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

1977 RESEARCH VESSEL PROGRAMME

REPORT: RV CORELLA: CRUISE 17/77

(PROVISIONAL: Not to be quoted without prior reference to the author) a file and the contract of the

STAFF: P Scholes
I Davies
B Holford
S P Milligan

H Edge

DURATION:

) Left Lowestoft at 1105 h 14 November) All times are Greenwich Mean Time Arrived Lowestoft at 0715 h 23 November)

LOCALITY:

Corton and Marsdiep

AIMS:

- To continue work with RV CLIONE to determine the efficiency of the Granton trawl when rigged with a door-to-door tickler.
- To sample water from the sea bottom by pumping.
- To carry out measurements of light penetration into the sea by use of the spectral radiometer.
- To bring back live dabs to the laboratory.

NARRATIVE:

The ship sailed on 14 November at 1105 h and proceeded to the area of Trevors Pit 52°10'N 2°15'E but increasing winds and a bad forecast forced us to return to anchor at Corton. Gales persisted all the following day but we did manage to test out the gear while stormbound and towed along from Corton to Hopton sampling with the pump for salinity and temperature of the bottom water. On the morning of the 16th while anchored a further series of samples were taken from top to bottom of the water column and in the afternoon the weather fined away sufficiently for us to proceed to Trevors Pit. Four runs were made across the pit towing the pipeline through it on the bottom. After completing the work in this area the ship steamed overnight to Texel to join CLIONE and arrived in Den Helder at 1205 h on 17th. Continuous gales in the working area kept us anchored in the Marsdiep or alongside the quay at Den Helder for the next 5 days until, on 22nd, we decided that we would take advantage of a lull and make for Lowestoft abandoning the trip. We weighed anchor at 1300 h on 22nd and arrived in Lowestoft at 0715 h on 23rd after a rough night passage.

RESULTS:

- No work was done with CLIONE due to continuous bad weather.
- Aim number 2 was successfully accomplished and after some modifications the gear was shot away straight down the ramp with the end of the pipeline attached to a short strap on the butterfly bar of the Dan Leno. The 12 HP Safran pump delivered 15 gallons a minute through 500 ft of pipe and the system worked well except for the delivery pipe being full of fine bubbles. This affected the salinometer head which had to be continually cleaned. Four runs were made across Trevors Pit and there was apparently a lower temperature and salinity near the bottom compared with the surface water but we could find no marked anomalies in the bottom of the pit as compared with temperatures and salinities on the bottom outside the pit.
- Aim 3 was not completed because of bad weather but some measurements were made with the sensors mounted on the foredeck. Carried Andrew Control of
- Aim 4 was also abandoned due to the bad weather.

P. Scholes 24 November 1977

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SEEN IN DRAFT: JB (Master)

RN (Fishing skipper)

INITIALLED: AJL

DISTRIBUTION:

Basic list

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