

**CENTRE FOR ENVIRONMENT, FISHERIES AND AQUACULTURE SCIENCE
LOWESTOFT LABORATORY, SUFFOLK, NR33 0HT**

2015 RESEARCH VESSEL PROGRAMME

PROGRAMME: Cefas Endeavour: Survey C End 25-2015.

STAFF: Ian Holmes (SIC), Dave Palmer (2IC), Ewen Bell, Vladimir Laptikhovsky, Bill Meadows, Marcus Shirley (Plymouth), Kerry Howell (Plymouth)

DURATION: 3 days

LOCATION: Race Bank, southern North Sea

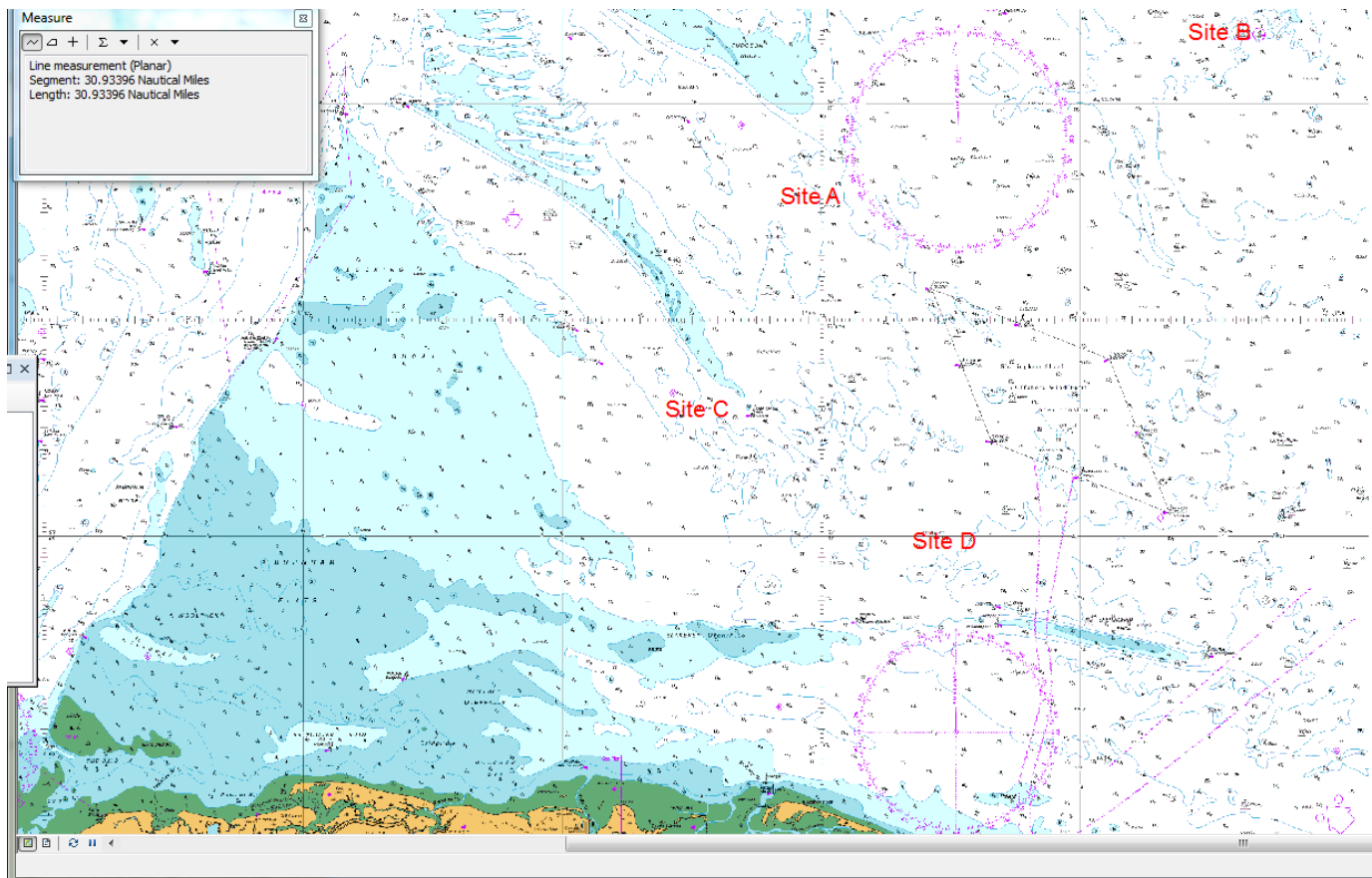
Potential stations:

Site A 53 12.7 N 0 59.2 E

Site B 53 16.6 N 1 15.5 E

Site C 53 7.8 N 0 55.65 E

Site D 53 4.9 N 1 4.6 E



AIMS: To assess the impact of beam trawling on macro-crustacea

PLAN:

- Take delivery of several hundred live crab before sailing, paint the crabs with UV paint prior to deployment and leave to dry for an hour.
- Once on station, put crabs (100-200?) on seabed with bait using baskets or fish release cages. Mark the position.
- As soon as possible return to the position towing a beam trawl at 4-5 knots for 500 metres. Sort the catch once on board and assess damage to crabs and lobsters.
- Deploy ROV or drop frame with video camera and tow over the trawl site, following the trawl tracks.
- Go over video footage and assess damage to crabs and lobsters.
- This will be repeated at similar sites during daylight hours, ideally 2/3 stations per day.
- After deploying crabs and bait at the initial station the ROV may then be deployed before beam trawling to video the behaviour of the crabs to better understand where they are likely to go.

GEAR:

- 2 x 4m beam trawl
- Camera sledge
- ROV (Plymouth)
- Drop frame (Plymouth)

Rosslyn McIntyre
27/10/2015

INITIALLED:

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DISTRIBUTION:

Alison Challiss, Ian Holmes, Ewen Bell, Dave Palmer, Bill Meadows, Vladimir Laptikhovsky, Kerry Howell, Marcus Shirley.