

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

$$\varepsilon = \underline{4',2} +$$

$$H_o = 20^\circ 23',4$$

$$1^e \text{ correc.} = + 11',0$$

$$2^e \text{ correc.} = \underline{\quad} + \underline{0',3} +$$

(Table VII)

$$H_v = 20^\circ 34',7$$

La Rochelle

Date 26/01/2022

TU 10h 40m 19s

$$\text{collimation} = + 3'$$

$$+ \text{ excentricité} = \underline{+ 1',2} +$$

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

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

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

$$H \text{ l'oeil} = 2 \text{ m}$$

☒ *bord inférieur* ☐ *bord supérieur*

$$AH_vo = 326^\circ 52',8$$

$$+ pp = \underline{10^\circ 04',8}$$

$$AH_vo = 336^\circ 57',6$$

$$G = \underline{004^\circ 31' \text{ O}} \quad G = \text{East} \rightarrow \text{add.} / G = \text{Ouest} \rightarrow \text{soustr.}$$

$$AH_vg = 332^\circ 26',6$$

$$AH_vg < 180^\circ \rightarrow \text{soleil à l'ouest} \rightarrow P = AH_vg$$

$$AH_vg > 180^\circ \rightarrow \text{soleil à l'est} \rightarrow P = 360^\circ - AH_vg$$

$$P = 27^\circ 33',4 \quad \boxed{\text{NE}} \quad \boxed{\text{NO}} \quad \boxed{\text{SE}} \quad \boxed{\text{SO}}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$H_v = 20^\circ 34',7$$

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

$$\text{intercept} = 4' \quad (+ \text{ ou } -)$$

L et D **same** name

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

L et D **not same** name

$\rightarrow (L + D)$

Azimut (table)

part I :

$$l_c = 2,00$$

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

$$z_c = 2,73$$

☐ **acute** ☒ **obtuse**

part II :

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

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

$$H_i = 50^{\circ}43',8$$

$$\varepsilon = \underline{\quad - 2',2 \quad} +$$

$$H_o = 50^{\circ}41',6$$

$$1e \text{ correc.} = + 11',7$$

$$\underline{2e \text{ correc.}} = \underline{\quad + 0',2 \quad} +$$

(Table VII)

$$H_v = 50^{\circ}53',5$$

Madagascar

Date 05/02/2022

TU 11h 55m 29s

$$\text{collimation} = - 4'$$

$$+ \text{ excentricité} = \underline{\quad + 1',8 \quad} +$$

$$\varepsilon = - 2',2$$

$$L = 30^{\circ}24' \text{ S}$$

$$G = 044^{\circ}13' \text{ E}$$

$$H \text{ l'oeil} = 4\text{m}$$

☒ *bord inférieur* ☐ *bord supérieur*

$$AH_{vo} = 341^{\circ}30',6$$

$$+ pp = \underline{13^{\circ}52',3}$$

$$AH_{vo} = 355^{\circ}22',9$$

G = Ouest → soustr.

$$G = \underline{044^{\circ}13' \text{ E}}$$

G = Est → add.

$$AH_{vg} = 039^{\circ}35',9$$

$$AH_{vg} < 180^{\circ} \Rightarrow \text{soleil à l'ouest} \Rightarrow P = AH_{vg}$$

$$AH_{vg} > 180^{\circ} \Rightarrow \text{soleil à l'est} \Rightarrow P = 360^{\circ} - AH_{vg}$$

$$P = \mathbf{039^{\circ}35',9} \quad \square \text{ NE} \quad \square \text{ NO} \quad \square \text{ SE} \quad \square \text{ SO}$$

