

**MINISTRY OF AGRICULTURE FISHERIES AND FOOD
FISHERIES LABORATORY, LOWESTOFT, SUFFOLK.**

1998 RESEARCH VESSEL, PROGRAMME.

REPORT: RV CIROLANA; CRUISE 3b/98

STAFF: J Thain (SIC)
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DURATION: 19 June to 9 July 1998

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

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 and EC Fish Products Directive.
2. To deploy fractionation / bioassay techniques on water samples from offshore and near shore/estuarine locations for chemical analysis of organics and biological effects studies.
3. To collect samples along a transect from the Dogger Bank - German Bight for use in the development and evaluation of sediment bioassays. Additional samples to be taken as appropriate at NMP and estuarine sites.
4. To collect fish samples at NMP sites, for fish disease and genetic toxicological analysis (e.g. DNA adducts).
5. To further investigate the use of appropriate biochemical, cytochemical and other biological techniques in support of NMP.
6. To collect fish, sediments, and water from selected NMP stations and dredge spoil sites for nopolphenol analysis.
7. Bathymetric survey of area 107 (an aggregate extraction area)

PLAN:

RV CIROLANA will sail from Swansea on the 19th June and commence water, sediment and fish sampling in the Bristol Channel, and Celtic Sea in respect of aims 2 and 5. *CIROLANA* will then sail north to the Irish Sea and take samples under aim 2 and trawl for fish under aims 1 and 4. If the weather conditions are suitable surface water samples will be taken for aim 7. After completing work in the Irish Sea *CIROLANA* will sail south to the North Sea calling on route at the ICES reference station (aim 2 and 5), the Solent (aim 5) and Rye Bay (aim 1 and 4). As *CIROLANA* enters the North Sea samples of water, sediments and biota will be collected off the Dutch coast under aims 2 and 5. Further sampling of water, fish and sediments will be taken under aims 1, 2, 4 5 and 6 will be taken as *CIROLANA* steams to the Dogger Bank (possibly via the German Bight) and NMP sites on the NE coast, Humber and Wash. A bathymetric survey (aim 7) will be carried out off the north Norfolk coast before returning to Lowestoft on the 9th July.

GEAR:

Cirolana 3b/98 Gear List

2 x Simon Jennings type 2m Beam Trawl
2 x Our type 2m Beam Trawl with 2 spare nets
2 x 3m beam trawls with cod end liners and spare net.
Granton Trawl with cod end liner and spare net
Fish processing tables

Drop camera frame (MSS frame) with video and stills camera fittings.
Colour video camera system to fit to drop frame and to sledge.
New deck mounted winch for camera deployment

CEFAS EG+G Sidescan system with Triton Elics
Sextant
RoxAnn
QTC
Bathymetric system
SD200

2 x Anchor Dredge (From Burnham)
Mini Hamon Grab
Reineck Corer
Rock dredge with chain link bag
Shipek grab
Multicorer

Day Grabs (Could we have a length of rope between warp and grab to avoid contamination)

1 set of 3 fine mesh Scallop Dredges with beam and spares

Searider for estuary and "away from boat" work (Approx 4 estuaries)

2 x Hand-held VHF Radios

LAN requirements for bathy and sidescan surveys

John Thain
28 May 1998

INITIALLED:

John Thain

DISTRIBUTION:

Basic list

CIROLANA 3/b 1998

