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FRV *Clupea*

Cruise 0905C

## REPORT

22 June – 11 July 2005

### Ports

**Loading:** 17 June, Fraserburgh

**Half Landing:** 1 July, Fraserburgh

**Unloading:** 11 July, Fraserburgh

### Personnel

T Howell	In charge (1-11 July)
S Davis	In charge (22-30 June)
M Harding	(22–30 June)
N Brown	(1–11 July)

**Fishing Gear:** Scallop dredges

**Costs to Project:** 20 days MO1TA

### 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 ring measurements.
4. To collect *Galathea* sp. samples for DNA testing.

### Narrative

The scientific staff joined FRV *Clupea* at 0900 hours on 22 June and sailed from Fraserburgh almost immediately. Sampling began to the Northeast of Fraserburgh and then *Clupea* covered the East Coast Management Area grounds over the following 7 days. On 30 June *Clupea* crossed into the North East Management Area grounds and continued sampling there until the half landing (see Fig. 1). After the half landing, sampling continued in the North East Management Area grounds for the most of the remainder of the cruise. On 9 July a stratified random survey was carried out to the North East of Tarbat Ness. The following day *Clupea* returned to Fraserburgh at the end of the cruise.

### Results

During the trip 132 dredge hauls were made, and a total of 6681 scallops were caught. The position of each haul is shown in Figure 1. Catch rates varied from a minimum of 0/hrm to a maximum of 77/hrm. 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 individual graph headings in Figure 3 show the percentage of scallops less than 100 mm for each statistical rectangle. The numbers of each by-catch species caught is given in Table 1.

