

$$H_s = 20^\circ 19',2$$

$$\varepsilon = 4',2$$

$$\text{Dip} = \underline{\quad - 2',5} +$$

$$H_a = 20^\circ 20',9$$

$$\text{sun correct. LL/UL} = \underline{\quad + 13',6} +$$

$$\mathbf{H_o} = \mathbf{20^\circ 34',5}$$

**La Rochelle**

Date 26/01/2022

UT 10h 40m 19s

$$\text{index error} = + 3'$$

$$+ \text{ non adjust. error} = \underline{+ 1',2}$$

$$\varepsilon = + 4',2$$

$L = 46^\circ 12' \text{ N}$

$G = 004^\circ 31' \text{ W}$

Height of the eye = 2 m

lower limb  upper limb

$$\text{GHA} = 326^\circ 52',8$$

$$+ pp = \underline{10^\circ 04',8} \quad (\text{increment})$$

$$\text{GHA} = 336^\circ 57',6$$

$$G = \underline{004^\circ 31' \text{ W}} \quad G = \text{East} \rightarrow \text{add}$$

$$\text{LHA} = 332^\circ 26',6 \quad G = \text{West} \rightarrow \text{subtract}$$

$LHA < 180^\circ$ ; sun in the **West**;  $P = LHA$

$LHA > 180^\circ$ ; sun in the **East**;  $P = 360 - LHA$

$$\mathbf{P} = \mathbf{27^\circ 33',4} \quad \text{☒ NE / ☐ NW / SE ☐ / ☐ SW}$$

$$(d \uparrow \text{ or } \downarrow = 0',6 \downarrow)$$

$$D = 18^\circ 40',1 \text{ S}$$

$$\text{correc. } d = \underline{0',4}$$

$$\mathbf{D} = \mathbf{18^\circ 39',7 \text{ S}}$$

$$L = 46^\circ 12' \quad \Rightarrow$$

$$D = \underline{18^\circ 39',7}$$

$$(L/D) = 64^\circ 51',7 \quad \Rightarrow$$

$$(T1) \quad \text{LOG COS } L = 9,84020$$

$$(T1) \quad \text{LOG COS } D = 9,97654$$

$$(T2) \quad \text{LOG VERSINE } P = \underline{9,05479} +$$

$$\text{LOG } 2e \text{ T} = 28,87153$$

$$(T3) \quad \text{COS } (L/D) = 0,42481$$

$$(T4) \quad \text{NAT } 2e \text{ T} = \underline{0,07439} -$$

$$\text{SIN } H_c = 0,35042$$

$$(T5) \quad H_c = 20^\circ 30',7$$

$$H_o = 20^\circ 34',5$$

$$H_c = \underline{20^\circ 30',7} -$$

$$\text{intercept} = \mathbf{3',8} \quad (+ \text{ ou } -)$$

L et D **same** name

$\rightarrow (L - D) \text{ or } (D - L)$

L et D **not same** name

$\rightarrow (L + D)$

**Azimuth** (*table*)

**part I :**

$$l_c = 2,00$$

$$d_c = \underline{0,73}$$

$$z_c = 2,73 \quad \text{☐ acute} \quad \text{☒ obtuse}$$

**part II :**

$$Z = 152^\circ,1$$

$$\mathbf{Z_v} = \mathbf{152^\circ,1}$$