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IN CONFIDENCE: Not to be quoted without
reference to the Laboratory.

CRUISE REPORT

F.R.S. "CLUPEA"

19th-30th August, 1963

- Objectives
- 1) To undertake a routine trawl survey of the Moray Firth.
 - 2) To take blood samples of young herring.
 - 3) To tag suitable concentrations of herring.

The routine survey stations were completed by the evening of the 28th August. Herring were sparsely distributed over the area and consisted mainly of adults. The largest haul of forty-two herring was in area $57^{\circ}49'N$ $03^{\circ}06'W$; length range was 24-31 cm. Sprats were in evidence in moderate numbers in the upper Moray Firth. Small haddock and whiting were in reasonable abundance in the central area of the Moray Firth. Fish of commercial size were generally scarce.

No blood samples were taken owing to the absence of small herring.

Tagging was confined to one day owing to bad weather. Trawl hauls were made in the areas where most herring were caught during the survey. Only a total of nineteen herring were released.

T. BRUCE

3.9.63

MORAY FIRTH HERRING TRAWLING

STATION GRID

Macduff - Clythness:

Stn. No.

| | | | |
|------------------|----------|------------|---|
| 57°47'N 02°25'W | (57 fms) | tow E x N | 1 |
| 57°49'N 02°35'W | (47 fms) | tow WNW | 2 |
| 57°54'N 02°52'W | (50 fms) | tow SE x S | 3 |
| 57°58'N 02°50'W | (47 fms) | " W x S | 4 |
| 58°09'N 02°58'W | (20 fms) | " NE | 5 |
| 58°12½'N 03°07'W | (32 fms) | " SE | 6 |

Buckie - Berriedale Ness

| | | | |
|------------------|----------|-------|----|
| 57°49'N 03°06'W | (20 fms) | tow N | 7 |
| 57°52'N 03°11'W | (37 fms) | " N | 8 |
| 57°58'N 03°16½'W | (30 fms) | " N | 9 |
| 58°04'N 03°24'W | (30 fms) | " SSE | 10 |

Rossiemouth - Helmsdale

| | | | |
|-----------------|----------|--------|----|
| 57°48'N 03°19'W | (35 fms) | tow NE | 11 |
| 57°54'N 03°28'W | (29 fms) | " E | 12 |

Aberdeenshire - Brora

| | | | |
|------------------|----------|--------|----|
| 57°48½'N 03°35'W | (25 fms) | tow NE | 13 |
| 57°54½'N 03°38'W | (22 fms) | " ENE | 14 |

Aberdeenshire - Golspie

| | | | |
|-------------------|-------------|---------|----|
| 57°41½'N 03°37½'W | (5-6 fms) | tow E½N | 15 |
| 57°43½'N 03°36'W | (28 fms) | " ¾W | 16 |
| 57°56'N 03°53½'W | (12-13 fms) | " SE | 17 |

Aberdeenshire - Cromarty

| | | | |
|-----------------|------------|-----------|----|
| 57°41'N 03°46'W | (24 fms) | tow E x S | 18 |
| 57°37'N 03°54'W | (8 fms) | " E | 19 |
| 57°38'N 03°55'W | (9-10 fms) | " E x N½N | 20 |
| 57°41'N 03°54'W | (9-10 fms) | " E | 21 |