

LEGEND: Blue = information provided.
 Black = calculated values.

Red = table values, etc.
 Green = ANSWER

Terrestrial Observations
 Chart Plot - Eastern Long Island - Operational Level

USCG 00343-NP-5

STEPS

3) While on a heading of 082° T, you sight Middle Ground Light in line with Old Field Point Light bearing 206° per standard magnetic compass. From this you can determine the _____.

SOLUTION:

Given:

Heading	082° T	TRUE	189° T
Variation	14° W	Variation	14° W
Magnetic	096°	Magnetic	203°
Deviation	4° W	Deviation	4° W
	→	Compass	207° psc

NOTE: The deviation table in question 1 is based upon your **HEADING** and **NOT** the bearing on the lights.

Therefore, for your **HEADING of 082° T**, you should determine that your **Deviation is 4° W** FROM YOUR **096° Magnetic** heading AFTER **14° W Variation** is applied.

Compass 206° psc Bearing Observed
 Bearing 207° psc Confirmed by plot
 Within 1° of bearing.

Variation	14° W
Deviation	4° W
Compass Error	18° W

SEE THE PLOT ON THE NEXT PAGE

- A) CORRECT - Deviation table provides a correct value for that heading.
- B) INCORRECT - Variation is NOT determined from the plot but from the plot header text.
- C) INCORRECT - Compass error is 18° W not 17.5° E.
- D) INCORRECT - Deviation is 3.5° W to 4.0° W based upon your HEADING not bearing!

Select the closest answer.

- A) deviation table is correct for that heading ← ANSWER
- B) variation
- C) compass error is 17.5° E
- D) deviation is 3.5° E for a bearing of 206° per standard magnetic compass

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