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FRV *Clupea*

Cruise 1599C

REPORT

13-30 September 1999

Loading: 9 September, Fraserburgh
Unloading: 30 September, Fraserburgh
Half Landing: 23 September, Fraserburgh

Personnel:

T Howell	(In charge)	13-23 September
S Davis	(In charge 23-30 September)	13-30 September
J Donald		22-30 September

Fishing Gear: Scallop dredges

Objectives:

1. To carry out a survey of scallop stocks in the North Sea.
2. To collect information on by-catches of other commercial fish and shellfish species.
3. To collect biological data on scallop growth rates and component tissue weights.
4. To collect samples for pollution analysis.

Out-time costs per project: 18 days MO1T

Narrative:

The scientific staff joined FRV *Clupea* at 0930 hours on 13 September and sailed from Fraserburgh at 1200 hours. Sampling began at 1430 hours at position 57°16.90'N 01°17.57'W and continued on the east coast and Moray Firth until 1500 hours on 22 September when the vessel went to Fraserburgh for the half-landing. FRV *Clupea* arrived in Fraserburgh at 1830 hours and remained until 0700 hours on 24 September. A change of scientific staff took place on 23 September. The survey resumed on 24 September and continued in the Moray Firth until 1300 hours on 29 September when the survey was completed and FRV *Clupea* set sail for Fraserburgh, arriving in port at 1630 hours. Scientific staff disembarked on 30 September and returned to Aberdeen with all scientific equipment and biological samples.

Results:

During the trip 116 dredge hauls were made and a total of 4,908 scallops were caught. The position of each haul is shown on the map in Figure 1. Catch rates varied from a minimum of 0/hours to a maximum of 252/hours. The aggregate catch rates for each statistical rectangle, expressed in numbers per hour per metre width by age, are shown in Figure 2. The individual graph headings in Figure 2 show the overall catch rate for each statistical rectangle. The length frequencies in numbers caught per half centimetre length category are shown in Figure 3. The numbers of each by-catch species caught is given in Table 1. Meat weight samples were taken from 12 different sites, shown on Figure 1. Ring measurements for growth study were taken from 12 separate sites shown on Figure 1.

J A Morrison
 18 November 1999

Table 1

Total number of each by-catch species

Species	Numbers
<i>Buccinum undatum</i>	73
<i>Cancer pagurus</i> M	57
<i>Cancer pagurus</i> F	112
<i>Chlamys opercularis</i>	44
<i>Hippoglossoides platessoides</i>	3
<i>Homarus gammarus</i> M	1
<i>Homarus gammarus</i> F	1
<i>Limanda limanda</i>	26
<i>Lithodes maja</i> M	3
<i>Lithodes maja</i> F	6
<i>Loligo forbesii</i>	1
<i>Lophius piscatorius</i>	68
<i>Microstomus kitt</i>	3
<i>Merlangius merlangus</i>	1
<i>Melanogrammus aeglefinus</i>	1
<i>Necora puber</i> M	1
<i>Necora puber</i> F	1
<i>Neptunea antiqua</i>	213
<i>Pleuronectes platessa</i>	55
<i>Raja batis</i> F	1
<i>Raja clavata</i> F	1
<i>Raja naevus</i> M	18
<i>Raja naevus</i> F	29
<i>Scyliorhinus canicula</i> F	1
<i>Zeugopterus punctatus</i>	1
<i>Zeus faber</i>	1

East Coast Scallop Survey - September 1999



