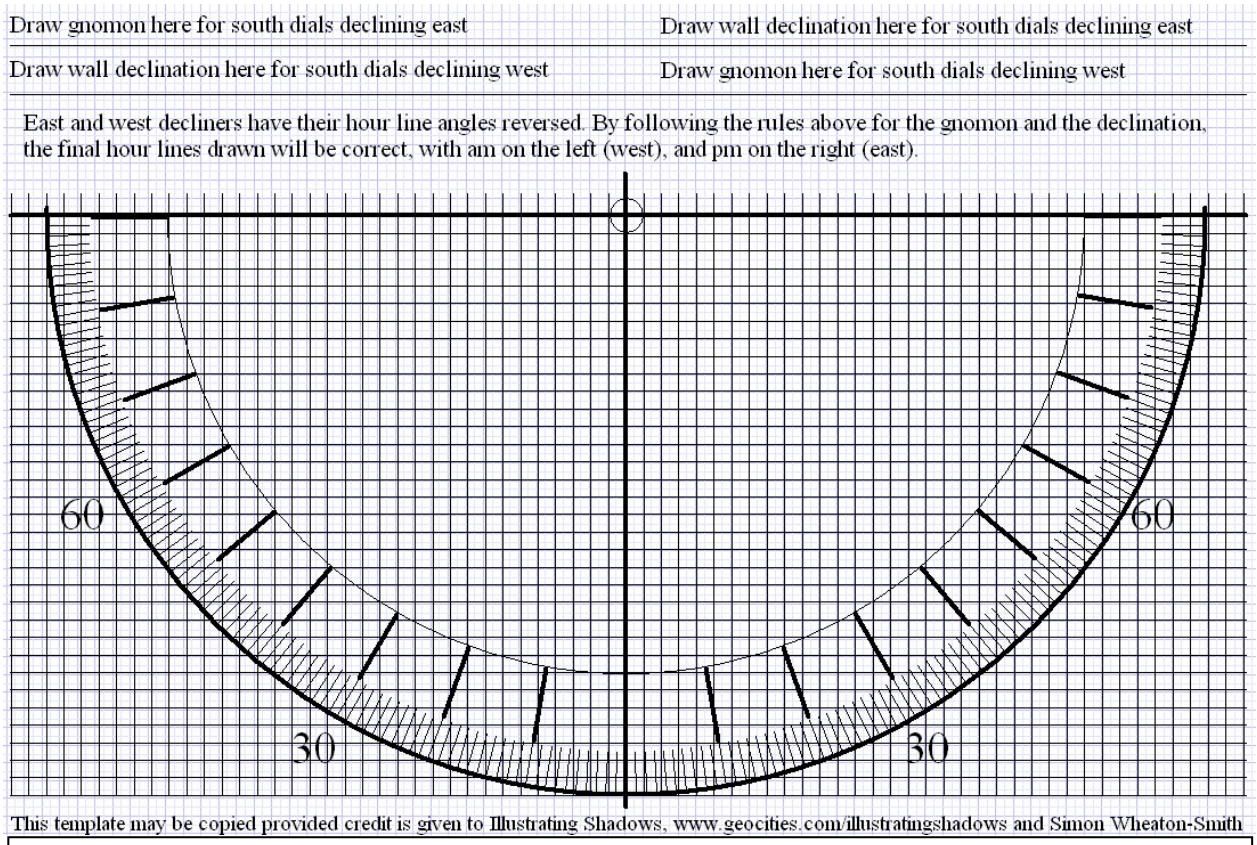
