

RESEARCH VESSEL PROGRAMME

RV CEFAS ENDEAVOUR
Survey: C END 06x - 2017

STAFF:

Name	Role	Cabin	Shift
Andy Lawler	SIC	SIC	
Karen Vanstaen	SIC2	SCI 2 (B2)	
Chris Barrett	Shellfish scientist	SCI 1 (C1)	
Rosana Ourens	Shellfish scientist	SCI 2 (C2)	
Hayden Close	Technician	SCI 3 (C3)	
Ben Wood	Technician	SCI 4 (C4)	
Andrew Bodle	Technician	SCI 5 (C5)	

DURATION:

Wednesday May 07, 2017 departing from Falmouth until Thursday May 11, 2017, demobbing in Lowestoft.

LOCATION:

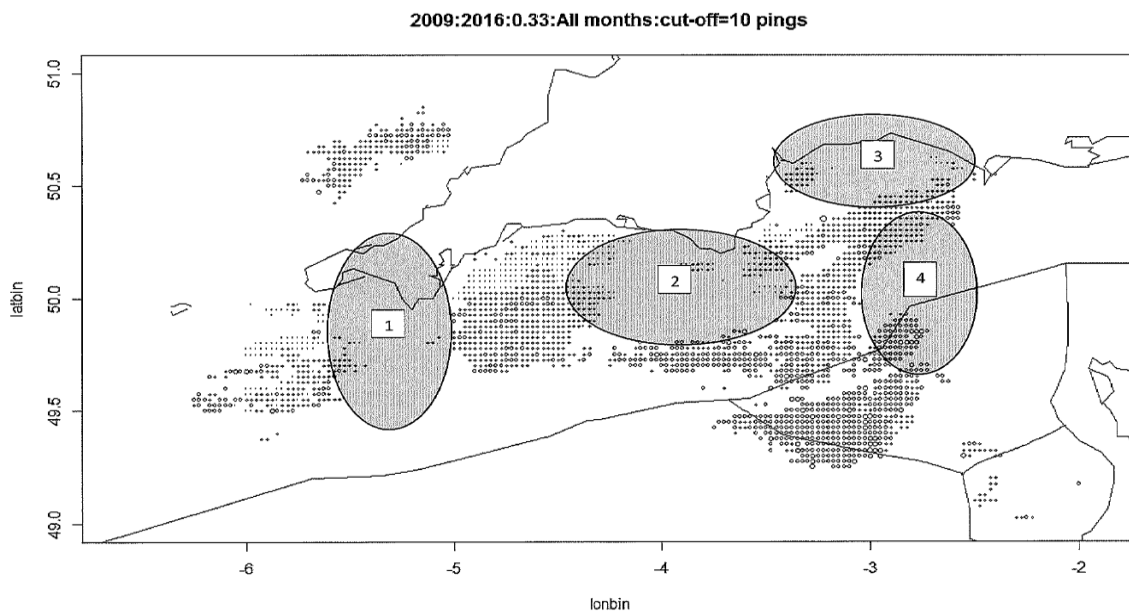


Figure 1. Four proposed areas for underwater TV work Cefas Endeavour 6X/17.

The station positions have yet to be defined but will be randomised within the proposed areas. We may wish to carry out camera work in the following MPAs, although we do not anticipate station positions in all of them:

Full list of potential MPAs:

Western Channel MCZ
Lizard Point SCI
Start Point to Plymouth Sound & Eddystone SCI
Skerries Bank and Surrounds MCZ
Lyme Bay and Tore Bay SCI
South Dorset MCZ

We will follow up with definitive station positions as soon as they are available.

AIMS:

To investigate the distribution and abundance of king scallop (*Pecten maximus*) in areas inaccessible to fishing gear using underwater TV. As part of a wider project to determine the stock status of scallop in the English Channel, underwater TV will be used to compliment scallop dredge surveys taking place in May (Western English Channel) and September (Eastern English Channel). Those areas which are accessible to scallop dredges will be surveyed as part of the dredge surveys but selected areas that are inaccessible due to gear conflicts, incompatible substrate types or conservation measures will be assessed during this survey.

