E	29	80
11 7	21 29.72	−14 24.5	1.738	2.080	28.3	19.8	95 E	31	77*
11 17	21 37.76	−12 23.4	1.823	2.041	29.0	19.9	88 E	33	70*
11 27	21 48.09	−10 16.1	1.906	2.002	29.1	20.0	81 E	35	62*
12 7	22 0.32	− 8 2.3	1.984	1.963	28.9	20.0	74 E	37	54*
12 17	22 14.20	− 5 41.3	2.058	1.924	28.4	20.0	68 E	39*	46*
12 27	22 29.49	− 3 12.8	2.125	1.887	27.6	20.0	63 E	40*	39*

257803 2000 EC_{75} *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
1 6	22 46.04	− 0 36.8	2.185	1.850	26.6	20.0	57 E	41*	32*
1 16	23 3.75	+ 2 6.5	2.238	1.815	25.5	20.0	52 E	40*	26*

99799 2002 LJ_3

4 11	21 57.65	−10 59.8	1.622	1.306	38.1	21.5	54 W	14*	47*
4 21	22 32.60	− 8 28.5	1.551	1.266	40.2	21.4	54 W	14*	48*
5 1	23 8.43	− 5 41.3	1.489	1.227	42.2	21.3	55 W	14*	48*
5 11	23 45.20	− 2 41.8	1.436	1.190	44.0	21.2	55 W	14*	48*
5 21	0 22.92	+ 0 25.3	1.393	1.156	45.6	21.1	55 W	15*	47*
5 31	1 1.54	+ 3 33.7	1.361	1.126	46.9	21.0	54 W	16*	46*
6 10	1 40.98	+ 6 36.5	1.340	1.100	47.9	20.9	54 W	17*	45*
6 20	2 21.09	+ 9 26.7	1.328	1.080	48.6	20.9	53 W	19*	43*
6 30	3 1.60	+11 57.7	1.326	1.067	48.8	20.9	52 W	21*	41*
7 10	3 42.21	+14 3.8	1.331	1.060	48.7	20.9	52 W	23*	39*
7 20	4 22.57	+15 41.4	1.341	1.060	48.4	20.9	51 W	26*	38*
7 30	5 2.27	+16 48.6	1.354	1.068	47.8	20.9	51 W	29*	36*
8 9	5 40.93	+17 25.5	1.369	1.082	47.1	20.9	51 W	32*	35*
8 19	6 18.25	+17 33.7	1.384	1.103	46.4	21.0	52 W	35*	34*
8 29	6 53.93	+17 16.4	1.395	1.129	45.7	21.0	53 W	37*	33*
9 8	7 27.82	+16 37.4	1.402	1.160	45.1	21.1	55 W	40*	33*
9 18	7 59.82	+15 40.9	1.404	1.194	44.6	21.1	57 W	42*	33*
9 28	8 29.89	+14 31.4	1.400	1.231	44.2	21.2	59 W	45*	33*
10 8	8 58.05	+13 13.2	1.388	1.270	43.9	21.2	62 W	47*	34*
10 18	9 24.33	+11 50.5	1.368	1.311	43.6	21.2	65 W	50*	36*
10 28	9 48.74	+10 27.3	1.340	1.351	43.3	21.3	69 W	51*	38*
11 7	10 11.29	+ 9 7.4	1.304	1.392	43.0	21.3	73 W	53*	41*
11 17	10 31.93	+ 7 54.7	1.260	1.432	42.5	21.2	78 W	53*	44*
11 27	10 50.54	+ 6 53.4	1.208	1.472	41.8	21.2	84 W	52	47*
12 7	11 6.94	+ 6 7.4	1.151	1.510	40.7	21.1	90 W	51	51*
12 17	11 20.83	+ 5 41.4	1.088	1.547	39.2	21.0	96 W	51	55*
12 27	11 31.76	+ 5 40.7	1.023	1.582	37.1	20.8	104 W	51	58*
1 6	11 39.22	+ 6 10.1	0.957	1.616	34.1	20.7	113 W	51	58
1 16	11 42.55	+ 7 14.8	0.895	1.648	30.2	20.5	123 W	52	57

483547 2003 WM_{25}

4 11	21 58.92	−19 48.7	1.804	1.507	33.7	21.4	57 W	7*	50*
4 21	22 34.09	−17 31.0	1.696	1.439	36.2	21.2	58 W	7*	52*
5 1	23 10.48	−14 46.4	1.602	1.375	38.6	21.1	58 W	7*	52*
5 11	23 47.89	−11 36.2	1.524	1.315	40.9	20.9	58 W	7*	52*
5 21	0 26.09	− 8 4.1	1.462	1.261	42.9	20.8	58 W	8*	52*
5 31	1 4.73	− 4 16.6	1.418	1.215	44.5	20.7	57 W	9*	51*
6 10	1 43.51	− 0 22.4	1.390	1.178	45.6	20.6	56 W	11*	49*
6 20	2 22.11	+ 3 29.1	1.378	1.152	46.3	20.6	55 W	14*	47*
6 30	3 0.22	+ 7 8.4	1.378	1.139	46.5	20.5	54 W	18*	45*
7 10	3 37.56	+10 28.0	1.388	1.138	46.2	20.5	54 W	22*	43*
7 20	4 13.89	+13 22.8	1.404	1.149	45.6	20.6	54 W	26*	41*
7 30	4 48.94	+15 49.9	1.423	1.173	44.8	20.6	54 W	31*	39*
8 9	5 22.46	+17 49.3	1.442	1.209	43.9	20.7	56 W	35*	37*
8 19	5 54.22	+19 22.8	1.458	1.253	43.0	20.8	58 W	40*	36*
8 29	6 23.99	+20 34.0	1.469	1.306	42.2	20.9	60 W	45*	35*
9 8	6 51.57	+21 27.3	1.473	1.365	41.4	20.9	64 W	49*	34*
9 18	7 16.83	+22 7.8	1.470	1.429	40.5	21.0	68 W	54*	34*
9 28	7 39.56	+22 40.8	1.459	1.496	39.6	21.1	72 W	59*	34*
10 8	7 59.62	+23 11.8	1.439	1.566	38.6	21.1	78 W	63*	35*
10 18	8 16.81	+23 46.2	1.412	1.637	37.2	21.1	84 W	67*	36*
10 28	8 30.84	+24 29.3	1.379	1.710	35.5	21.1	91 W	69*	36*
11 7	8 41.42	+25 25.6	1.341	1.783	33.3	21.1	99 W	70	37*
11 17	8 48.12	+26 38.9	1.302	1.856	30.6	21.0	107 W	72	37*
11 27	8 50.48	+28 10.6	1.267	1.928	27.1	21.0	117 W	73	36
12 7	8 48.17	+29 58.8	1.239	2.000	22.9	20.9	128 W	75	34
12 17	8 41.04	+31 56.8	1.224	2.071	18.1	20.8	139 W	77	32
12 27	8 29.54	+33 52.6	1.230	2.141	13.1	20.7	151 W	79	30
1 6	8 14.94	+35 32.0	1.259	2.210	8.6	20.6	160 W	81	28
1 16	7 59.17	+36 43.2	1.316	2.278	6.8	20.7	164 W	82	27

242464 2004 RB_{236}

4 11	22 0.38	−12 44.4	2.029	1.645	29.4	21.5	54 W	12*	47*
4 21	22 24.87	−10 19.1	1.970	1.651	30.6	21.5	57 W	14*	51*
5 1	22 48.34	− 7 50.5	1.910	1.661	31.8	21.5	60 W	16*	54*
5 11	23 10.77	− 5 21.3	1.849	1.672	32.8	21.4	64 W	18*	56*
5 21	23 32.17	− 2 53.9	1.787	1.686	33.7	21.4	68 W	21*	59*
5 31	23 52.46	− 0 30.7	1.723	1.702	34.4	21.4	72 W	24*	60*
6 10	0 11.58	+ 1 46.3	1.657	1.721	34.9	21.3	76 W	28*	61*
6 20	0 29.44	+ 3 55.3	1.590	1.741	35.2	21.3	81 W	33*	60*
6 30	0 45.83	+ 5 54.3	1.520	1.762	35.1	21.2	86 W	39*	58
7 10	1 0.54	+ 7 41.9	1.450	1.786	34.7	21.1	91 W	44*	56
7 20	1 13.29	+ 9 16.7	1.378	1.810	33.9	21.0	97 W	50*	55
7 30	1 23.66	+10 36.8	1.307	1.836	32.5	20.9	104 W	54*	53
8 9	1 31.27	+11 40.6	1.239	1.862	30.5	20.7	111 W	57	52
8 19	1 35.64	+12 26.4	1.174	1.890	27.8	20.6	119 W	57	52
8 29	1 36.38	+12 51.6	1.116	1.918	24.2	20.4	129 W	58	51
9 8	1 33.32	+12 54.8	1.070	1.947	19.8	20.2	139 W	58	51
9 18	1 26.66	+12 34.9	1.038	1.976	14.6	20.0	150 W	58	51

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 23	1 22.21	+12 16.8	1.030	1.990	11.7	19.9	156 W	57	52
9 28	1 17.21	+11 53.9	1.027	2.005	8.7	19.8	162 W	57	52
10 3	1 11.85	+11 27.1	1.029	2.019	5.7	19.6	168 W	56	53
10 8	1 6.35	+10 57.5	1.038	2.034	2.9	19.5	174 W	56	53
10 13	1 0.91	+10 26.3	1.052	2.049	2.0	19.5	176 E	55	54
10 18	0 55.74	+ 9 54.7	1.073	2.063	4.3	19.7	171 E	55	54
10 23	0 51.03	+ 9 24.3	1.101	2.078	7.0	19.9	165 E	54	55
10 28	0 46.94	+ 8 56.1	1.134	2.093	9.7	20.1	159 E	54	55
11 2	0 43.56	+ 8 31.1	1.173	2.107	12.2	20.3	153 E	54	55
11 7	0 40.97	+ 8 10.1	1.217	2.122	14.5	20.5	148 E	53	56
11 17	0 38.26	+ 7 41.7	1.320	2.151	18.3	20.8	137 E	53	56
11 27	0 38.80	+ 7 32.6	1.439	2.179	21.2	21.1	127 E	53	56
12 7	0 42.28	+ 7 42.0	1.570	2.207	23.3	21.4	118 E	53	56
12 17	0 48.29	+ 8 7.8	1.711	2.235	24.6	21.7	109 E	53	56*

469234 2016 JG_5

4 11	22 4.67	−13 7.8	2.031	1.632	29.2	21.5	53 W	11*	47*
4 21	22 31.89	−11 28.9	1.961	1.624	30.8	21.4	56 W	12*	50*
5 1	22 58.65	− 9 46.3	1.894	1.619	32.1	21.4	59 W	12*	53*
5 11	23 24.89	− 8 2.9	1.827	1.617	33.4	21.3	62 W	13*	55*
5 21	23 50.57	− 6 21.5	1.763	1.618	34.5	21.3	65 W	15*	58*
5 31	0 15.59	− 4 45.1	1.699	1.623	35.4	21.3	68 W	17*	60*
6 10	0 39.86	− 3 16.4	1.637	1.631	36.2	21.2	72 W	20*	62*
6 20	1 3.28	− 1 57.7	1.575	1.642	36.8	21.2	75 W	23*	63*
6 30	1 25.64	− 0 51.7	1.513	1.655	37.1	21.1	79 W	27*	64*
7 10	1 46.78	− 0 0.1	1.452	1.672	37.1	21.0	83 W	32*	64*
7 20	2 6.43	+ 0 35.4	1.390	1.691	36.9	21.0	88 W	36*	63
7 30	2 24.27	+ 0 53.4	1.329	1.712	36.3	20.9	93 W	40*	63
8 9	2 39.96	+ 0 53.3	1.268	1.736	35.3	20.8	98 W	43*	63
8 19	2 53.06	+ 0 35.0	1.208	1.762	33.8	20.6	105 W	45*	63
8 29	3 3.10	− 0 0.9	1.151	1.789	31.7	20.5	112 W	45	64
9 8	3 9.61	− 0 52.3	1.099	1.818	28.9	20.4	119 W	44	65
9 18	3 12.18	− 1 55.8	1.054	1.848	25.5	20.2	128 W	43	66
9 23	3 11.89	− 2 30.3	1.035	1.863	23.6	20.1	132 W	42	67
9 28	3 10.56	− 3 5.3	1.019	1.879	21.5	20.1	137 W	42	67
10 3	3 8.23	− 3 39.6	1.007	1.895	19.3	20.0	141 W	41	68
10 8	3 4.97	− 4 12.0	0.999	1.911	17.0	19.9	146 W	41	68
10 13	3 0.87	− 4 41.1	0.996	1.927	14.8	19.8	150 W	40	69
10 18	2 56.09	− 5 5.8	0.997	1.944	12.8	19.8	154 W	40	69
10 23	2 50.82	− 5 24.5	1.004	1.960	11.2	19.8	158 W	40	69
10 28	2 45.28	− 5 36.4	1.016	1.977	10.2	19.8	159 W	39	70
11 7	2 34.25	− 5 37.4	1.058	2.011	10.7	19.9	158 E	39	70
11 17	2 24.59	− 5 7.7	1.123	2.045	13.5	20.2	151 E	40	69
11 27	2 17.52	− 4 10.2	1.209	2.079	16.9	20.5	142 E	41	68
12 2	2 15.16	− 3 33.1	1.259	2.096	18.5	20.7	138 E	41	68
12 7	2 13.62	− 2 51.4	1.313	2.113	19.9	20.8	133 E	42	67
12 12	2 12.88	− 2 6.0	1.372	2.130	21.2	21.0	129 E	43	66
12 17	2 12.93	− 1 17.5	1.434	2.147	22.3	21.1	124 E	44	65
12 22	2 13.74	− 0 26.6	1.499	2.164	23.2	21.3	120 E	45	64
12 27	2 15.26	+ 0 26.0	1.566	2.181	24.0	21.4	116 E	45	64

