

### HAUMEA

M d 2009	Wsch.	Kulm.	Zach.	A	$\alpha$	$\delta$	D	V	$\Delta I$
	$\lambda=0^\circ$	$\varphi=50^\circ$			0 <sup>h</sup> UT				
	h m	h m	h m	$\pm^\circ$	h m	° ' "	"	m	°
I 0	23 21	7 02	14 40	121	13 42.8	18 35	0.0	17.4	-84
8	22 50	6 31	14 09	121	13 43.0	18 38	0.0	17.4	-91
16	22 18	6 00	13 38	121	13 43.2	18 42	0.0	17.4	-98
24	21 46	5 29	13 07	121	13 43.2	18 46	0.0	17.4	-106
II 1	21 14	4 57	12 36	121	13 43.2	18 51	0.0	17.4	-113
9	20 42	4 25	12 05	121	13 43.1	18 56	0.0	17.4	-120
17	20 10	3 54	11 34	121	13 42.9	19 01	0.0	17.4	-127
25	19 38	3 22	11 03	121	13 42.6	19 07	0.0	17.4	-133
III 5	19 05	2 50	10 31	122	13 42.3	19 12	0.0	17.4	-139
13	18 33	2 18	10 00	122	13 41.9	19 17	0.0	17.4	-144
21	18 01	1 47	9 28	122	13 41.4	19 21	0.0	17.4	-149
29	17 28	1 15	8 57	122	13 40.9	19 26	0.0	17.3	-151
IV 6	16 56	0 43	8 25	122	13 40.4	19 29	0.0	17.3	-152
14	16 24	0 11	7 54	122	13 39.9	19 33	0.0	17.3	151
22	15 51	23 35	7 22	122	13 39.4	19 35	0.0	17.4	148
30	15 19	23 03	6 50	122	13 38.8	19 37	0.0	17.4	144
V 8	14 47	22 31	6 18	122	13 38.3	19 38	0.0	17.4	138
16	14 15	21 59	5 46	122	13 37.8	19 39	0.0	17.4	132
24	13 43	21 27	5 14	122	13 37.4	19 39	0.0	17.4	126
VI 1	13 12	20 55	4 43	122	13 37.0	19 37	0.0	17.4	120
9	12 40	20 23	4 11	122	13 36.7	19 36	0.0	17.4	113
17	12 09	19 52	3 39	122	13 36.4	19 33	0.0	17.4	106
25	11 37	19 20	3 07	122	13 36.2	19 30	0.0	17.4	100
VII 3	11 06	18 48	2 35	122	13 36.1	19 27	0.0	17.4	93
11	10 35	18 17	2 03	122	13 36.1	19 22	0.0	17.4	86
19	10 04	17 46	1 31	122	13 36.1	19 18	0.0	17.5	79
27	9 33	17 14	0 59	122	13 36.3	19 13	0.0	17.5	73
VIII 4	9 02	16 43	0 27	121	13 36.5	19 08	0.0	17.5	66
12	8 32	16 12	23 52	121	13 36.7	19 02	0.0	17.5	60
20	8 01	15 41	23 20	121	13 37.1	18 57	0.0	17.5	53
28	7 31	15 10	22 49	121	13 37.5	18 51	0.0	17.4	47
IX 5	7 00	14 39	22 17	121	13 38.0	18 46	0.0	17.4	41
13	6 30	14 08	21 46	121	13 38.5	18 40	0.0	17.4	36
21	6 00	13 37	21 14	120	13 39.1	18 35	0.0	17.4	32
29	5 29	13 06	20 43	120	13 39.7	18 31	0.0	17.4	28
X 7	4 59	12 35	20 12	120	13 40.4	18 26	0.0	17.4	27
15	4 28	12 04	19 41	120	13 41.1	18 22	0.0	17.4	-27
23	3 58	11 34	19 09	120	13 41.7	18 19	0.0	17.4	-30
31	3 27	11 03	18 38	120	13 42.4	18 16	0.0	17.4	-34
XI 8	2 57	10 32	18 07	120	13 43.1	18 14	0.0	17.4	-39
16	2 26	10 01	17 37	120	13 43.7	18 13	0.0	17.4	-45
24	1 55	9 30	17 06	120	13 44.3	18 13	0.0	17.4	-51
XII 2	1 24	9 00	16 35	120	13 44.9	18 13	0.0	17.4	-57
10	0 53	8 29	16 04	120	13 45.4	18 14	0.0	17.4	-64
18	0 22	7 58	15 33	120	13 45.8	18 15	0.0	17.4	-71
26	23 47	7 26	15 02	120	13 46.2	18 18	0.0	17.4	-78
2010 I 3	23 15	6 55	14 31	120	13 46.5	18 21	0.0	17.4	-86