$$(d \uparrow \text{ ou } \downarrow = 0',8 \downarrow)$$

$$D = 15^{\circ}51',4 \text{ S}$$

$$\text{correc. } d = \underline{\quad 0',7 \quad}$$

$$D = \mathbf{15^{\circ}50',7 \text{ S}}$$

$$L = 30^{\circ}24'$$

⇒

$$D = \underline{15^{\circ}50',7 \text{ +/-}}$$

$$(L/D) = 14^{\circ}33',3$$

⇒

$$(T1) \quad \text{LOG COS } L = 9,93577$$

$$(T1) \quad \text{LOG COS } D = 9,98318$$

$$(T2) \quad \text{LOG SINUS VERSE } P = \underline{9,36072} +$$

$$\text{LOG } 2e \text{ T} = 29,27967$$

$$(T3) \quad \text{COS } (L/D) = 0,96791$$

$$(T4) \quad \text{NAT } 2e \text{ T} = \underline{0,19040} -$$

$$\text{SIN } H_c = 0,77751$$

$$(T5) \quad H_c = 51^{\circ}02'$$

$$H_o = 50^{\circ}53',4$$

$$H_c = \underline{51^{\circ}02',0} -$$

$$\text{intercept} = -8',6 \quad (+ \text{ ou } -)$$

L et D same name

→ (L - D) ou (D - L)

L et D not same name

→ (L + D)

Azimut (*table*)

part I :

$$l_c = 0,71$$

$$d_c = \underline{0,45}$$

$$z_c = 0,26$$

☐ *acute* ☒ *obtuse*

part II :

$$Z = 102,5^{\circ}$$

$$Z_v = 282,5^{\circ}$$

$$H_i = 36^{\circ}54',2$$

$$\varepsilon = \underline{2',7} +$$

$$H_o = 36^{\circ}56',9$$

$$1^{e} \text{ correc.} = + 12',3$$

$$2^{e} \text{ correc.} = \underline{- 0',2} +$$

(Table VII)

$$H_v = 37^{\circ}09',0$$

Perth

Date 16/08/2022

TU 07h 14m 35s

$$\text{collimation} = +1'$$

$$+ \text{ excentricité} = \underline{+1',7} +$$

$$\varepsilon = \underline{2',7}$$

$$L = 27^{\circ}25' \text{ S}$$

$$G = 106^{\circ}39' \text{ E}$$

$$H \text{ l'oeil} = 2 \text{ m}$$

☒ *bord inférieur* ☐ *bord supérieur*

$$AH_vo = 283^{\circ}54',8$$

$$+ pp = \underline{03^{\circ}38',8}$$

$$AH_vo = 287^{\circ}33',6 \quad G = \text{Ouest} \rightarrow \text{soustr.}$$

$$G = \underline{106^{\circ}39' \text{ E}} \quad G = \text{Est} \rightarrow \text{add.}$$

$$AH_{vg} = 034^{\circ}12',6$$

$$AH_{vg} < 180^{\circ}; \text{ soleil à l'ouest}; P = AH_{vg}$$

$$AH_{vg} > 180^{\circ}; \text{ soleil à l'est}; P = 360 - AH_{vg}$$

$$P = \underline{034^{\circ}12',6} \quad \square \text{ NE} \quad \square \text{ NO} \quad \square \text{ SE} \quad \square \text{ SO}$$

$$(d \uparrow \text{ or } \downarrow = 0',8 \downarrow)$$

$$D = 13^{\circ}42',9 \text{ N}$$

$$\text{corr. } d = \underline{0',2} \downarrow$$

$$D = \underline{13^{\circ}42',7 \text{ N}}$$

$$L = 27^{\circ}25' \Rightarrow$$

$$D = \underline{13^{\circ}42',7 \text{ +/-}}$$

$$(L/D) = 41^{\circ}07',7 \Rightarrow$$

$$(T1) \quad \text{LOG COS } L = 9,94826$$

$$(T1) \quad \text{LOG COS } D = 9,98744$$

$$(T2) \quad \text{LOG SINUS VERSUS } P = \underline{9,23808} +$$

$$\text{LOG } 2e \text{ T} = 29,17378$$

$$(T3) \quad \text{COS } (L/D) = 0,75324$$

$$(T4) \quad \text{NAT } 2e \text{ T} = \underline{0,14920} -$$

$$\text{SIN } H_c = 0,60404$$

$$(T5) \quad H_c = 37^{\circ}09',5$$

$$H_o = 37^{\circ}09',0$$

$$H_c = \underline{37^{\circ}09',5} -$$

$$\text{intercept} = \underline{-0',5} \quad (+ \text{ ou } -)$$

L et D same name

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

L et D not same name

$\rightarrow (L + D)$

Azimuth (table)

part I :

$$l_c = 0,76$$

$$d_c = \underline{0,43}$$

$$z_c = 1,19 \quad \square \text{ acute} \quad \square \text{ obtuse}$$

part II :