387816 2004 FM_{17}

4 11	22 5.65	− 5 45.0	1.031	0.862	63.2	21.5	50 W	17*	43*
4 16	22 30.70	− 3 40.1	1.039	0.838	63.6	21.5	48 W	16*	41*
4 21	22 55.96	− 1 31.3	1.052	0.815	63.7	21.4	47 W	15*	39*
4 26	23 21.43	+ 0 39.6	1.069	0.792	63.5	21.4	45 W	15*	38*
5 1	23 47.11	+ 2 51.0	1.090	0.769	62.9	21.4	43 W	14*	36*
5 6	0 13.01	+ 5 1.0	1.115	0.747	61.9	21.3	41 W	13*	34*
5 11	0 39.14	+ 7 7.9	1.145	0.727	60.5	21.3	39 W	12*	31*
5 16	1 5.53	+ 9 10.2	1.178	0.708	58.7	21.2	37 W	11*	29*
5 21	1 32.16	+11 6.3	1.215	0.693	56.4	21.2	35 W	10*	27*
5 26	1 59.04	+12 54.8	1.254	0.680	53.7	21.1	33 W	9*	25*
5 31	2 26.14	+14 34.1	1.296	0.671	50.7	21.1	31 W	8*	23*
6 5	2 53.40	+16 3.1	1.339	0.665	47.4	21.0	29 W	8*	21*
6 10	3 20.77	+17 20.6	1.383	0.664	43.9	21.0	27 W	7*	20*
6 15	3 48.15	+18 25.7	1.427	0.667	40.4	21.0	25 W	6*	18*
6 20	4 15.42	+19 17.5	1.470	0.674	37.0	21.0	24 W	6*	16*
6 25	4 42.45	+19 55.8	1.513	0.685	33.7	21.0	22 W	5*	14*
6 30	5 9.11	+20 20.3	1.554	0.699	30.6	21.0	20 W	5*	13*
7 5	5 35.30	+20 31.4	1.594	0.716	27.8	21.0	19 W	4*	12*
7 10	6 0.90	+20 29.7	1.632	0.735	25.2	21.1	18 W	4*	10*
7 15	6 25.84	+20 15.7	1.669	0.756	23.0	21.1	17 W	4*	9*
7 20	6 50.06	+19 50.6	1.703	0.779	21.1	21.1	16 W	4*	8*
7 25	7 13.54	+19 15.3	1.736	0.802	19.4	21.2	15 W	4*	8*
7 30	7 36.24	+18 30.8	1.767	0.825	18.0	21.3	15 W	4*	7*
8 4	7 58.18	+17 38.4	1.796	0.849	16.9	21.3	14 W	4*	6*
8 9	8 19.39	+16 38.9	1.824	0.872	15.9	21.4	14 W	4*	6*
8 14	8 39.90	+15 33.4	1.849	0.895	15.2	21.4	13 W	4*	5*
8 19	8 59.76	+14 22.7	1.873	0.917	14.6	21.5	13 W	4*	5*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
466277 2013 *PH*									
4 11	22 7.73	− 7 37.8	2.123	1.669	27.5	21.5	50 W	15*	44*
4 21	22 31.62	− 4 34.9	2.057	1.665	29.0	21.4	53 W	17*	46*
5 1	22 54.87	− 1 26.9	1.991	1.663	30.3	21.4	57 W	19*	49*
5 11	23 17.50	+ 1 43.6	1.926	1.664	31.6	21.4	60 W	22*	50*
5 21	23 39.53	+ 4 54.3	1.862	1.668	32.7	21.3	63 W	25*	51*
5 31	0 0.93	+ 8 2.8	1.798	1.675	33.7	21.3	67 W	29*	52*
6 10	0 21.68	+11 6.8	1.734	1.685	34.5	21.3	70 W	34*	51*
6 20	0 41.71	+14 4.4	1.669	1.697	35.1	21.2	74 W	39*	49*
6 30	1 0.88	+16 53.7	1.604	1.712	35.5	21.1	78 W	45*	47*
7 10	1 19.02	+19 33.2	1.538	1.729	35.7	21.1	82 W	52*	44
7 20	1 35.90	+22 1.6	1.472	1.748	35.5	21.0	87 W	58*	42
7 30	1 51.16	+24 17.5	1.405	1.769	35.0	20.9	92 W	65*	40
8 9	2 4.40	+26 19.6	1.338	1.792	34.0	20.8	98 W	70*	38
8 19	2 15.12	+28 6.7	1.272	1.816	32.6	20.7	105 W	73	36
8 29	2 22.72	+29 36.3	1.209	1.842	30.6	20.6	112 W	75	34
9 8	2 26.68	+30 45.4	1.151	1.870	27.8	20.4	120 W	76	33
9 13	2 27.15	+31 11.0	1.124	1.884	26.2	20.3	124 W	76	33
9 18	2 26.55	+31 29.6	1.099	1.898	24.4	20.2	129 W	76	33
9 23	2 24.90	+31 40.6	1.078	1.912	22.4	20.1	133 W	77	32
9 28	2 22.24	+31 43.1	1.059	1.927	20.2	20.1	138 W	77	32
10 3	2 18.68	+31 36.8	1.045	1.942	17.9	20.0	143 W	77	32
10 8	2 14.33	+31 21.1	1.034	1.957	15.5	19.9	148 W	76	33
10 13	2 9.38	+30 55.9	1.029	1.972	13.1	19.8	153 W	76	33
10 18	2 4.05	+30 21.7	1.029	1.988	10.9	19.7	158 W	75	34
10 23	1 58.58	+29 39.1	1.034	2.003	9.0	19.7	162 W	75	34
10 28	1 53.23	+28 49.7	1.045	2.019	7.9	19.7	164 E	74	35
11 2	1 48.23	+27 55.2	1.063	2.034	7.9	19.7	164 E	73	36
11 7	1 43.77	+26 57.6	1.086	2.050	8.8	19.8	161 E	72	37
11 12	1 39.99	+25 58.7	1.115	2.066	10.5	20.0	158 E	71	38
11 17	1 37.02	+25 0.5	1.151	2.081	12.4	20.1	153 E	70	39
11 22	1 34.93	+24 4.7	1.191	2.097	14.3	20.3	148 E	69	40
11 27	1 33.73	+23 12.8	1.237	2.113	16.1	20.5	143 E	68	41
12 2	1 33.41	+22 25.6	1.288	2.129	17.9	20.6	139 E	67	42
12 7	1 33.94	+21 43.8	1.343	2.145	19.4	20.8	134 E	67	42
12 12	1 35.27	+21 7.6	1.402	2.160	20.8	20.9	129 E	66	43
12 17	1 37.36	+20 37.2	1.464	2.176	21.9	21.1	124 E	66	43
12 22	1 40.16	+20 12.6	1.530	2.192	22.9	21.2	120 E	65	44
12 27	1 43.59	+19 53.5	1.598	2.207	23.7	21.4	115 E	65	44
1 1	1 47.60	+19 39.5	1.668	2.223	24.3	21.5	111 E	65	44*
315233 2007 RG_{247}									
4 11	22 24.35	− 8 29.7	2.235	1.708	25.2	21.5	47 W	12*	40*
4 21	22 49.61	− 6 25.7	2.158	1.693	26.9	21.4	50 W	13*	43*
5 1	23 14.68	− 4 18.6	2.082	1.680	28.6	21.4	53 W	14*	46*
5 11	23 39.55	− 2 10.7	2.007	1.669	30.1	21.3	56 W	16*	49*
5 21	0 4.25	− 0 4.4	1.933	1.660	31.6	21.3	59 W	17*	51*
5 31	0 28.74	+ 1 57.7	1.859	1.654	32.9	21.2	62 W	20*	53*
6 10	0 52.99	+ 3 53.2	1.786	1.651	34.1	21.2	66 W	23*	54*
6 20	1 16.94	+ 5 39.8	1.714	1.650	35.1	21.1	69 W	27*	55*
6 30	1 40.47	+ 7 15.3	1.643	1.652	36.0	21.0	72 W	31*	55*
7 10	2 3.44	+ 8 37.6	1.572	1.656	36.6	21.0	76 W	36*	55*
7 20	2 25.67	+ 9 45.1	1.501	1.663	37.0	20.9	80 W	41*	54*
7 30	2 46.88	+10 36.4	1.430	1.672	37.2	20.8	84 W	46*	53
8 9	3 6.78	+11 10.5	1.359	1.684	37.0	20.7	89 W	51*	53
8 19	3 25.00	+11 27.2	1.289	1.698	36.5	20.6	94 W	54*	53
8 29	3 41.07	+11 26.2	1.220	1.715	35.4	20.5	100 W	56*	53
9 8	3 54.54	+11 8.4	1.153	1.733	33.9	20.3	106 W	56	53
9 18	4 4.85	+10 35.0	1.089	1.753	31.7	20.2	114 W	56	53
9 28	4 11.45	+ 9 47.9	1.031	1.775	28.7	20.0	122 W	55	54
10 8	4 13.93	+ 8 50.8	0.980	1.798	25.0	19.8	131 W	54	55
10 13	4 13.53	+ 8 19.9	0.958	1.810	22.8	19.7	135 W	53	56
10 18	4 12.05	+ 7 48.3	0.940	1.822	20.4	19.6	140 W	53	56
10 23	4 9.52	+ 7 17.0	0.926	1.835	17.9	19.5	146 W	52	57
10 28	4 6.06	+ 6 47.1	0.916	1.848	15.2	19.4	151 W	52	57
11 2	4 1.80	+ 6 19.5	0.911	1.861	12.6	19.3	156 W	51	58
11 7	3 56.91	+ 5 55.4	0.911	1.874	10.2	19.2	160 W	51	58
11 12	3 51.60	+ 5 35.6	0.916	1.888	8.3	19.2	164 W	51	58
11 17	3 46.10	+ 5 21.0	0.927	1.901	7.3	19.2	166 W	50	59
11 27	3 35.53	+ 5 9.7	0.967	1.929	9.2	19.4	162 E	50	59
12 7	3 26.88	+ 5 23.3	1.030	1.958	13.4	19.7	153 E	50	59
12 17	3 21.24	+ 5 59.4	1.113	1.987	17.5	20.0	143 E	51	58
12 27	3 19.11	+ 6 54.0	1.214	2.016	21.0	20.4	133 E	52	57
1 6	3 20.42	+ 8 1.7	1.329	2.045	23.6	20.7	124 E	53	56
1 16	3 24.86	+ 9 17.8	1.455	2.074	25.4	21.0	115 E	54	55
328979 2010 VB_{200}									
4 11	22 55.59	− 7 29.7	2.370	1.712	21.6	21.5	39 W	8*	33*
4 21	23 20.90	− 5 15.7	2.303	1.697	23.4	21.5	42 W	8*	36*
5 1	23 46.09	− 2 59.5	2.235	1.684	25.1	21.4	45 W	10*	39*
5 11	0 11.16	− 0 43.5	2.168	1.674	26.7	21.4	48 W	11*	42*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
328979 2010 VB_{200} *(continuation)*									
5 21	0 36.15	+ 1 30.2	2.101	1.667	28.3	21.4	51 W	13*	44*
5 31	1 1.03	+ 3 39.1	2.035	1.662	29.7	21.3	54 W	16*	46*
6 10	1 25.77	+ 5 41.0	1.969	1.659	31.0	21.3	57 W	19*	48*
6 20	1 50.35	+ 7 33.7	1.903	1.660	32.2	21.3	61 W	23*	49*
6 30	2 14.64	+ 9 15.3	1.837	1.663	33.3	21.2	64 W	27*	50*
7 10	2 38.55	+10 44.3	1.771	1.669	34.2	21.2	67 W	32*	50*
7 20	3 1.91	+11 59.3	1.705	1.677	35.0	21.1	71 W	37*	50*
7 30	3 24.51	+12 59.5	1.637	1.688	35.5	21.1	75 W	43*	50*
8 9	3 46.09	+13 44.6	1.569	1.702	35.8	21.0	79 W	48*	50*
8 19	4 6.39	+14 14.6	1.499	1.717	35.9	20.9	84 W	52*	50*
8 29	4 25.02	+14 30.1	1.429	1.735	35.6	20.8	89 W	56*	49*
9 8	4 41.62	+14 32.5	1.358	1.755	34.9	20.7	95 W	59*	49
9 18	4 55.75	+14 23.4	1.288	1.776	33.8	20.6	101 W	59	50
9 28	5 6.90	+14 4.9	1.219	1.799	32.0	20.5	108 W	59	50
10 8	5 14.61	+13 39.8	1.153	1.824	29.6	20.3	116 W	59	50
10 18	5 18.36	+13 11.2	1.093	1.850	26.4	20.1	124 W	58	51
10 28	5 17.84	+12 42.6	1.043	1.877	22.3	19.9	134 W	58	51
11 7	5 13.07	+12 18.0	1.006	1.904	17.4	19.7	145 W	57	52
11 17	5 4.56	+12 0.9	0.987	1.933	11.9	19.5	156 W	57	52
11 22	4 59.27	+11 56.4	0.985	1.947	9.2	19.4	162 W	57	52
11 27	4 53.57	+11 54.9	0.989	1.962	6.8	19.3	166 W	57	52
12 2	4 47.70	+11 56.7	0.999	1.977	5.2	19.3	169 W	57	52
12 7	4 41.88	+12 1.9	1.016	1.991	5.4	19.4	169 E	57	52
12 12	4 36.35	+12 10.6	1.038	2.006	7.1	19.5	165 E	57	52
12 17	4 31.32	+12 22.6	1.067	2.021	9.3	19.7	161 E	57	52
12 22	4 26.96	+12 37.9	1.101	2.036	11.7	19.9	155 E	58	51
12 27	4 23.39	+12 56.1	1.142	2.052	14.0	20.0	150 E	58	51
1 1	4 20.70	+13 17.0	1.187	2.067	16.1	20.2	144 E	58	51
1 6	4 18.90	+13 40.2	1.237	2.082	18.0	20.4	139 E	59	50
1 11	4 18.02	+14 5.2	1.291	2.097	19.7	20.6	134 E	59	50
1 16	4 18.03	+14 31.9	1.349	2.112	21.2	20.7	129 E	60	49
367341 2008 DJ_6									
4 11	23 1.41	− 6 29.5	2.583	1.886	18.8	21.5	37 W	7*	31*
4 21	23 24.96	− 5 26.4	2.488	1.856	20.9	21.5	41 W	8*	35*
5 1	23 48.91	− 4 24.5	2.391	1.826	23.0	21.4	45 W	8*	39*
5 11	0 13.29	− 3 25.6	2.291	1.798	25.1	21.3	49 W	9*	43*
5 21	0 38.18	− 2 31.9	2.192	1.770	27.0	21.3	53 W	10*	46*
5 31	1 3.57	− 1 45.4	2.093	1.745	28.9	21.2	56 W	11*	49*
6 10	1 29.49	− 1 8.6	1.996	1.721	30.6	21.1	60 W	13*	52*
6 20	1 55.91	− 0 43.6	1.902	1.699	32.2	21.0	63 W	16*	55*
6 30	2 22.74	− 0 32.6	1.813	1.679	33.6	20.9	66 W	19*	57*
7 10	2 49.85	− 0 37.7	1.728	1.661	34.8	20.8	69 W	22*	59*
7 20	3 17.08	− 1 0.2	1.648	1.646	35.9	20.7	72 W	25*	60*
7 30	3 44.15	− 1 41.2	1.573	1.634	36.8	20.6	75 W	28*	62*
8 9	4 10.80	− 2 40.8	1.505	1.625	37.6	20.6	78 W	31*	64*
8 19	4 36.71	− 3 58.3	1.442	1.618	38.1	20.5	80 W	33*	65*
8 29	5 1.50	− 5 32.3	1.383	1.615	38.4	20.4	83 W	34*	67*
9 8	5 24.83	− 7 20.2	1.329	1.614	38.5	20.3	86 W	35*	70*
9 18	5 46.33	− 9 19.2	1.278	1.617	38.4	20.2	89 W	35*	72*
9 23	5 56.26	−10 21.7	1.253	1.620	38.3	20.2	91 W	34*	73*
9 28	6 5.59	−11 25.4	1.229	1.623	38.1	20.1	93 W	34*	75*
