

BEARINGS



Fig. 1

Example:

- Plot a bearing of 123° (M) on Cap Gris-Nez Lighthouse? Variation 7° W.
- Dial the bearing by rotating the compass rose until 123° lines up with 7° W on the total error scale. With a pencil held firmly on Cap Gris-Nez on the chart, swivel the plotter until the grid on the compass disc aligns with a convenient latitude or longitude line. See Fig. 1

- Draw bearing.



Fig. 4

What is the bearing (°M) of East Goodwin Light Vessel from South Goodwin Buoy? Variation 5° W.

Lay the edge of the Course Plotter along the line between the two marks with the big blue arrow in the direction of the bearing. Swivel the compass rose until N is pointing North and the grid lines up with a convenient line of latitude or longitude. See Fig. 2



Fig. 2

Read off the bearing allowing for 5° W variation, in this case 050° M. See Fig. 3



Fig. 3

POSITION

Example:

- Plot the GPS position 241° (T) towards Beachy Head lighthouse 6 miles
- Dial in the bearing and line up the Course Plotter as before. You can use the scale on the side of the Course Plotter to transfer distance from the latitude scale on the side of the chart. In this case 6 miles = 2.9 units. See Fig. 4

ESTIMATED POSITION

- Course steered 135° C, 3° E deviation, 6° W variation, 10° leeway in a SW wind. 5.2M logged distance and tidal stream 2 hours before HW Springs.

Dial in course. Tidal correction for deviation and variation is 3° W. Subtract 10° leeway by keeping disc still and rotating Course Plotter away from the wind.

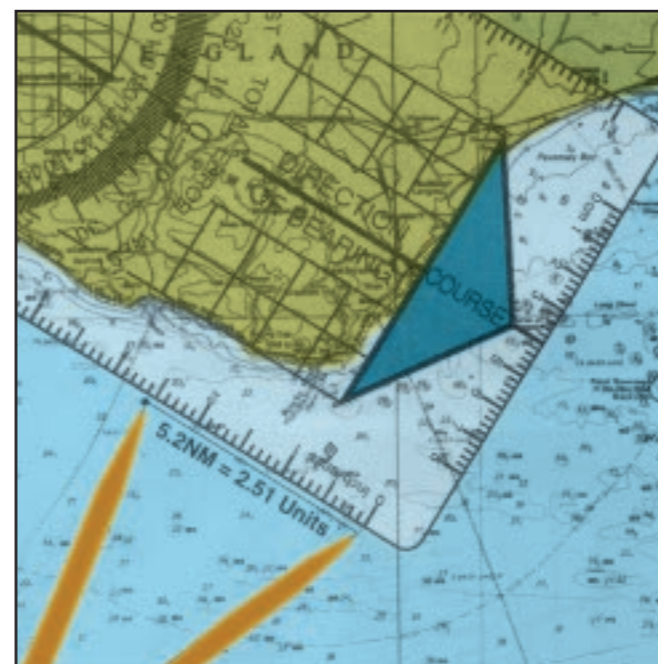


Fig. 7



Fig. 9

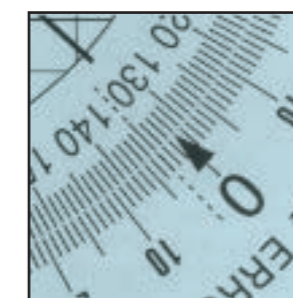


Fig. 5

Total correction for deviation and variation is 3° W. 135° (C) = 132° (T) See Fig. 5



Fig. 6

Subtract 10° leeway = 122° (T) See Fig. 6

- Plot course by lining up compass rose disc with latitude or longitude. See Fig. 7



Fig. 8

- Take tidal stream direction directly from tidal stream atlas. See Fig. 8
- Transfer to chart. See Fig. 9

QUICK COURSE TO STEER

- Using Scale Plotter, course to Pointe du Touquet, boat speed 5 knots, tidal stream 030° 2.3 knots. Variation 5°W.

- Plot tidal stream from the boats position using 2.3 units on side of Course Plotter. See Fig. 10



