### P17/6

Not to be cited without prior reference to the FRS Marine Laboratory, Aberdeen

FRV Clupea

Cruise 0505C

### **PROGRAMME**

1-20 April 2005

#### **Ports**

Loading: Fraserburgh Unloading: Fraserburgh

Personnel Exchange: Kyle of Lochalsh, Ardrossan and/or Rothesay (or suitable

alternatives)

Working: Stornoway, Kyle, Rothesay, or suitable alternatives to be agreed with the OIC

FRV Clupea

\*In setting the cruise programme and specific objectives, etc the Scientist-in-Charge needs to be aware of the restrictions on working hours and the need to build in adequate rest days and rest breaks as set out in FRS' Working Time Policy (which is published on the Intranet). In addition, the Scientist-in-Charge must formally review the risk assessments for the cruise with staff on-board before work is commenced.

In the interest of efficient data management it is now mandatory to return the Cruise Report, to John Morrison and the Cruise Summary Report (old ROSCOP form) to Dougal Lichtman, within four weeks of a cruise ending. In the case of the Cruise Summary Report a nil return is required, if appropriate.

### Personnel

\*J Mckie 8–20 April (In charge 8-20 April) P Hayes 1–16 April (In charge 1–8 April)

D Moore 12–20 April
G Rodger 12–16 April
C Shand 1-20 April
A McIntosh 1-06/8 April
M McKenzie 1-06/8 April
E Dalgarno 8-12 April
G Packer 8–12 April

## **Fishing Gear**

BT 158

### **Sampling Gear**

TV sledge, TV drop frame, grabs, sieve table and agassiz trawl. Liquid nitrogen will be carried. Additional small freezer for lab will be required.

## **Project Codes**

AE02n 20 days

## **Objectives**

- 1. To collect fish and biota samples for biological effects measurements using bottom trawl and/or beam trawl at the Stornoway dredged material disposal site. Sample preparation and preservation will be undertaken onboard Clupea.
- 2. To undertake Agassiz, underwater television (UWT), grab and RoxAnn surveys of the Skye and Lochinver dredged material disposal sites to assess the condition of the seabed, identify the predominant benthic epifauna species, and the distribution of man-made debris.
- 3. To undertake Agassiz, underwater television (UWT), grab and RoxAnn surveys at five potential sea disposal sites off Islay.
- 4. To undertake Agassiz, grab, RoxAnn and underwater television (UWT) surveys at potential fish waste disposal sites in the vicinity of Skye and Kirkcudbright.
- 5. To undertake water, sediment and biological sampling for the National Marine Monitoring Programme and, to collect water samples as part of the Scottish Coastal Eutrophication Assessment Survey at the Clyde and Solway Firth stations.
- 6. To undertake Agassiz, grab, RoxAnn and underwater television (UWT) surveys at potential dredged material disposal sites in the vicinity of Whitehills. (Contingency)
- 7. To undertake grab and underwater television (UWT) surveys at Guillam Bank to complete work started in 2004. (Contigency)
- 8. The biological effects samples for objective 4 will be measured for EROD, PAH and PCB's, PAH metabolites and Vtg.
- 9. Sediment samples for Objectives 1, 2, 3, 4, 6 and 7 will be analysed for heavy metals (limited), PCB's (limited), PAH's and TBT. Particle size and organic carbon will also be undertaken.

### **Procedure**

Scientific staff and equipment will be transported to Fraserburgh during the morning of 21 March (provisional), to load the vessel and set-up selected survey equipment. The staff will return to Aberdeen later that day. Cruise personnel will join the vessel at Fraserburgh during the morning of 1 April. The vessel will depart Fraserburgh as soon as possible, and proceed to Guillam Bank or Whitehills (optional depending on weather and tide - prefer to sail direct to Stornoway) to start the work programme outlined in Objectives 6 and 7. Upon completion of the work programmes outlined in Objective 6 or 7 the vessel will proceed to Stornoway to complete the work outlined in Objective 1. On completion of Objective 1 both Alistair McIntosh and Margaret McKenzie may disembark in Stornoway and return to Aberdeen. The rest of the programme will be tackled to suit the weather conditions and scientific crew change requirements, although it is intended to complete Objectives 4 (Kirkcudbright) and 5 before 11 April. The *Clupea* will remain on the west coast until the 16/17 April after then it will return to the east coast to complete Objectives 6 and 7. Cruise personnel will disembark as soon as unloading is completed on the morning of 20 April, to return to Aberdeen.

Due to the overall length of the cruise a half landing is scheduled for the 11/12 April, port to be determined. It may also be necessary because of the Working Time Directive to arrange rest days for certain personnel before and/or after the end of the cruise.

Transfer arrangements will be agreed during the cruise, however, it is thought these will occur on or near 8, 12 and 16 April. Day-to-day operations, including working hours, personnel transfer arrangements and the working and transfer ports, will be agreed with the OIC FRV *Clupea* during the course of the cruise.

J A Morrison 9 March 2005

#### **CLUPEA VESSEL**

Programmes - Mr J A Morrison for approval. Reports - Mr J A Morrison for approval.

Issue two copies of Record of Haul and Station Numbers pro-forma with Scientist-in-Charge's copy of *Scotia* and *Clupea* programmes.

Two xerox copies of track chart for reports to be sent to Dr L Rickards.

### **PROGRAMMES ONLY**

Lab staff Non-lab staff

Mr J T M Hunter Mr T Reid Mr P J Copland Mr J Dunn Mr A Beaton J Petrie Security Island Cmdr Faroes (Faroes only)
Flag Officer, Denmark (Danish part of N Sea only)

Coastguard G Lees

## PROGRAMMES AND REPORTS

Lab staff Non-lab staff

Mr J A Morrison Capt R Denholm

Mr R S T Ferro ) Fish Man team Mr C Hall ) progs only

Dr R M Stagg Dr C Moffat Mr M R Heath Mr A Macdonald

D Lichtman (+ additional copy of track chart

of reports only) Mrs E Morrison

CO/OIC of Vessel (Scotia) (to be faxed)

Library (2) File Library, Danmarks Fisk (reports only)
Mr J Mortensen (Faroes only)

Mr A Souplet (Fishing Cruises only)

Dr S Ehrich (Entering German Waters) (reports only)

W J McCurdy, Belfast

Technical Director, SFIA (J E Tumilty)

Dr L Rickards Dr I Joint

Director - Havfor Inst, Norway

Dr S Ehrich

Monsieur le Chef du dépt, Nantes

Mr J C Brabant

Mrs van Duyvenvoorde

Dr J G Gordon G Kane R de Clerck Mr B Stewart

Capt J Cannan (Scotia and Clupea only) Controller Coastal Ops - A Stewart

Dr P Grieg-Smith Mr H C Boyar Dr R J A Atkinson Mr H i Jákupsstovu

Frasebrurgh

Mr C Bullimore (To be faxed: 01923 846392)

### **Laboratory Personnel on Vessel**

# Fishery Officers at

\*J Mckie A McIntosh
P Hayes M McKenzie
D Moore E Dalgarno

G Packer

G Rodger C Shand

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