10 3	6 14.27	−12 29.9	1.206	1.627	37.8	20.1	95 W	33	76*
10 8	6 22.26	−13 34.5	1.182	1.632	37.5	20.0	96 W	31	77*
10 13	6 29.50	−14 38.6	1.159	1.637	37.1	20.0	98 W	30	79
10 18	6 35.93	−15 41.5	1.136	1.643	36.6	19.9	101 W	29	80
10 23	6 41.48	−16 42.3	1.114	1.650	36.0	19.9	103 W	28	81
10 28	6 46.13	−17 39.9	1.091	1.658	35.3	19.8	105 W	27	82
11 2	6 49.81	−18 33.6	1.070	1.666	34.6	19.8	108 W	26	83
11 7	6 52.49	−19 22.0	1.048	1.675	33.7	19.7	110 W	26	83
11 12	6 54.11	−20 4.1	1.028	1.684	32.7	19.7	113 W	25	84
11 17	6 54.65	−20 38.2	1.008	1.694	31.6	19.6	116 W	24	85
11 22	6 54.09	−21 2.8	0.990	1.705	30.4	19.5	119 W	24	85
11 27	6 52.48	−21 16.1	0.973	1.716	29.1	19.5	122 W	24	85
12 2	6 49.88	−21 16.7	0.958	1.727	27.7	19.4	125 W	24	85
12 7	6 46.36	−21 3.1	0.945	1.739	26.3	19.4	129 W	24	85
12 12	6 42.07	−20 33.9	0.935	1.752	24.8	19.3	132 W	24	85
12 17	6 37.18	−19 48.2	0.929	1.765	23.4	19.3	135 W	25	84
12 22	6 31.92	−18 45.7	0.926	1.778	22.1	19.2	137 W	26	83
12 27	6 26.54	−17 26.7	0.928	1.792	21.0	19.2	139 W	28	81
1 1	6 21.27	−15 52.6	0.934	1.806	20.2	19.2	141 E	29	80
1 6	6 16.34	−14 5.4	0.946	1.820	19.7	19.3	141 E	31	78
1 11	6 11.94	−12 7.3	0.962	1.834	19.7	19.3	141 E	33	76
1 16	6 8.24	−10 1.1	0.984	1.849	20.0	19.4	140 E	35	74
489510 2007 PS_8									
4 11	23 2.70	− 6 20.8	2.397	1.705	20.7	21.5	37 W	7*	31*
4 21	23 29.63	− 4 0.9	2.297	1.653	22.8	21.4	40 W	8*	34*
5 1	23 57.39	− 1 34.3	2.202	1.602	24.9	21.3	42 W	9*	36*
5 11	0 26.08	+ 0 56.6	2.111	1.555	26.9	21.2	44 W	10*	38*
5 21	0 55.78	+ 3 29.1	2.028	1.512	28.8	21.1	46 W	11*	39*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
489510 2007 PS_8 *(continuation)*									
5 31	1 26.52	+ 5 59.5	1.952	1.472	30.5	21.0	48 W	13*	40*
6 10	1 58.29	+ 8 23.7	1.885	1.438	32.2	20.9	49 W	15*	41*
6 20	2 31.03	+10 37.3	1.826	1.410	33.6	20.9	50 W	18*	41*
6 30	3 4.57	+12 35.8	1.776	1.388	34.8	20.8	51 W	21*	40*
7 10	3 38.64	+14 15.3	1.734	1.373	35.9	20.8	52 W	24*	40*
7 20	4 12.92	+15 32.6	1.699	1.366	36.7	20.7	54 W	28*	39*
7 30	4 46.99	+16 25.7	1.670	1.366	37.4	20.7	55 W	31*	39*
8 9	5 20.41	+16 54.3	1.646	1.374	37.9	20.7	56 W	35*	38*
8 19	5 52.79	+16 59.5	1.625	1.389	38.2	20.7	58 W	39*	38*
8 29	6 23.70	+16 43.5	1.604	1.411	38.5	20.7	60 W	42*	38*
9 8	6 52.87	+16 9.9	1.584	1.439	38.6	20.7	63 W	45*	38*
9 18	7 20.06	+15 22.4	1.561	1.474	38.5	20.8	66 W	48*	39*
9 28	7 45.04	+14 25.2	1.535	1.513	38.4	20.8	70 W	51*	41*
10 8	8 7.70	+13 22.8	1.504	1.557	38.1	20.8	74 W	54*	42*
10 18	8 27.88	+12 19.3	1.469	1.604	37.5	20.8	79 W	56*	44*
10 28	8 45.39	+11 19.1	1.429	1.654	36.7	20.8	84 W	56*	47*
11 7	9 0.08	+10 26.5	1.384	1.707	35.5	20.7	90 W	55	50*
11 17	9 11.67	+ 9 45.6	1.336	1.762	33.8	20.7	97 W	55	52*
11 27	9 19.85	+ 9 21.1	1.287	1.818	31.6	20.6	105 W	54	54*
12 7	9 24.34	+ 9 16.7	1.239	1.875	28.6	20.5	114 W	54	55
12 17	9 24.87	+ 9 35.9	1.197	1.933	24.8	20.4	125 W	55	54
12 27	9 21.39	+10 20.2	1.165	1.991	20.2	20.2	136 W	55	54
1 6	9 14.24	+11 27.8	1.148	2.049	14.8	20.1	148 W	56	53
1 16	9 4.25	+12 52.8	1.153	2.107	8.9	19.9	161 W	58	51
504994 2011 JU_2									
4 11	23 16.70	−49 41.6	1.413	1.323	42.8	21.4	64 W	—	37*
4 13	23 30.08	−49 7.5	1.405	1.312	43.2	21.4	63 W	—	37*
4 15	23 43.20	−48 28.5	1.398	1.300	43.5	21.4	63 W	—	36*
4 17	23 56.02	−47 44.9	1.392	1.290	43.8	21.4	63 W	—	35*
4 19	0 8.50	−46 56.9	1.387	1.279	44.0	21.3	62 W	—	35*
4 21	0 20.60	−46 4.8	1.384	1.268	44.3	21.3	62 W	—	34*
4 26	0 49.14	−43 39.2	1.379	1.242	44.8	21.3	60 W	—	33*
5 1	1 15.10	−40 55.8	1.381	1.218	45.1	21.3	59 W	—	31*
5 6	1 38.57	−37 59.9	1.387	1.195	45.2	21.2	57 W	—	31*
5 11	1 59.73	−34 56.1	1.399	1.174	45.2	21.2	56 W	—	30*
5 16	2 18.85	−31 48.3	1.413	1.154	45.0	21.2	54 W	—	30*
5 21	2 36.18	−28 39.3	1.430	1.137	44.6	21.2	52 W	—	30*
5 26	2 51.99	−25 31.2	1.449	1.122	44.2	21.2	51 W	—	31*
5 31	3 6.50	−22 25.5	1.468	1.110	43.6	21.1	49 W	—	32*
6 5	3 19.92	−19 22.8	1.487	1.100	43.0	21.1	48 W	—	33*
6 10	3 32.44	−16 23.4	1.506	1.092	42.4	21.1	46 W	—	34*
6 15	3 44.22	−13 27.5	1.522	1.088	41.8	21.1	46 W	—	35*
6 20	3 55.41	−10 34.9	1.536	1.086	41.3	21.1	45 W	—	36*
6 25	4 6.12	− 7 45.4	1.548	1.088	40.9	21.1	44 W	—	37*
6 30	4 16.44	− 4 58.7	1.557	1.092	40.6	21.1	44 W	—	38*
7 5	4 26.47	− 2 14.3	1.563	1.099	40.4	21.2	44 W	—	38*
7 10	4 36.30	+ 0 28.2	1.565	1.108	40.3	21.2	45 W	4*	39*
7 15	4 45.98	+ 3 9.2	1.564	1.121	40.4	21.2	46 W	9*	39*
7 20	4 55.58	+ 5 49.1	1.560	1.135	40.6	21.2	47 W	14*	39*
7 25	5 5.14	+ 8 28.3	1.552	1.152	40.9	21.3	48 W	18*	39*
7 30	5 14.70	+11 7.3	1.541	1.171	41.2	21.3	49 W	23*	38*
8 4	5 24.30	+13 46.6	1.528	1.192	41.5	21.3	51 W	28*	38*
8 9	5 33.99	+16 26.7	1.512	1.215	41.9	21.4	53 W	32*	37*
8 14	5 43.80	+19 8.0	1.494	1.239	42.2	21.4	55 W	37*	35*
8 19	5 53.75	+21 50.9	1.474	1.265	42.5	21.4	58 W	42*	34*
8 24	6 3.86	+24 36.1	1.452	1.292	42.7	21.4	60 W	46*	32*
8 29	6 14.17	+27 23.9	1.429	1.320	42.9	21.4	63 W	51*	30*
9 3	6 24.70	+30 14.8	1.406	1.348	42.9	21.5	65 W	55*	28*
9 8	6 35.49	+33 9.1	1.382	1.378	42.8	21.5	68 W	60*	26*
9 13	6 46.59	+36 7.2	1.359	1.408	42.6	21.5	71 W	64*	23*
9 18	6 58.02	+39 9.2	1.337	1.438	42.3	21.5	74 W	68*	21*
9 23	7 9.82	+42 15.1	1.316	1.469	41.8	21.5	77 W	71*	18*
9 28	7 22.06	+45 24.7	1.296	1.500	41.2	21.5	80 W	74*	15*
10 3	7 34.82	+48 37.5	1.279	1.531	40.5	21.5	83 W	76*	13*
10 8	7 48.20	+51 53.1	1.264	1.563	39.7	21.5	86 W	77*	10*
10 13	8 2.32	+55 10.3	1.253	1.594	38.7	21.4	89 W	77*	6*
10 18	8 17.32	+58 28.1	1.245	1.626	37.8	21.5	92 W	75*	3*
10 23	8 33.43	+61 44.8	1.240	1.657	36.7	21.5	95 W	73*	—
10 28	8 50.95	+64 58.6	1.240	1.688	35.7	21.5	98 W	70*	—
11 2	9 10.35	+68 7.6	1.244	1.719	34.6	21.5	100 W	67*	—
164294 2004 XZ_{130}									
4 11	23 51.08	+ 0 13.7	0.988	0.402	80.4	21.2	23 W	4*	17*
4 13	23 56.22	+ 0 50.9	1.036	0.422	73.6	21.2	24 W	4*	18*
4 15	0 2.08	+ 1 31.6	1.082	0.443	67.9	21.2	24 W	4*	18*
4 17	0 8.45	+ 2 14.4	1.126	0.465	62.9	21.2	24 W	4*	18*
4 19	0 15.16	+ 2 58.6	1.167	0.487	58.7	21.3	24 W	4*	18*
4 21	0 22.12	+ 3 43.5	1.206	0.510	55.0	21.3	25 W	4*	18*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
164294 2004 XZ_{130} *(continuation)*									
4 26	0 40.03	+ 5 36.0	1.294	0.565	47.9	21.5	25 W	4*	18*
5 1	0 58.20	+ 7 25.9	1.368	0.616	42.8	21.7	25 W	4*	18*
5 6	1 16.33	+ 9 11.2	1.432	0.664	39.2	21.9	25 W	5*	18*
5 11	1 34.32	+10 50.9	1.485	0.707	36.6	22.0	25 W	5*	18*
417210 2005 XV_{77}									
4 21	0 21.81	+ 5 16.6	1.132	0.463	62.4	21.4	24 W	5*	18*
4 26	0 45.71	+ 9 33.3	1.228	0.481	52.0	21.4	22 W	6*	15*
5 1	1 10.62	+13 20.4	1.318	0.509	43.0	21.4	20 W	6*	13*
5 6	1 35.99	+16 36.4	1.400	0.545	35.7	21.5	18 W	6*	10*
5 11	2 1.40	+19 22.0	1.475	0.586	29.9	21.6	17 W	6*	8*
396793 2004 JN_2									
4 21	0 26.60	+11 38.8	1.392	0.592	39.1	21.2	22 W	9*	13*
4 26	1 1.90	+13 49.2	1.394	0.532	35.0	20.9	18 W	6*	10*
5 1	1 39.67	+15 38.8	1.403	0.479	28.3	20.5	13 W	3*	5*
5 6	2 19.69	+17 0.8	1.415	0.439	18.5	20.0	8 W	—	1*
5 11	3 1.35	+17 50.2	1.426	0.419	6.2	19.5	3 W	—	—
5 16	3 43.48	+18 5.9	1.431	0.425	7.0	19.5	3 E	—	—
5 21	4 24.76	+17 51.8	1.432	0.453	18.4	20.1	8 E	—	2*
5 26	5 4.23	+17 14.0	1.433	0.500	27.0	20.6	13 E	—	7*
5 31	5 41.45	+16 18.3	1.436	0.556	32.7	21.0	17 E	—	11*
6 5	6 16.30	+15 9.7	1.446	0.618	36.1	21.3	21 E	1*	15*
416002 2002 BN									
4 21	0 28.84	+ 2 45.6	1.065	0.423	70.4	21.2	23 W	2*	17*
4 23	0 39.03	+ 2 11.5	1.109	0.438	65.0	21.2	23 W	1*	17*
4 25	0 49.35	+ 1 46.7	1.151	0.456	60.2	21.3	23 W	—	17*
4 27	0 59.68	+ 1 30.1	1.192	0.475	55.9	21.3	23 W	—	17*
4 29	1 9.94	+ 1 20.2	1.232	0.496	52.2	21.4	23 W	—	17*
5 1	1 20.07	+ 1 16.2	1.270	0.518	48.9	21.4	23 W	—	16*
5 3	1 30.01	+ 1 16.8	1.306	0.541	45.9	21.5	23 W	—	16*
331471 1984 QY_1									
4 21	1 6.64	+24 35.5	0.481	0.564	148.1	20.8	17 W	11*	—
4 26	0 31.39	+28 47.9	0.416	0.670	134.4	19.0	28 W	22*	7*
5 1	23 46.89	+32 51.5	0.368	0.772	119.8	17.7	42 W	34*	16*
5 6	22 51.54	+36 15.2	0.335	0.870	104.7	16.8	57 W	47*	22*
5 11	21 45.82	+38 6.1	0.317	0.964	89.1	16.2	73 W	62*	26*
5 12	21 31.83	+38 12.1	0.315	0.982	86.0	16.1	76 W	65*	26*
5 13	21 17.71	+38 11.9	0.314	1.000	82.8	16.0	79 W	68*	26
5 14	21 3.55	+38 5.3	0.313	1.018	79.7	15.9	83 W	71*	26
5 15	20 49.43	+37 52.4	0.313	1.036	76.6	15.8	86 W	73*	26
5 16	20 35.43	+37 33.2	0.314	1.054	73.6	15.8	89 W	76*	26
5 17	20 21.64	+37 7.8	0.316	1.071	70.6	15.7	92 W	78*	27
5 18	20 8.14	+36 36.8	0.318	1.089	67.6	15.7	95 W	80*	27
5 19	19 54.99	+36 0.4	0.321	1.106	64.8	15.6	99 W	81*	28
5 20	19 42.26	+35 19.1	0.324	1.123	61.9	15.6	102 W	80	29
5 21	19 29.98	+34 33.6	0.328	1.140	59.2	15.6	105 W	80	29
5 22	19 18.19	+33 44.3	0.333	1.157	56.5	15.6	108 W	79	30
5 23	19 6.92	+32 52.0	0.338	1.174	54.0	15.6	110 W	78	31
5 24	18 56.18	+31 57.1	0.344	1.190	51.5	15.6	113 W	77	32
5 25	18 45.97	+31 0.3	0.351	1.207	49.1	15.6	116 W	76	33
5 26	18 36.30	+30 2.1	0.358	1.223	46.9	15.6	118 W	75	34
5 27	18 27.15	+29 2.9	0.365	1.240	44.7	15.6	121 W	74	35
5 28	18 18.51	+28 3.3	0.373	1.256	42.7	15.6	123 W	73	36
5 29	18 10.36	+27 3.5	0.382	1.272	40.8	15.6	125 W	72	37
5 30	18 2.68	+26 4.0	0.391	1.288	39.0	15.7	127 W	71	38
