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

1978 RESEARCH VESSEL PROGRAMME

REPORT: RV CORELLA: CRUISE 10

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

STAFF:

A R Folkard

C W Baker

J Woollorton

J Read

R Law (Burnham-on-Crouch) 6 July-12 July

J Esser (Grimsby College of Technology) 12 July-18 July

DURATION:

Left Lowestoft 2120 6 July

Arrived Lowestoft 0650 18 July

All times are Greenwich Mean Time

LOCALITY:

Tyne-Tees

AIMS:

1. To lay eight current meter rigs in the Tyne-Tees area. These 8 stations will complement the two stations already established.
2. To carry out the third of the 4 water quality surveys in the Tyne area planned for 1978 with additional sampling for metal analysis.
3. To carry out the third of the 4 water quality surveys planned for 1978 in the Tees area.
4. To collect water samples in the Tyne-Tees area and offshore to provide information on hydrocarbon levels as part of a general study of these levels in UK waters.
5. To test the towed body and Alden recorder in conjunction with the Acoustic Release system.

NARRATIVE:

CORELLA sailed at 2120 h, 6 July after a delay of 36 hours and proceeded to Tees Bay. On the evening of 7 July two current meter stations were laid off Tees Bay after which the ship anchored overnight in Hartlepool Bay. The remaining four current meter stations were laid on 8 July and CORELLA then anchored east of Souter Point. On 8 July an anchor station was worked off Souter Point over a tidal cycle when DRCM profiles were made hourly and continuous measurements were made of nutrient parameters, salinity and temperature. CORELLA moved to the Tyne anchorage on 10 July and a further anchor station was worked as off Souter Point but in addition bottom water samples were collected. After leaving the Tyne anchorage on 11 July a section was worked from the mouth of the Tyne across the

proposed dumping ground and later in the day a number of water bottle casts were made at hourly intervals in the vicinity of the Tyne current meter station. CORELLA entered Sunderland on the morning of 12 July and R Law left for Burnham-on-Crouch. Water was taken and repairs made to the ship's radar. J Esser joined the ship during the afternoon of 12 July and a deckhand arrived from Lowestoft to make up the ship's complement. On 13 July a water quality survey was made of Tees Bay and the Tyne water quality survey was begun on 14 July. Because of the necessity of sampling the bottom water on the Tyne survey, sampling took place over two days and was completed on the afternoon of 15 July. During the evening of 15 July two current meter stations were recovered and CORELLA anchored overnight off Sunderland. The remaining four current meter stations were recovered on 16 July after which CORELLA anchored in Hartlepool Bay to allow the backlog of samples to be analysed. On the morning of 17 July several hourly water bottle casts were made in the vicinity of the Tees Bay current meter station and CORELLA left the area at 1145 h and steamed to Lowestoft. CORELLA docked at 0650 h, 18 July.

**RESULTS:**

None of the data records has been worked up at sea and it will be some time before an assessment can be made of conditions prevailing in the Tyne-Tees area in the summer season. Samples for hydrocarbon analysis were collected close inshore in Tees Bay off the Tyne and off Blyth in addition to some offshore samples. Because of the heavy commitments on current meters only six complete stations were available for this cruise. The towed body-acoustic release system was not available for testing on this cruise.

A R Folkard  
15 August 1978

SEEN IN DRAFT: GS  
PCN

INITIALED: AJL

**DISTRIBUTION:**

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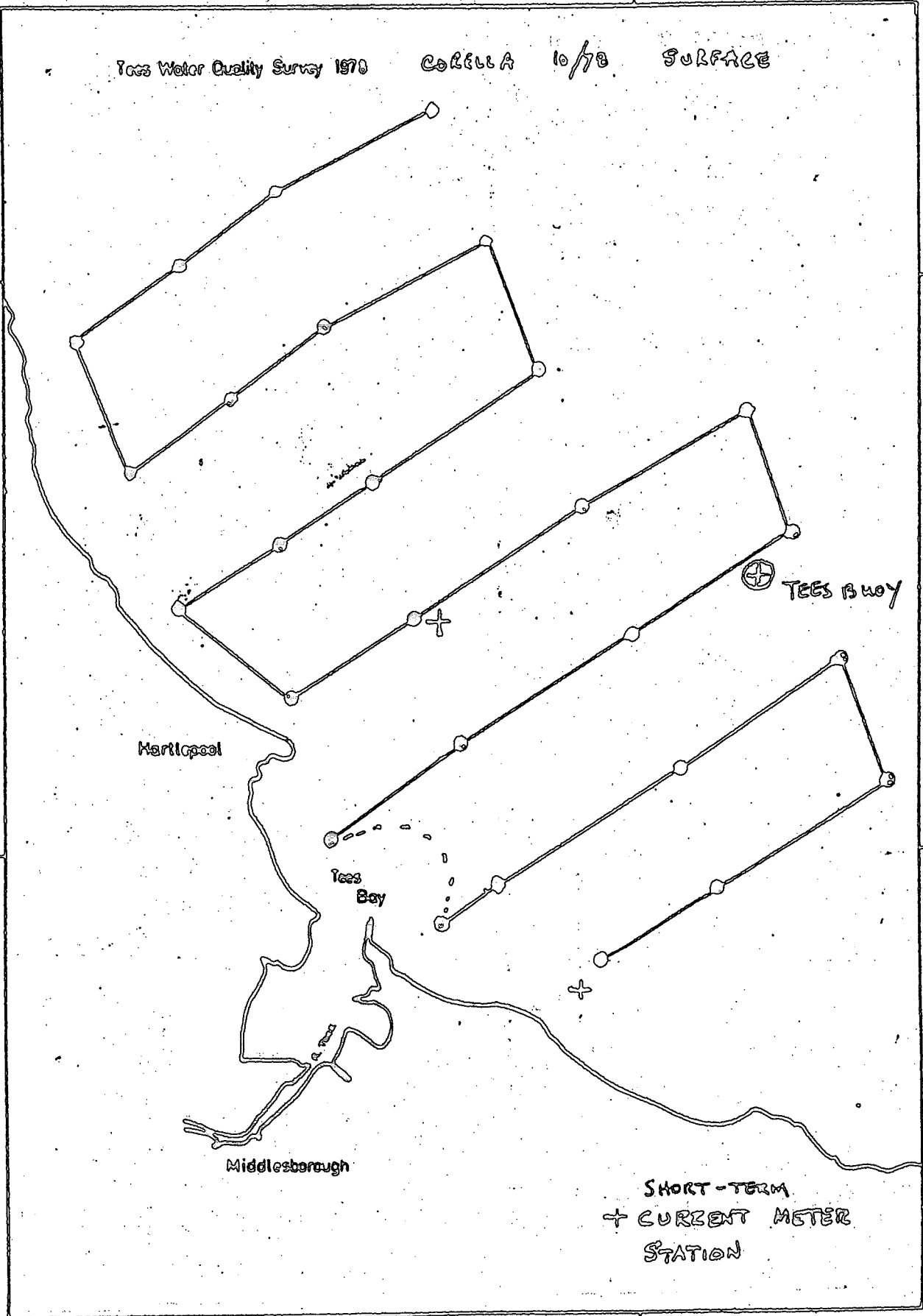
Tees Water Quality Survey 1970  
CORRECTION 10/78 SURFACE

54° 50' N

54° 50' N

54° 40' N

54° 40' N



SHORT-TERM  
+ CURRENT METER  
STATION

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