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## **FRV *Clupea***

Cruise 0406C

## **REPORT**

13 - 26 March 2006

## **PORTS**

**Loading:** 9 March, Fraserburgh

**Unloading:** 27 March, Fraserburgh

## **Personnel**

S Davis        B2     (In-charge)  
N Brown       A4

**Fishing Gear:** Scallop Dredges

**Cost to project:** 14 days, M01T

## **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 scallop growth rates.

## **Narrative**

The scientific staff joined FRV *Clupea* at 0900 hours on 13 March, but due to bad weather, did not sail from Fraserburgh until 0800 on 15 March. Sampling began NE of Sumburgh at 0700 on 16 March and continued around Shetland until the survey was completed at 1400 on 24 March. The gale force winds prevented the vessel from setting sail for Fraserburgh at this time. Scientific staff made arrangements to fly home later that evening, while the vessel stayed in port until the afternoon of 26 March, arriving back in Fraserburgh at 1000 on 27 March. All equipment and samples returned to the laboratory on 27 March.

## **Results**

During the trip 89 dredge hauls were made and a total of 5630 scallops were caught. The position of each haul is shown on the map in Figure 1. Catch rates varied from a minimum of 4/hr to a maximum of 688/hr. The aggregate catch rates for each area, expressed in numbers per hour per metre width age, are shown in Figure 2. The individual graph headings in Figure 2 show the overall catch rate 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.

S Davis  
29 November 2006

**Table 1:** Total number of each by-catch species

<b>SPECIES</b>	<b>NUMBER CAUGHT</b>
Aequipecten opercularis	316
Aritica Islanica	30
Aspitrigla cuculus	1
Buccinum undatum	108
Callionymus lyra	2
Cancer pagurus B	2
Cancer pagurus F	40
Cancer pagurus M	74
Cancer pagurus( count)	5
Eumicrotremus spinosus	1
Gadus callarias	1
Lepidorhombus whiffiagonis	3
Limanda limanda	2
Lithodes maja M	1
Lophius piscatorius	92
Microstomus kitt	4
Myoxocephalus scorpius	4
Neptunea antiqua	382
Pleuronectes platessa	14
Raja clavata F	1
Raja clavata M	3
Raja montaqui F	1
Raja naevus (count)	6
Raja naevus F	17
Raja naevus M	5
Reinhardtius hippoglossoides	1
Scyliorhinus canicula F	1
Scyliorhinus canicula M	4