$$Z = 136,5^{\circ}$$

$$Z_v = 316,5^{\circ}$$

$$H_i = 27^{\circ}31',6$$

$$\varepsilon = \underline{\quad - 1',5 \quad} +$$

$$H_o = 27^{\circ}30',1$$

$$1^{\text{e}} \text{ correc.} = + 10',8$$

$$2^{\text{e}} \text{ correc.} = \underline{\quad + 0',3 \quad} +$$

(Table VII)

$$H_v = 27^{\circ}41',2$$

San Francisco

Date 06 / 01 / 2022

TU 18h 34m 54s

$$\text{collimation} = - 3'$$

$$+ \text{ excentricité} = \underline{\quad + 1',5 \quad} +$$

$$\varepsilon = - 1',5$$

$$L = 34^{\circ}40' \text{ N}$$

$$G = 123^{\circ}15' \text{ O}$$

$$H \text{ l'oeil} = 4 \text{ m}$$

☒ *bord inférieur* ☐ *bord supérieur*

$$AH_vo = 088^{\circ}31'$$

$$+ pp = \underline{08^{\circ}43',5}$$

$$AH_vo = 097^{\circ}14',5 \quad G = \text{Ouest} \rightarrow \text{soustr.}$$

$$G = \underline{123^{\circ}15' \text{ O}} \quad G = \text{Est} \rightarrow \text{add.}$$

$$AH_{vg} = 333^{\circ}59',5$$

$$AH_{vg} < 180^{\circ}; \text{ soleil à l'ouest}; P = AH_{vg}$$

$$AH_{vg} > 180^{\circ}; \text{ soleil à l'est}; P = 360 - AH_{vg}$$

$$P = \mathbf{026^{\circ}00',5} \quad \boxed{\text{NE}} \quad \boxed{\text{NO}} \quad \boxed{\text{SE}} \quad \boxed{\text{SO}}$$

$$(d \uparrow \text{ or } \downarrow = 0',3 \downarrow)$$

$$D = 22^{\circ}25',9 \text{ S}$$

$$\text{corr. } d = \underline{\quad 0',2 \downarrow \quad}$$

$$\mathbf{D = 22^{\circ}25',7 \text{ S}}$$

$$L = 34^{\circ}40' \quad \Rightarrow$$

$$D = \underline{22^{\circ}25',7 \text{ +/-}}$$

$$(L/D) = 57^{\circ}05',7 \quad \Rightarrow$$

$$(T1) \quad \text{LOG COS } L = 9,91512$$

$$(T1) \quad \text{LOG COS } D = 9,96588$$

$$(T2) \quad \text{LOG SINUS VERSUS } P = \underline{9,00548} +$$

$$\text{LOG } 2^{\text{e}} T = 28,88648$$

$$(T3) \quad \text{COS } (L/D) = 0,54325$$

$$(T4) \quad \text{NAT } 2^{\text{e}} T = \underline{0,07700} -$$

$$\text{SIN } H_c = 0,46625$$

$$(T5) \quad H_c = 27^{\circ}47',5$$

$$H_v = 27^{\circ}41',2$$

$$H_c = \underline{27^{\circ}47',5} -$$

$$\text{intercept} = -6',3 \quad (+ \text{ ou } -)$$

L et D **same** name

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

L et D **not same** name

$\rightarrow (L + D)$

Azimut (*table*)

part I :

$$l_c = 1,42$$

$$d_c = \underline{0,94}$$

$$z_c = 2,36 \quad \boxed{\text{acute}} \quad \boxed{\text{obtuse}}$$

part II :

$$Z = 152,6^{\circ}$$

$$Z_v = 152,6^{\circ}$$

$$H_i = 52^{\circ}18'$$

$$\varepsilon = \underline{2',8} +$$

$$H_o = 52^{\circ}20',8$$

$$1e\ correcc. = + 12',8$$

$$2e\ correcc. = \underline{- 0',2} +$$

(Table VII)