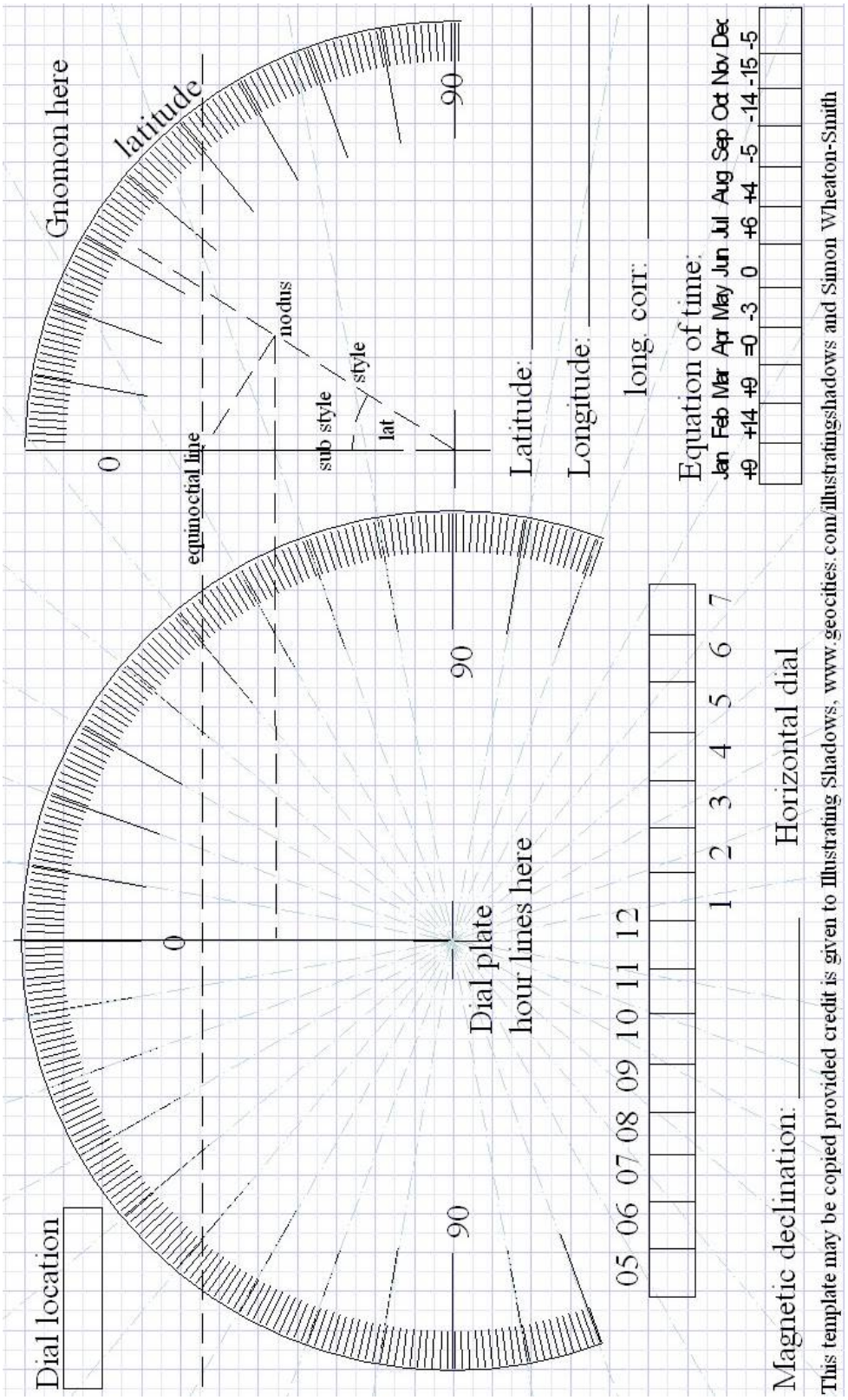
APPENDIX 9 – TEMPLATES FOR DIAL DESIGN

