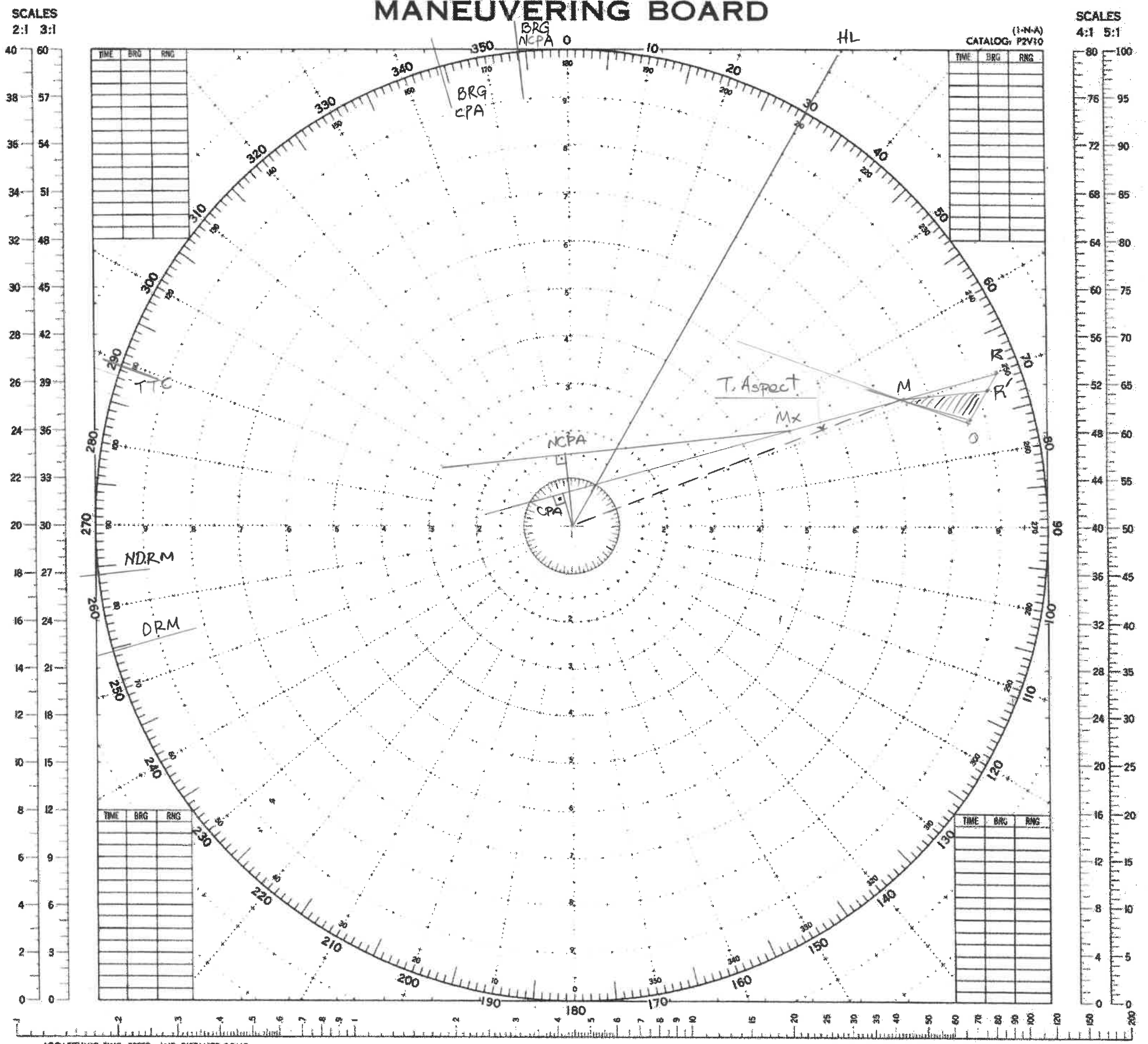


Άσκηση 1

MANEUVERING BOARD



TO FIND SPEED. place one point of dividers on stopped time and second point on distance in miles. Without changing spread of dividers or right-left relationship of points, place first point on 60; second point will then indicate speed in knots.

