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FRV *Alba na Mara*

Cruise 1809A

## **PROGRAMME**

6 - 22 November 2009

### **Ports**

**Loading:** Greenock

**Half Landing:** Port and date to be decided later depending on progress and weather

**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 Marine Scotland's 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 I Gibb and the Cruise Summary Report (old ROSCOP form) to D Lichtman, within four weeks of a cruise ending. In the case of the Cruise Summary Report a nil return is required, if appropriate.

### **Personnel**

A McIntosh (SIC)

M McKenzie (first half)

C Robinson (second half)

G Packer

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

### **Objectives**

1. To undertake fish and sediment sampling in the Firths of Forth and Clyde and Minch areas in support of the temporal trend and biomarker monitoring studies.
2. To undertake sampling of flounder collected from upper Clyde on behalf of SEPA West.
3. To sample fish and sediment from the Clyde and Solway Firth CSEMP stations.
4. To determine bile metabolite concentrations on board.

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

### **Procedure**

Staff will travel with the remaining scientific gear and join the vessel on 6 November. After all gear has been loaded and stowed, *Alba na Mara* will sail for the Clyde and Solway Firth areas.

During the course of this survey, fish, and sediments from trawl tracks, will be sampled from: 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) Colonsay (plaice), Broad Bay (plaice).

On, or before, completion of the west coast sampling, there will be a half-landing before *Alba na Mara* will sail for the east coast. M McKenzie will disembark and C Robinson will join before the vessel will head for the Firth of Forth to complete the sampling programme - Firth of Forth, Blackness (flounder) and St Andrews Bay (flounder).

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 some convenient time and place to be 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 the Laboratory.

Submitted:  
A D McIntosh  
09 September 2009

Approved:  
I Gibb  
09 October 2009.

# 1809A proposed sampling sites