$$H_v = 52^{\circ}33',4$$

Galapagos

Date 06 / 06 / 2022

TU 15h 58m 54s

$$collimation = + 1'$$

$$+ excentricité = \underline{+1',8} +$$

$$\varepsilon = 2',8$$

$$L = 03^{\circ}58' S$$

$$G = 086^{\circ}54' O$$

$$H\ l'oeil = 2\ m$$

☒ *bord inférieur* ☐ *bord supérieur*

$$AH_vo = 045^{\circ}18',9$$

$$+ pp = \underline{14^{\circ}43',5}$$

$$AH_vo = 060^{\circ}02',4 \quad G = \text{Ouest} \rightarrow \text{soustr.}$$

$$G = \underline{086^{\circ}54' O} \quad G = \text{Est} \rightarrow \text{add.}$$

$$AH_{vg} = 333^{\circ}08',4$$

$$AH_{vg} < 180^{\circ}; \text{soleil à l'ouest}; P = AH_{vg}$$

$$AH_{vg} > 180^{\circ}; \text{soleil à l'est}; P = 360 - AH_{vg}$$

$$P = \mathbf{026^{\circ}51',6} \quad \square \text{ NE} \quad \square \text{ NO} \quad \square \text{ SE} \quad \square \text{ SO}$$

$$(d \uparrow \text{ or } \downarrow = 0',3 \uparrow)$$

$$D = 22^{\circ}41',5 N$$

$$corr. d = \underline{0',3} \uparrow$$

$$\mathbf{D = 22^{\circ}41',8 N}$$

$$L = 03^{\circ}58'$$

$\Rightarrow$

$$D = \underline{22^{\circ}41',8 \pm}$$

$$(L/D) = 26^{\circ}39',8$$

$\Rightarrow$

$$(T1) \quad \text{LOG COS } L = 9,99896$$

$$(T1) \quad \text{LOG COS } D = 9,96499$$

$$(T2) \quad \text{LOG SINUS VERSUS } P = \underline{9,03297} +$$

$$\text{LOG } 2e\ T = 28,99692$$

$$(T3) \quad \text{COS } (L/D) = 0,89366$$

$$(T4) \quad \text{NAT } 2e\ T = \underline{0,09929}$$

$$\text{SIN } H_c = 0,79437$$

$$(T5) \quad H_c = 52^{\circ}35',7$$

$$H_v = 52^{\circ}33',4$$

$$H_c = \underline{52^{\circ}35',7 -}$$

$$\text{intercept} = \underline{-2',3} \quad (+ \text{ ou } -)$$

L et D same name

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

L et D not same name

$\rightarrow (L + D)$

Azimuth (table)

part I :

$$l_c = 0,14$$

$$d_c = \underline{0,93}$$

$$z_c = 1,07$$

☐ acute ☒ obtuse

part II :

$$Z = 137^{\circ}$$

$$Z_v = 043^{\circ}$$

$$H_i = 42^{\circ}11',5$$

$$\varepsilon = \underline{3',9} +$$

$$H_o = 42^{\circ}15',4$$

$$1e\ correcc. = + 11',5$$

$$2e\ correcc. = \underline{\quad + 0',1 \quad} +$$

(Table VII)

$$H_v = 42^{\circ}27',0$$

Tokyo

Date 06 / 03 / 2022

TU 20h 16m 54s

$$collimation = + 2'$$

$$+ excentricité = \underline{+1',9} +$$

$$\varepsilon = 3',9$$

$$L = 33^{\circ}21' N$$

$$G = 150^{\circ}18' O$$

$$H\ l'oeil = 4\ m$$

☒ *bord inférieur* ☐ *bord supérieur*

$$AH_vo = 117^{\circ}12',5$$

$$+ pp = \underline{4^{\circ}13',5}$$

$$AH_vo = 121^{\circ}26',0 \quad G = \text{Ouest} \rightarrow \text{soustr.}$$

$$G = \underline{150^{\circ}18' O} \quad G = \text{Est} \rightarrow \text{add.}$$

$$AH_{vg} = 331^{\circ}08'$$

$$AH_{vg} < 180^{\circ}; \text{soleil à l'ouest}; P = AH_{vg}$$

$$AH_{vg} > 180^{\circ}; \text{soleil à l'est}; P = 360 - AH_{vg}$$

$$P = \mathbf{028^{\circ}52',0} \quad \boxed{\times} \text{ NE} \quad \boxed{\square} \text{ NO} \quad \boxed{\square} \text{ SE} \quad \boxed{\square} \text{ SO}$$

