

CRUISE PROGRAMME

F.R.V. "C L U P E A"

17th February-9th March, 1963

<u>Staff:</u>	R. E. Craig	P.S.O. in charge
	A. D. McIntyre	S.S.O. (in charge for L. Nevis survey)
	N. P. Wilkins	S.O.
	A. Ranachan	Sci. Asst.

Objectives:

1. To carry out a benthos survey of Loch Nevis.
2. To carry out a hydrographic survey of Ballantrae Bank.
3. To sample herring larvae on Ballantrae Bank.
4. To make photographic studies of natural herring populations.
5. To supply live fish to the tanks at Cairnryan.
6. To collect blood samples from fish for blood group studies.
7. To collect stomachs from 50 freshly caught herring for Nottingham Training College.

Administration:

Mr. Wilkins will join at Buckie on 17th February, and leave at Cairnryan about 2nd March.

Mr. Ranachan will join at Buckie on 17th February and leave at Cairnryan about 9th March. He will work part time ashore at Cairnryan, and be temporarily replaced by Mr. Priestley from the shore party.

Mr. McIntyre will join at Mallaig p.m. on 19th February and leave at Mallaig p.m. on 20th February.

Mr. Craig will join at Cairnryan on 21st February and leave at Cairnryan about 9th March. He will be required part time ashore at Cairnryan.

Detail:

The cruise will start from Buckie early enough to enter the Caledonian Canal a.m. on Monday, 18th February. Scientific staff will arrange to inform Mr. McIntyre and Mr. Craig of progress.

The larval survey will be carried out in accordance with the station list, and as frequently as is convenient (twice per full week unless heavy production is detected).

Hydrographic observations will be taken on one of these surveys, using the T-S bridge.

The remainder of the work will be carried out in collaboration with the needs of the shore party.

J. B. TAIT
8th February, 1963.

BALLANTRAE BANK GRID

	Decca Readings	
	Red	Purple
1.	D14	E68
2.	D14	E64
3.	D14	E60
4.	D15	E56
5.	D16	E52
6.	D16	E56
7.	D16	E60
8.	D16	E64
9.	D16	E68
10.	D18	E64
11.	D18	E60
12.	D18	E56
13.	D18	E52
14.	D18	D78
15.	D19	D74
16.	D21	D74
17.	D20	D78
18.	D20	E52
19.	D20	E56
20.	D20	E60
21.	D20	E64
22.	D20	E68
23.	D22	E64
24.	D22	E56
25.	D22	D78

Detail: at each station 1m oblique net (60 mesh)