

Determine Latitude using Polaris

Using an Artificial Horizon

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

1- Hs (Height of sextant)	° . '
2- IE (Index Error)	° . '
3- Hs + or-- IE=	° . '
4-AH (Artificial Horizon / 2= Ha) (divide answer in line 3 by 2)	° . '
5- ACT (Altitude Correction Table)	° . '
6- (Height observed) Ho (add result in line 4 to figure in line 5)	° . '

GHA Υ	° . '
GHA Υ increment	° . '
GHA Υ sum	° . '
Ap λ	° . '
LHA Υ	° . '

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

Using ocean horizon

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

1- Hs (Height of sextant)	° . '
2- IE (Index Error)	° . '
3- Dip	° . '
4- Ha (Hs + or-- IE -- Dip)	° . '
5- ACT (Altitude Correction Table)	° . '
6- (Height observed) Ho (add result in line 4 to figure in line 5)	° . '

GHA Υ	° . '
GHA Υ increment	° . '
GHA Υ sum	° . '
Ap λ	° . '
LHA Υ	° . '

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

Get Table 6- Correction (Q) for Polaris
Table 7 - azimuth of Polaris

Here- http://aa.usno.navy.mil/publications/reports/aira18_all.pdf#page=898

My Documents/AAA- My Method/Forms, Formulas & Methods/A- Methods/Determine Latitude using Polaris/Determine Latitude using Polaris.odt

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