

Eksymän määrittäminen

Päivä	klo =	KrT =
	klk =	krk =
→ ZT =		KrT =
zc =		12h
→ UT =		UT =

TT =	GHA =
± ET =	k ^{ms} =
LMT =	GHA =
ΔT =	± λ =
UT =	LHA =
	± 360°
Aluksen KS =	LHA =

sin H _L =	
HL =	ks =
cos Z =	+eks =
Z _d =	ms=
Z _d =	+er =
ts	ts =

TS = Z, kun τLHA>180° ja TS = 360° - Z, kun τLHA<180°

$$\sin(H_L) = \sin(Lat) \cdot \sin(Dec) + \cos(Lat) \cdot \cos(Dec) \cdot \cos(LHA)$$

$$\cos(Z) = (\sin(Dec) - \sin(Lat) \cdot \sin(HL)) / (\cos(Lat) \cdot \cos(HL))$$

Merkintäpaikka DR	
Lat φ	
Lon λ	
Lon =	-15
ΔT =	
d =	
Dec =	
dk =	
Dec =	

Päivä	klo =	KrT =	Merkintäpaikka DR
	klk =	krk =	Lat φ
→ ZT =		KrT =	Lon λ
zc =		12h	
→ UT =		UT =	Lon = -15
TT =	GHA =	GHA =	ΔT =
± ET =	k ^{ms} =	± λ =	GHA =
LMT =	GHA =	UT =	± 360°
ΔT =	± λ =	LHA =	Aluksen KS =
UT =	LHA =	dk =	LHA =
	± 360°	Dec =	Dec =
Aluksen KS =	LHA =	ts =	ts =

sin H _L =		KS =
HL =	ks =	+eks =
cos Z =	+eks =	MS =
Z _d =	ms=	+er =
Z _d =	+er =	TS =
ts	ts =	

TS = Z, kun τLHA>180° ja TS = 360° - Z, kun τLHA<180°

$$\sin(H_L) = \sin(Lat) \cdot \sin(Dec) + \cos(Lat) \cdot \cos(Dec) \cdot \cos(LHA)$$

$$\cos(Z) = (\sin(Dec) - \sin(Lat) \cdot \sin(HL)) / (\cos(Lat) \cdot \cos(HL))$$