

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD
FISHERIES LABORATORY, LOWESTOFT, SUFFOLK, ENGLAND

1993 RESEARCH VESSEL PROGRAMME

PROGRAMME: RV CORYSTES: CRUISE 11a

STAFF:

- J Thain (SIC)
- M Waldock
- M Blackburn
- Y Waddell
- M Kirby
- J Jones
- S Bifield

DURATION:

1-18 October (Change over Irish Sea)

LOCATION:

NE coast, Irish Sea and Channel

AIMS:

1. To collect samples of demersal fish for chemical analysis from the North Sea, English Channel and Irish Sea in support of UK National Monitoring Plan (NMP) and Environmental Quality Objective Programmes.
2. To deploy liquid-liquid extraction techniques on water samples from offshore and estuarine locations for organic chemical analysis and biological effects studies.
3. To collect water samples for the analysis of selected 'Red List' substances in coastal and estuarine waters.
4. To further investigate the use of biochemical techniques such as EROD in dab liver in support of NMP.
5. To collect fish samples for genetic toxicological analysis (e.g. DNA adducts) at NMP sites.

PLAN:

CORYSTES will sail on 1 October to Blyth where sampling will commence under Aims 2 and 3. Sampling will take place from the ship and upper estuarine sites from the ship's Searider. Further sampling will take place on the Rivers Wear, Tyne, Tees and Humber. CORYSTES will then commence fishing off the Tyne under Aims 1, 4 and 5 and continue sampling at NMP stations 24, 28, 29, 34, 37, 38, 47, 48 and 49 (see attached list). On route to the Irish Sea further trawling will be undertaken at NMP stations and water sampling under Aims 2 and 3 at Poole Harbour, Southampton Water, Plymouth Sound, The Lune and Mersey. CORYSTES will dock at a port on the west coast for Burnham staff to disembark.

GEAR:

Small Otter Trawl
Compressed gas cylinders, size J or K, ex-British Oxygen 6 x OFN
100 salinity bottles
Remainder of gear from Burnham

John Thain
23 August 1993

INITIALLED:

P G S

DISTRIBUTION:

Basic List+
J Portmann
R Law
A Franklin
P Matthiessen
M Waldock
M Blackburn
M Kirby
S Bifield
J Jones
Y Waddell

CORYSTES 11a/93 1-18 OCTOBER

FISH REQUIREMENTS FOR NATIONAL MONITORING PLAN AND TREND

Species Required

NMP... Dab (20-30 cm) x 25 or Flounder (15-35 cm) x 25

+ Whiting from all Channel and west coast sites.

TREND... Whiting + Plaice x 25 (length stratified groups)

NMP Stn no:	Location	Mid Tow coordinates	
24	Off Tyne	55 06N	01 03W
28	Off Tyne/Tees	54 50N	01 17E
29	Off Tees	54 49N	01 07W
34	Off Humber/Wash	54 03N	01 45E
37	Humber	53 20N	00 25E
38	Wash	53 07N	00 32E
39	Southern Bight	52 48N	02 45E
46	Thames Warp	51 44N	01 20E
47	Thames Gabbard	52 06N	02 04E
48	South Varne	50 51N	00 49E
49	Selsey Bill	50 44N	00 20W
53	Central Channel	50 05N	03 02W
57	Off Plymouth Sound	50 01N	04 19W
(New Station)	Off Plymouth	50 17.7N	04 9.7W
58	W Approaches	LEAVE OUT	
59	Celtic Deep	51 10N	05 45W
60	Severn	52 27N	04 12W
64	Cardigan Bay	52 18N	04 18W
65	Off Cardigan Bay	52 21N	04 55W
69	Liverpool Bay	53 29N	03 17W
70	Liverpool Bay	53 29.1N	03 41W
TREND	Liverpool Bay	53 24N	03 35W
76	Irish Sea	LEAVE OUT	
77	Off Lune/Wyre	53 58N	03 19W
79	SE Isle of Man	54 00N	03 49W

NMP - STATION POSITIONS

CRUISE TRACK
CORYSTES 11a/93
2E