A DRAFTING SHEET FOR VERTICAL DECLINING DIALS TO FIND STYLE DISTANCE< STYLE HEIGHT, AND TO FACILITATE LOCATING THE HOUR LINES.

A9.1

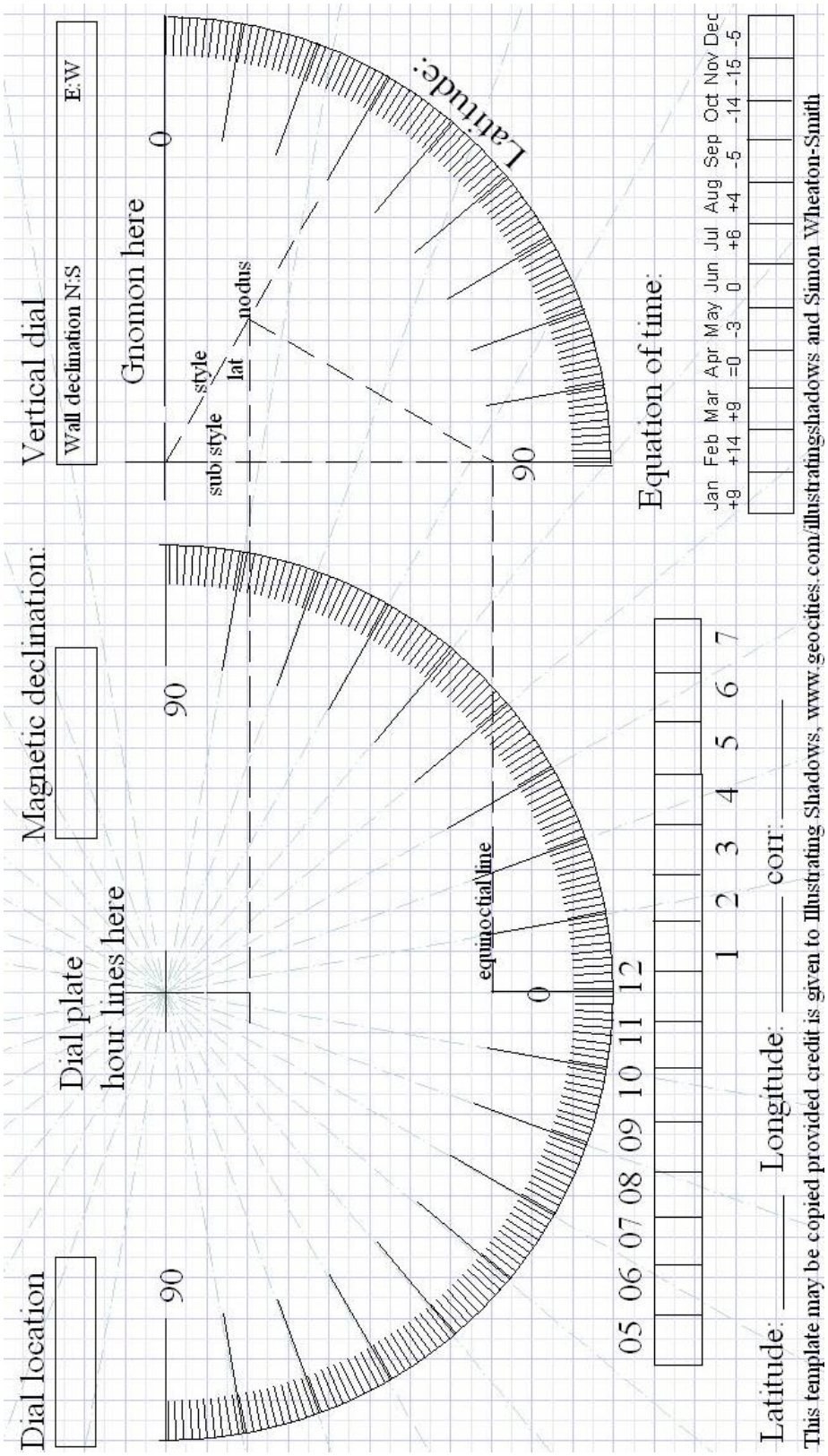


A9.2


Gnomon here
latitude
0
equinoctial line
nodus
sub style
style
lat
90
Latitude:
Longitude:
long. corr:
Equation of time:
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
+9 +14 +9 +0 -3 0 +6 +4 -5 -14 -15 -5
Dial location
0
Dial plate
hour lines here
90
05 06 07 08 09 10 11 12
1 2 3 4 5 6 7
Magnetic declination:
Horizontal dial
This template may be copied provided credit is given to Illustrating Shadows, www.geocities.com/illustratingshadows and Simon Wheaton-Smith

