

0- Info

a - Date Corrige
2010/05/05 10:18:53 CEST [2010/05/05 08:18:53 UTC]

b - Astre
Lune
Hi : 018.917°[18°55.00][18°55'00.00"][0.33 Rad]
Ha [Hi + I - dip]: +18.9252°

c - Position estimee
PtGeo [lat:040.500°[40°30.00] N, Long:003.500°[03°30.00] E]

d - Erreur sextan et Oeil
collimation : +03.0000'
Dip : +02.4890'
Hauteur oeil: +02.0000 metre

1- Declinaison

Astre LHA =====>> [016.991°[16°59.48] S] [-16.9913°]

Element de calculs:
Astre..... = Lune
Interval de temps (heure)... : 0.314722222178243

DECLINAISON par interval
from : [017.042°[17°02.50] S] à 2010/05/05 10:00:00 CEST [2010/05/05 08:00:00 UTC]
to : [016.882°[16°52.90] S] à 2010/05/05 11:00:00 CEST [2010/05/05 09:00:00 UTC]
gradient (Deg par Heure) : 0.16000000000000014
==> variation (°) Dt * V = 0.0503555555485193

2- Angle Horaire Local

LHA / GHA =====>> 043.754°[43°45.22][43°45'13.26"][0.76 Rad] [+43.7537°]

Astre LHA: 040.254°[40°15.22][40°15'13.26"][0.70 Rad]

Element de calculs:
Astre..... = Lune
Interval de temps (heure)... : 0.314722222178243

LONGITUDE par interval :
from : 035.675°[35°40.50][35°40'30.00"][0.62 Rad] à 2010/05/05 10:00:00 CEST [2010/05/05 08:00:00 UTC]
to : 050.223°[50°13.40][50°13'24.00"][0.88 Rad] à 2010/05/05 11:00:00 CEST [2010/05/05 09:00:00 UTC]
gradient (Deg par Heure) : 14.54833333333334
==> variation (°) Dt * V = 4.5786837962323155

Longitude Estimée: [003.500°[03°30.00] E] (memo: +E / -W) // [+003.500°[03°30.00]]

Calcul = Astre + Longi
= Astre[040.254°[40°15.22][40°15'13.26"][0.70 Rad]] + Longi[[+003.500°[03°30.00]]]
= 043.754°[43°45.22][43°45'13.26"][0.76 Rad]

3- Latitude Estimee

=====>> Lat. estimee :[040.500°[40°30.00] N]

4- Hauteur calculee

=====>> Hc: 019.603°[19°36.16][19°36'09.40"][0.34 Rad]

5- Intercept

=====>> I: [-12.7 Mn][-23.5 Km]

Hi..... : 018.917°[18°55.00][18°55'00.00"][0.33 Rad] [+18.9167°]

Pi : 54.46852777777822

Tables corrections Lune (°) : +00.4748

Correction Collimation sextan : +00.0500° # +03.0000'

Correction1 depression apparente hauteur oeil : +00.0415° # +02.4890'

Correction2 parallaxe : +01.0584° # +63.5013'

Correction3 par type de visee [luneBordSup] : -00.4947° # -29.6811'

Correc. Tot. = -Colli + Corr1 + Corr2 + Corr3 = +33.3092' # +00.5552°

Hv : 019.391°[19°23.49][19°23'29.37"][0.34 Rad] [+19.3915°]

Hv = Hi + Correction Totale = +18.9167° + +00.4748° = 019.391°[19°23.49][19°23'29.37"][0.34 Rad] [+19.3915°]

Intercept: [-12.7 Mn][-23.5 Km]

intercept: (Hv - Hc) * 60.0 = (+19.3915 - (+19.6026)) * 60.0 = (-00.2111) * 60.0 = -12.6671 Mn

I < 0 sens: opposePg

6- Azimut

=====>> Z : 224.593°[224°35.56][224°35'33.71"][3.92 Rad]

Sens: opposePg

Azimut calculé : 135.40730246101324

Element de calcul :

- Angle horaire local : 043.754°[43°45.22][43°45'13.26"][0.76 Rad]

- Sens latitude : Nord

[AHL < 180] => z : z = 360.0 - z = 360.0 - 135.40730246101324 = +224.5927

- z = abs(z) : abs(224.59269753898676)

Azimut corrige : 224.59269753898676