$$(d \uparrow \text{ or } \downarrow = 1' \downarrow)$$

$$D = 05^{\circ}26',1\ S$$

$$corr. d = \underline{\quad 0',3 \quad} \downarrow$$

$$\mathbf{D = 05^{\circ}25',8\ S}$$

$$L = 33^{\circ}21'$$

$\Rightarrow$

$$D = \underline{05^{\circ}25',8 \ +/-}$$

$$(L/D) = 38^{\circ}46',8$$

$\Rightarrow$

$$(T1) \quad \text{LOG COS } L = 9,92186$$

$$(T1) \quad \text{LOG COS } D = 9,99805$$

$$(T2) \quad \text{LOG SINUS VERSUS } P = \underline{9,09431} +$$

$$\text{LOG } 2e\ T = 29,01422$$

$$(T3) \quad \text{COS } (L/D) = 0,77955$$

$$(T4) \quad \text{NAT } 2e\ T = \underline{0,10330}$$

$$\text{SIN } H_c = 0,67625$$

$$(T5) \quad H_c = 42^{\circ}33'$$

$$H_v = 42^{\circ}27'$$

$$H_c = \underline{42^{\circ}33'} -$$

$$\text{intercept} = \mathbf{-6'} \quad (+ \text{ ou } -)$$

L et D same name

$\rightarrow (L - D)$ ou $(D - L)$

L et D not same name

$\rightarrow (L + D)$

Azimuth (table)

part I :

$$l_c = 1,19$$

$$d_c = \underline{0,20}$$

$$z_c = 1,39$$

☐ *acute* ☒ *obtuse*

part II :

$$Z = 139,5^{\circ}$$

$$\mathbf{Z_v = 139,5^{\circ}}$$

$$H_i = 56^{\circ}17',5$$

$$\varepsilon = \underline{\quad - 0',4 \quad} +$$

$$H_o = 56^{\circ}17',1$$

$$1^{\text{e}} \text{ correc.} = + 12',9$$

$$2^{\text{e}} \text{ correc.} = \underline{\quad - 0',1 \quad} +$$

(Table VII)

$$H_v = 56^{\circ}29',9$$

Pointe -à- Pitre

Date 26 / 09 / 2022

TU 13h 54m 01s

$$\text{collimation} = - 2'$$

$$+ \text{ excentricité} = \underline{\quad + 1',6 \quad} +$$

$$\varepsilon = - 0',4$$

$$L = 16^{\circ}34' \text{ N}$$

$$G = 059^{\circ}25' \text{ O}$$

$$H \text{ l'oeil} = 2 \text{ m}$$

☒ *bord inférieur* ☐ *bord supérieur*

$$AH_vo = 017^{\circ}10',2$$

$$+ pp = \underline{13^{\circ}30',3}$$

$$AH_vo = 030^{\circ}40',5 \quad G = \text{Ouest} \rightarrow \text{soustr.}$$

$$G = \underline{059^{\circ}25' \text{ O}} \quad G = \text{Est} \rightarrow \text{add.}$$

$$AH_{vg} = 331^{\circ}15',5$$

$$AH_{vg} < 180^{\circ}; \text{ soleil à l'ouest}; P = AH_{vg}$$

$$AH_{vg} > 180^{\circ}; \text{ soleil à l'est}; P = 360 - AH_{vg}$$

$$P = 028^{\circ}44',5 \quad \boxed{\times} \text{ NE} \quad \boxed{\square} \text{ NO} \quad \boxed{\square} \text{ SE} \quad \boxed{\square} \text{ SO}$$

$$(d \uparrow \text{ or } \downarrow = 1' \uparrow)$$

$$D = 01^{\circ}21',8 \text{ S}$$

$$\text{corr. } d = \underline{\quad 0',9 \quad} \uparrow$$

$$D = 01^{\circ}22',7 \text{ S}$$

$$L = 16^{\circ}34'$$

$\Rightarrow$

$$D = \underline{01^{\circ}22',7 \text{ +/-}}$$

$$(L/D) = 17^{\circ}56',7$$

$\Rightarrow$

$$(T1) \quad \text{LOG COS } L = 9,98159$$

$$(T1) \quad \text{LOG COS } D = 9,99987$$

$$(T2) \quad \text{LOG SINUS VERSUS } P = \underline{9,09062} +$$

$$\text{LOG } 2e \text{ T} = 29,07208$$

$$(T3) \quad \text{COS } (L/D) = 0,95135$$

$$(T4) \quad \text{NAT } 2e \text{ T} = \underline{0,1180}$$

$$\text{SIN } H_c = 0,83335$$

$$(T5) \quad H_c = 56^{\circ}26',6$$

$$H_v = 56^{\circ}29',9$$

$$H_c = \underline{56^{\circ}26',6} -$$

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

L et D same name

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

L et D not same name

$\rightarrow (L + D)$

Azimuth (table)

