

## Charting Quick Reference

This is sized for 5 inch x 8 inch paper

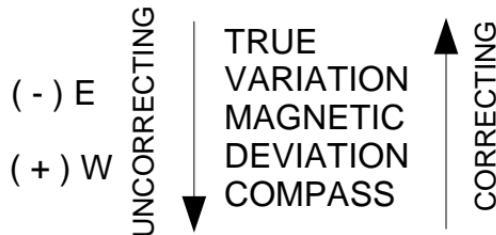
I use 65 lb Cover or Card Stock of a contrasting color

Contrasting color makes the sheet easier to find

The pages are rotated from each other so printing will require 2 passes

Feedback: [mike@captnmike.com](mailto:mike@captnmike.com)

# Navigators Quick Reference Card



025 or 025T – TRUE

025M – MAGNETIC

C 090T

S 10.5

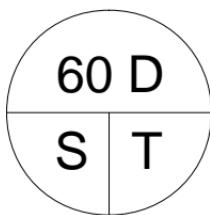
025C – COMPASS

TIME = 4 DIGITS (24HR)

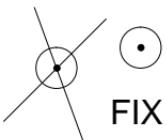
COURSE = 3 DIGITS ( 000 (common) or 000.0 )

S 10 or S 10.5 = SPEED ( 0.1 KTS MOST APPS)

RELATIVE BEARING + SHIPS HEADING = ACTUAL



Distance  
Speed  
Time (Min)



FIX



DR



ESTIMATED  
POSITION

Speed (S):  $S = (60 \times D) / T$

Speed in Knots or Nautical Miles per Hour

1 nm = 1 Minute of Latitude = 6000 ft = 2000 yards (Many Calculations)

Time (T):  $T = (60 \times D) / S$

Time is always in minutes

60 nm = 1 Degree of Latitude

1 nm = 1852 meters = 6076 ft (International Treaties)

1 nm = 6100 ft (some calculations)

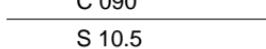
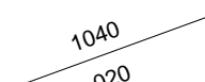
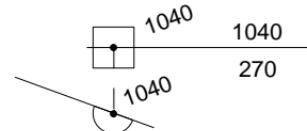
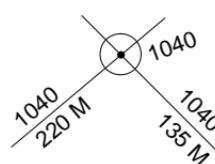
1 meter / second = 1.94 knots

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Distance (D):  $D = (S \times T) / 60$

Distance is always nautical miles (nm)

# Navigators Quick Reference Card

ITEM	DIAGRAM	DESCRIPTION
DR Plot		Course (090 True) written above line, Speed (10.5 Knots) written below line
DR Position		Time (24 Hour) Written at angle to semicircle denoting DR position
LOP		Lightly draw line with Time (24 Hour) above LOP and True bearing beneath
Estimated Position		Square located where dashed perpendicular line from DR position touches LOP
Visual Fix		Circle where two or more LOP's cross. Time written parallel to LOP lines
Electronic Fix		Time and method (if relevant)
Running Fix		Circle containing the intersection of a given LOP and another LOP advanced (or retired) in time with RFIX and the time taken
Known Position		Triangle with Time written alongside

Summary of Common Navigation Drafting Symbols and Their Usage

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