

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

MRV *Alba na Mara*

Survey 1819A

## PROGRAMME

21 - 31 October 2019

**Loading:** Troon, 18 October 2019

**Boarding:** Troon, 21 October 2019

**Unloading:** Fraserburgh, 31 October 2019

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.

### Project:

20484, 2 days.

20397, 9 days

### Sampling Gear & Equipment

Marine mammal monitoring moorings (recovered + redeployed at 8 sites)

- 80 kg clump weight
- Vemco VR2AR acoustic release
- Loggerhead DSG-ST sound recorder
- Chelonia C-POD

Day grab (x 2, plus table)

### Objectives

1. To service (recover and redeploy) marine mammal monitoring moorings with acoustic releases, at eight sites in the Sea of the Hebrides and North Minch.
2. To collect sediment samples at a number of sites south of Skye (positions TBC)
3. Attempt to locate and recover "missing" buoy close to Eilean Liubhaird, Isle of Lewis (57° 58 N, 6° 23 W).

### Operations

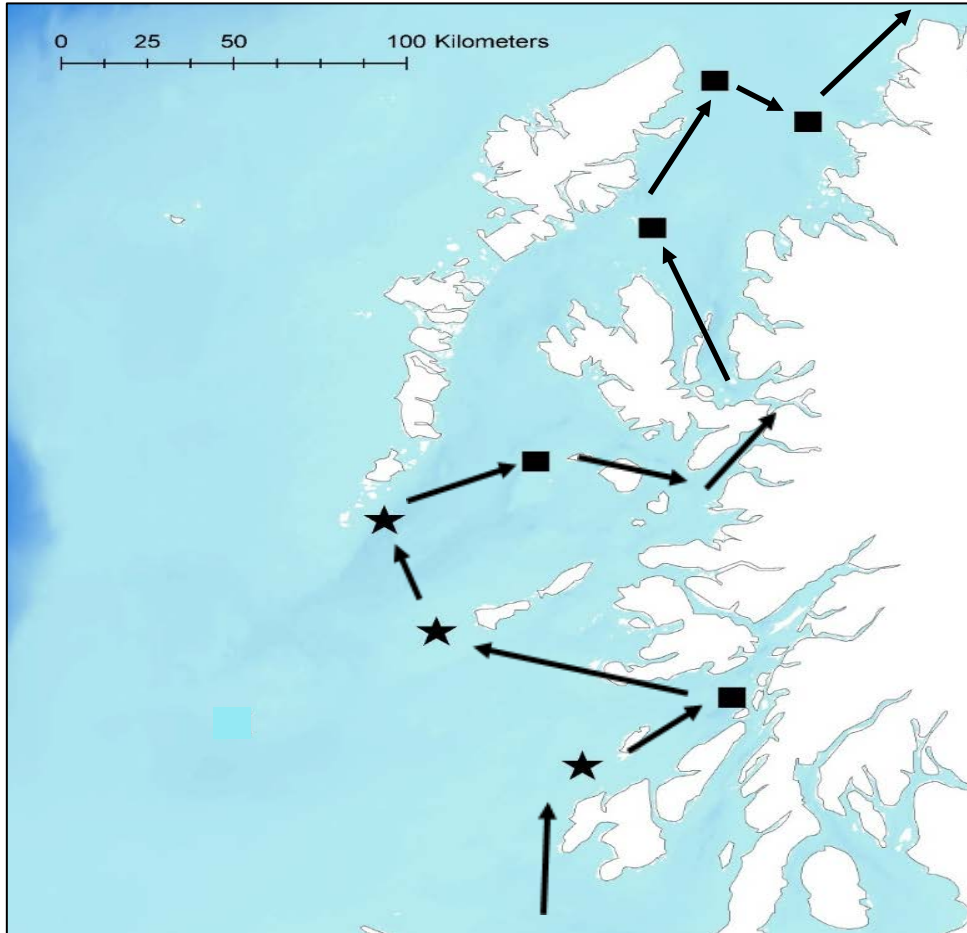
Once the vessel sails from Troon and all relevant drills have been completed, the vessel will head for the first mooring location at North Islay and work in a Northerly direction thereafter (Figure 1 / Table 1). Survey operations will take place between the hours of 07:00 and 19:00. Stations will be serviced depending on the prevailing weather conditions i.e. if wind strengths or wave heights are adverse, a precautionary approach will be adopted.

Sediment sampling with the Day grab will be undertaken South of Skye.

An attempt to locate and recover a "missing" buoy close to Eilean Liubhaird, Isle of Lewis (57° 58 N, 6° 23 W) will be undertaken (weather permitting).

A typical mooring is shown in Figure 2.

Unloading will occur in Fraserburgh on 31 October and scientists will disembark at this time.



**Figure 1.** Map illustrating suggested route of Alba na Mara during this survey (weather dependent). Sediment sampling will take place in the area south of Skye (locations to be confirmed). Passive acoustic monitoring stations are indicated by squares (COMPASS project) and stars (MarPAMM project).



**Figure 2:** Mooring laid out on deck of Scotia

	Lat (degrees)	Lat (decimal minutes)		Lon (degrees)	Lon (decimal minutes)		Depth
Stoer Head	58	15.440	N	5	32.210	W	100
Tolsta Head	58	23.520	N	6	0.520	W	100
Eilean Liubhard	57	58.288	N	6	22.608	W	62
Shiant Isles	57	52.170	N	6	16.170	W	85
Hyskeir	57	2.120	N	6	45.170	W	50
Mingulay	56	48.257	N	7	31.065	W	88
Skerryvore	56	26.146	N	7	6.844	W	46
Garvellach Isles	56	14.060	N	5	45.440	W	92
Islay	55	57.834	N	6	29.192	W	62

**Table 1.** Table of mooring locations

Normal contact will be maintained with the Laboratory.

Submitted:  
E. Edwards  
09 October 2019

Approved:  
I. Gibb  
15 October 2019