

DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS.

2005 RESEARCH VESSEL PROGRAMME

PROGRAMME: *RV CEFAS ENDEAVOUR*: CRUISE 12

STAFF:

Part A : D Limpenny (SIC)
 S Ware
 K Cooper
 S Vize
 W Meadows
 N Lyman
 P Whomersley
 K Vanstaen
 S Boyd
 D Carlin

Part B : D Limpenny (SIC)
 R Coggan
 W Meadows
 A Meadows
 P Whomersley
 J Eggleton
 S Ware
 S Boyd
 C Limpenny
 K Vanstaen
 MES x 1
 K Howell (JNCC)
 P Leonard (Defra)

Part C: D Limpenny (SIC)
 R Coggan
 S Birchenough
 W Meadows
 A Meadows
 C Mason
 H Bates
 P Whomersley
 J Eggleton
 K Vanstaen
 S Ware
 MES x 1
 M Dunkley (EH)

DURATION:

Part A: 20th July – 25th July (approx)

Part B: 26th July – 31st July (approx)

Part C: 1st Aug – 6th Aug

Changeovers at sea off Lowestoft or convenient south coast port

LOCALITY:

North Sea/English Channel

AIMS:

Part A:

1. To carry out trials of acoustic and photographic survey equipment.
2. To conduct multidisciplinary surveys of areas of the seabed suspected to hold aggregations of *Sabellaria spinulosa* (C2474).
3. To carry out post-remediation survey work at aggregate extraction site Area 408, close to the Coal Pit (AE0916).

Part B:

1. To sample benthos and sediments for time-series studies at sites in the Eastern English Channel using the Hamon grab, and undertake UWTV sledge work at a selection of those sites (AE0916).
2. To collect groundtruthing samples using Hamon grab (with camera fitted), UWTV sledge and drop camera and 2m Beam trawls from up to 150 sites in the Eastern English Channel (C2282).
3. To collect acoustic (multibeam, sidescan sonar, AGDS and ADCP) data from within the boundaries of the groundtruthing survey (C2282).

Part C:

1. To continue the collection of groundtruthing samples using Hamon grab (with camera fitted), UWTV sledge and drop camera and 2m Beam trawls from up to 150 sites in the Eastern English Channel.
2. To continue to collect acoustic (multibeam, sidescan sonar, AGDS and ADCP) data from within the boundaries of the groundtruthing survey.
3. To complete the collection of a grid of Hamon grab samples, multibeam and UWTV data from a grid of stations in the English Channel eastwards from south of the Isle of Wight, for the purposes of ME3112.

PLAN:

Part A:

Endeavour will sail from Lowestoft on 20th July and sail north to carry out trials of a range of scientific systems prior to commencing the scientific programme. This work will be carried out in the vicinity of the Coal Pit. Sampling at Area 408 will be undertaken over an area which has been recently seeded with gravel by the aggregate industry. Sites to the east of Coal Pit ("Saturn Reef"), adjacent to the Docking Shoal ("Area 107"), the outer Dowsing ("Area 441") and Smiths Knoll ("G3") will be sampled using the Hamon grab, 2m Beam trawl and a range of acoustic and photographic techniques.

Staff will be changed on or around the 25th July, via the ships workboat, at a convenient port.

Part B:

On completion of the staff change, Endeavour will sail to the Eastern English Channel to begin work on a number of aims in the area. On or around the 31st July, the second crew change will take place using the ships workboat, at a convenient port in the English Channel.

Part C:

During the final third of the cruise, Endeavour will complete the aims in the Eastern English Channel and return to Lowestoft.

David Limpenny
9th July 2005

INITIALLED:

DISTRIBUTION:

Basic list +
All scientific cruise personnel
M Waldock
S Malcolm
L Murray
D Morris
H Rees
C Vivian
J Rees

Figure 1. Proposed route of *CEFAS Endeavour* during the research cruise Endeavour 12/05.