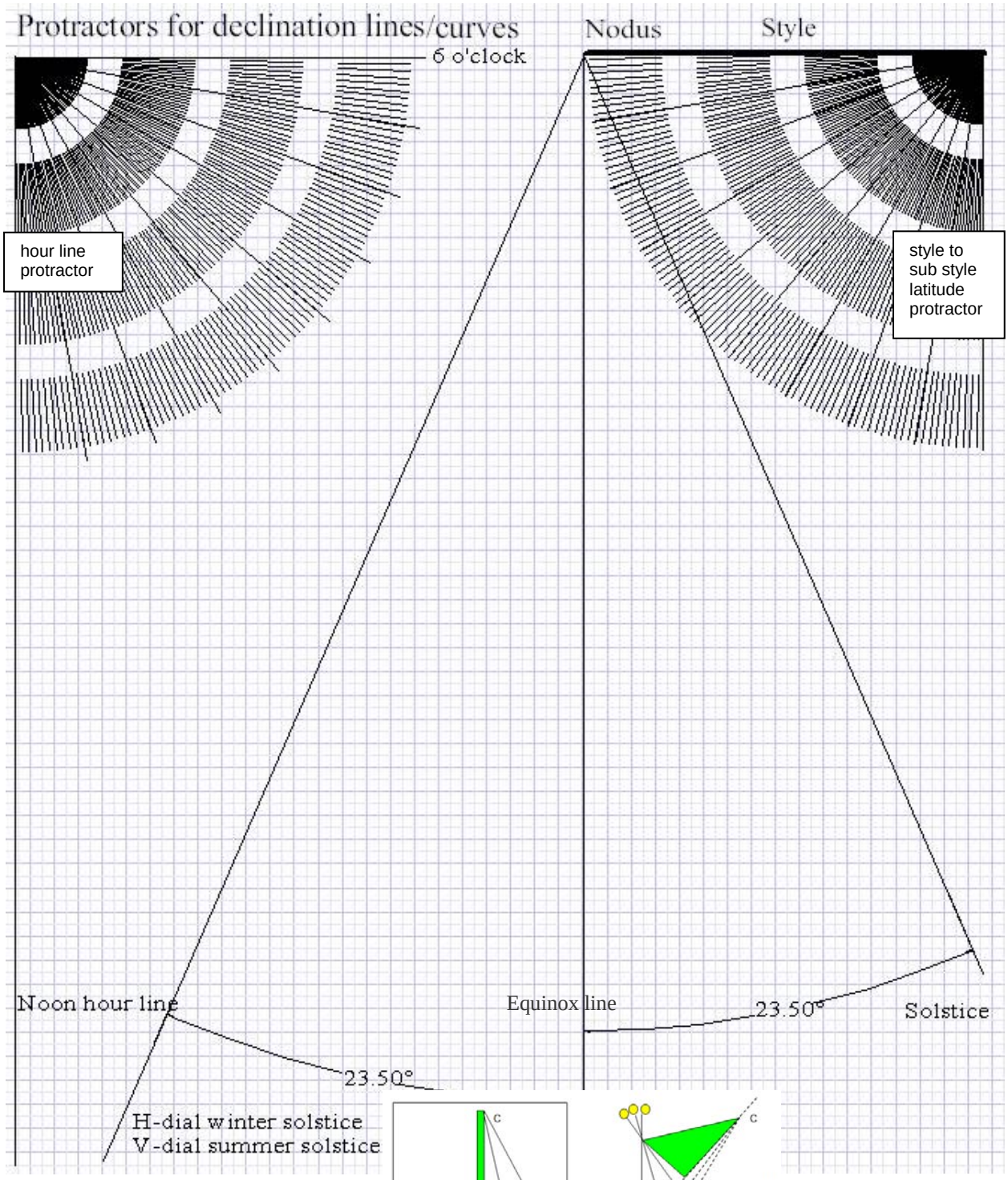
A DRAFTING SHEET FOR VERTICAL DIALS

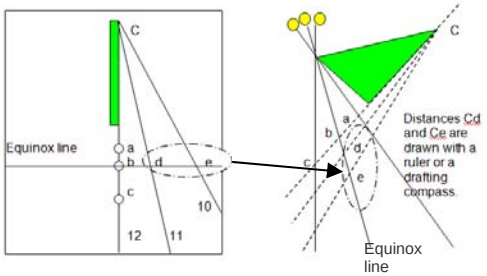
A9.3

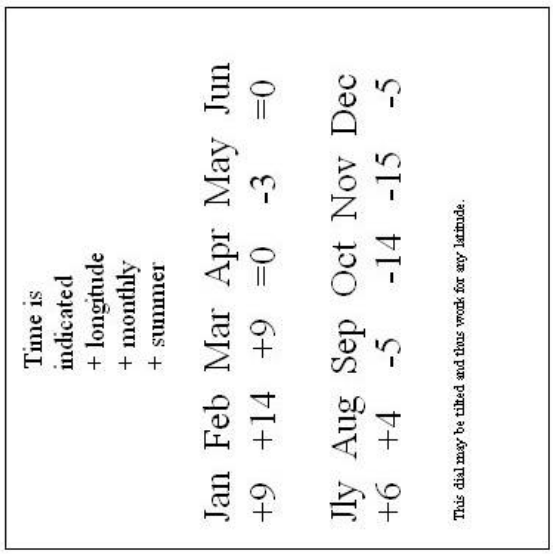


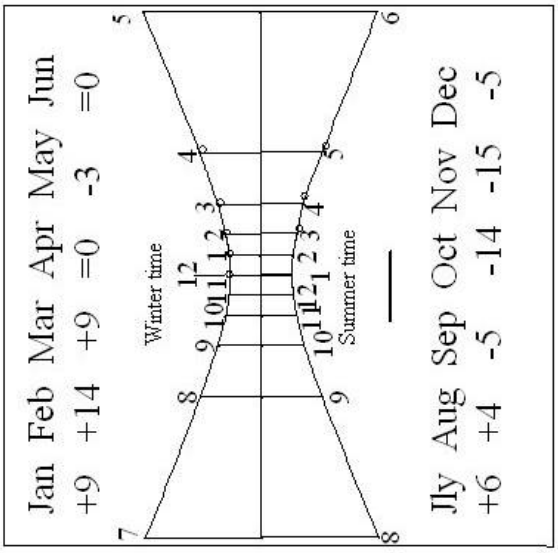
A DRAFTING SHEET FOR HORIZONTAL/VERTICAL DIAL DECLINATION LINES
Both Illustrating Shadows and Illustrating More Shadows describe usage of this.