TO FIND DISTANCE OR TIME. place one point of dividers on 60 and second point on speed in knots. Without changing spread of dividers or right-angle relationship of points, place first point on time; second point will then indicate distance in miles. Or, place second point on distance in miles; first point will then indicate time.

Actual distance and speed units can be used in the same way as indicated units.

USE OF 3-SCALE MONOGRAM

Given any two corresponding quantities, solve for third by laying rule through points on proper scales and read intersection on third scale.

Prepared and published by the
DEFENSE MAPPING AGENCY HYDROGRAPHIC/TOPOGRAPHIC CENTER
Washington, D.C. 20315-0030

Users should refer corrections, additions, and comments for improving this product to: DIRECTOR, DEFENSE MAPPING AGENCY, ATTN: FR, 8673 IEE HIGHWAY, FAIRFAX, VA 22031-2137.

DISTANCE in yards.
Relative or actual.
DISTANCE in miles.

1ST ED., APR. 1920
6TH ED., JAN. 1970

1ST ED., APR. 1920
6TH ED., JAN. 1970

10-inch diameter

Pad of 50 sheets

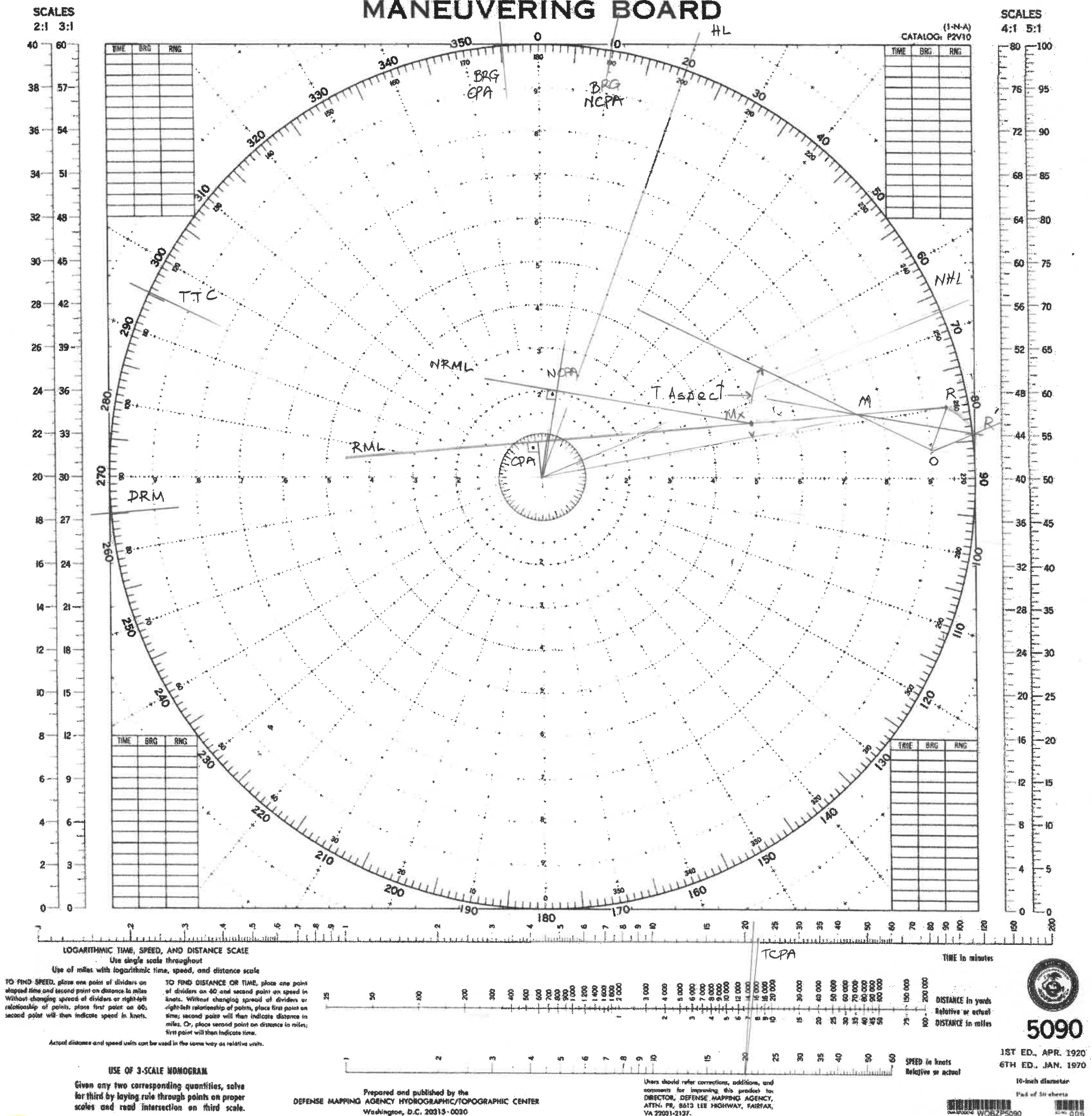


006

α) DRM = $255^\circ T$ / RS = 20 kts // β) CPA = 0,7 / BRG CPA = $344^\circ T$ // γ) $M \rightarrow CPA = 7,5 \text{ N.M.} \rightarrow T = \frac{D}{RS} = \frac{7,5}{20} = 0,375 \text{ hrs}$
