

**CENTRE FOR ENVIRONMENT, FISHERIES AND AQUACULTURE  
SCIENCE  
LOWESTOFT LABORATORY, LOWESTOFT, SUFFOLK NR33 OHT  
2004 RESEARCH VESSEL PROGRAMME**

**PROGRAMME: RV CEFAS ENDEAVOUR: CRUISE 3/04**

STAFF:

Part 1

S Warnes (SIC)  
P Large (2 SIC)  
T Woods  
A Tidd  
B Harley  
S Warne  
D Brown  
S Walmsley  
S Milligan  
IRISH OBSERVER ?

Part 2

S Warnes (SIC)  
S Flatman (2 SIC)  
T Woods  
A Tidd  
G Burt  
M Easey  
R Millner  
L Greenwood  
M Goddard  
IRISH OBSERVER ?

DURATION: Part 1: 4 – 19 March. Part 2: 20 March - 4 April

LOCATION: Celtic Sea, South-Western Approaches, and western English Channel.

AIMS:

1. To carry out a trawl survey of the Celtic Sea, to obtain information on:
  - a) Distribution, size composition and abundance of all fish species.
  - b) Age - length distribution of selected species.
  - c) The detailed distribution of spawning cod (*Gadus morhua*) in the NW of ICES Division VIIg (Celtic Sea).
  - d) Collect biological data in support of the EU Data Collection Regulation.
2. To sample juvenile fish for recruitment studies.
3. To collect material for fish identification courses.
4. To collect and preserve frozen, all scallops (*Pecten maximus*) that are caught.
5. To continue the development and testing of electronic data capture equipment.
6. To collect plankton samples in order to estimate onset of mackerel (*Scomber scombrus*) spawning (S. Milligan).

7. To collect hake (*Merluccius merluccius*), mackerel (*Scomber scombrus*) and horse mackerel (*Trachurus trachurus*) maturity and fecundity material (P. Witthames).
8. To obtain length distributions of mackerel within the Mackerel Box (C. Darby).
9. To investigate the use of a 2/3m beam trawl for obtaining juvenile fish samples (Jim Ellis).
10. Tag and release specimens of spurdog (*Squalus acanthias*), smoothhound (*Mustelus* spp.), greater spotted dogfish (*Scyliorhinus stellaris*) and tope (*Galeorhinus galeus*).
11. Collect tissue samples from rays.

RV CEFAS ENDEAVOUR will sail from Lowestoft on the morning tide on 4 March and proceed to the SW fishing grounds to begin the trawl survey. The vessel will dock in Galway (Ireland) on 19 March and sail again on the 20 March. Staff for part 2 will travel to Galway on 19 March and staff from part 1 will leave the vessel on the 20 March.

GEAR:

List distributed separately and marked to relevant individuals for action.

S Warnes  
9 February 2004

INITIALLED      RSM

DISTRIBUTION:

Basic list

Staff on Cruise

Devon SFC

Cornwall SFC

South Wales SFC

Isles of Scilly SFC