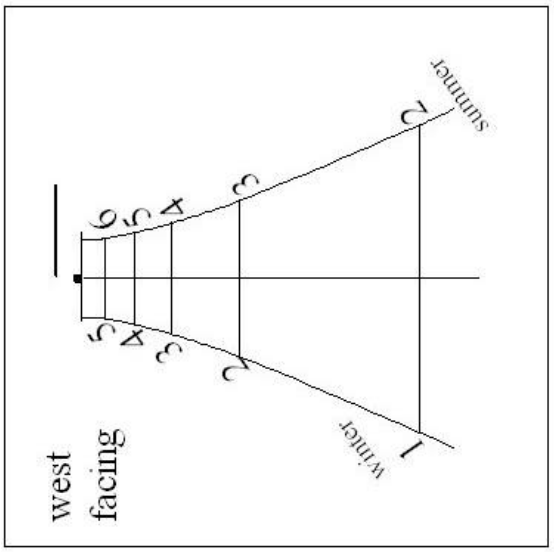
A9.4

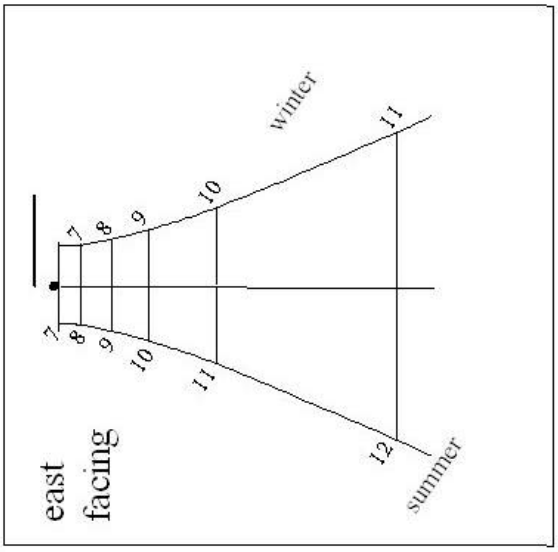


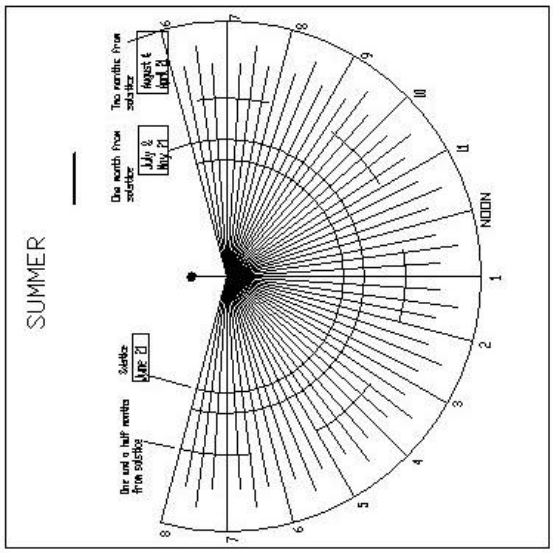


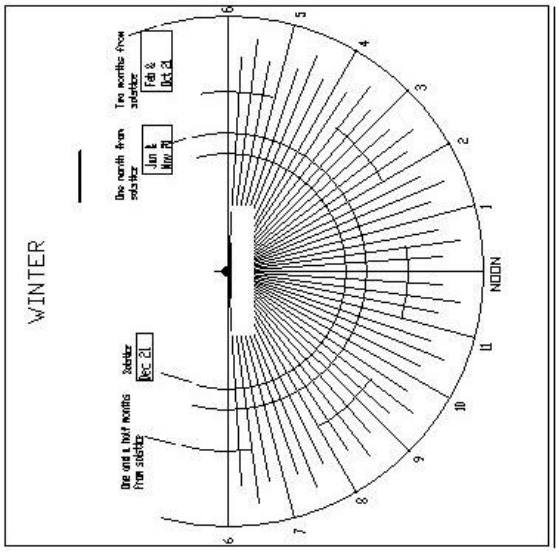

Time is
indicated
+ longitude
+ monthly
+ summer
Jan Feb Mar Apr May Jun
+9 +14 +9 =0 -3 =0
Jly Aug Sep Oct Nov Dec
+6 +4 -5 -14 -15 -5
This dial may be tilted and thus work for any latitude.


Jan Feb Mar Apr May Jun
+9 +14 +9 =0 -3 =0
Winter time
Summer time
Jly Aug Sep Oct Nov Dec
+6 +4 -5 -14 -15 -5


