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FRV *Clupea*

Cruise 0403C

REPORT

4-17 March 2003

Ports

Loading: 27 February, Fraserburgh

Unloading: 17 March, Fraserburgh

Personnel

S Davis (In Charge)

J Donald

Fishing Gear: Scallop Dredges

Objectives

1. To carry out a survey of scallop stocks around Shetland.
2. To collect information on by-catches of other commercial fish and shellfish species.
3. To collect biological data on component tissue weights of scallops.
4. To collect samples for toxin analysis.

Out-turn Costs Per Project: 14 days MF01Ta

Narrative

The scientific staff joined FRV *Clupea* at 0900 hours on 4 March but did not sail from Fraserburgh until 0830 hours on 5 March due to severe weather. The vessel arrived North East of Sumburgh at 0000 hours on 6 March and the survey commenced here at 0700 hours. Although the bad weather persisted for most of the survey, sampling continued at previous sites as we circumnavigated the islands. The survey was completed at 1500 hours on 15 March and the vessel set sail from South of Scalloway. FRV *Clupea* docked in Fraserburgh at 1100 hours on 16 March. Scientific staff disembarked on the afternoon of 16 March and all scientific equipment and samples returned to Aberdeen on 17 March.

Results

During the survey 91 hauls were made and a total of 5339 scallops were caught. The position of each haul is shown on the map in Figure 1. Catch rates varied from a minimum of 0/hr/m to a maximum of 99/hr/m. The aggregate catch rates for each area, expressed in numbers per hour per metre width at age are shown in Figure 2. The individual graph headings in Figure 2 show the overall catch for each area. 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 six different sites. Samples for toxin analyses were taken from four different sites.

Sharon Davis
12 May 2003

Seen in draft: George Cooper, OIC *Clupea*

Figure 2.