5 31	17 55.46	+25 5.0	0.401	1.304	37.3	15.7	129 W	70	39
6 2	17 42.27	+23 9.4	0.422	1.335	34.2	15.8	132 W	68	41
6 4	17 30.62	+21 18.1	0.444	1.366	31.6	15.9	135 W	66	43
6 6	17 20.33	+19 32.0	0.468	1.396	29.4	16.0	137 W	65	44
6 8	17 11.23	+17 51.5	0.494	1.426	27.7	16.1	139 W	63	46
6 10	17 3.20	+16 16.6	0.521	1.456	26.2	16.2	141 E	61	48
6 15	16 46.95	+12 43.5	0.594	1.529	24.1	16.5	142 E	58	51
6 20	16 35.03	+ 9 41.1	0.674	1.599	23.3	16.9	142 E	55	54
6 25	16 26.38	+ 7 4.4	0.759	1.668	23.3	17.2	139 E	52	57
6 30	16 20.24	+ 4 48.6	0.850	1.735	23.8	17.6	137 E	50	59
7 5	16 16.06	+ 2 50.0	0.945	1.800	24.4	17.9	133 E	48	61
7 10	16 13.43	+ 1 5.4	1.044	1.863	24.9	18.2	129 E	46	63
7 15	16 12.06	− 0 27.8	1.147	1.925	25.4	18.5	126 E	45	64
7 20	16 11.72	− 1 51.6	1.253	1.985	25.8	18.8	122 E	43	66
7 25	16 12.26	− 3 7.4	1.361	2.044	26.0	19.0	118 E	42*	67
7 30	16 13.54	− 4 16.6	1.472	2.102	26.2	19.2	114 E	40*	68
8 4	16 15.44	− 5 19.9	1.585	2.158	26.2	19.5	110 E	39*	69
8 9	16 17.87	− 6 18.1	1.700	2.213	26.1	19.7	107 E	38*	70
8 19	16 24.07	− 8 1.7	1.933	2.320	25.5	20.0	99 E	35*	72
8 29	16 31.71	− 9 30.9	2.170	2.422	24.6	20.3	92 E	33*	73*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
331471 1984 QY_1 *(continuation)*									
9 8	16 40.47	−10 48.0	2.406	2.521	23.4	20.6	85 E	31*	72*
9 18	16 50.10	−11 54.7	2.640	2.615	22.0	20.9	78 E	29*	67*
9 28	17 0.45	−12 52.0	2.870	2.706	20.4	21.1	71 E	28*	61*
10 8	17 11.34	−13 40.6	3.093	2.794	18.7	21.2	64 E	26*	55*
10 18	17 22.67	−14 21.2	3.306	2.879	16.8	21.4	57 E	24*	47*
457059 2008 EG									
4 21	1 8.52	+ 4 35.1	1.056	0.252	71.4	19.6	14 W	—	8*
4 22	1 13.53	+ 6 18.7	1.089	0.247	63.9	19.4	13 W	—	7*
4 23	1 19.07	+ 8 2.3	1.121	0.246	56.3	19.2	12 W	—	6*
4 24	1 25.09	+ 9 44.7	1.151	0.248	48.9	19.1	11 W	—	5*
4 25	1 31.53	+11 24.7	1.180	0.254	42.0	19.0	10 W	—	3*
4 26	1 38.32	+13 1.3	1.207	0.263	35.9	19.0	9 W	—	2*
4 27	1 45.38	+14 33.5	1.233	0.275	30.7	19.0	8 W	—	1*
4 28	1 52.62	+16 1.0	1.257	0.289	26.6	19.0	7 W	—	—
4 29	1 59.99	+17 23.5	1.279	0.304	23.4	19.1	7 W	—	—
4 30	2 7.43	+18 40.9	1.300	0.321	21.2	19.1	7 W	—	—
5 1	2 14.90	+19 53.3	1.319	0.339	19.9	19.2	7 W	1*	—
5 3	2 29.81	+22 3.9	1.356	0.376	18.9	19.5	7 W	1*	—
5 5	2 44.57	+23 57.1	1.391	0.415	19.2	19.8	8 W	1*	—
5 7	2 59.07	+25 34.9	1.423	0.453	19.9	20.0	9 E	1*	—
5 9	3 13.26	+26 59.0	1.455	0.492	20.6	20.3	10 E	3*	—
5 11	3 27.12	+28 11.0	1.486	0.530	21.1	20.5	11 E	4*	—
5 13	3 40.62	+29 12.4	1.517	0.567	21.4	20.7	12 E	5*	—
5 15	3 53.75	+30 4.2	1.547	0.603	21.5	20.9	13 E	6*	—
5 17	4 6.50	+30 47.6	1.578	0.638	21.5	21.1	13 E	7*	—
5 19	4 18.88	+31 23.4	1.608	0.673	21.4	21.2	14 E	8*	—
5 21	4 30.87	+31 52.6	1.638	0.706	21.2	21.4	15 E	9*	—
5 26	4 59.20	+32 40.8	1.712	0.785	20.3	21.7	16 E	10*	—
5 31	5 25.26	+33 0.8	1.786	0.859	19.1	21.9	16 E	10*	—
6 5	5 49.22	+32 59.8	1.858	0.928	17.8	22.1	16 E	10*	—
6 10	6 11.25	+32 42.9	1.928	0.992	16.4	22.3	16 E	10*	1*
285818 2001 BZ_{39}									
4 21	1 14.59	+10 44.1	2.259	1.282	7.9	21.5	10 W	—	4*
4 26	1 31.68	+12 4.8	2.237	1.261	8.4	21.4	11 W	—	4*
5 1	1 49.20	+13 22.8	2.217	1.242	8.8	21.4	11 W	—	4*
5 6	2 7.15	+14 37.4	2.198	1.224	9.2	21.4	11 W	—	5*
5 11	2 25.52	+15 47.6	2.181	1.208	9.5	21.3	11 W	—	5*
5 16	2 44.30	+16 52.7	2.167	1.193	9.7	21.3	12 W	—	5*
5 21	3 3.47	+17 51.8	2.154	1.181	10.0	21.3	12 W	—	5*
5 26	3 22.99	+18 44.2	2.144	1.170	10.2	21.3	12 W	—	5*
5 31	3 42.81	+19 29.2	2.136	1.162	10.3	21.2	12 W	—	5*
6 5	4 2.87	+20 6.0	2.130	1.156	10.4	21.2	12 W	—	5*
6 10	4 23.11	+20 34.1	2.126	1.152	10.5	21.2	12 W	—	5*
6 15	4 43.45	+20 53.3	2.125	1.151	10.6	21.2	12 W	—	6*
6 20	5 3.82	+21 3.3	2.125	1.152	10.6	21.2	12 W	—	6*
6 25	5 24.12	+21 4.1	2.128	1.155	10.7	21.2	12 W	—	6*
6 30	5 44.27	+20 55.7	2.133	1.160	10.8	21.2	12 W	—	6*
7 5	6 4.20	+20 38.4	2.140	1.168	10.8	21.3	12 W	—	6*
7 10	6 23.83	+20 12.6	2.148	1.178	10.9	21.3	13 W	—	6*
7 15	6 43.11	+19 38.9	2.158	1.190	11.1	21.3	13 W	1*	6*
7 20	7 1.99	+18 57.8	2.170	1.204	11.2	21.4	13 W	1*	6*
7 25	7 20.42	+18 10.1	2.183	1.220	11.4	21.4	14 W	2*	7*
7 30	7 38.37	+17 16.3	2.197	1.237	11.6	21.5	14 W	2*	7*
364136 2006 CJ									
4 21	1 43.46	+12 19.5	1.181	0.186	16.7	17.8	3 W	—	—
4 22	1 54.53	+13 33.7	1.206	0.203	9.1	17.8	2 W	—	—
4 23	2 5.46	+14 41.0	1.226	0.225	10.1	18.0	2 E	—	—
4 24	2 16.12	+15 41.9	1.243	0.247	14.8	18.5	4 E	—	—
4 25	2 26.48	+16 36.8	1.258	0.271	19.3	18.8	5 E	—	—
4 26	2 36.52	+17 26.2	1.271	0.295	23.1	19.2	7 E	—	—
4 27	2 46.25	+18 10.8	1.284	0.319	26.0	19.4	8 E	2*	—
4 28	2 55.67	+18 51.1	1.295	0.343	28.4	19.7	9 E	3*	—
4 29	3 4.82	+19 27.6	1.306	0.366	30.3	19.9	11 E	4*	—
4 30	3 13.71	+20 0.5	1.317	0.389	31.7	20.1	12 E	5*	1*
5 1	3 22.34	+20 30.2	1.328	0.412	32.9	20.3	13 E	6*	2*
5 3	3 38.92	+21 21.1	1.350	0.455	34.5	20.6	15 E	7*	4*
5 5	3 54.64	+22 2.1	1.371	0.496	35.4	20.8	17 E	9*	5*
5 7	4 9.58	+22 34.8	1.393	0.536	35.8	21.0	18 E	10*	6*
5 9	4 23.81	+23 0.2	1.416	0.573	35.9	21.2	19 E	11*	8*
5 11	4 37.37	+23 19.4	1.439	0.609	35.8	21.4	21 E	11*	9*
5 16	5 8.64	+23 45.4	1.498	0.691	34.8	21.7	23 E	13*	11*
5 21	5 36.64	+23 47.3	1.558	0.764	33.4	22.0	25 E	13*	13*
5 26	6 1.88	+23 32.2	1.619	0.829	31.7	22.2	25 E	13*	15*
5 31	6 24.78	+23 4.8	1.679	0.887	30.0	22.4	26 E	12*	16*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
337555 2001 SM_{261}									
4 21	1 52.91	+11 22.8	3.055	2.051	0.4	21.5	1 W	—	—
5 1	2 14.10	+13 0.5	3.090	2.088	2.5	21.7	5 W	—	—
5 11	2 34.98	+14 29.1	3.115	2.126	4.5	21.9	10 W	—	4*
5 21	2 55.54	+15 47.9	3.131	2.163	6.5	22.1	14 W	—	8*
5 31	3 15.75	+16 56.8	3.137	2.201	8.5	22.2	19 W	2*	12*
308043 2004 TH_{10}									
4 21	1 54.32	+18 39.4	2.177	1.185	5.8	21.1	7 W	—	—
4 26	2 8.69	+19 31.3	2.111	1.116	5.6	20.9	6 W	—	—
5 1	2 24.17	+20 22.4	2.041	1.043	5.6	20.7	6 W	—	—
5 6	2 40.98	+21 11.5	1.966	0.966	5.7	20.4	5 W	—	—
5 11	2 59.36	+21 57.4	1.886	0.885	5.8	20.2	5 W	—	—
5 16	3 19.66	+22 38.1	1.801	0.798	5.8	19.8	5 W	—	—
5 21	3 42.28	+23 10.9	1.712	0.705	5.4	19.4	4 W	—	—
5 26	4 7.77	+23 31.4	1.615	0.605	4.3	18.9	3 W	—	—
5 31	4 36.77	+23 33.1	1.511	0.498	3.9	18.3	2 E	—	—
6 2	4 49.53	+23 26.6	1.465	0.454	5.5	18.2	2 E	—	—
6 4	5 3.02	+23 14.7	1.417	0.409	8.5	18.0	3 E	—	—
6 6	5 17.26	+22 56.7	1.365	0.363	13.2	17.8	5 E	—	—
6 8	5 32.22	+22 31.7	1.308	0.318	20.3	17.7	6 E	—	—
6 10	5 47.72	+21 59.6	1.243	0.277	30.6	17.6	8 E	—	1*
6 12	6 3.25	+21 21.6	1.170	0.241	45.6	17.6	10 E	—	3*
6 14	6 17.69	+20 42.7	1.086	0.219	65.8	17.8	11 E	—	5*
6 16	6 29.38	+20 12.6	0.995	0.215	89.6	18.4	12 E	—	6*
6 18	6 37.06	+20 1.4	0.903	0.232	112.8	19.6	12 E	—	6*
6 20	6 40.77	+20 13.1	0.820	0.264	132.3	21.2	11 E	—	5*
6 21	6 41.40	+20 27.1	0.782	0.283	140.5	22.2	10 E	—	4*
6 22	6 41.39	+20 45.8	0.746	0.304	147.7	23.4	9 E	—	3*
6 23	6 40.82	+21 9.0	0.713	0.326	154.2	24.7	8 E	—	2*
6 24	6 39.79	+21 36.1	0.682	0.348	160.0	26.4	7 E	—	1*
385371 2002 QS_{16}									
4 21	1 55.97	+16 0.9	2.649	1.648	2.5	21.5	4 E	—	—
5 1	2 23.64	+18 14.6	2.651	1.648	2.4	21.5	4 W	—	—
5 11	2 51.84	+20 14.5	2.653	1.650	3.3	21.5	5 W	—	—
5 21	3 20.53	+21 58.2	2.654	1.656	4.6	21.6	8 W	—	—
5 31	3 49.59	+23 23.9	2.653	1.664	6.1	21.7	10 W	1*	2*
332715 2009 SX_{138}									
4 21	1 57.64	+11 44.1	2.817	1.812	0.3	21.4	0 E	—	—
5 1	2 22.02	+13 35.5	2.844	1.839	1.7	21.6	3 W	—	—
5 11	2 46.24	+15 15.4	2.866	1.867	3.6	21.8	7 W	—	1*
5 21	3 10.27	+16 43.0	2.883	1.897	5.5	21.9	10 W	—	4*
5 31	3 34.06	+17 57.7	2.894	1.927	7.4	22.1	14 W	—	8*
474366 2002 RO_{85}									
4 21	2 1.62	+14 44.7	2.716	1.714	1.9	21.5	3 E	—	—
5 1	2 27.27	+17 9.5	2.743	1.737	1.5	21.5	3 W	—	—
5 11	2 53.00	+19 20.5	2.767	1.763	2.7	21.6	5 W	—	—
5 21	3 18.80	+21 16.7	2.788	1.790	4.4	21.8	8 W	—	—
5 31	3 44.61	+22 57.2	2.804	1.819	6.1	21.9	11 W	2*	3*
481090 2005 SY_{173}									
4 21	2 8.59	+12 46.5	2.623	1.621	2.0	21.5	3 E	—	—
5 1	2 36.19	+14 53.0	2.651	1.643	0.4	21.4	1 E	—	—
5 11	3 3.74	+16 44.6	2.678	1.669	1.4	21.5	2 W	—	—
5 21	3 31.18	+18 20.0	2.703	1.697	3.1	21.7	5 W	—	—
5 31	3 58.43	+19 38.3	2.725	1.728	4.8	21.9	8 W	—	2*
305090 2007 VQ_4									
4 21	2 29.80	+ 7 49.9	3.615	2.628	3.5	21.4	9 E	—	3*
5 1	2 44.42	+ 9 43.6	3.573	2.573	2.3	21.3	6 E	—	—
5 11	2 59.70	+11 35.5	3.516	2.517	2.8	21.2	7 W	—	—
5 21	3 15.67	+13 25.4	3.445	2.459	4.5	21.2	11 W	—	5*
5 31	3 32.35	+15 13.0	3.361	2.401	6.6	21.2	16 W	—	10*
6 10	3 49.78	+16 58.2	3.265	2.341	8.8	21.2	21 W	2*	14*
6 20	4 8.03	+18 40.7	3.157	2.281	11.0	21.2	25 W	7*	18*
6 30	4 27.16	+20 20.2	3.039	2.220	13.3	21.1	30 W	12*	21*
7 10	4 47.24	+21 56.5	2.913	2.158	15.6	21.0	35 W	17*	23*
7 20	5 8.40	+23 29.2	2.780	2.095	17.9	21.0	39 W	23*	25*
7 30	5 30.76	+24 58.1	2.641	2.032	20.2	20.9	44 W	29*	25*
8 9	5 54.45	+26 22.5	2.498	1.968	22.5	20.7	48 W	35*	26*
8 19	6 19.66	+27 41.8	2.353	1.904	24.7	20.6	52 W	41*	26*
8 29	6 46.57	+28 54.8	2.208	1.841	27.0	20.5	56 W	46*	25*
9 3	7 0.73	+29 28.6	2.136	1.809	28.1	20.4	58 W	48*	25*
9 8	7 15.41	+30 0.2	2.064	1.778	29.2	20.3	59 W	51*	24*
9 13	7 30.62	+30 29.3	1.994	1.747	30.3	20.2	61 W	53*	24*
9 18	7 46.39	+30 55.6	1.925	1.716	31.4	20.1	63 W	55*	23*
9 23	8 2.75	+31 18.7	1.857	1.685	32.5	20.0	64 W	57*	23*

