CENTRE FOR ENVIRONMENT, FISHERIES AND AQUACULTURE SCIENCE, LOWESTOFT LABORATORY, LOWESTOFT, SUFFOLK, NR33 OHT, UK

2006 RESEARCH VESSEL PROGRAMME

PROGRAMME: RV ENDEAVOUR: CRUISE 10B/06

STAFF: Michaela Schratzberger (SIC)
Jim Ellis (2IC)
Tracy Maxwell
Karema Warr
1 x Burnham
1 x SIGS
Steve Milligan
Cheryl Burt

DURATION: 26 April – 5 May 2006

LOCALITY: North Sea (ICES IVb)

AIMS:

The aim of this work is to describe the effects of fishing and environment on production and food web structure during a seasonal production cycle. This is the last of seven related cruises that have been scheduled for this purpose. The data collected will be used to parameterise size-based food web models and to describe how seasonal patterns of energy flow affect indicators of fisheries impacts on trophic structure, biomass and production.

The study will focus on the Silver Pit region of the central North Sea and the following work will be conducted:

(1) Analysis of spatial and temporal variation in carbon and nitrogen stable isotope ratios close to the base of marine food chains (filter feeding infauna and zooplankton).
(2) Analysis of relationships between body size, energy content and trophic level (from nitrogen stable isotope analysis) in space and time for zooplankton, benthic invertebrate and fish communities.
(3) Analysis of relationships between body size and production for zooplankton, benthic invertebrate and fish communities.
(4) Sampling of solenette to estimate density and trophic level in the southern North Sea.

PLAN:

RV ENDEAVOUR will continue from CEND 10A/06 without returning to Lowestoft. She will work in ICES area IVb (UK waters only) throughout the cruise and will dock at Lowestoft on 5 May 2006.

Michaela Schratzberge
Scientist in Charge, 15/03/06

INITIALLED:

(E.C.E. Potter, FB SAH)

DISTRIBUTION:
Basic List +
Michaela Schratzberger (SIC)
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SIGS
Fishing skipper: Endeavour
Eastern SFC
North Eastern SFC