Aims at sites 1 to 4

1. Acquire underwater video footage to determine distribution and abundance of king scallop in unfishable areas
2. Acquire high-resolution acoustic data using multibeam sonar

PLAN:

Depart from Falmouth on Saturday 07 May 2017 and transit to site 1. Video data will be collected using appropriate camera deployment methods depending on sensitivity of areas and substrate type (drop frame or sledge). Survey positions to be determined by random selection within each area. Up to twenty minutes of video to be recorded at each station. Multibeam echo sounder data will be recorded whilst the vessel is on the survey areas. It is anticipated this work will take around 3 days.

On completion of the survey the vessel will transit to Lowestoft to demobilise.

GEAR:

Drop-Camera frame in suspended mode, TV towed sledge and Multibeam Ecosounder



Figure 2. STR SeaSpyder drop frame camera system.

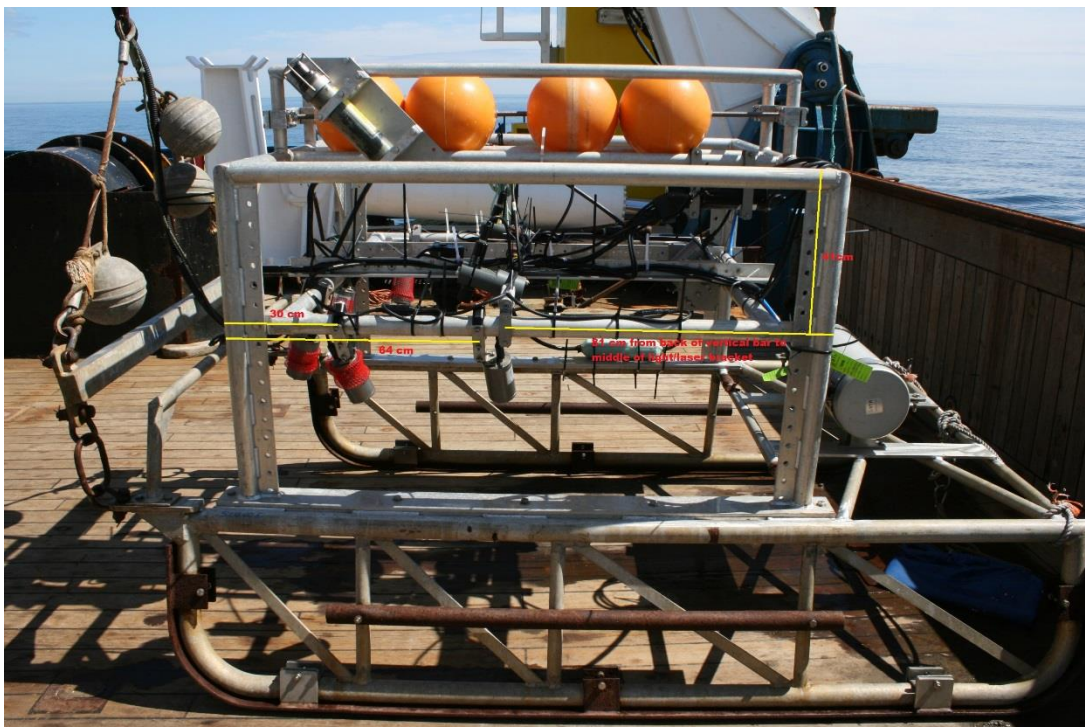


Figure 3. The towed sledge to be used for the scallop TV survey



Centre for Environment
Fisheries & Aquaculture
Science



Andy Lawler
Scientist in Charge
27 Mar 17

INITIALLED:

AK Lawler

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