

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

2016 RESEARCH VESSEL PROGRAMME

PROGRAMME: Cefas Endeavour: Survey C End 09-2016.

STAFF: Ian Holmes (SIC), Ewen Bell (2IC), Bill Meadows, Robin Masefield, Karen Vanstaen, Chris Barrett, Ross Jolliffe (possible)

DURATION: 3 days (May 13-15 2016)

LOCATION: Race Bank, southern North Sea

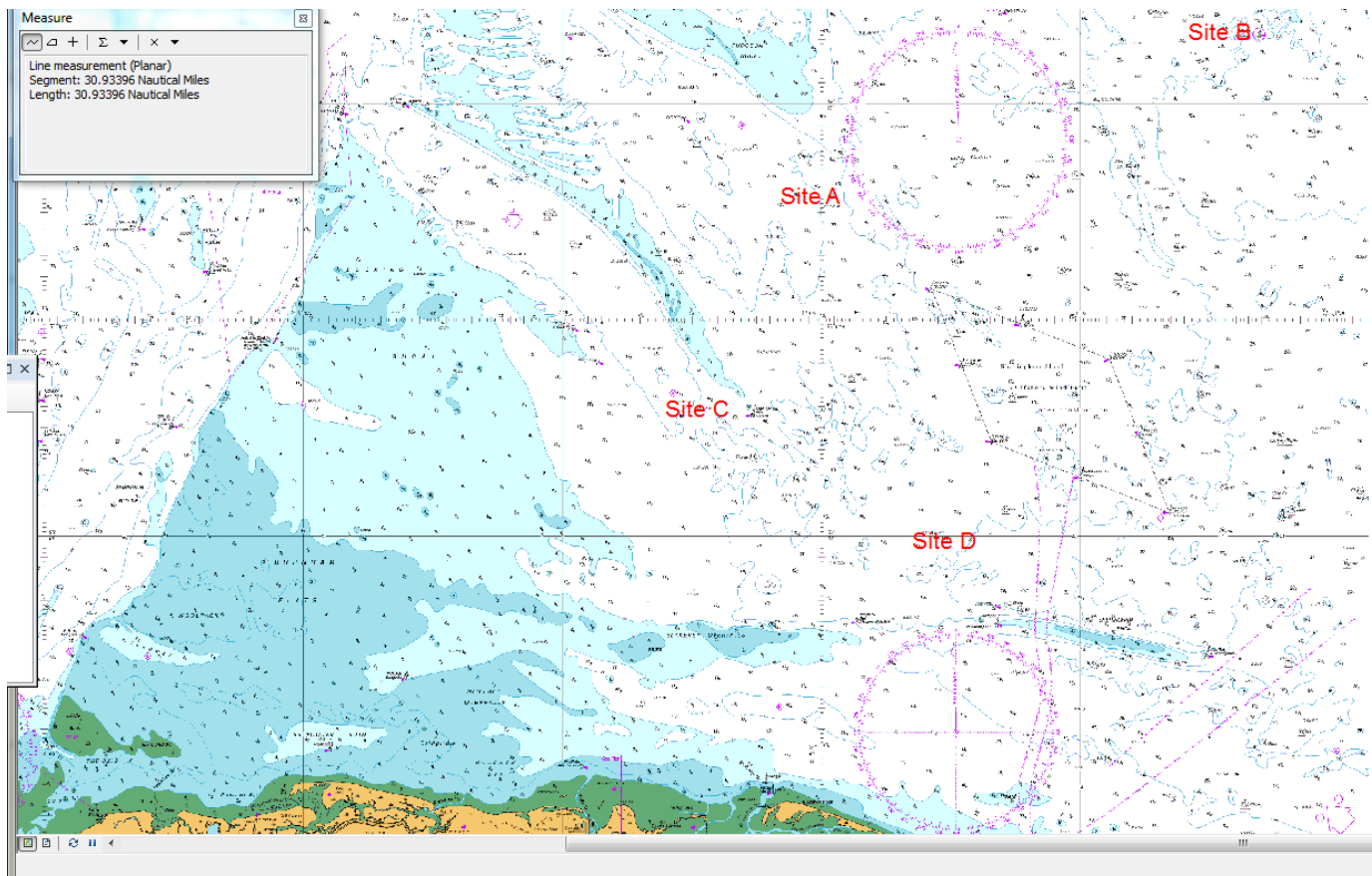
Potential stations:

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:

- Sail from Lowestoft on 13 May 0232 GMT tide and head for survey area.
- 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 using fish release cages or baskets. Mark the position.
- 1st station to monitor crab speed on release (no trawl).
- Subsequent stations: sprint to the start position and towing two beam trawls at 5-6 knots for 500 metres through centre. Sort the catch once on board and assess damage to crabs and lobsters.
- Deploy drop frame with video camera and tow over the trawl site, following the trawl tracks. Survey pattern to be |_| |_| shaped – complex DP work!
- Go over video footage and assess damage to crabs and lobsters.
- This will be repeated at similar sites on each slack water (~6 hrs between stations)
- Dock back in Lowestoft on 2nd high tide on 15 May (or 1st high tide on 16 May).

GEAR:

- 2 x 4m beam trawl
- Drop frame (sea spider)
- Camera sledge

Ian Holmes
19/04/2016

INITIALLED:

EB

DISTRIBUTION:

Caroline Whybrow
Eastern IFCA
Ian Holmes, Ewen Bell, Bill Meadows, Chris Barrett, Karen Vanstaen, Robin Masefield,
Ross Jolliffe.