

R1/10

L. Ivory

In confidence - Not to be quoted without ref to Lab

FRV GOLDSEEKER

Cruise 8/80

8GR80

JM

Report

1 - 25 July 1980

Objectives

1. To determine the visibility of tagging techniques in growth study experiments on Dichelonandalus bonnieri.
2. To study the abundance of Nephrops and D. bonnieri on grounds between Kyle and Gairloch.

Narrative

The scientific staff joined "Goldseeker" at Corpoch on 1/7/80. The boat steamed to Gairloch arriving there on 3/7/80, having shot creels in outer Loch Torridon.

A programme of trawling was undertaken in the waters off Gairloch and Loch Torridon, and in the Sound of Raasay. Creels were shot and hauled at intervals in outer Loch Torridon.

"Goldseeker" steamed to Kyle at the weekend, where stores, fuel and ships mail were collected.

On 21/7/80 "Goldseeker" left Kyle for Oban and some trawl hauls were made in the Lynn of Lorne and in Loch Linnhe. "Goldseeker" entered the Caledonian Canal at Corpoch on 22/7/80 and arrived at Buckie at 2300 on 23/7/80. The scientific staff left the boat at Buckie on 24/7/80.

Results

In the area between Gairloch and the Sound of Raasay 18 half hour hauls were made using a 45 mm "Goldseeker" shrimps trawl with 35 mm codend, and 4 half hour trawl hauls using a standard 70 mm prawn trawl.

Catches of Nephrops were fair to good, 89 kg being caught with the 45 mm net and 25 kg with the 70 mm net. Pandalus sp. were scarce, catches were poor and only 8.5 kg were caught. In the Sound of Raasay small haddock were abundant. Six baskets of haddock size range 16 - 37 cm, the majority of fish being in the range 17 - 23 cm were caught in two hauls. Fish catches elsewhere were poor, and consisted mainly of spotted dogfish.

Three trawl hauls using the 45 mm net and 35 mm codend were made in the Lynn of Lorne and Loch Linnhe. 17 kg and Nephrops and 0.5 kg of Pandalus were caught. In the Lynn of Lorne the haul also produced 222 sprats at a size of 7 - 8 cm.

The size composition of the Nephrops catches is given in Table I.

The creel catches in Loch Torridon amounted to 226 Nephrops and 14.5 kg of Munida rugosa. Some Pandalids were caught, but these proved to be too small to tag successfully. 51 Nephrops were tagged and released.

The size composition of creel caught Nephrops and Munida are shown in Table II and Table III

F G Howard
12 August 1980

Seen in draft W Smith

Table I Size composition of Nephrops in trawl catches.

Size range (mm)	10-4	15-9	20-4	25-9	30-4	35-9	40-4	45-9	50-4	55-9	60-4	65-9	70-4	Total	Mean carapace length
Gairloch: 45 mm net															
	-	33	197	548	343	168	188	120	68	21	7	1	1	1695	33.4
	1	23	240	571	299	137	70	16	2					1359	29.6
Total	1	56	437	1119	642	305	258	136	70	21	7	1	1	3054	31.7
%	0.03	1.8	14.3	36.6	21.0	10.0	8.4	4.4	2.3	0.7	0.2	0.03	0.03		
70 mm net															
	-	1	29	162	110	88	94	54	14	6	1			559	35.3
		2	44	158	82	47	17	3						353	30.2
Total		3	73	320	192	135	111	57	14	6	1			912	33.3
%		0.3	8.0	35.1	21.1	14.8	12.2	6.3	1.5	0.7	0.1				
Lynn of Lorne and Loch Linnhe: 45 mm net															
	-	-	9	41	57	52	30	16	8	-	1			214	35.8
	-	1	10	53	130	86	42	5	2	-	-			329	34.3
Total		1	19	94	187	138	72	21	10	-	1			543	34.9
%		0.2	3.5	17.3	34.4	25.4	13.3	3.9	1.8	-	0.2				

Table II Size composition of Nephrops in creel catches

Carapace length (mm)	20-4	25-9	30-4	35-9	40-4	45-9	50-4	55-9	60-4	65-9	70-4	Total	Mean Carapace length
Loch Torridon	-	-	-	5	12	13	32	26	14	10	2	114	54.3
	-	-	1	10	41	33	26	1	-	-	-	112	45.9
Total			1	15	53	46	58	27	14	10	2	226	50.1
%			0.4	6.6	23.5	20.4	25.7	11.9	6.2	4.4	0.9		

Table III Size composition of Manidea rugosa in creel catches

Carapace length (mm)	15-9	20-4	25-9	30-4	35-9	Total	Mean carapace length
Loch Torridon							
	1	36	210	167	6	420	29.2
	-	52	143	10	-	205	26.5
Total	1	88	353	177	6	625	28.3
%	0.2	14.1	56.5	28.3	1.0		

ERRATA

Library

CRUISE REPORT
FRV GOLDSEEKER
CRUISE 8/80

1 - 25 July 1980

Objectives should read

1. To determine the viability of tagging techniques in growth study experiments on Dichelopa ndalus bonnier.

Narrative should read

The scientific staff joined GOLDSEEKER at Corpach on 1 7 80. The boat steamed to Gairloch arriving there on 3 7 80, having shot creels in outer Loch Torridon.

Results second paragraph should read

Catches of Nephrops were fair to good.....

In the first column of tables above the total should be added:

Male

Female