

Date =

Object =

DR = _____ ° _____ ' _____

UT = Zone Time
plus minus hrs

HeightEye^{above}waterline = ft.

Index Error = on off arc

Watch Error = sec fast slow

UT = Watch plus minus sec

- a = altitude intercept = intercept
- aλ = assumed longitude
- aL = assumed latitude
- AP = assumed position (aL + aλ)
- d = difference in declination from hour to hour
- GHA = Greenwich hour angle (=λ).
- GHA and Declination define GP of body
- GP = geographic position of body, where GHA is equivalent to λ and declination is equivalent to lat.
- Hc = height-corrected (corrected altitude)
- Ho = height observed/observed alt.
- HP = horizontal parallax
- Hp = Height Precomputed (can compare directly with hs)
- hs = height sextant
- IC = Index correction
- LHA = Local Hour Angle = angle from the AP longitude to the GHA, measured westward
- MA = Meridian angle = angle from the AP longitude to the GHA, measured east or west
- MA 10°E = LHA 350°
- MainCorr = refraction+semi-diameter combined correction
- Tab = tabulated
- v = variation in GHA compared to sun
- Z = azimuth angle
- Zn = azimuth

ZT	UT	hs	
: : :	: : :	° ' "	' "

		GHA	v ^s	Dec	d ^s	HP ^a
d	h	°	'	°	'	'
m	s	°	'			
v or d Cor'n						
True Values		°	'	°	'	
		°	'	°	'	

aL = ° N

aλ = ° 'W

If object is east of you,
Zn = Z
If object is west of you,
Zn = 360° - Z

Do one or the other of these calculations for MA, but not both. MA may be abbreviated as "t".

For people in western hemisphere:
If object is west of you,
MA = GHA - aλ

GHA
- aλ
MA = °

If object is east of you,
MA = aλ - GHA

aλ
- GHA
MA = °

TAB Decl ° Same Contrary

Zn = °
Z = °

Tab Hc	°	'	d	'	Z =
Cor'n					
Hc	°	'			
-Ho					
a				A	

hs	°	'	"	"
IC				
hs ^{corr}	°	'	"	
dip				
App. Alt.	°	'	"	
MainCorr.				
HP ¹				
Ho	°	'	"	
-Hc				
a				T