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

MRV *Sir John Murray*

Survey 0118SJM

PROGRAMME

12-16 March 2018

Ports
Loading: 12 March, Port of Troon
Unloading: 16 March, Port of Troon

In setting the survey 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 survey with staff on-board before work is commenced.

In the interest of efficient data management it is now mandatory to return the survey report, to I Gibb and the survey Summary Report (old ROSCOP form) to M Geldart, within four weeks of a survey ending. In the case of the survey Summary Report a nil return is required, if appropriate.

Personnel

E Dalgarno	SIC
G McAllistair	
M Pace	(Glasgow University)
M Choua	(Strathclyde University)

Gear: Craib corer, CTD, Day grab, Auto sieve.

Project: 5 days, 20453

Objectives

1. To compare pore-water nutrients, sediment chlorophyll-a and organic matter content among seabed sediments from the Outer and Inner Firth of Clyde and sea lochs.

Procedure

Figure 1 shows the stations that were successfully sampled over the course of previous surveys (April and October 2017). The proposed survey in March 2018 will revisit a subset of these stations to gain comparable data on nutrient and sediment chlorophyll content between the Inner and Outer Firth, as well as additional information on sediment mixing.

Given the time required to steam between the dispersed stations, the survey anticipates the sampling of ~3 stations per day. Under this scenario, we assume the collection of six replicate cores per station, of which three are analysed for pore-water nutrients and three for Chlorophyll-a, with the extraction of five nutrient samples of each nutrient or seven sediment chlorophyll samples per core. Thus, four days of sampling would yield:

- 36 cores for the analysis of pore-water nutrients.
- 144 pore-water nutrient samples.
- 36 overlying water nutrient samples.

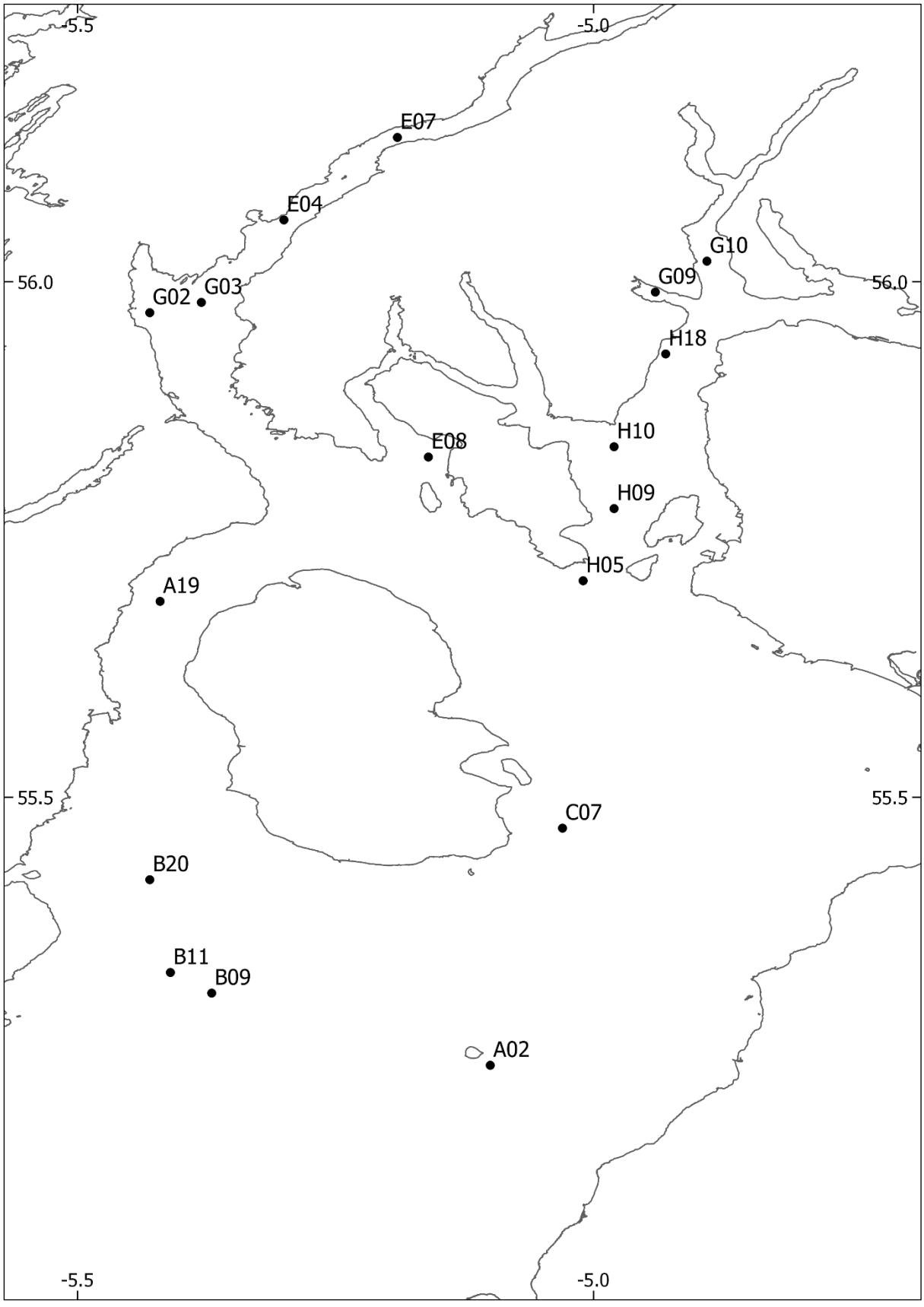
- 36 cores for the analysis of sediment chlorophyll.
- 252 samples for the analysis of sediment chlorophyll

Normal contacts will be maintained with the laboratory.

Submitted:
E Dalgarno
06 March 2018

Approved:
I Gibb
08 March 2018

Figure 1. The image below shows the locations of proposed stations to be sampled.



Ancillary Information - Required Documentation

From Glasgow University

1) Copy of cover note of Personal Liability Insurance
2) Risk Assessments for
    - Coring
    - Lab work
3) COSHH forms for
    - Acetone

Ancillary Information – Chemicals to be Carried

1. Acetone.

2. HPLC-grade deionised water