

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

FRV *Alba na Mara*

Cruise 1410A

## PROGRAMME

20 October – 3 November 2010

### Ports

**Loading:** Fraserburgh

**Unloading:** Clyde (port to be decided)

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 M Geldart, 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)	20 – 26/27 October
M McKenzie		20 – 26/27 October
G Packer		20 October – 3 November
C Robinson		26/27 October – 3 November
P Dymond		26/27 October – 3 November

**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 integrated assessment of biomarker monitoring studies.
2. To sample flounder from upper Clyde at Bowling.
3. To sample fish and sediment from the Clyde and Solway Firth CSEMP stations.
4. To determine PAH metabolites in bile from these fish, if time allows.

**Estimated Days per Project:** 15 days 11101 (AE11p)

## **Procedure**

After all gear has been stowed, *Alba na Mara* will sail 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: Broad Bay (plaice), Colonsay (plaice), outer Clyde at Pladda (plaice); 5 random fixed sediment sites for chemistry and benthos (CSEMP), inner Clyde at Garroch Head, Irvine Bay, Hunterston, Skelmorlie (plaice), Holy Loch (plaice and flounder), upper Clyde, Bowling (flounder), Solway Firth (plaice and dab); 5 random fixed sediment sites for chemistry and benthos (CSEMP).

On completion of this survey, *Alba na Mara* will berth in a Clyde port 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 on 26/27 October, at a time and place to be decided during the cruise when there will be a staff transfer.

## **General Arrangements**

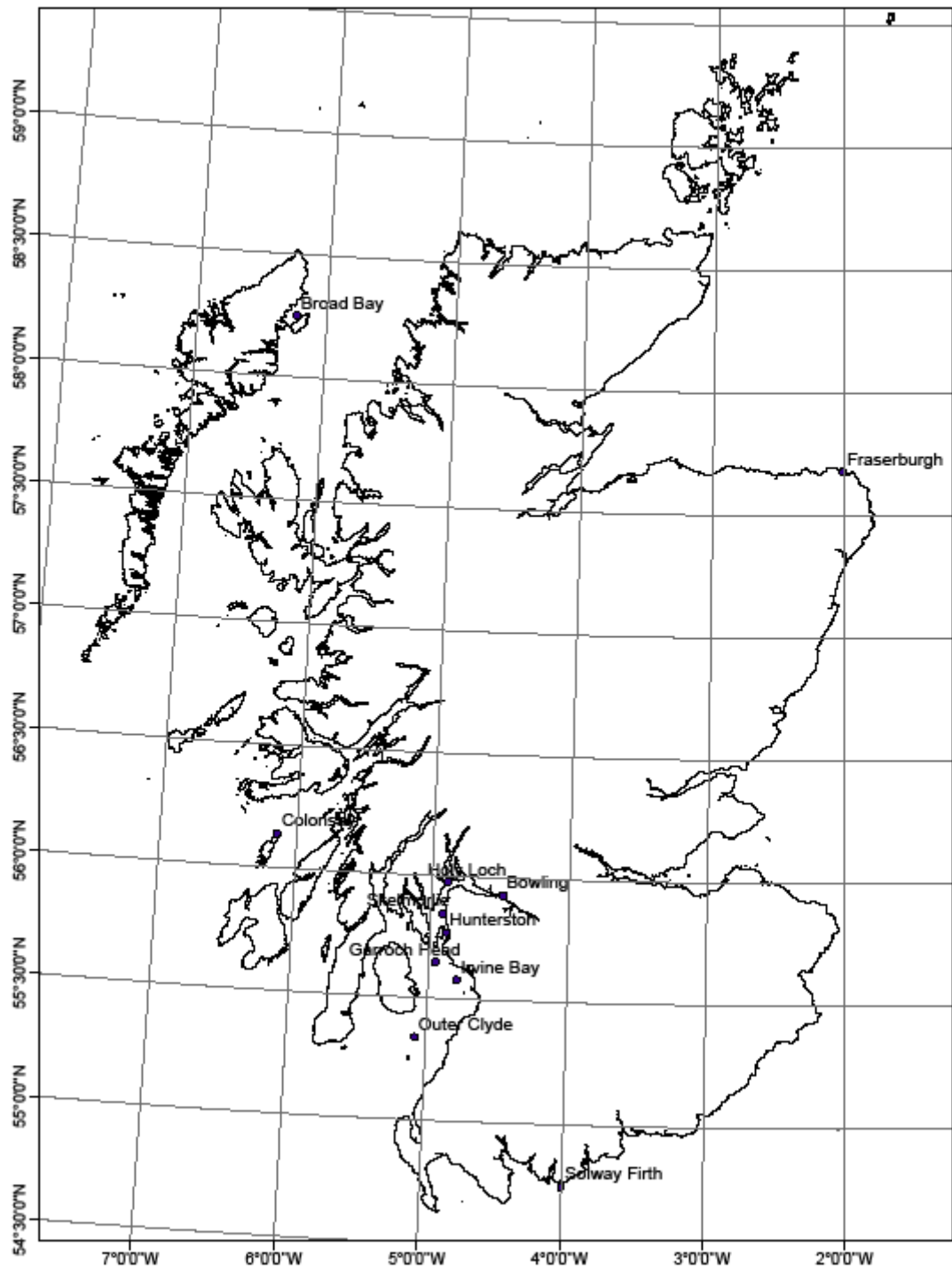
Liquid nitrogen and other chemicals will be carried aboard for the preservation and storage of biological material.

Normal contacts will be maintained with the Laboratory.

Submitted:  
*A D McIntosh*  
27 August 2010

Approved:  
*I Gibb*  
30 August 2010

# 1410A proposed sampling sites



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FRV Alba na Mara

Cruise 1410A

20 October – 03 November 2010

**PROGRAMME AMENDMENT**

The staff list for cruise 1410A is now as follows:

A McIntosh	SIC	20 – 26/27 October
P Dymond		20 – 26/27 October
C Robinson	SIC	26/27 October – 3 November
M McKenzie		26/27 October – 3 November
G Packer		20 October – 3 November

*I Gibb*

11 October 2010