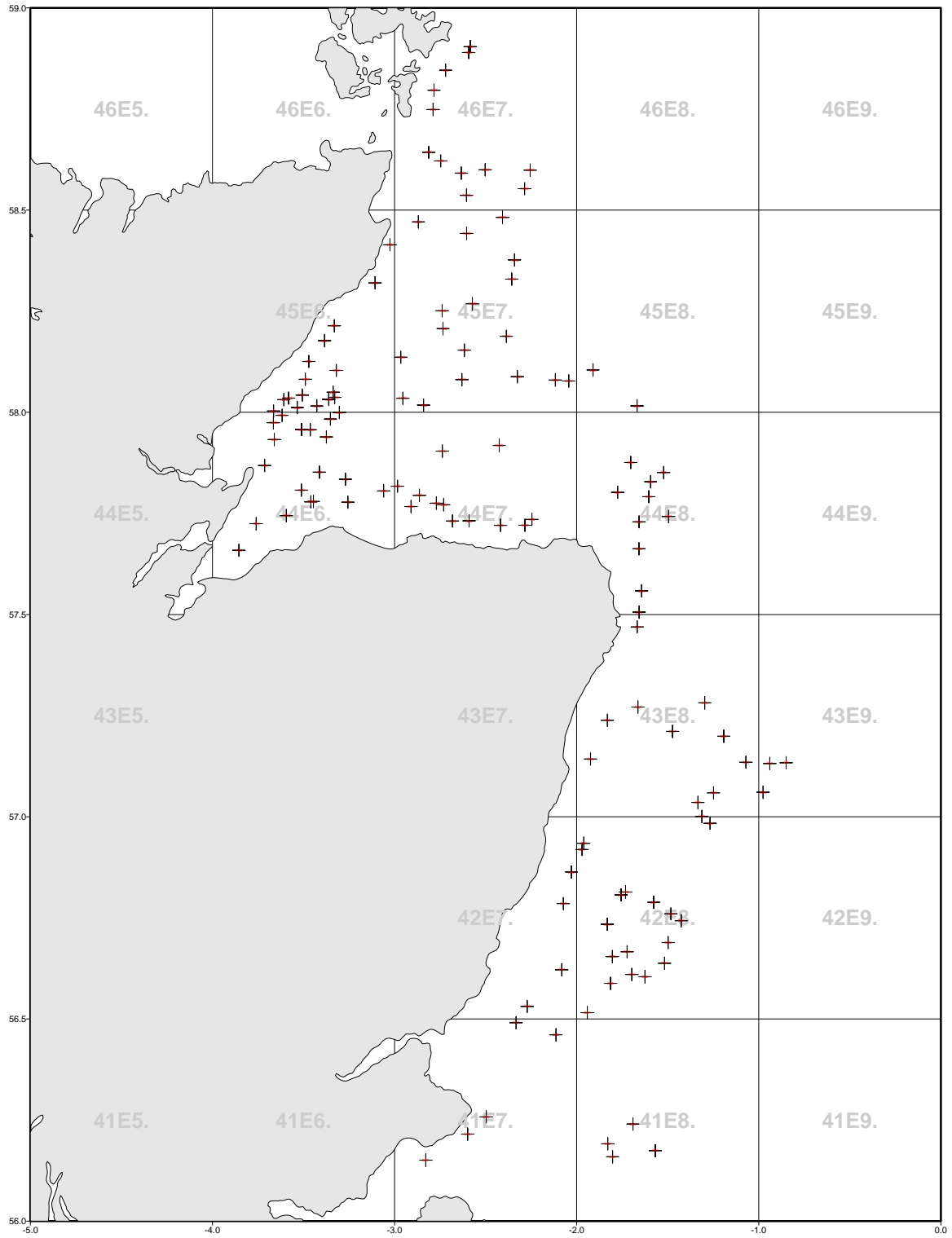
T Howell  
8 November 2005

Seen in draft: A Nicol, OIC *Clupea*

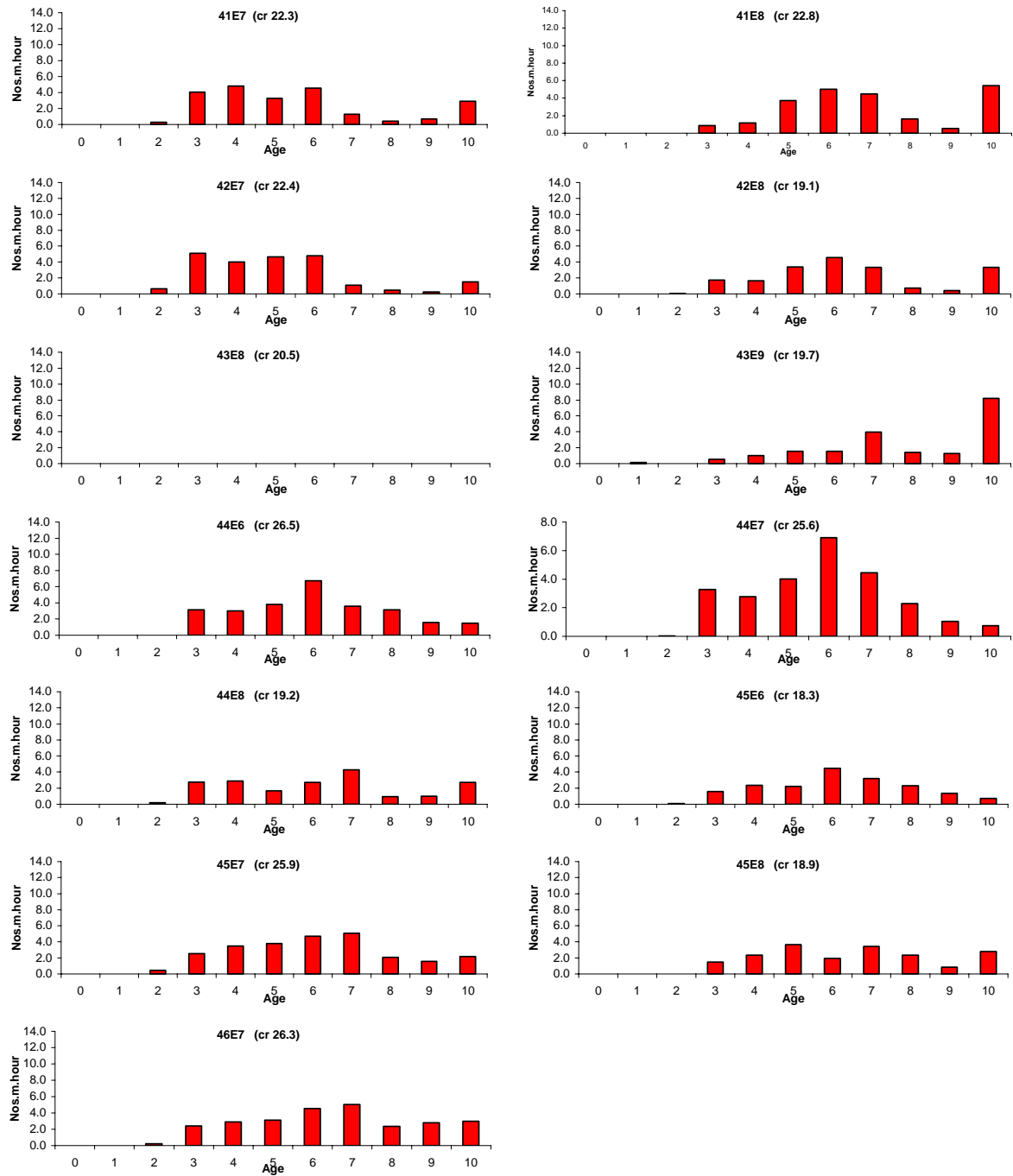
Table 1

SPECIES	NUMBER CAUGHT
<i>Aequipecten opercularis</i>	607
<i>Aspitrigla cuculus</i>	1
<i>Buccinum undatum</i>	119
<i>Cancer pagurus</i> M	36
<i>Cancer pagurus</i> F	30
<i>Cancer pagurus</i> B	4
<i>Cancer pagurus</i> ( count)	4
<i>Hippoglossoides platessoides</i>	19
<i>Limanda limanda</i>	25
<i>Lithodes maja</i> M	12
<i>Lithodes maja</i> F	22
<i>Lithodes maja</i> B	12
<i>Lophius piscatorius</i>	51
<i>Microstomus kitt</i>	22
<i>Necora puber</i> M	7
<i>Necora puber</i> F	4
<i>Necora puber</i> B	2
<i>Neptunea antiqua</i>	413
<i>Pleuronectes platessa</i>	31
<i>Raja clavata</i> F	1
<i>Raja naevus</i> M	15
<i>Raja naevus</i> F	21
<i>Scyliorhinus canicula</i>	1

Figure 1 2005 East Coast Survey



**Figure 2**



**Figure 3**

