

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

MR BATE

1974 RESEARCH VESSEL PROGRAMME

REPORT: R V CIROLANA: CRUISE 9B

(Provisional: Not to be quoted without prior reference to the author)

STAFF: P G W Jones
A R Folkard
S R Jones
M J McCartney (Institute of Oceanographic Sciences)

DURATION:

Left Barry 1030 h 26 November
Arrived Plymouth 1110 h 2 December

LOCALITY:

Continental shelf west of Ireland and southwest approaches of English Channel.

AIM:

To survey the distribution of selected trace metals dissolved in water.

NARRATIVE:

Scientific staff joined CIROLANA by pilot boat off Barry and the vessel sailed at 1030 h. Surface samples for the analysis of caesium-137 were collected across the entrance to St George's Channel and the trace metal survey was commenced at 1100 h on 27 November off Bantry Bay. However, a force 9 NW gale forced the vessel to dodge from 1530 h until 0600 h 28 November. Thereafter the survey continued without interruption during progressively improving weather conditions. The last station was completed at 0800 h on 2 December off Falmouth and CIROLANA proceeded to Plymouth docking at 1110 h the same day.

RESULTS

23 stations (see chart) were sampled for trace metal analysis. Water was collected at the surface and near the bottom and was deep-frozen for subsequent analysis at Lowestoft of copper, zinc, cadmium and nickel. Both filtered and unfiltered samples were taken and 10 filtered subsamples were collected for an intercalibration exercise between MAFF and IOS.

The survey was curtailed somewhat owing to time lost due to bad weather. However, the grid completed MAFF coverage of the distribution of trace metals in the shelf seas around the British Isles by supplementing observations from several earlier exercises.

Samples for the analysis of caesium 137 and tritium were collected at selected stations in order to supplement the sampling network of the Fisheries Radiobiological Laboratory during Cruise 9a.

P G W Jones
6 December 1974

INITIALLED: A J L

SEEN IN DRAFT: T H F (Master)
G W Argumont (Fishing skipper)

DISTRIBUTION:

Basic List P G W Jones S R Jones
A R Folkard M J McCartney

CIROLANA 9 6/74

Trace metal grid.