305090 2007 VQ_4 *(continuation)*

20/21	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
9 28	8 19.70	+31 38.1	1.791	1.655	33.5	20.0	66 W	59*	22*
10 3	8 37.26	+31 53.3	1.728	1.625	34.6	19.9	67 W	60*	21*
10 8	8 55.43	+32 3.7	1.667	1.596	35.6	19.8	68 W	62*	21*
10 13	9 14.21	+32 8.6	1.608	1.567	36.6	19.7	69 W	63*	20*
10 18	9 33.56	+32 7.4	1.553	1.539	37.6	19.6	70 W	64*	19*
10 23	9 53.43	+31 59.6	1.500	1.512	38.6	19.5	71 W	65*	19*
10 28	10 13.76	+31 44.3	1.451	1.486	39.5	19.4	72 W	66*	18*
11 2	10 34.47	+31 21.1	1.406	1.461	40.4	19.4	73 W	66*	18*
11 7	10 55.45	+30 49.6	1.364	1.437	41.3	19.3	73 W	67*	18*
11 12	11 16.60	+30 9.5	1.326	1.414	42.2	19.2	74 W	67*	17*
11 17	11 37.78	+29 21.0	1.292	1.393	43.0	19.1	74 W	67*	17*
11 22	11 58.84	+28 24.3	1.262	1.373	43.8	19.1	74 W	67*	18*
11 27	12 19.66	+27 19.8	1.235	1.354	44.5	19.0	74 W	67*	18*
12 2	12 40.12	+26 8.2	1.212	1.338	45.2	19.0	74 W	66*	19*
12 7	13 0.12	+24 50.4	1.192	1.323	45.8	18.9	74 W	66*	20*
12 12	13 19.56	+23 27.5	1.175	1.310	46.3	18.9	74 W	65*	21*
12 17	13 38.36	+22 0.7	1.161	1.299	46.7	18.9	74 W	64*	22*
12 22	13 56.47	+20 31.0	1.148	1.291	47.1	18.8	74 W	63*	24*
12 27	14 13.85	+18 59.4	1.138	1.285	47.4	18.8	74 W	62*	26*
1 1	14 30.48	+17 26.9	1.128	1.281	47.7	18.8	74 W	61*	28*
1 6	14 46.36	+15 54.2	1.120	1.279	47.8	18.8	75 W	60*	30*
1 11	15 1.49	+14 22.1	1.112	1.279	47.9	18.8	75 W	58*	33*
1 16	15 15.87	+12 51.1	1.104	1.282	48.0	18.8	76 W	57*	35*

470068 2006 SQ_{273}

4 21	2 36.80	+16 6.5	2.616	1.639	6.6	21.5	11 E	4*	1*
5 1	3 4.23	+18 27.2	2.636	1.644	4.9	21.4	8 E	1*	—
5 11	3 32.22	+20 32.4	2.655	1.652	3.3	21.3	5 E	—	—
5 21	4 0.71	+22 20.3	2.672	1.662	1.8	21.3	3 E	—	—
5 31	4 29.58	+23 49.1	2.688	1.676	1.2	21.2	2 W	—	—
6 10	4 58.68	+24 57.6	2.703	1.691	2.3	21.4	4 W	—	—
6 20	5 27.83	+25 45.2	2.715	1.709	3.9	21.5	7 W	—	—