west
facing
winter
summer

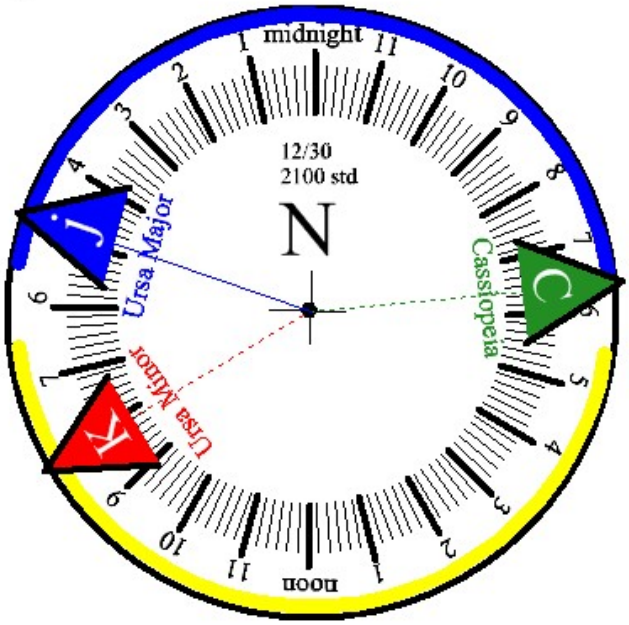

east
facing
winter
summer


SUMMER
NOON

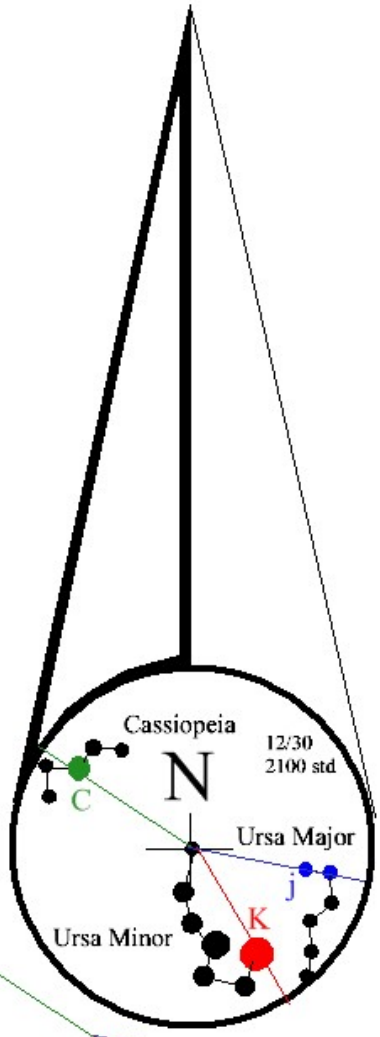

WINTER
NOON

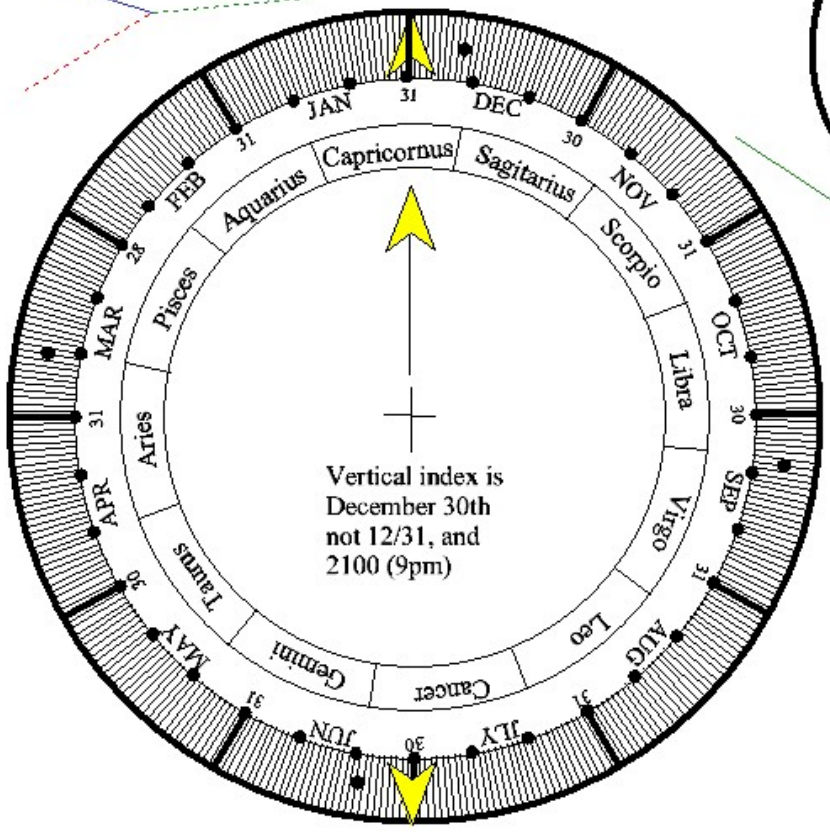
Cassiopea Nocturnal dial

Little Dipper Nocturnal dial Big Dipper Nocturnal dial



The K, CA and j pointers are the mirror image of the actual star map layout (i.e. rotated 180 on its axis)



