

**DEPARTMENT FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS.
CEFAS LOWESTOFT LABORATORY, LOWESTOFT, SUFFOLK,
ENGLAND.**

2005 RESEARCH VESSEL, PROGRAMME

PROGRAMME: RV ENDEAVOUR; CRUISE 10/05.

STAFF:

Part A	Part B
J. Thain	J. Thain
J. Jones	J. Jones
W. Reynolds	W. Reynolds
S. Lincoln	S. Lincoln
E. Garnacho	F. Goodsir (LWT)
F. Goodsir	J. Bignell (WEY)
S. Feist (WEY)	G. Stentiford (WEY)
J. Bignell (WEY)	R Hicks (WEY)
K. Bateman (WEY)	E. Clarke
A. Kenny	R. Dyer
P. Roberts	J. Rooke
L. Tolhurst	

All staff from Burnham laboratory unless indicated otherwise.

DURATION: 17th June – 8th July

LOCATION: Irish Sea, Clyde, North Sea and English Channel.

AIMS:

1. To collect samples of demersal fish for chemical analysis from the Irish Sea, North Sea and Eastern English Channel in support of the UK National Marine Monitoring Programme (UK NMMP).
2. To collect fish samples at NMMP sites for fish disease and genotoxic markers (e.g. DNA adducts).
3. To collect fish samples at NMMP sites for biochemical markers (e.g. EROD and bile metabolites analysis).
4. To sample representative NMMP stations using grab, multicore and beam trawl for trace metal contaminants, sediment particle size analysis, PAHs and benthic fauna.
5. To collect biota for the determination of imposex in support of OSPAR requirements.
6. To collect fish samples (e.g. Gurnard and Dragonet) from NMMP and other targeted sites and, specifically, from sites on the South Coast for potential inclusion on the list of targeted NMMP species. Biomarker measures from

current reference sites (Rye Bay, Cardigan Bay) can then be used to assess suitability of species for inclusion in the NMMP suite of biomarker techniques.

7. To collect samples of water for CEFAS radiation monitoring programmes en-route.

PLAN: RV Endeavour will sail from Swansea on the evening tide on the 17th June and sail to Cardigan Bay to take samples under aim 4 and trawl for fish under aims 1, 2, 3 and 6. RV Endeavour will then sail to Celtic Deep NMMP where samples will be taken under aims 1,2,3 and 4. Sampling will take place at NMMP stations at Red Wharf Bay, Liverpool Bay (including trend samples), Morecambe Bay, SE Isle of Man and Dundrum Bay under aims 1, 2, 3, 4 and 6. Endeavour will then steam south where Endeavour will then take samples at stations along the south coast under aim 6. Endeavour will then steam north to sample NMMP stations at Rye Bay, Thames Warp and Gabbard under aims 1, 2, 3 and 6. Further North NMMP stations on the East coast, Central North Sea and Dogger Bank under aims 1,2 and 3 will be sampled. Endeavour will sail to Lowestoft to dock on the 8th July.

Change of scientists to take place at Weymouth

GEAR:

1. 2x Agasis trawls + spare nets
2. 2x Simon Jennings type 2m Beam Trawl + spare nets
3. 2x Burnham 2m Beam Trawl + 2 spare nets and beams
4. 2x 3m beam trawls with cod end liners and spare nets
5. Granton trawl with cod end liner + spare trawl and net
6. Fish hopper and sorting/processing tables
7. Reineck corer and ancillary equipment
8. Rock dredge with chain link bag
9. 2x Day Grabs (+ a length of rope between warp and grab to avoid contamination)
10. 2x sets of Scallop Dredges with beam and spares.
11. Portable fridge and chest freezer
12. Hand held CTD
13. 2x 1.5 kg balances
14. 1x 5kg balance
15. 1x 10kg balance

All other gear from the Burnham Laboratory

John Thain (Scientist in Charge) 9th May 2005

INITIALED: Draft seen by AE002 contract leader

DISTRIBUTION:

Basic list: +

STAFF:

J Thain (SIC)

J Jones

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B Lyons

G Stentiford

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S Feist

K Bateman

A Kenny

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S Lincoln

F Goodsir

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