part I :

$$l_c = 0,54$$

$$d_c = \underline{0,05}$$

$$z_c = 0,59$$

☐ acute ☒ obtuse

part II :

$$Z = 119,5^{\circ}$$

$$Z_v = 119,5^{\circ}$$

$$H_i = 46^{\circ}07',3$$

$$\varepsilon = \underline{\quad 7' \quad} +$$

$$H_o = 46^{\circ}14',3$$

$$1^{\text{e}} \text{ correc.} = + 11',6$$

$$2^{\text{e}} \text{ correc.} = \underline{\quad - 0',2 \quad} +$$

(Table VII)

$$H_v = 46^{\circ}25',7$$

Rotterdam

Date 11 / 06 / 2022

TU 08h 54m 01s

$$\begin{aligned} \text{collimation} &= + 5' \\ + \text{excentricité} &= \underline{+ 2'} + \\ \varepsilon &= 7' \end{aligned}$$

$$L = 52^{\circ}08' \text{ N}$$

$$G = 003^{\circ}54' \text{ E}$$

$$H \text{ l'oeil} = 4 \text{ m}$$

☒ *bord inférieur* ☐ *bord supérieur*

$$AH_vo = 300^{\circ}05',2$$

$$+ pp = \underline{13^{\circ}30',3}$$

$$AH_vo = 313^{\circ}35',5 \quad G = \text{Ouest} \rightarrow \text{soustr.}$$

$$G = \underline{003^{\circ}54' \text{ E}} \quad G = \text{Est} \rightarrow \text{add.}$$

$$AH_{vg} = 317^{\circ}29',5$$

$$AH_{vg} < 180^{\circ}; \text{ soleil à l'ouest}; P = AH_{vg}$$

$$AH_{vg} > 180^{\circ}; \text{ soleil à l'est}; P = 360 - AH_{vg}$$

$$P = 042^{\circ}30',5 \quad \begin{matrix} \text{☒ NE} & \text{☐ NO} & \text{☐ SE} & \text{☐ SO} \end{matrix}$$

$$(d \uparrow \text{ or } \downarrow = 0',2 \uparrow)$$

$$D = 23^{\circ}05',4 \text{ N}$$

$$\text{corr. } d = \underline{\quad 0',2 \quad} \uparrow$$

$$D = 23^{\circ}05',6 \text{ N}$$

$$L = 52^{\circ}08' \quad \Rightarrow$$

$$D = \underline{23^{\circ}05',6 \text{ +/-}}$$

$$(L/D) = 29^{\circ}02',4 \quad \Rightarrow$$

$$(T1) \quad \text{LOG COS } L = 9,78805$$

$$(T1) \quad \text{LOG COS } D = 9,96373$$

$$(T2) \quad \text{LOG SINUS VERSUS } P = \underline{9,41966} +$$

$$\text{LOG } 2e \text{ T} = 29,17144$$

$$(T3) \quad \text{COS } (L/D) = 0,87428$$

$$(T4) \quad \text{NAT } 2e \text{ T} = \underline{0,14840}$$

$$\text{SIN } H_c = 0,72588$$

$$(T5) \quad H_c = 46^{\circ}32',5$$

$$H_v = 46^{\circ}25',8$$

$$H_c = \underline{46^{\circ}32',5} -$$

$$\text{intercept} = - 6',7 \quad (+ \text{ ou } -)$$

L et D same name

→ (L - D) ou (D - L)

L et D not same name

→ (L + D)

Azimuth (table)

part I :

$$l_c = 1,40$$

$$d_c = \underline{0,63}$$

$$z_c = 0,77 \quad \begin{matrix} \text{☐ acute} & \text{☒ obtuse} \end{matrix}$$

part II :

$$Z = 115,3^{\circ}$$

$$Z_v = 115,3^{\circ}$$