Shetland Scallop Survey 2003

Catch Rate by Age by Area

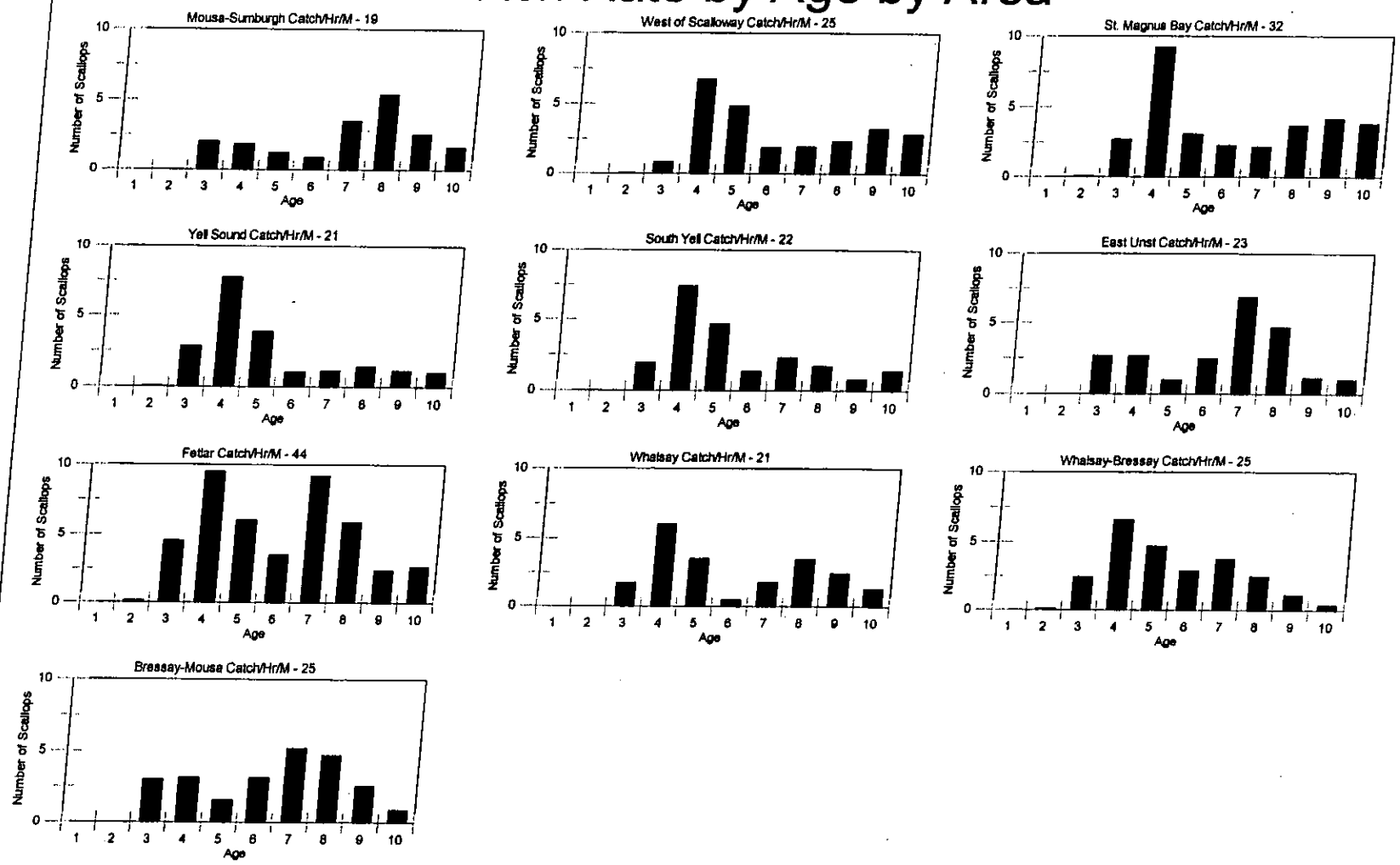


Figure 3.

