

DEVIATION CARD

Ship's Head by Compass	Deviation
000°	3°E
010°	
020°	1.5°W
030°	
040°	4.5°W
050°	
060°	3.5°W
070°	
080°	0.5°E
090°	
100°	5.5°E
110°	
120°	9°E
130°	
140°	8.5°E
150°	
160°	4°E
170°	
180°	1°W
190°	
200°	7°W
210°	
220°	9.5°W
230°	
240°	9°W
250°	
260°	4°W
270°	
280°	2°E
290°	
300°	7.5°E
310°	
320°	9°E
330°	
340°	7.5°E
350°	

Example 1 – COMPASS TO TRUE

Course 088°C, Variation 3°E. Find true heading.

Select two compass headings either side of 088°C.

080°C	0.5°E	080°C
100°C	5.5°E	088°C
Diff 20°C	5.0°	Required for 8°

Dev for 8° = $(8/20) \times 5 = 2.0^\circ$

For 8° diff is 2°. Now we will apply this diff to the dev of 080°.

080°C	0.5°E
For 8°	+ 2.0°E
Dev for 088°C	2.5°E

True	Var	Magnetic	Dev	Compass
093.5°	3°E	090°	2.5°E	088°

Example 2 – TRUE TO COMPASS

Ship heading 185°T. Variation 3°W. Find compass heading.

Apply the variation to the true heading to obtain the magnetic heading (188°M). Now select two compass headings such that when their deviations are applied we get two magnetic headings either side of 188°M.

180°C	1°W	179°M	179°M
200°C	7°W	193°M	188°M
Diff	6°	14°	9°M

Deviation for 9° = $(6/14) \times 9 = 3.9^\circ$

For 9° diff is 3.9°. Now we will apply this diff to the dev of 179°M.

179°M	1°W
For 9°	+ 3.9°W
Dev for 188°	4.9°W

True	Var	Magnetic	Dev	Compass
185°	4°E	188°	4.9°E	192.9°