Fig. 10

- Measure five units from end of tidal vector to rhumb line. See Fig. 11



Fig. 11

- Rotate disc to give course to steer 109°(T), 114°(M). See Fig. 12

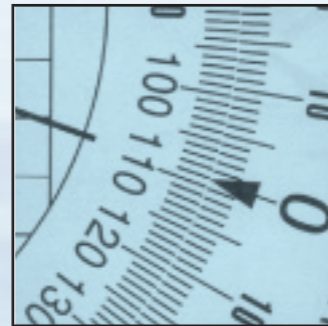
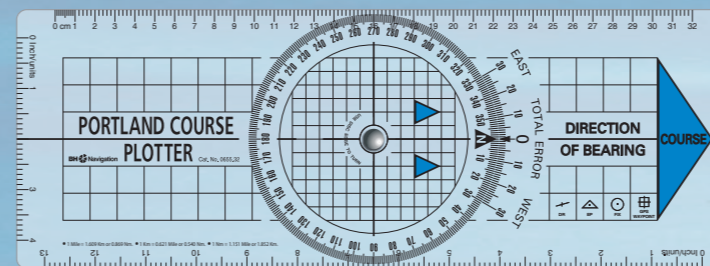
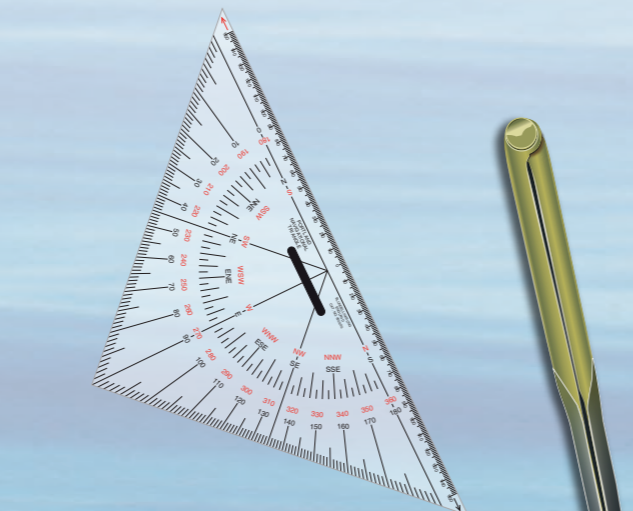


Fig. 12



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NAVIGATION INSTRUMENTS

Portland Triangle 200mm	0656.63
Portland Triangle 230mm	0656.65
Speed/Time/Distance Calculator	0655.31
Speed/Time/Distance Slide Rule NATO Pattern	0655.37
175mm/7" Solid Brass Single Hand Divider	0654.12B
200mm/8" Solid Brass Single Hand Divider	0654.14B
175mm/7" Solid Brass Straight Divider	0654.13B
200mm/8" Solid Brass Straight Divider	0654.16B

RULES

Flat Acrylic 12"/300mm Rule with mm/inches	0411.03
Flat Acrylic 15"/380mm Rule with mm/inches	0411.04
Flat Acrylic 18"/450mm Rule with mm/inches	0411.05
Flat Acrylic 24"/610mm Rule with mm/inches	0411.07
Flat Acrylic 1 Metre Rule with mm/inches	0411.10

PARALLEL RULES

Middy Bar Parallel 400mm	0651.82
Captain Fields' pattern 400mm	0651.04
Captain Fields' pattern 500mm	0651.05
Captain Fields' pattern 600mm	0651.07

PLOTTERS

Portland Course Plotter	0655.32
Portland Course Plotter with 7" Divider	0655.32KITBR
Portland Plotter	0655.35
Portland Rib Plotter 190 x 140mm	0655.55
Portland Protractor 125mm/5"	0656.60
Portland Protractor 250mm/10"	0656.61
Portland Course Plotter (Large/Training)	0655.P7431
Portland Rib Plotter (Large/Training)	0655.P7432



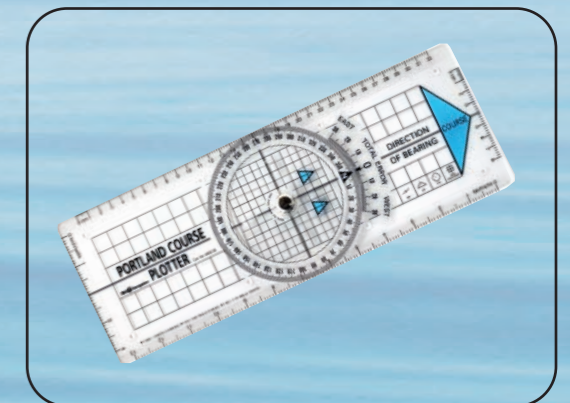
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Our range of chart-table navigation instruments are supplied to the leisure boat and commercial shipping markets. We offer a range of plotters, protractors and parallel rules to suit the differing navigation practices used throughout the world.

Our products are particularly valuable for navigation training purposes and are recommended for the UK RYA (Royal Yachting Association) approved training courses.

All products are accurately manufactured from top quality acrylics and have been developed in voyage conditions, incorporating the ideas of many experienced yacht-people. Our instruments provide a practical facility for plotting electronic data onto charts and are essential as a backup in the event of equipment failure.



THE COURSE PLOTTER CAN ALSO BE USED TO ILLUSTRATE CHARTWORK IN NAVIGATION CLASSES BY LAYING IT ON AN OVERHEAD PROJECTOR.

These instructions have been written by James Stevens, RYA National Coach