88191 2000 YK_{21}

4 21	2 37.51	+16 42.0	3.274	2.297	4.9	21.5	11 E	4*	1*
5 1	2 56.78	+17 49.0	3.279	2.279	2.7	21.4	6 E	—	—
5 11	3 16.48	+18 50.1	3.271	2.261	0.6	21.2	1 E	—	—
5 21	3 36.61	+19 44.2	3.252	2.242	1.6	21.2	4 W	—	—
5 31	3 57.15	+20 30.2	3.221	2.222	3.8	21.3	8 W	—	2*
6 10	4 18.06	+21 7.2	3.179	2.202	5.9	21.4	13 W	—	6*
6 20	4 39.30	+21 34.2	3.127	2.180	8.1	21.4	18 W	4*	10*
6 30	5 0.82	+21 50.3	3.066	2.158	10.2	21.5	22 W	7*	14*
7 10	5 22.56	+21 54.7	2.995	2.135	12.3	21.5	27 W	11*	17*
7 20	5 44.45	+21 46.9	2.916	2.112	14.4	21.5	31 W	16*	20*
7 30	6 6.41	+21 26.3	2.828	2.088	16.4	21.4	36 W	21*	22*
8 9	6 28.36	+20 52.5	2.734	2.063	18.4	21.4	40 W	26*	25*
8 19	6 50.22	+20 5.3	2.633	2.038	20.4	21.4	44 W	31*	27*
8 29	7 11.90	+19 4.8	2.526	2.013	22.2	21.3	49 W	35*	29*
9 8	7 33.33	+17 50.9	2.415	1.987	24.0	21.2	53 W	40*	31*
9 18	7 54.42	+16 24.0	2.299	1.961	25.7	21.1	58 W	44*	33*
9 28	8 15.09	+14 44.5	2.181	1.934	27.4	21.0	62 W	47*	36*
10 8	8 35.28	+12 53.0	2.060	1.908	28.8	20.9	67 W	50*	38*
10 18	8 54.91	+10 50.1	1.937	1.882	30.2	20.8	72 W	52*	42*
10 28	9 13.88	+ 8 36.8	1.814	1.856	31.4	20.7	77 W	52*	45*
11 7	9 32.12	+ 6 14.2	1.692	1.830	32.4	20.5	82 W	51*	49*
11 17	9 49.52	+ 3 43.3	1.570	1.805	33.2	20.4	87 W	49	54*
11 27	10 5.91	+ 1 6.0	1.451	1.780	33.6	20.2	92 W	46	58*
12 7	10 21.12	− 1 36.1	1.335	1.756	33.8	20.0	97 W	43	64*
12 17	10 34.92	− 4 20.6	1.224	1.733	33.6	19.7	103 W	41	68*
12 27	10 46.97	− 7 4.4	1.118	1.711	32.9	19.5	109 W	38	71
1 1	10 52.23	− 8 24.9	1.067	1.701	32.4	19.4	112 W	37	72
1 6	10 56.91	− 9 43.7	1.018	1.691	31.7	19.2	115 W	35	74
1 11	11 0.94	−11 0.1	0.971	1.681	30.9	19.1	119 W	34	75
1 16	11 4.25	−12 13.0	0.926	1.671	29.9	18.9	122 W	33	76

250680 2005 QC_5

4 21	2 51.66	+17 45.1	1.712	0.783	19.0	21.3	15 E	8*	3*
4 26	3 13.34	+19 44.6	1.669	0.748	20.9	21.2	15 E	8*	4*
5 1	3 36.40	+21 37.8	1.622	0.713	23.4	21.1	16 E	9*	4*
5 6	4 0.95	+23 22.0	1.571	0.679	26.4	21.0	17 E	10*	5*
5 11	4 27.09	+24 53.7	1.516	0.647	30.1	21.0	19 E	11*	6*
5 16	4 54.81	+26 8.9	1.458	0.619	34.6	20.9	20 E	12*	7*
5 21	5 23.99	+27 3.0	1.395	0.596	39.8	20.9	22 E	13*	9*
5 26	5 54.40	+27 31.5	1.329	0.579	45.7	20.9	24 E	14*	11*
5 31	6 25.62	+27 30.4	1.260	0.569	52.0	20.9	26 E	15*	13*
6 5	6 57.17	+26 56.7	1.189	0.568	58.5	21.0	29 E	16*	15*
6 10	7 28.54	+25 49.2	1.118	0.575	64.7	21.0	31 E	17*	18*
6 15	7 59.35	+24 8.0	1.048	0.589	70.4	21.1	33 E	17*	21*
6 20	8 29.34	+21 54.7	0.982	0.611	75.3	21.2	36 E	17*	24*
6 25	8 58.43	+19 11.6	0.921	0.637	79.1	21.3	38 E	16*	27*
6 30	9 26.66	+16 1.4	0.867	0.668	81.9	21.4	41 E	16*	31*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°

250680 2005 QC_5 *(continuation)*

7 5	9 54.14	+12 27.5	0.819	0.701	83.6	21.4	43 E	15*	34*
7 10	10 21.05	+ 8 34.0	0.778	0.736	84.3	21.4	46 E	14*	38*
7 15	10 47.56	+ 4 25.5	0.746	0.771	84.1	21.4	49 E	13*	42*
7 20	11 13.84	+ 0 7.7	0.722	0.807	83.2	21.4	52 E	12*	45*
7 25	11 39.99	− 4 13.1	0.705	0.842	81.6	21.4	55 E	11*	49*
7 30	12 6.11	− 8 30.2	0.696	0.876	79.6	21.4	58 E	10*	52*
8 4	12 32.21	−12 36.9	0.693	0.909	77.3	21.4	61 E	9*	55*
8 9	12 58.30	−16 27.6	0.698	0.941	74.8	21.4	64 E	8*	57*
8 14	13 24.34	−19 58.0	0.708	0.971	72.3	21.4	66 E	7*	60*
8 19	13 50.27	−23 5.2	0.723	1.000	69.8	21.4	68 E	6*	61*
8 24	14 16.01	−25 47.8	0.743	1.027	67.5	21.5	70 E	6*	63*

170903 2004 WS_2

4 21	3 35.91	+18 3.3	2.221	1.376	17.9	21.5	25 E	15*	12*
5 1	4 1.57	+19 53.3	2.170	1.286	16.7	21.2	22 E	12*	10*
5 11	4 29.92	+21 35.1	2.103	1.190	15.7	21.0	19 E	9*	8*
5 21	5 1.47	+23 4.5	2.021	1.088	15.3	20.7	16 E	7*	7*
5 31	5 36.85	+24 14.9	1.924	0.981	15.5	20.3	15 E	5*	6*
6 5	5 56.18	+24 40.1	1.871	0.926	16.1	20.2	15 E	5*	6*
6 10	6 16.72	+24 56.5	1.814	0.870	17.1	20.0	15 E	5*	6*
6 15	6 38.55	+25 2.3	1.753	0.813	18.6	19.8	15 E	4*	6*
6 20	7 1.73	+24 55.1	1.689	0.758	20.7	19.7	15 E	5*	7*
6 25	7 26.28	+24 32.4	1.621	0.704	23.7	19.5	16 E	5*	7*
6 30	7 52.17	+23 51.0	1.549	0.653	27.7	19.4	17 E	5*	9*
7 5	8 19.29	+22 48.1	1.472	0.607	32.9	19.2	19 E	6*	10*
7 10	8 47.42	+21 20.6	1.391	0.570	39.4	19.2	21 E	7*	12*
7 15	9 16.24	+19 26.5	1.305	0.544	47.1	19.1	23 E	8*	15*
7 20	9 45.34	+17 4.8	1.216	0.531	55.7	19.2	26 E	8*	18*
7 25	10 14.38	+14 15.8	1.127	0.535	64.3	19.3	28 E	9*	21*
7 30	10 43.18	+11 0.7	1.039	0.553	72.0	19.4	31 E	9*	24*
8 4	11 11.88	+ 7 21.1	0.958	0.584	78.1	19.6	34 E	9*	27*
8 9	11 40.84	+ 3 18.2	0.886	0.626	82.3	19.7	38 E	10*	31*
8 14	12 10.56	− 1 5.5	0.824	0.674	84.5	19.8	41 E	10*	35*
8 19	12 41.52	− 5 45.7	0.775	0.726	84.7	19.8	46 E	10*	39*
8 21	12 54.34	− 7 40.8	0.759	0.748	84.3	19.8	47 E	10*	41*
8 23	13 7.44	− 9 36.5	0.746	0.770	83.7	19.8	49 E	10*	43*
8 25	13 20.81	−11 32.1	0.734	0.792	82.8	19.8	51 E	10*	45*
8 27	13 34.45	−13 26.6	0.725	0.815	81.8	19.8	53 E	10*	47*
8 29	13 48.36	−15 19.2	0.718	0.837	80.6	19.8	55 E	10*	49*
8 31	14 2.52	−17 8.8	0.714	0.860	79.2	19.8	57 E	10*	51*
9 2	14 16.89	−18 54.6	0.712	0.882	77.7	19.8	59 E	10*	53*
9 4	14 31.44	−20 35.5	0.712	0.905	76.1	19.8	61 E	10*	54*
9 6	14 46.13	−22 10.7	0.715	0.927	74.5	19.8	62 E	10*	56*
9 8	15 0.90	−23 39.6	0.719	0.949	72.8	19.8	64 E	10*	58*
9 13	15 37.80	−26 50.8	0.739	1.004	68.6	19.9	68 E	10*	62*
9 18	16 13.92	−29 15.1	0.771	1.058	64.4	19.9	72 E	10*	65*
9 23	16 48.43	−30 54.2	0.812	1.110	60.6	20.0	75 E	10*	68*
9 28	17 20.69	−31 53.6	0.862	1.162	57.1	20.2	77 E	11*	70*
10 3	17 50.40	−32 20.7	0.918	1.211	53.9	20.3	78 E	11*	71*
10 8	18 17.51	−32 22.7	0.981	1.259	51.2	20.5	79 E	12*	72*
10 13	18 42.15	−32 5.8	1.047	1.306	48.7	20.6	79 E	13*	73*
10 18	19 4.55	−31 35.3	1.118	1.351	46.4	20.8	79 E	13*	73*
10 23	19 24.98	−30 54.8	1.191	1.395	44.4	20.9	79 E	14*	73*
10 28	19 43.70	−30 7.3	1.267	1.437	42.5	21.1	78 E	15*	72*
11 2	20 0.94	−29 14.9	1.345	1.477	40.8	21.2	77 E	16*	71*
11 7	20 16.93	−28 18.9	1.424	1.517	39.2	21.3	75 E	17*	69*
11 12	20 31.85	−27 20.3	1.504	1.555	37.7	21.5	74 E	18	67*

376848 2001 RY_{47}

4 21	4 29.24	+32 33.3	1.286	0.841	51.3	21.5	41 E	34*	13*
4 26	4 49.30	+32 28.5	1.245	0.803	53.8	21.4	40 E	33*	14*
5 1	5 9.75	+32 6.5	1.199	0.764	56.7	21.3	39 E	31*	15*
5 6	5 30.34	+31 24.5	1.146	0.726	60.4	21.2	39 E	30*	16*
5 11	5 50.76	+30 19.9	1.089	0.688	64.8	21.1	38 E	28*	17*
5 16	6 10.55	+28 49.9	1.025	0.652	70.1	21.0	37 E	26*	19*
5 21	6 29.13	+26 52.1	0.957	0.619	76.6	20.9	37 E	24*	20*
5 26	6 45.76	+24 24.8	0.885	0.591	84.2	20.9	35 E	21*	22*
5 31	6 59.49	+21 27.6	0.809	0.569	93.0	21.0	34 E	17*	23*
6 5	7 9.27	+18 2.2	0.734	0.555	103.0	21.2	32 E	12*	23*

285990 2001 SK_9

4 21	4 38.71	+ 4 4.9	2.055	1.455	27.0	21.5	41 E	17*	33*
5 1	4 57.90	+ 5 38.5	1.994	1.330	26.9	21.2	37 E	12*	29*
5 11	5 19.74	+ 7 10.8	1.912	1.197	27.2	20.9	33 E	7*	26*
5 21	5 44.72	+ 8 43.6	1.809	1.054	28.3	20.6	30 E	4*	23*
5 31	6 13.55	+10 20.2	1.682	0.902	30.5	20.1	27 E	1*	21*
6 5	6 29.70	+11 12.1	1.609	0.823	32.4	19.9	26 E	—	20*
6 10	6 47.20	+12 8.6	1.529	0.742	35.0	19.6	25 E	—	19*
6 15	7 6.19	+13 12.4	1.441	0.659	38.9	19.3	24 E	—	18*