Figure 1

# Shetland Scallop Survey 2006

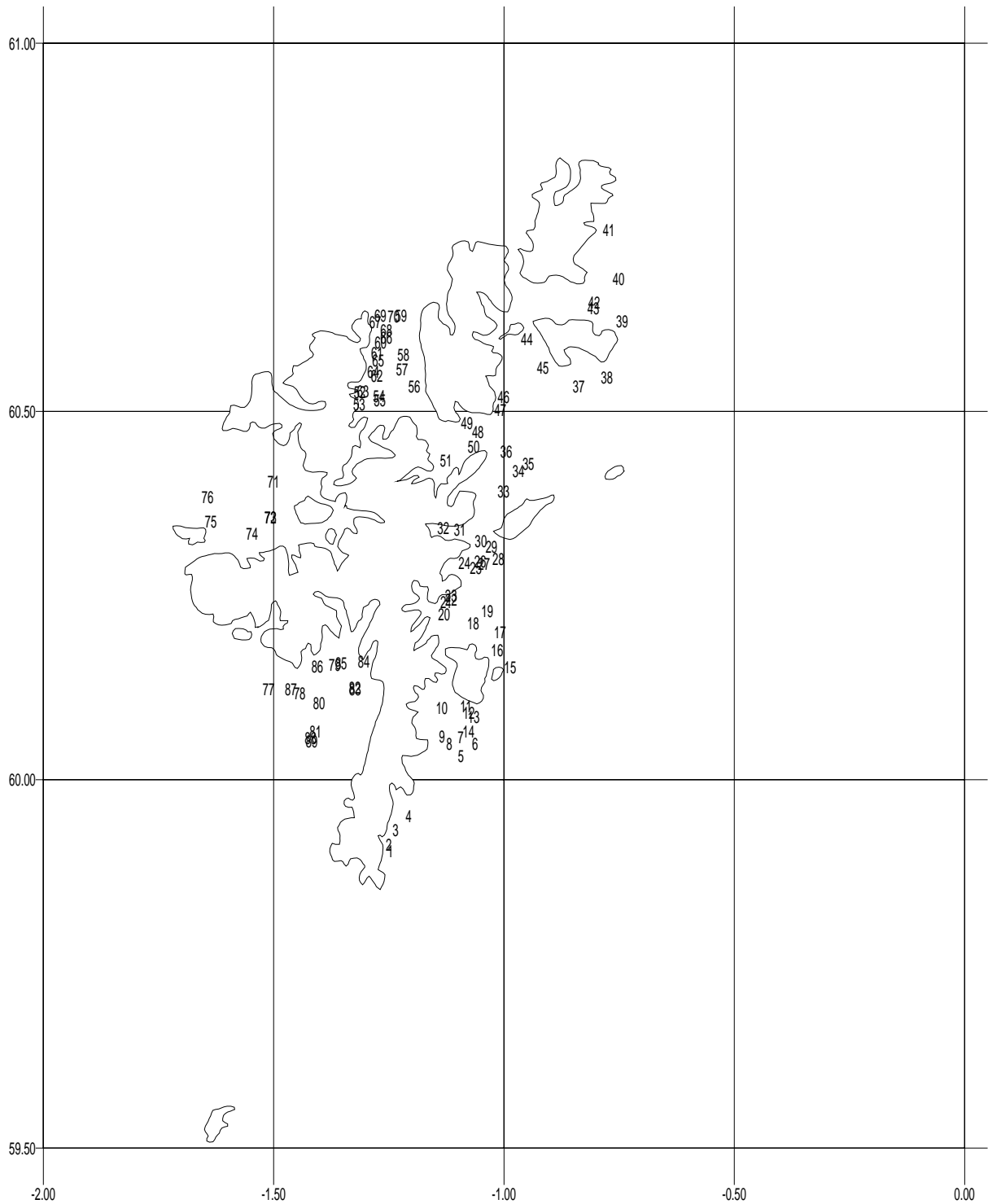


Figure 2.

# Shetland Scallop Survey 2006

## Catch Rate by Age in Area

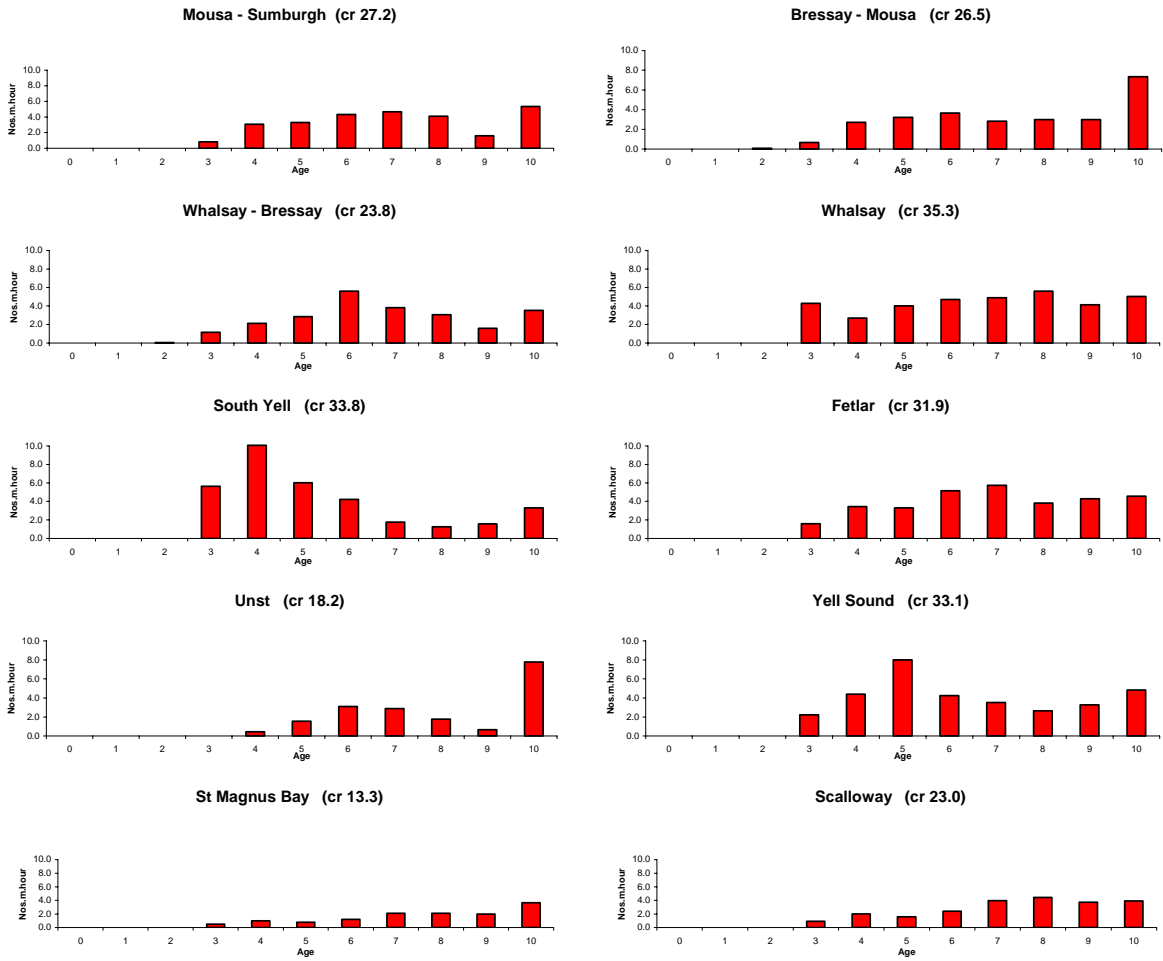


Figure 3.

# Shetland Scallop Survey 2006

## Numbers at Size in Area

