

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

2008 RESEARCH VESSEL, PROGRAMME

PROGRAMME: RV ENDEAVOUR; CRUISE 12/08 B

STAFF:

Part Bi	Part Bii
J Thain (SIC)	John Thain (SIC)
B Lyons	B Lyons
S Lincoln (Burnham)	S Lincoln (Burnham)
E Clarke (Burnham)	E Clarke (Burnham)
C Jackson (Lowestoft)	C Jackson (Lowestoft)
A Smith (Burnham)	A Smith (Burnham)
F Goodsir (Lowestoft)	F Goodsir (Lowestoft)
K Bateman	G Stentiford
M Green	R Hicks
J Bignall	T Hill
N Tyslind	J Bignall
P Whomersley (Lowestoft)	P Whomersley (Lowestoft)
S Ware (Lowestoft)	S Ware (Lowestoft)

All staff from Weymouth Laboratory unless indicated otherwise.

DURATION: 20th June – 7th July 2008

LOCATION: Irish Sea, 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 Clean Safe Seas Environmental Monitoring Programme.
2. To collect fish samples at CSEMP sites for fish disease and genotoxic markers (e.g. DNA adducts).
3. To collect fish samples at CSEMP sites for biochemical markers (e.g. EROD and bile metabolites analysis).
4. To sample representative CSEMP stations using grab, multicore and beam trawl for trace metal contaminants, sediment particle size analysis, PAHs and benthic fauna.

PLAN: Scientific staff will arrive at the ship on the 20th June. It is envisaged that this will be a turn around of 12 hrs. An induction course will be conducted before the ship sails. RV Endeavour will sail from Swansea on the on the 20th June and sail to Carmarthen Bay to take samples under aims 1, 2, and 3. RV Endeavour will then sail to Cardigan Bay where samples will be taken at the CSEMP stations under aims 1,2,3 and 4. Further sampling will take place at CSEMP stations at Red Wharf Bay, Liverpool Bay (including trend samples), Morecambe Bay, SE Isle of Man and Dundrum Bay under aims 1, 2, 3, and 4. The route will depend on sampling progress and weather conditions. In general, sampling at these stations will be with the Granton trawl and Day grab. After completing the sampling of stations in the Irish Sea, Endeavour will then steam south where RV Endeavour will then take samples at stations along the south coast (Lyme Bay, Newhaven and Rye Bay) under aims 1, 2 and 3. Endeavour will then steam north through the Dover Straits to sample CSEMP stations at Thames Warp and Gabbard under aims 1, 2, and 3. Further North CSEMP stations on the East coast, Central North Sea and Dogger Bank under aims 1,2 and 3 will be sampled. Endeavour will sail to a North-East coast port to dock on the 7th July.

A list of CSEMP stations for the sampling of fish is given in Appendix 1 below.

Change (Bi to Bii) of scientists and equipment to take place at Weymouth on approximately 27th/28th June 2008.

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) 12 May 2008.

INITIALLED: Draft seen by AE002 contract leader - to confirm

DISTRIBUTION:

Basic list: +

STAFF:

J Thain (SIC)

B Lyons

G Stentiford

S Feist

K Bateman

S Lincoln

F Goodsir

R Hicks

E Clarke

A Franklin

A Smith

T Hill

J Bignell

M Green

C Jackson

P Whomersley

S Ware

D Limpenny

APPENDIX 1: CSEMP FISHING STATIONS

CSEMP (NMMP) Number	Location	Mid tow Lat. Long.
244	Amble	55 16.01 N 01 15.26 W
243	Farne	55 29.71 N 01 07.59 W
283	North East Dogger	55 18.05 N 02 53.82 E
284	North Dogger	55 04.08 N 02 05.40 E
286	West Dogger	54 46.76 N 01 17.69 E
287	Central Dogger	54 30.00 N 02 42.53 E
294	Tees Bay	54 45.25 N 01 08.31 W
344	Off Flamborough	54 14.72 N 00 29.91 E
346	Off Humber	54 03.92 N 01 47.46 E
377	Humber	53 19.37 N 00 25.47 E
378	Indefatigable Bank	53 33.40 N 02 04.92 E

387	Wash	53 08.50 N 01 33.30 E
475	Outer Gabbard	52 01.86 N 02 06.57 E
486	Rye Bay	50 46.74 N 00 46.83 E
New	Off Newhaven	50 45.59 N 00 00.00 E
New	Lyme Bay	50 36.86 N 02 55.82 W
New	Off Eddystone	50 06.44 N 04 06.06 W
New	West Lundy	51 09.79 N 05 26.67 W
605	Celtic Deep	51 10.29 N 05 43.75 W
616	Camarthen Bay	51 32.82 N 04 35.13 W
649	North Cardigan Bay	52 42.44 N 04 32.29 W
654	South Cardigan Bay	52 10.90 N 04 29.87 W
656	Inner Cardigan Bay	52 18.00 N 04 16.35 W
665	Outer Cardigan Bay	52 23.76 N 04 53.72 W
706	Burbo Bight	53 28.24 N 03 20.47 W
715	Liverpool Bay	53 28.32 N 03 41.91 W
769	St Bees Head	54 30.71 N 03 47.63 W
776	Red Wharf Bay	53 22.46 N 04 12.84 W
796	Morecambe Bay	53 55.31 N 03 23.23 W
805	SE Isle of Man	54 03.36 N 03 52.47 W
815	Outer Dundrum Bay	54 04.81 N 05 37.29 W
Trend	Smith's Knoll	52 48.67 N 02 45.33 E
Trend	Alternative Smith' Knoll	52 43.91 N 02 27.51 E
Trend	Smith's Knoll Bank	52 46.48 N 02 17.25 E
Trend	Liverpool Bay	53 23.76 N 03 37.55 W