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MRV *Alba na Mara*

## Survey 1621A

### PROGRAMME

11-26 November 2021

#### Ports

**Loading:** Fraserburgh, 09 November 2021

**Unloading:** Leith, 26 November 2021

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:** 20231, 20593, 20594 - 16 days

**Gear:** Subsurface passive acoustic moorings (incl. cetacean detectors and sound recorders)

#### Objectives:

1. To retrieve 39 moorings at ECOMMAS, Seagreen and NNG marine mammal/noise monitoring locations (All with C-PODs or F-PODs cetacean click detectors; 19 with C-PODs/FPODs and sound recorders).
2. To deploy 11 moorings at ECOMMAS, Seagreen and NNG marine mammal/noise monitoring locations (All with C-PODs or F-PODs cetacean click detectors and sound recorders).
3. To retrieve one mooring near Wick/Duncansby Head with C-POD cetacean click detector and sound recorder.

Vessel capability, weather conditions and water depth will dictate whether inshore deployment locations are operationally possible. A daily programme of work will be agreed with the vessel master.

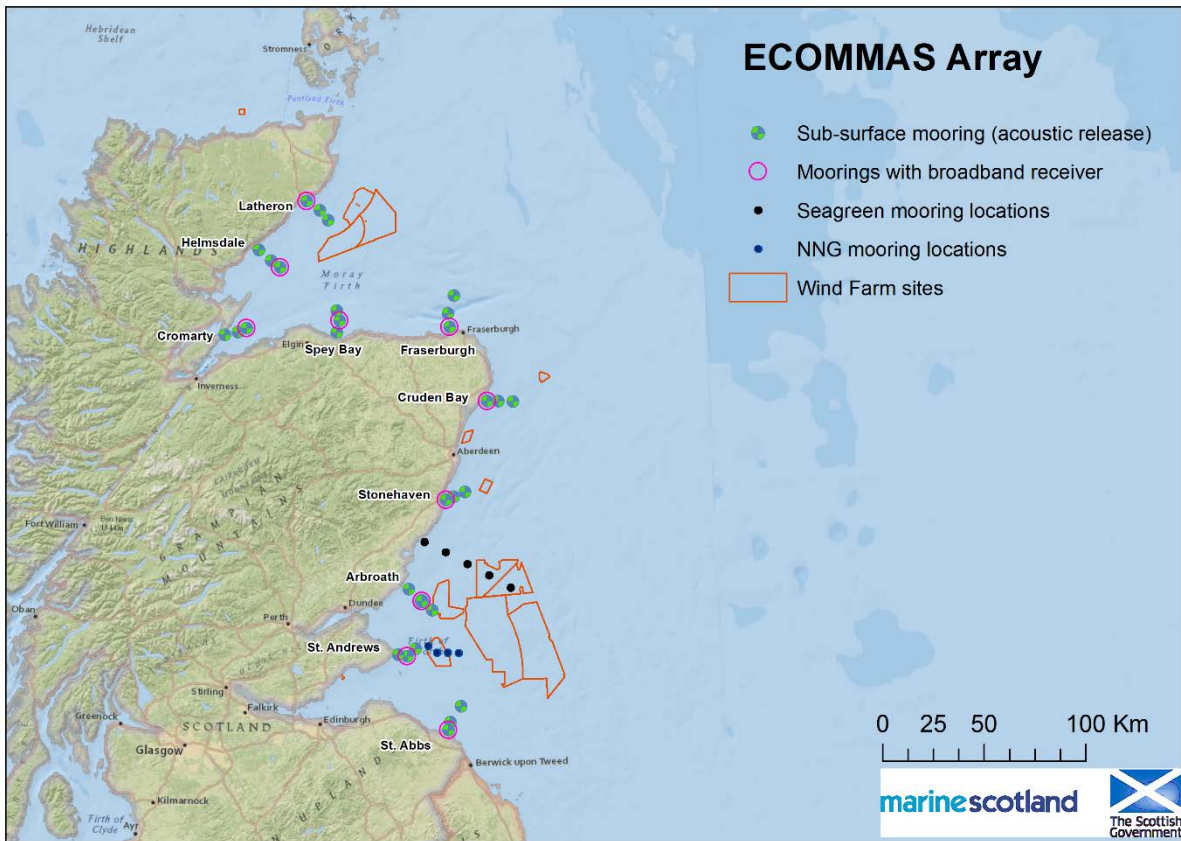
A Notice to Mariners has been issued for all mooring locations. Any updates or location changes will be issued if required.