285990 2001 SK_9 *(continuation)*

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
6 20	7 26.77	+14 28.3	1.344	0.577	44.5	19.1	23 E	1*	17*
6 25	7 48.81	+16 4.5	1.237	0.499	52.9	18.8	23 E	2*	17*
6 30	8 11.57	+18 14.6	1.117	0.432	65.5	18.6	23 E	4*	16*
7 2	8 20.47	+19 20.4	1.066	0.410	72.0	18.6	23 E	6*	15*
7 4	8 28.97	+20 36.4	1.014	0.394	79.3	18.7	22 E	7*	14*
7 6	8 36.78	+22 3.5	0.961	0.382	87.3	18.8	22 E	8*	13*
7 8	8 43.61	+23 42.7	0.907	0.377	95.7	19.0	22 E	9*	12*
7 10	8 49.16	+25 33.9	0.856	0.378	104.2	19.3	21 E	10*	10*
7 12	8 53.20	+27 35.9	0.806	0.386	112.2	19.7	21 E	11*	8*
7 14	8 55.57	+29 47.2	0.760	0.399	119.3	20.1	20 E	12*	6*
7 16	8 56.19	+32 5.3	0.717	0.418	125.1	20.5	20 E	13*	3*
7 18	8 55.06	+34 27.5	0.678	0.441	129.3	20.9	20 E	13*	—
7 20	8 52.23	+36 51.5	0.643	0.467	131.9	21.2	20 E	14*	—
7 22	8 47.76	+39 14.7	0.612	0.495	132.8	21.3	21 E	14*	—
7 24	8 41.71	+41 35.2	0.585	0.526	132.3	21.3	22 E	15*	—
7 26	8 34.14	+43 51.2	0.560	0.557	130.8	21.2	25 E	15*	—
7 28	8 25.10	+46 1.3	0.538	0.589	128.4	21.0	27 W	16*	—
7 30	8 14.61	+48 4.2	0.519	0.622	125.5	20.7	30 W	20*	—
8 1	8 2.70	+49 59.2	0.501	0.655	122.2	20.5	33 W	24*	—
8 3	7 49.36	+51 45.3	0.485	0.688	118.7	20.3	37 W	28*	—
8 5	7 34.61	+53 21.8	0.471	0.721	115.1	20.0	40 W	32*	—
8 7	7 18.42	+54 48.2	0.457	0.754	111.3	19.8	44 W	36*	—
8 9	7 0.80	+56 3.7	0.445	0.787	107.5	19.6	48 W	40*	—
8 11	6 41.75	+57 7.5	0.434	0.819	103.7	19.5	52 W	44*	—
8 13	6 21.31	+57 58.7	0.423	0.851	99.9	19.3	56 W	48*	—
8 15	5 59.54	+58 36.3	0.413	0.883	96.0	19.1	60 W	53*	1*
8 17	5 36.60	+58 59.0	0.404	0.914	92.0	19.0	64 W	57*	2*
8 19	5 12.67	+59 5.5	0.395	0.945	88.1	18.9	69 W	61*	3*
8 20	5 0.42	+59 2.3	0.391	0.961	86.1	18.8	71 W	63*	4*
8 21	4 48.04	+58 54.5	0.387	0.976	84.0	18.7	74 W	66*	4*
8 22	4 35.58	+58 42.1	0.384	0.991	82.0	18.7	76 W	68*	5*
8 23	4 23.08	+58 24.8	0.380	1.006	79.9	18.6	78 W	70*	5*
8 24	4 10.60	+58 2.6	0.377	1.021	77.8	18.5	81 W	72*	6*
8 25	3 58.18	+57 35.4	0.374	1.036	75.7	18.5	83 W	74*	6
8 26	3 45.89	+57 3.2	0.371	1.051	73.6	18.4	86 W	76*	7
8 27	3 33.77	+56 26.0	0.369	1.065	71.4	18.4	88 W	78*	8
8 28	3 21.87	+55 43.8	0.366	1.080	69.3	18.3	91 W	79*	8
8 29	3 10.23	+54 56.7	0.364	1.094	67.1	18.3	94 W	80	9
8 30	2 58.88	+54 4.9	0.363	1.109	64.9	18.2	96 W	81	10
8 31	2 47.86	+53 8.4	0.361	1.123	62.6	18.2	99 W	82	11
9 1	2 37.19	+52 7.4	0.360	1.137	60.4	18.1	102 W	83	12
9 2	2 26.89	+51 2.3	0.360	1.151	58.1	18.1	104 W	84	13
9 3	2 16.97	+49 53.3	0.359	1.165	55.9	18.0	107 W	85	14
9 4	2 7.44	+48 40.7	0.359	1.179	53.6	18.0	110 W	86	15
9 5	1 58.31	+47 24.8	0.360	1.193	51.3	18.0	112 W	88	17
9 6	1 49.58	+46 5.9	0.361	1.207	49.0	17.9	115 W	89	18
9 7	1 41.24	+44 44.5	0.362	1.221	46.8	17.9	118 W	90	19
9 8	1 33.28	+43 20.8	0.364	1.234	44.5	17.9	121 W	88	21
9 10	1 18.48	+40 28.5	0.369	1.261	40.0	17.8	126 W	85	24
9 12	1 5.11	+37 32.0	0.376	1.288	35.7	17.8	132 W	83	26
9 14	0 53.06	+34 34.2	0.384	1.314	31.4	17.8	137 W	80	29
9 16	0 42.22	+31 38.1	0.395	1.340	27.4	17.7	142 W	77	32
9 18	0 32.49	+28 45.8	0.408	1.365	23.6	17.7	147 W	74	35
9 20	0 23.78	+25 59.4	0.422	1.390	20.0	17.7	152 W	71	38
9 22	0 15.98	+23 20.5	0.438	1.415	16.8	17.8	156 W	68	41
9 24	0 9.02	+20 50.0	0.456	1.440	14.1	17.8	160 W	66	43
9 26	0 2.81	+18 28.7	0.476	1.464	11.8	17.8	163 E	63	46
9 28	23 57.28	+16 16.8	0.498	1.488	10.2	17.9	165 E	61	48
10 3	23 46.03	+11 28.1	0.558	1.547	9.4	18.2	165 E	56	53
10 8	23 37.80	+ 7 34.0	0.626	1.604	11.8	18.6	161 E	53	56
10 13	23 31.97	+ 4 26.7	0.701	1.659	14.9	19.1	155 E	49	60
10 18	23 28.05	+ 1 58.5	0.783	1.713	17.8	19.5	148 E	47	62
10 23	23 25.71	+ 0 2.2	0.870	1.765	20.2	19.8	142 E	45	64
10 28	23 24.66	− 1 28.1	0.961	1.815	22.1	20.2	137 E	44	65
11 2	23 24.67	− 2 37.5	1.056	1.865	23.6	20.5	131 E	42	67
11 7	23 25.55	− 3 29.9	1.154	1.912	24.8	20.8	126 E	42	67
11 12	23 27.18	− 4 8.4	1.255	1.959	25.6	21.0	121 E	41	68
11 17	23 29.43	− 4 35.4	1.359	2.004	26.2	21.3	116 E	40	69
11 22	23 32.23	− 4 52.8	1.464	2.048	26.6	21.5	112 E	40	69

347634 2001 SW_{269}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	4 45.04	+ 8 22.1	1.092	0.752	62.9	21.3	42 E	21*	32*
4 26	4 58.25	+10 25.3	1.030	0.698	68.2	21.2	40 E	20*	30*
5 1	5 11.21	+12 48.2	0.961	0.647	74.8	21.1	38 E	19*	28*
5 6	5 23.22	+15 38.6	0.886	0.599	83.2	21.0	36 E	19*	25*
5 11	5 33.12	+19 6.9	0.808	0.557	93.6	21.1	33 E	18*	22*
5 16	5 39.00	+23 23.7	0.731	0.524	106.2	21.4	30 E	17*	17*

329390 2001 YP_2

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	14 53.89	+21 48.0	2.066	2.935	11.8	23.6	143 W	67	42
4 26	14 47.96	+22 6.5	2.059	2.930	11.8	23.6	143 W	67	42
5 1	14 41.88	+22 17.5	2.060	2.925	12.1	23.6	143 W	67	42
5 6	14 35.78	+22 20.6	2.066	2.919	12.6	23.6	141 E	67	42
5 11	14 29.79	+22 15.6	2.078	2.913	13.3	23.7	139 E	67	42
5 16	14 24.05	+22 2.6	2.096	2.906	14.1	23.7	136 E	67	42
5 21	14 18.66	+21 42.0	2.120	2.900	15.0	23.8	132 E	67	42

476703 2008 TQ_{145}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	14 54.42	−13 20.4	3.738	4.718	3.0	22.7	166 W	32	77
5 1	14 48.51	−12 50.6	3.721	4.726	0.9	22.6	176 W	32	77
5 11	14 42.52	−12 21.4	3.734	4.734	1.9	22.7	171 E	33	76
5 21	14 36.85	−11 54.6	3.777	4.741	4.1	22.8	160 E	33	76
5 31	14 31.88	−11 32.2	3.847	4.748	6.2	23.0	149 E	33	76

431760 2008 HE

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	14 55.57	−15 3.6	3.385	4.364	3.4	24.3	165 W	30	79
5 1	14 45.56	−14 14.9	3.345	4.351	0.7	24.0	177 W	31	78
5 11	14 35.40	−13 24.4	3.339	4.337	2.3	24.2	170 E	32	77
5 21	14 25.67	−12 35.1	3.367	4.322	5.0	24.3	158 E	32	77
5 31	14 16.92	−11 50.1	3.426	4.305	7.5	24.5	146 E	33	76

329774 2004 LE

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	14 58.11	− 6 14.1	3.693	4.666	3.5	23.2	164 W	39	70
5 1	14 49.99	− 5 11.6	3.651	4.644	2.3	23.1	169 W	40	69
5 11	14 41.66	− 4 12.5	3.641	4.622	3.4	23.2	164 E	41	68
5 21	14 33.61	− 3 19.6	3.664	4.599	5.4	23.3	155 E	42	67
5 31	14 26.29	− 2 35.3	3.717	4.574	7.5	23.4	144 E	42	67

255587 Gardenia

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 3.16	− 7 50.5	2.374	3.348	5.1	22.6	163 W	37	72
5 1	14 54.49	− 7 1.0	2.349	3.347	2.9	22.5	170 W	38	71
5 11	14 45.53	− 6 16.3	2.355	3.346	4.0	22.5	167 E	39	70
5 21	14 37.04	− 5 39.9	2.389	3.343	6.9	22.7	157 E	39	70
5 31	14 29.69	− 5 14.6	2.450	3.339	9.8	22.9	146 E	40	69

497176 2004 TQ_{13}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 3.53	−19 28.6	3.048	4.016	4.4	24.2	162 W	26	83
5 1	14 55.51	−18 44.0	3.004	4.007	1.6	24.0	174 W	26	83
5 11	14 47.20	−17 55.1	2.991	3.997	1.5	24.0	174 E	27	82
5 21	14 39.21	−17 5.0	3.009	3.986	4.4	24.2	163 E	28	81
5 31	14 32.11	−16 17.2	3.056	3.974	7.1	24.3	151 E	29	80

144908 2004 YH_{32}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 4.93	−23 16.0	11.172	12.122	1.6	23.8	160 W	22	87
5 1	15 1.30	−23 13.5	11.118	12.110	0.9	23.7	170 W	22	87
5 11	14 57.56	−23 9.3	11.093	12.098	0.5	23.6	174 E	22	87
5 21	14 53.86	−23 4.0	11.100	12.086	1.1	23.7	166 E	22	87
5 31	14 50.34	−22 58.0	11.137	12.073	1.9	23.8	156 E	22	87

468583 2007 LS

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 9.31	−14 4.7	2.341	3.311	5.4	22.8	162 W	31	78
5 1	14 59.63	−13 9.3	2.253	3.256	2.0	22.5	173 W	32	77
5 11	14 49.05	−12 10.2	2.195	3.199	2.5	22.4	172 E	33	76
5 21	14 38.44	−11 11.7	2.169	3.140	6.3	22.5	160 E	34	75
5 31	14 28.65	−10 18.6	2.171	3.080	10.0	22.7	148 E	35	74

380125 1996 UC_1

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 9.59	−20 56.0	1.887	2.853	6.9	22.4	160 W	24	85
5 1	14 59.21	−20 37.6	1.825	2.826	2.9	22.1	172 W	24	85
5 11	14 47.93	−20 10.7	1.791	2.798	2.2	22.0	174 E	25	84
5 21	14 36.86	−19 38.4	1.787	2.769	6.4	22.2	162 E	25	84
5 31	14 27.08	−19 5.6	1.810	2.739	10.5	22.3	151 E	26	83

492478 2014 NB_{39}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 10.03	−15 34.2	1.829	2.801	6.5	23.7	162 W	29	80
4 26	15 3.55	−14 49.2	1.803	2.795	4.3	23.6	168 W	30	79
5 1	14 56.77	−14 2.2	1.784	2.789	2.1	23.4	174 W	31	78
5 6	14 49.83	−13 13.9	1.774	2.782	1.2	23.3	177 E	32	77
5 11	14 42.91	−12 25.4	1.772	2.774	3.2	23.5	171 E	33	76
5 16	14 36.16	−11 37.6	1.777	2.766	5.6	23.6	165 E	33	76
5 21	14 29.71	−10 51.5	1.791	2.756	7.8	23.7	158 E	34	75

457260 2008 RY_{24}

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
4 21	15 12.24	−23 28.6	2.236	3.192	6.6	22.6	158 W	22	87
4 26	15 7.24	−23 10.4	2.217	3.198	4.9	22.5	164 W	22	87
5 1	15 2.02	−22 49.6	2.206	3.202	3.2	22.4	170 W	22	87
5 6	14 56.71	−22 26.7	2.202	3.207	1.9	22.3	174 W	23	86
5 11	14 51.41	−22 1.9	2.206	3.211	2.0	22.3	174 E	23	86
5 16	14 46.24	−21 35.9	2.217	3.215	3.4	22.4	169 E	23	86

