

JACHTNAVIGÁTOR №4
* **ORTODRÓM HAJÓZÁS I. ***

1 Indulási és érkezési pozíció

LAT_a ° ' [] LAT_b ° ' []
LON_a ° ' [] LON_b ° ' []

Dátum	Navigátor

2 Ortodróm távolság

$$\cos D_o = \cos LAT_a \times \cos LAT_b \times \cos dLON \pm \sin LAT_a \times \sin LAT_b = \quad \times \quad \times \quad \pm \quad \times \quad =$$

$$D_o = \quad \times 60' = \quad \text{tmf}$$

3 Indulási útirány

$$\cos C_1 = \frac{\sin LAT_b - \cos D_o \times \sin LAT_a}{\sin D_o \times \cos LAT_a} = \frac{- \quad \times}{\quad \times} = \quad = \quad C_1 = [\quad] \quad \circ [\quad] = \quad \circ$$

4 Érkezési útirány

$$\cos C_2' = \frac{\sin LAT_a - \cos D_o \times \sin LAT_b}{\sin D_o \times \cos LAT_b} = \frac{- \quad \times}{\quad \times} = \quad = \quad C_2' = [\quad] \quad \circ [\quad] = \quad \circ$$

$$C_2 = 180^\circ - C_2' = \quad \circ$$

5 Vertex szélessége

$$\cos LAT_v = \cos LAT_a \times \sin C_1 = \quad \times \quad =$$

$$LAT_v = \quad \circ [\quad] = \quad \circ \quad ' [\quad]$$

7 Vertex pozíciója	LAT _v ° ' []	
	LON _v ° ' []	

6 Vertex hosszúsága

$$\sin dLON_{v1} = \frac{\cos C_1}{\sin LAT_v} = \quad =$$

LON _a + dLON _{v1}		8 Vertex távolsága az indulási ponttól
LON _v		sin D _{v1} = cos LAT _a × sin dLON _{v1} =
		D _{v1} = × 60' = tmf

9 Csomópontok

dLON _o = °		LON _v	[]	LON _v	[]
n = 1 dLON _x = 1 × dLON _o = °	+	dLON _x		- dLON _x	
tgLAT _{x1} = cos dLON _x × tgLAT _v = ×	=	LON _{x1a}		LON _{x1b}	
		LAT _{x1}		LAT _{x1}	
n = 2 dLON _x = 2 × dLON _o = °	+	dLON _x		- dLON _x	
tgLAT _{x2} = cos dLON _x × tgLAT _v = ×	=	LON _{x2a}		LON _{x2b}	
		LAT _{x2}		LAT _{x2}	
n = 3 dLON _x = 3 × dLON _o = °	+	dLON _x		- dLON _x	
tgLAT _{x3} = cos dLON _x × tgLAT _v = ×	=	LON _{x3a}		LON _{x3b}	
		LAT _{x3}		LAT _{x3}	
n = 4 dLON _x = 4 × dLON _o = °	+	dLON _x		- dLON _x	
tgLAT _{x4} = cos dLON _x × tgLAT _v = ×	=	LON _{x4a}		LON _{x4b}	
		LAT _{x4}		LAT _{x4}	
n = 5 dLON _x = 5 × dLON _o = °	+	dLON _x		- dLON _x	
tgLAT _{x5} = cos dLON _x × tgLAT _v = ×	=	LON _{x5a}		LON _{x5b}	
		LAT _{x5}		LAT _{x5}	
n = 6 dLON _x = 6 × dLON _o = °	+	dLON _x		- dLON _x	
tgLAT _{x6} = cos dLON _x × tgLAT _v = ×	=	LON _{x6a}		LON _{x6b}	
		LAT _{x6}		LAT _{x6}	
n = 7 dLON _x = 7 × dLON _o = °	+	dLON _x		- dLON _x	
tgLAT _{x7} = cos dLON _x × tgLAT _v = ×	=	LON _{x7a}		LON _{x7b}	
		LAT _{x7}		LAT _{x7}	