Shetland Scallop Survey 2003

Catch Rate by Length by Area

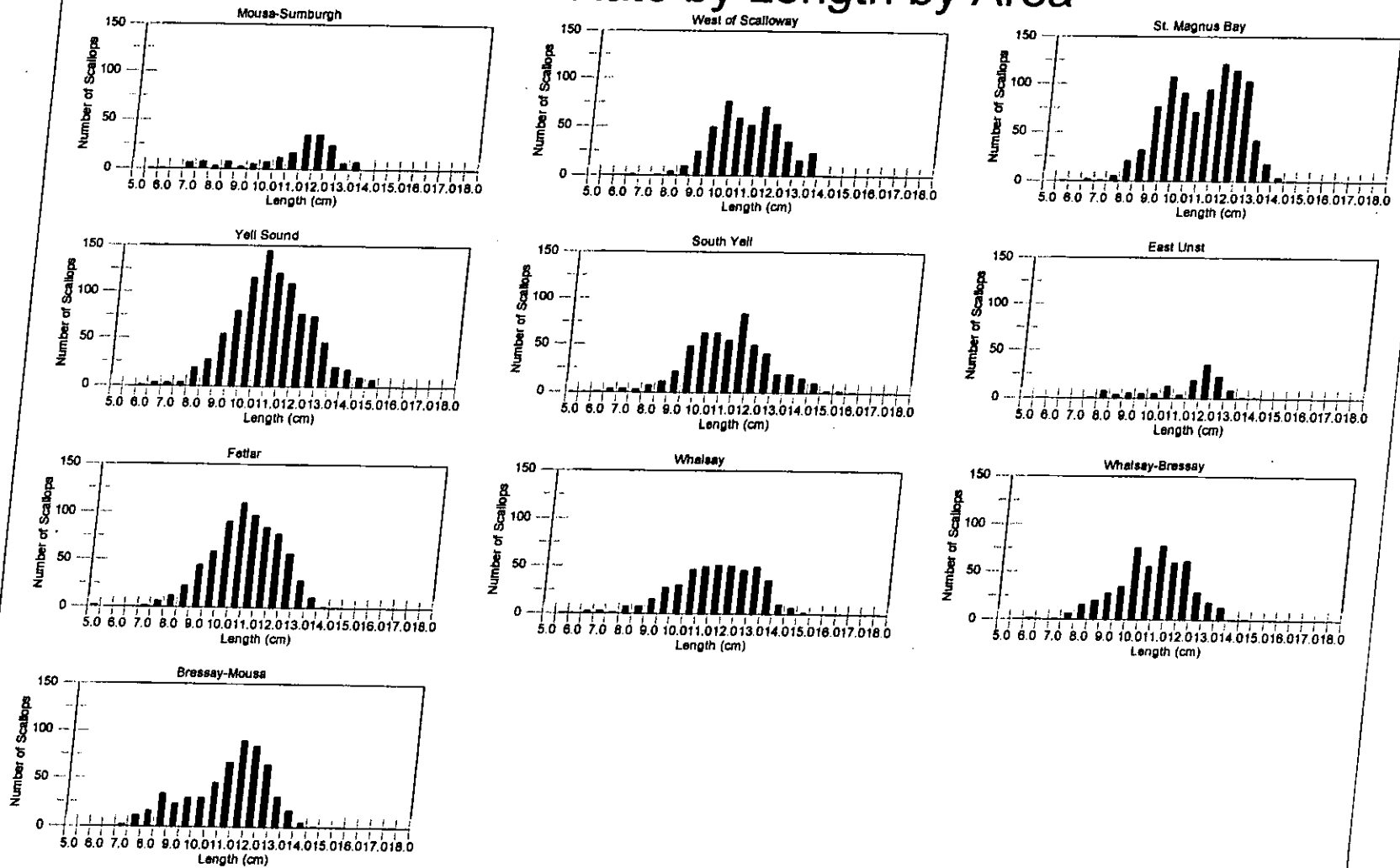


Table 1. Aggregate by-catch

Species	Numbers caught
Aequipecten opercularis	226
Buccinum undatum	41
Cancer pagurus M	101
Cancer pagurus F	118
Hippoglossiodes platessoides	6
Glyptocephalus cynoglossus	5
Lepidorhombus whiffiagonis	3
Limanda limanda	2
Lithodes maja M	2
Lithodes maja F	1
Lophius piscatorius	151
Microstomus kitt	2
Neptunea antiqua	173
Pleuronectes platessa	13
Raja clavata F	1
Raja montagui M	1
Raja montagui F	3
Raja naevus M	24
Raja naevus F	45
Scyliorhinus canicula M	1

Figure 1.

Shetland Scallop Survey 2003

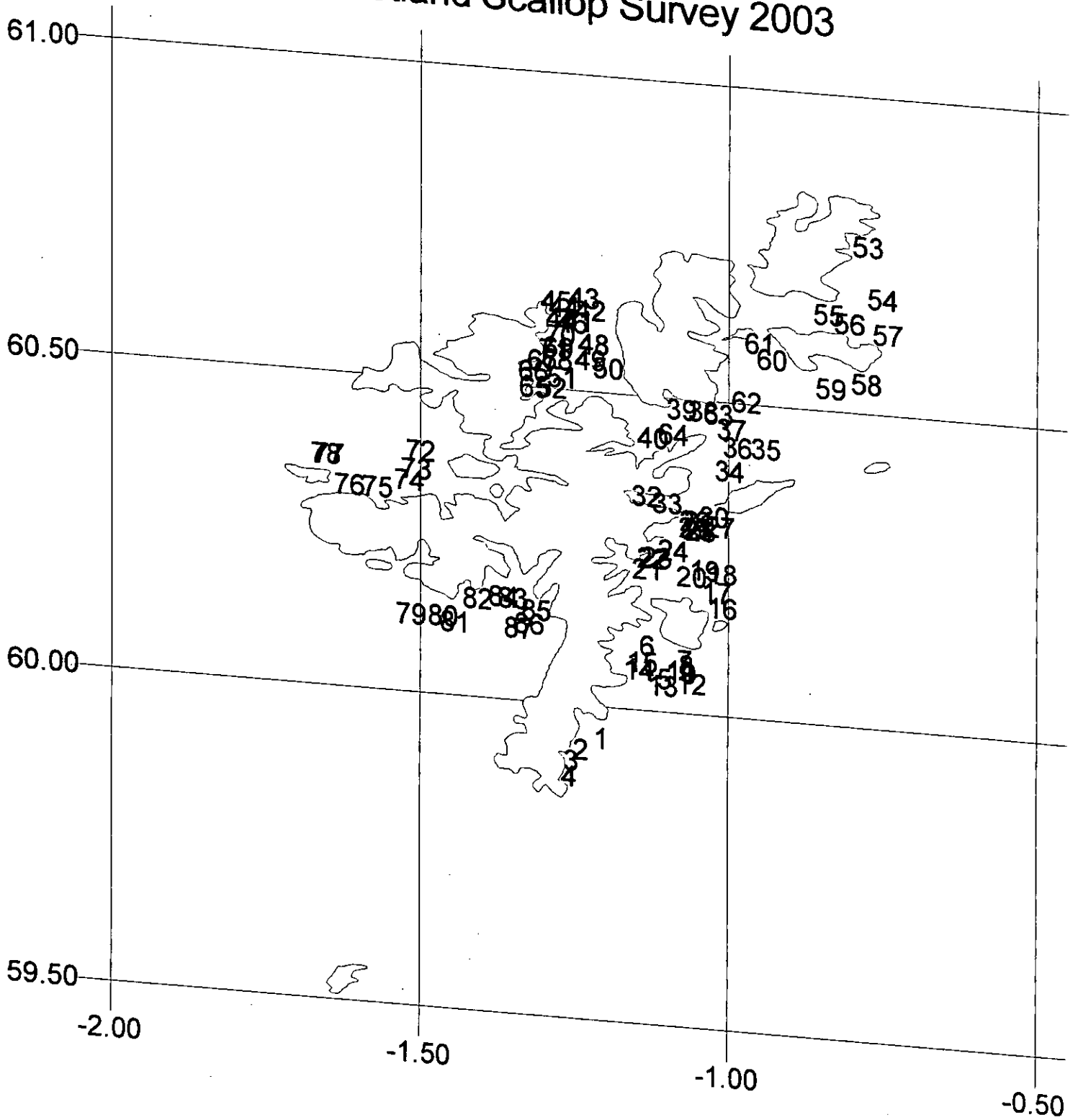


Figure 1.

Shetland Scallop Survey 2003