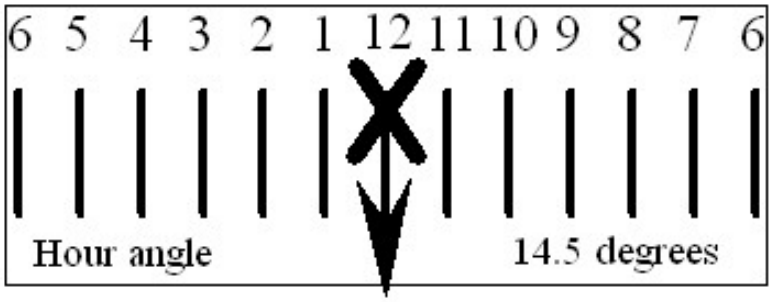


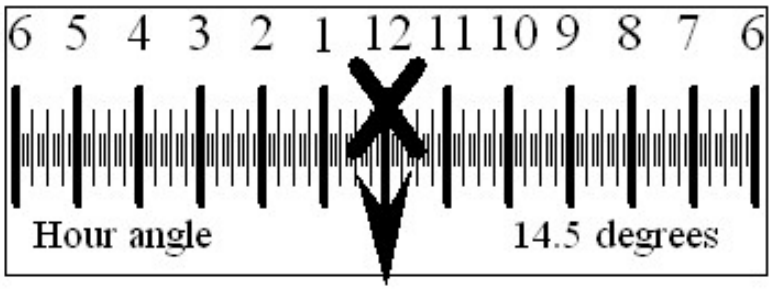
Outer disk is CD size

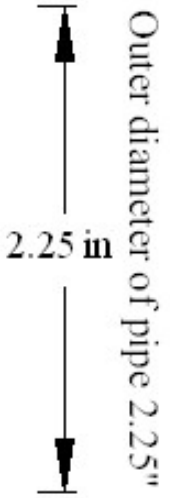
Star	Correction
C	
K	
j	
Correction for star chart variance and observer longitude	

Rotate until a null shadow

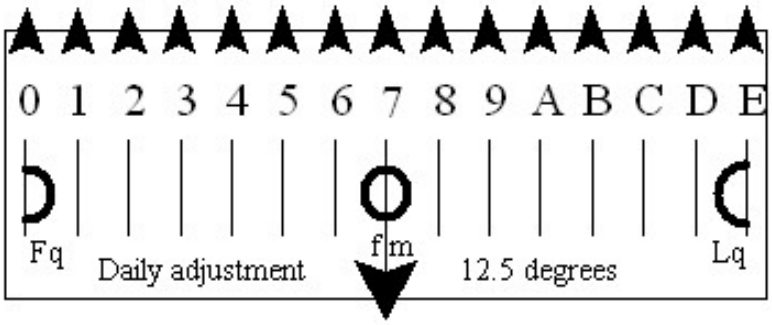
LUNAR DIAL	A9.7

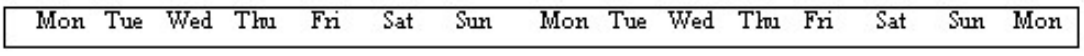


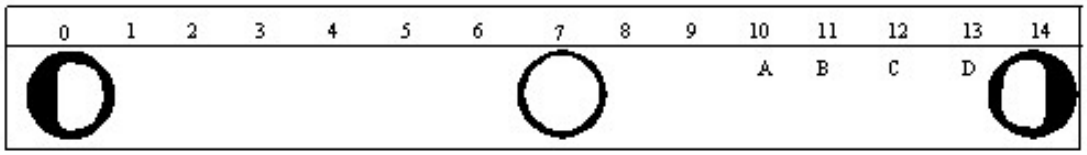




rescale as needed







December 21 and June 21 are placed at the extremes of the canted section.

ECLIPTIC DIAL

A9.8