

# Determine Latitude using Polaris

## Using an Artificial Horizon

DR. Latitude	°
DR. Longitude	°
Date of observation	/ /
Time of observation	: :

Hs (Height of sextant)	° . '
IE (Index Error)	° . '
Hs +/- IE=	° . '
AH (Artificial Horizon / 2= Ha	° . '
ACT (Altitude Correction Table)	° . '
(Height observed) <b>Ho</b>	° . '

GHA $\Upsilon$	° . '
GHA $\Upsilon$ increment	° . '
<b>GHA <math>\Upsilon</math> sum</b>	° . '
Ap $\lambda$	° . '
<b>LHA <math>\Upsilon</math></b>	° . '

Ho (copy from Ho above)	° . '
Table 6- Correction (Q) for Polaris using LHA $\Upsilon$	'
<b>Latitude</b> (add or subtract Q correction to Ho)	° . '
<b>Polaris azimuth</b> TABLE 7- azimuth of Polaris Determined by integral latitude figure and LHA $\Upsilon$	°

## Using ocean horizon

DR. Latitude	°
DR. Longitude	°
Date of observation	/ /
Time of observation	: :

Hs (Height of sextant)	° . '
IE (Index Error)	° . '
--Dip	° . '
Ha (Hs +/- IE -- Dip)	° . '
ACT (Altitude Correction Table)	° . '
(Height observed) <b>Ho</b>	° . '

GHA $\Upsilon$	° . '
GHA $\Upsilon$ increment	° . '
<b>GHA <math>\Upsilon</math> sum</b>	° . '
Ap $\lambda$	° . '
<b>LHA <math>\Upsilon</math></b>	° . '

Ho (from above)	° . '
Table 6- Correction (Q) for Polaris using LHA $\Upsilon$	'
<b>Latitude</b> (add or subtract Q correction to Ho)	° . '
<b>Polaris azimuth</b> TABLE 7- azimuth of Polaris Determined by integral latitude figure and LHA $\Upsilon$	°

Get [Table 6- Correction \(Q\) for Polaris](#)  
[Table 7 - azimuth of Polaris](#)

Here- [http://aa.usno.navy.mil/publications/reports/aira17\\_all.pdf#page=898](http://aa.usno.navy.mil/publications/reports/aira17_all.pdf#page=898)