Daily notifications to both Seagreen and NNG will be undertaken from the vessel when operating within their designated areas.

Normal contacts will be maintained with the laboratory.

Submitted: P Stainer, 04 November 2021

Approved: I Gibb, 08 November 2021



**Figure 1:** Locations of the ECOMMAS, Seagreen and NNG moorings are detailed in Tables 1 and 2



**Figure 2.** Location of the Duncansby Head mooring is detailed in Table 1

**Table 1:** ID, name and geographic position of all 30 ECOMMAS moorings and the Duncansby Head mooring to be retrieved during 1621a. Moorings at Arbroath 10 and Helmsdale 15 will be redeployed. All moorings are subsurface for acoustic release recovery.

<b>Location</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Sound recorder?</b>	<b>Recovery method</b>
Duncansby Head	58.37 578	-3.02040	<b>Y</b>	AR
Fraserburgh 15	57.849141	-2.089825		AR
Fraserburgh 10	57.770775	-2.141328		AR
Fraserburgh 5	57.711263	-2.130103	<b>Y</b>	AR
Spey Bay 15	57.786933	-3.064216		AR
Spey Bay 10	57.74146	-3.038821	<b>Y</b>	AR
Spey Bay 5	57.69018	-3.062381		AR
Cromarty 15	57.706651	-3.81065	<b>Y</b>	AR
Cromarty 10	57.68915	-3.881785		AR
Cromarty 5	57.6749	-3.98828		AR
Helmsdale 15	57.975698	-3.535645	<b>Y</b>	AR
Helmsdale 10	58.00505	-3.610723		AR
Helmsdale 5	58.05338	-3.715275		AR
Latheron 10	58.229323	-3.205925		AR
Latheron 15	58.186686	-3.135715		AR
Latheron 5	58.269341	-3.318166	<b>Y</b>	AR
Cruden Bay 5	57.380185	-1.828393	<b>Y</b>	AR
Cruden Bay 10	57.380146	-1.738071		AR
Cruden Bay 15	57.376868	-1.61793		AR
Stonehaven 15	56.98059	-2.021736		AR
Stonehaven 10	56.959511	-2.113503		AR
Stonehaven 5	56.947156	-2.177253	<b>Y</b>	AR
Arbroath 5	56.554018	-2.483356		AR
Arbroath 10	56.499815	-2.37981	<b>Y</b>	AR
Arroath 15	56.459636	-2.29853		AR
St Andrews 15	56.29004	-2.433171		AR
St Andrews 5	56.265265	-2.571761		AR
St Andrews 10	56.258365	-2.501598	<b>Y</b>	AR
St Abbs 15	56.033338	-2.075373		AR
St Abbs 10	55.963473	-2.161845		AR
St Abbs 5	55.92919	-2.177058	<b>Y</b>	AR

**Table 2.** ID, Name, Geographic position and depths of the wind farm monitoring moorings to be recovered and redeployed.

<b>Name of location</b>	<b>Sound Recorder</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Depth</b>
Seagreen 1	Y	56.76225	-2.354467	22
Seagreen 2	Y	56.7158	-2.182667	59
Seagreen 3	Y	56.66112	-2.009233	62
Seagreen 4	Y	56.60992	-1.836117	55
Seagreen 5	Y	56.55457	-1.66785	60
NNG 1	Y	56.29797	2.3192	55
NNG 2	Y	56.25197	2.253783	51
NNG 3	Y	56.27247	2.166783	57
NNG 4	Y	56.27258	2.090567	54