

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

2009 RESEARCH VESSEL PROGRAMME

PROGRAMME: RV CEFAS ENDEAVOUR: SURVEY 12

STAFF:

Part A
Fishing
B Harley (SIC)
S McCully (2IC)
R Humphreys
L Cox
B Hatton
M Eade
S Elliot

Plus up to 3 students from the University of Exeter

DURATION: 5 August – 7 September

LOCATION: North Sea

AIMS:

1. To carry out a groundfish survey of the North Sea as part of the ICES coordinated IBTS, using a standard GOV trawl in order to obtain information on:
 - a) Distribution, size composition and abundance of all fish species caught.
 - b) Age – length distribution of selected species.
 - c) Distribution of fish in relation to their environment.
 - d) Distribution of macrobenthos and anthropogenic debris.
 - e) Surface and bottom temperature and salinity data using CTD rosette and Niskin Bottle.
 - f) Length weight & maturity information using individual fish measurements, in support of the EU Data Regulation.
2. Carry out water sampling for Caesium/Tritiums for an internal Cefas contract (SLA21).
3. Collect pipefish samples for Benjamin Kurten, University of Newcastle
4. Fish selected stations with 'Poly GOV' in Northern area of the sampling grid.

PLAN:

RV Cefas Endeavour will sail from Lowestoft on 5 August. Cefas Endeavour will proceed to stations in the southern North Sea and start the IBTS survey. The survey will dock in Aberdeen on the 21 August in order have new Scanmar pods and instrumentation fitted to the trawl doors. The second half of the survey will sail from Aberdeen on 22 August and the survey will continue and dock in Lowestoft on 7 September.

GEAR:

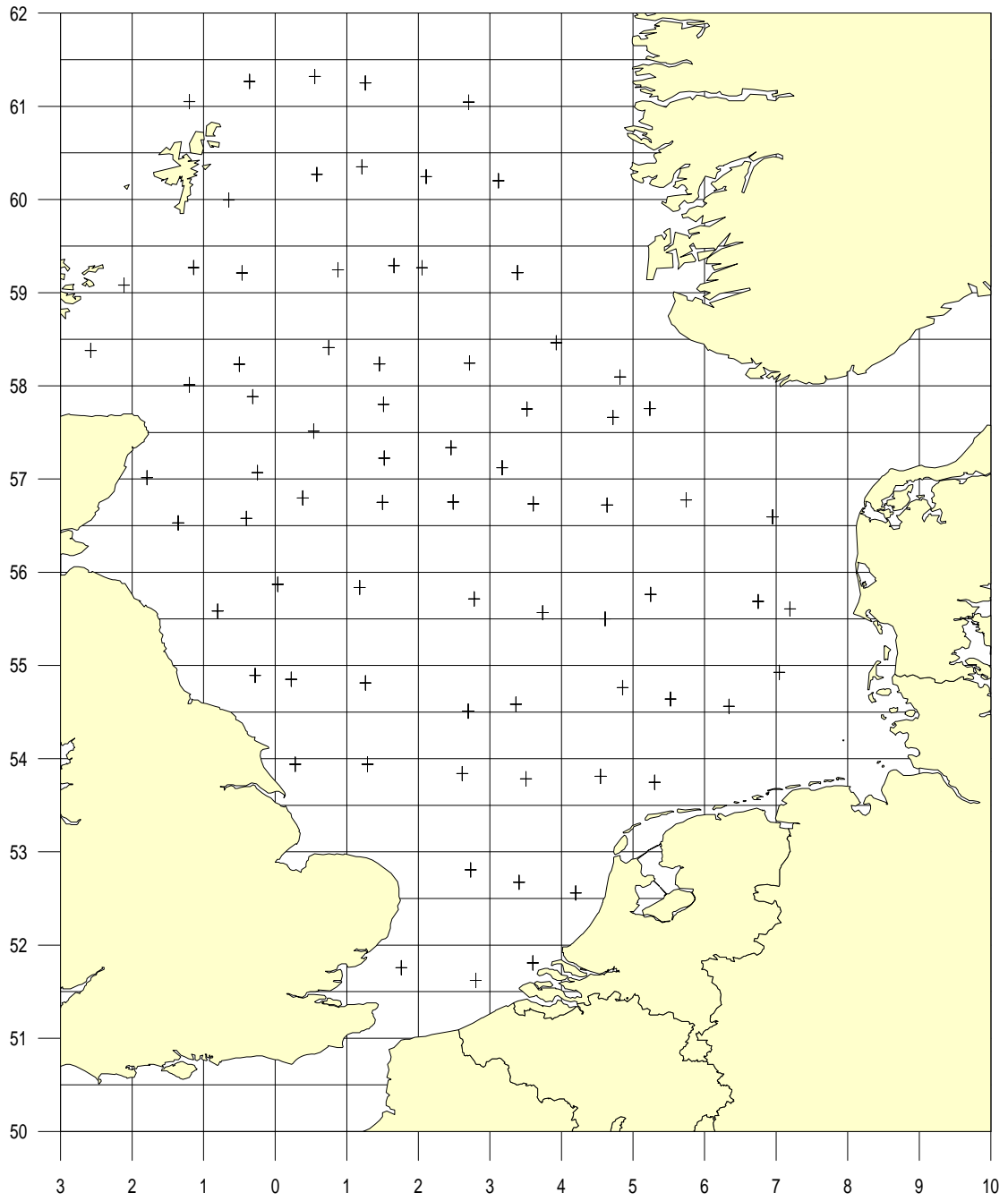
List distributed separately and marked to relevant individuals for action. Trevor Bailey will supply the equipment needed to carry out Aim 2.

B Harley
30 June 2009

DISTRIBUTION:

Basic list +

B Harley	S McCully
R Humphreys	B Hatton
L Cox	M Eade
S Elliot	T Bailey



Primary survey positions for Cefas Quarter 3 North Sea Groundfish Survey, 2009