 $\Rightarrow 0,375 \times 60' = 22,5 \text{ min} \approx 22 \text{ min} \Rightarrow TCPA = 09^{18'+22'} = 09^{40} \text{ LT}$ // δ) TTC = $289^\circ T$ / TTS = 15 kts
ε) BRG $09^{18} \pm 180^\circ = 249^\circ T - 289^\circ = -40^\circ A \Rightarrow 0 \text{ σόκας μας δείχνει το κέντρο για περίπου 40' προς τα εμπρός} //$
σζ) Νέο Ταχύτητα = 7,0 kts / BRG NCPA = $354^\circ T$ // ζ) $M \rightarrow M_x = 2,5 \text{ N.M.} + M_x \rightarrow NCPA = 4,7 \text{ N.M.} \Rightarrow$
 $M \rightarrow NCPA = 7,2 \text{ N.M.} \Rightarrow N TCPA = T = \frac{D}{RS} = \frac{7,2}{20} = 0,36 \text{ hrs} \times 60 = 21,6 \text{ min} \approx 22 \text{ min} \Rightarrow 09^{18'+22'} = 09^{40} \text{ LT}$

Άσκηση 2

MANEUVERING BOARD



α. $DRM = 265^\circ T$ / $RS = 20.0 kts$

β. $CPA = 0.8 N.M.$ / $M \rightarrow CPA = 7.5 N.M \Rightarrow T CPA = 22 min \rightarrow 10^{40} + 22 = 11^{10} LT$ / $BRG CPA = 355^\circ T$

γ. $TTC = 295^\circ T$ / $TTS = 18.0 kts$

δ. $BRG \rightarrow 079^\circ + 180^\circ \Rightarrow 259^\circ - 295^\circ = -36^\circ$ Αρα μας βλέπει σε $36^\circ A$ (Μας δείχνει κόκκινο από χείρισμα εμπρός)

ε. $Mx = 5.5 N.M \rightarrow NCPA = 2.0 NM = NRML$ μεταφορά από M προς τα πίσω και συμπίεση νέου σημείου ORM

Αρα OR' n νέα τοποία = $067^\circ T$ και $BRG NCPA = 010^\circ T$

ς. $M - NCPA = 7.2 N.M \rightarrow 21 min \Rightarrow 11^{09} LT$