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
457260 2008 RY_{24} *(continuation)*									
5 21	14 41.31	−21 9.2	2.235	3.219	5.1	22.5	163 E	24	85
5 26	14 36.72	−20 42.6	2.261	3.222	6.8	22.6	158 E	24	85
366833 2005 MC									
4 21	15 13.59	−48 9.4	3.333	4.156	8.9	22.8	140 W	—	68
4 26	15 8.23	−48 2.8	3.304	4.158	8.2	22.8	144 W	—	68
5 1	15 2.65	−47 51.0	3.281	4.160	7.6	22.7	147 W	—	68
5 6	14 56.97	−47 34.0	3.264	4.161	7.2	22.7	149 W	—	68
5 11	14 51.30	−47 11.8	3.254	4.162	6.9	22.7	150 E	—	69
5 16	14 45.76	−46 44.9	3.251	4.163	6.8	22.7	151 E	—	69
5 21	14 40.45	−46 13.7	3.256	4.164	7.0	22.7	150 E	—	70
5 26	14 35.47	−45 38.6	3.267	4.164	7.3	22.7	149 E	—	70
510013 2009 YZ_1									
4 21	15 15.24	+19 40.5	2.666	3.520	9.9	22.8	143 W	65	44
4 26	15 10.94	+20 1.1	2.651	3.513	9.8	22.8	144 W	65	44
5 1	15 6.43	+20 16.3	2.642	3.506	9.8	22.8	144 W	65	44
5 6	15 1.80	+20 25.8	2.640	3.498	10.0	22.8	143 W	65	44
5 11	14 57.15	+20 29.3	2.644	3.491	10.4	22.8	141 E	65	44
5 16	14 52.55	+20 26.7	2.653	3.483	10.9	22.8	139 E	65	44
5 21	14 48.11	+20 17.9	2.669	3.475	11.5	22.8	137 E	65	44
5 26	14 43.90	+20 3.2	2.690	3.466	12.2	22.9	134 E	65	44
402946 2007 TN_{348}									
4 21	15 15.79	−14 21.6	1.882	2.849	6.8	22.5	160 W	31	78
5 1	15 6.41	−13 38.8	1.836	2.837	2.9	22.2	172 W	31	78
5 11	14 56.27	−12 54.6	1.819	2.825	2.2	22.1	174 E	32	77
5 21	14 46.38	−12 13.2	1.830	2.811	6.2	22.3	162 E	33	76
5 31	14 37.71	−11 39.2	1.868	2.797	10.2	22.5	151 E	33	76
434007 2000 VH_{61}									
4 21	15 18.80	−14 5.0	1.819	2.784	7.2	22.5	160 W	31	78
4 26	15 13.79	−13 30.5	1.825	2.811	5.1	22.4	166 W	31	78
5 1	15 8.63	−12 56.1	1.839	2.839	3.1	22.3	171 W	32	77
5 6	15 3.47	−12 22.4	1.859	2.866	1.7	22.2	175 W	33	76
5 11	14 58.42	−11 50.2	1.887	2.892	2.4	22.4	173 E	33	76
5 16	14 53.60	−11 20.1	1.922	2.919	4.1	22.5	168 E	34	75
5 21	14 49.11	−10 52.5	1.965	2.945	6.0	22.7	162 E	34	75
5 26	14 45.05	−10 27.9	2.014	2.971	7.8	22.8	157 E	35	74
371092 2005 UA_{459}									
4 21	15 20.65	−11 4.0	2.559	3.517	5.8	22.4	159 W	34	75
5 1	15 12.32	−10 36.0	2.529	3.525	3.0	22.3	170 W	34	75
5 11	15 3.49	−10 10.0	2.529	3.532	2.3	22.2	172 E	35	74
5 21	14 54.88	− 9 48.4	2.558	3.538	4.9	22.4	163 E	35	74
5 31	14 47.14	− 9 33.7	2.617	3.543	7.7	22.6	152 E	35	74
180186 2003 QZ_{30}									
4 21	15 22.84	− 9 43.7	2.769	3.723	5.7	22.9	159 W	35	74
5 1	15 14.02	− 8 54.8	2.753	3.746	3.1	22.8	168 W	36	73
5 11	15 4.84	− 8 8.9	2.769	3.768	2.6	22.8	170 E	37	72
5 21	14 55.95	− 7 29.2	2.815	3.788	4.9	23.0	161 E	38	71
5 31	14 47.97	− 6 58.0	2.890	3.807	7.5	23.1	151 E	38	71
380980 2006 SN_{110}									
4 21	15 23.06	−10 56.5	2.457	3.412	6.2	22.7	159 W	34	75
5 1	15 14.31	−10 24.9	2.433	3.427	3.2	22.5	169 W	35	74
5 11	15 5.06	− 9 55.5	2.438	3.441	2.4	22.5	172 E	35	74
5 21	14 56.07	− 9 31.0	2.473	3.453	5.0	22.7	163 E	35	74
5 31	14 48.02	− 9 14.0	2.537	3.465	7.9	22.9	152 E	36	73
436761 2012 DN									
4 21	15 23.32	+ 9 18.8	2.557	3.462	8.4	23.4	150 W	54	55
4 26	15 18.95	+ 9 53.2	2.534	3.453	7.9	23.4	152 W	55	54
5 1	15 14.31	+10 24.0	2.518	3.444	7.7	23.3	153 W	55	54
5 6	15 9.50	+10 50.6	2.510	3.435	7.8	23.3	152 W	56	53
5 11	15 4.62	+11 12.7	2.508	3.425	8.3	23.3	151 E	56	53
5 16	14 59.75	+11 29.7	2.513	3.415	8.9	23.4	148 E	56	53
5 21	14 54.99	+11 41.5	2.525	3.405	9.8	23.4	145 E	57	52
5 26	14 50.42	+11 47.9	2.543	3.394	10.7	23.5	141 E	57	52
508765 2108 P–L									
4 21	15 28.25	−22 39.5	1.582	2.531	9.5	22.4	155 W	22	87
5 1	15 18.54	−22 18.0	1.499	2.492	5.2	22.1	167 W	23	86
5 11	15 7.10	−21 44.1	1.442	2.451	1.7	21.8	176 E	23	86
5 21	14 55.15	−21 0.6	1.413	2.409	5.5	21.9	167 E	24	85
5 31	14 44.12	−20 12.8	1.410	2.367	10.5	22.1	155 E	25	84

2020	α_{2000}	δ_{2000}	Δ	r	β	V	ψ	45°	–26°
	h m	° ′			°	m	°	°	°
503859 1998 QO_{52}									
4 21	15 28.46	−10 57.8	2.391	3.340	6.7	23.5	157 W	34	75
5 1	15 20.16	−10 10.9	2.333	3.324	3.7	23.3	168 W	35	74
5 11	15 11.05	− 9 25.1	2.304	3.307	2.6	23.2	172 E	36	73
5 21	15 1.88	− 8 44.0	2.306	3.289	5.1	23.3	163 E	36	73
5 31	14 53.42	− 8 11.1	2.336	3.269	8.2	23.5	153 E	37	72
409204 2003 WX_{25}									
4 21	15 30.97	−25 6.1	3.018	3.945	6.4	24.6	154 W	20	89
5 1	15 21.57	−25 7.6	2.998	3.979	3.8	24.4	165 W	20	89
5 11	15 11.68	−25 1.4	3.008	4.012	1.8	24.3	173 E	20	89
5 21	15 1.98	−24 48.9	3.049	4.044	3.1	24.5	168 E	20	89
5 31	14 53.13	−24 32.5	3.122	4.075	5.6	24.7	157 E	20	89
357024 1999 YR_{14}									
4 21	15 31.66	−23 44.7	1.148	2.100	12.0	22.1	154 W	21	88
4 26	15 25.31	−23 38.1	1.108	2.084	9.3	21.9	160 W	21	88
5 1	15 18.10	−23 26.6	1.074	2.067	6.5	21.7	167 W	22	87
5 6	15 10.21	−23 10.1	1.047	2.051	3.8	21.5	172 W	22	87
5 11	15 1.88	−22 48.9	1.025	2.033	2.7	21.4	174 E	22	87
5 16	14 53.36	−22 23.3	1.011	2.015	4.8	21.5	170 E	23	86
5 21	14 44.95	−21 54.3	1.003	1.996	7.9	21.6	164 E	23	86
5 26	14 36.94	−21 23.2	1.002	1.977	11.1	21.7	158 E	24	85
5 31	14 29.58	−20 51.4	1.006	1.958	14.3	21.8	151 E	24	85
6 5	14 23.09	−20 20.4	1.016	1.937	17.4	21.9	145 E	25	84
379841 2011 UV_{173}									
4 21	15 32.38	− 7 17.0	1.659	2.609	9.1	21.5	156 W	38	71
5 1	15 23.30	− 6 30.0	1.604	2.591	5.7	21.3	165 W	38	71
5 11	15 12.95	− 5 49.0	1.576	2.572	4.7	21.1	168 W	39	70
5 21	15 2.41	− 5 18.8	1.575	2.553	7.5	21.3	161 E	40	69
5 31	14 52.82	− 5 3.4	1.600	2.533	11.3	21.4	151 E	40	69
6 10	14 45.13	− 5 5.1	1.648	2.512	15.1	21.6	140 E	40	69
323296 2003 UV_5									
4 21	15 34.10	−16 14.2	2.157	3.101	7.6	22.4	156 W	29	80
5 1	15 25.05	−15 53.7	2.116	3.107	4.0	22.2	168 W	29	80
5 11	15 15.12	−15 30.7	2.103	3.112	0.8	21.9	178 W	29	80
5 21	15 5.21	−15 7.9	2.120	3.117	3.9	22.2	168 E	30	79
5 31	14 56.19	−14 48.5	2.166	3.120	7.6	22.4	156 E	30	79
247822 2003 SH_{180}									
4 21	15 40.84	−25 51.3	1.869	2.794	9.9	21.6	152 W	19	90
5 1	15 31.60	−25 41.4	1.795	2.773	6.2	21.4	163 W	19	90
5 11	15 20.81	−25 18.9	1.747	2.752	2.8	21.1	172 W	20	89
5 21	15 9.54	−24 45.3	1.728	2.729	4.0	21.1	169 E	20	89
5 31	14 58.99	−24 4.5	1.737	2.706	7.9	21.3	158 E	21	88
6 10	14 50.23	−23 22.2	1.772	2.682	11.8	21.5	147 E	22	87
422667 1999 TB_{289}									
4 21	15 41.21	−15 53.0	1.617	2.559	9.9	21.3	154 W	29	80
5 1	15 32.82	−15 16.1	1.539	2.528	5.7	21.0	166 W	30	79
5 11	15 22.70	−14 35.0	1.488	2.496	1.7	20.7	176 W	30	79
5 21	15 11.92	−13 53.5	1.463	2.464	4.7	20.8	169 E	31	78
5 31	15 1.74	−13 16.9	1.466	2.431	9.5	21.0	157 E	32	77
6 10	14 53.32	−12 49.9	1.492	2.397	14.0	21.2	145 E	32	77
6 20	14 47.43	−12 36.1	1.538	2.363	17.9	21.3	134 E	32	77
6 30	14 44.53	−12 37.1	1.600	2.328	21.2	21.5	124 E	32*	77
333901 1999 RX_{112}									
4 21	15 42.28	−30 24.4	2.606	3.507	8.5	22.1	149 W	15	86
5 1	15 33.94	−30 16.6	2.526	3.488	5.8	21.9	159 W	15	86
5 11	15 24.44	−29 56.4	2.474	3.468	3.6	21.7	168 W	15	86
5 21	15 14.57	−29 24.6	2.452	3.447	3.6	21.7	167 E	16	87
5 31	15 5.21	−28 43.9	2.458	3.425	6.0	21.8	159 E	16	87
6 10	14 57.14	−27 58.5	2.492	3.402	8.9	21.9	149 E	17	88
399905 2005 XA_1									
4 21	15 42.67	− 9 9.1	1.535	2.476	10.4	22.0	154 W	36	73
5 1	15 33.60	− 8 6.6	1.457	2.440	6.6	21.7	164 W	37	72
5 11	15 22.63	− 7 5.8	1.404	2.403	4.6	21.4	169 W	38	71
5 21	15 10.89	− 6 12.8	1.379	2.365	7.2	21.5	163 E	39	70
5 31	14 59.71	− 5 34.1	1.380	2.326	11.7	21.6	152 E	39	70
6 10	14 50.33	− 5 14.1	1.403	2.285	16.2	21.8	141 E	40	69
315440 2007 WX_1									
4 21	15 45.12	− 9 9.3	2.043	2.973	8.8	21.7	153 W	36	73
5 1	15 36.80	− 8 27.9	1.987	2.966	5.6	21.5	163 W	37	72
5 11	15 27.29	− 7 50.0	1.959	2.957	3.6	21.4	169 W	37	72
5 21	15 17.47	− 7 19.1	1.959	2.948	5.2	21.4	165 E	38	71
5 31	15 8.25	− 6 58.7	1.988	2.937	8.4	21.6	155 E	38	71
6 10	15 0.46	− 6 50.8	2.042	2.926	11.7	21.8	144 E	38	71