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

FRV *Alba na Mara*

Cruise 1208A

## **PROGRAMME**

1-17 November 2008

### **Ports**

**Loading:** Fraserburgh

**Unloading:** Fraserburgh

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 (Lab Notice 34/03). 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 Iain Gibb 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**

Alistair McIntosh      SIC

Margaret McKenzie

Gillian Packer

A N Other              (To be confirmed)

**Fishing gear:** BT 158; 2m beam trawl

### **Objectives**

1. To undertake fish and sediment sampling in the Clyde and Minch areas in support of the temporal trend and biomarker monitoring studies.
2. To undertake sampling of flounder in St Andrews Bay, the Firth of Forth and from the upper Forth in support of the ICON (Integrated Chemical and Biological Effects) Programme and biomarker monitoring studies.
3. To undertake sampling of flounder collected from upper Clyde on behalf of SEPA West.
4. To sample fish and sediment from the Clyde and Solway Firth CSEMP stations.
5. To determine bile metabolite concentrations on board.

**Estimated Days per Project:** 17 days 10124 (AE11p)

### **Procedure**

Loading of scientific gear will take place on 1 November. After all gear has been stowed, *Alba na Mara* will sail south to St Andrews Bay and the Firth of Forth before heading north for the Minches, Clyde and Solway Firth areas.

During the course of this survey, fish, and sediments from trawl tracks, will be sampled from:

St Andrews Bay (flounder)

Firth of Forth, Blackness (flounder)

Upper Forth, Alloa (flounder) (fish to be collected by Stirling University and delivered to *Alba na Mara* at an agreed location)

Broad Bay (plaice)

Colonsay (plaice)

Outer Clyde, Pladda (plaice); 5 random fixed sediment sites for chemistry and benthos (CSEMP)

Inner Clyde, Garroch Head, Irvine Bay, Hunterston, Skelmorlie and Holy Loch (plaice)

Upper Clyde, Bowling (flounder), to be sampled by SEPA and transferred to *Alba na Mara*

Solway Firth (plaice); 5 random fixed sediment sites for chemistry and benthos (CSEMP)

On completion of this survey, *Alba na Mara* will return to Fraserburgh where all scientific gear and samples will be transferred to the ML Aberdeen.

### **Rest Day Provision**

Rest day provision for this cruise will be provided by a half-landing at a convenient time and place (decided during the cruise).

### **General Arrangements**

Liquid nitrogen and other chemicals will be carried abroad for the preservation and storage of biological material.

Normal contacts will be maintained with FRS.

Submitted

A McIntosh

8 October 2008

Approved

I Gibb

10 October 2008

# 1208A proposed sampling sites

