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FISHERIES LABORATORY, LOWESTOFT, SUFFOLK, ENGLAND

1970 RESEARCH VESSEL PROGRAMME

REPORT: RV CLIONE: CRUISE 15a

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

STAFF

D H Cushing  
F R Harden Jones  
R B Mitson  
B G Clarke  
A J Jones  
M Smith

DURATION

Left Lowestoft 1650 hours 7 December

Arrived Dover 0900 hours 13 December

LOCALITY

Southern North Sea-English Channel

AIMS

To observe fish shoals with the ARL Scanner.

NARRATIVE

The ship sailed for IJmuiden where the dome was put on. On 8 December a party from Westminster Dredging examined two dredgers working in IJmuiden harbour and just outside; a party of Dutch physicists also were shown the ARL scanner, as were a group from the Dutch Fisheries Laboratory.

On the evening of 8 December CLIONE sailed for the W. Hinder-Fairy Bank area. During the morning and afternoon of 9 December a number of small shoals, probably of herring, were recorded. On the night 9/10 December the ship steamed to Beachy Head to a position at which horse mackerel had been caught (15 tons) by CORELLA during the previous week. An echo survey was made of the area and a number of fish shoals, of a characteristic shape on the scanner display were recorded. On 11 December a survey for sprats was made off Dungeness power station; a considerable number of shoals was recorded and pictures were taken of the intake. At night, observations were made on the distributions of single fishes, probably sprats, in relation to the tidal streams, as measured with a DRCM from an anchored ship.

On the morning of 12 December a survey was made of the noisy sand ridges at the western end of the Sandettie-Ruytingen channel. In the afternoon, on a few single fishes off Calais, some attempts were made to use injected signals with the scanner. It was found that the playback from the bottom signal reduced all signals on the display to some extent. Some measurements were made of the signal from an 8<sup>m</sup> trawl float with respect to injected signals.

D H Cushing  
23.12.70

SEEN IN DRAFT: M R Sutcliffe (Master) P. 12/10/54

INITIALED: AJL

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