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MRV *Alba na Mara*

## **Survey 0620A**

### **PROGRAMME**

3-11 November 2020

#### **Ports**

**Loading:** Fraserburgh, 02 November 2020

**Unloading:** Fraserburgh, 11 November 2020

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& 20594 & 20593

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

#### **Objectives:**

1. To recover a total of 21 moorings (Figure 1) as part of the ECOMMAS study (Table 1) and two windfarm developments (Table 2).
2. To deploy two moorings at two of the recovery sites for ECOMMAS marine mammal/noise monitoring locations (Figure 1 and Table 3) and nine moorings relating to the two windfarm sites (Table 2).

#### **Preliminary Itinerary:**

The vessel will depart Fraserburgh harbour and, once all drills have been completed, head for the mooring locations as provisionally detailed below. The ultimate order in which the moorings are serviced will be dictated by the weather and a daily programme will be agreed between the skipper and SIC.

30/10 Load one mooring for Helmsdale

03/11 Sail from Fraserburgh to Helmsdale, recover and redeploy the mooring, and return to Fraserburgh harbour

04/11 Sail from Fraserburgh to Aberdeen harbour, load one ECOMMAS mooring for Arbroath, and nine moorings for the Seagreen and NnG windfarm developments, including anchor chain for moorings, in case these are not recovered from the existing moorings. Estimate up to 10 anchor chains at approximately 50-60 kg each

05/11 Sail from Aberdeen to Stonehaven moorings, recover three moorings, return to Aberdeen harbour.

06/11 IT maintenance in Aberdeen harbour

07/11 Aberdeen harbour south to start recovery and redeployment of the five windfarm moorings off Montrose, depending on permissions and weather, this will be completed on the day, returning to Montrose harbour.

08/11 Montrose harbour south to the moorings off Arbroath, three recoveries and one redeployment. Return to Montrose harbour.

09/11 Montrose harbour south to the moorings off St Andrews, seven recoveries and four redeployments.

10/11 Recover the two moorings off St. Abbs and return to Montrose harbour.

11/11 Montrose harbour to Fraserburgh harbour for unloading.

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

\*N.B. timings may vary with weather and deployment progress.

Normal contacts will be maintained with the laboratory.

Submitted:  
R Culloch  
30 October 2020

Approved:  
I Gibb  
02 November 2020

**Table 1:** The name, location and depths of the ECOMMAS moorings to be recovered.

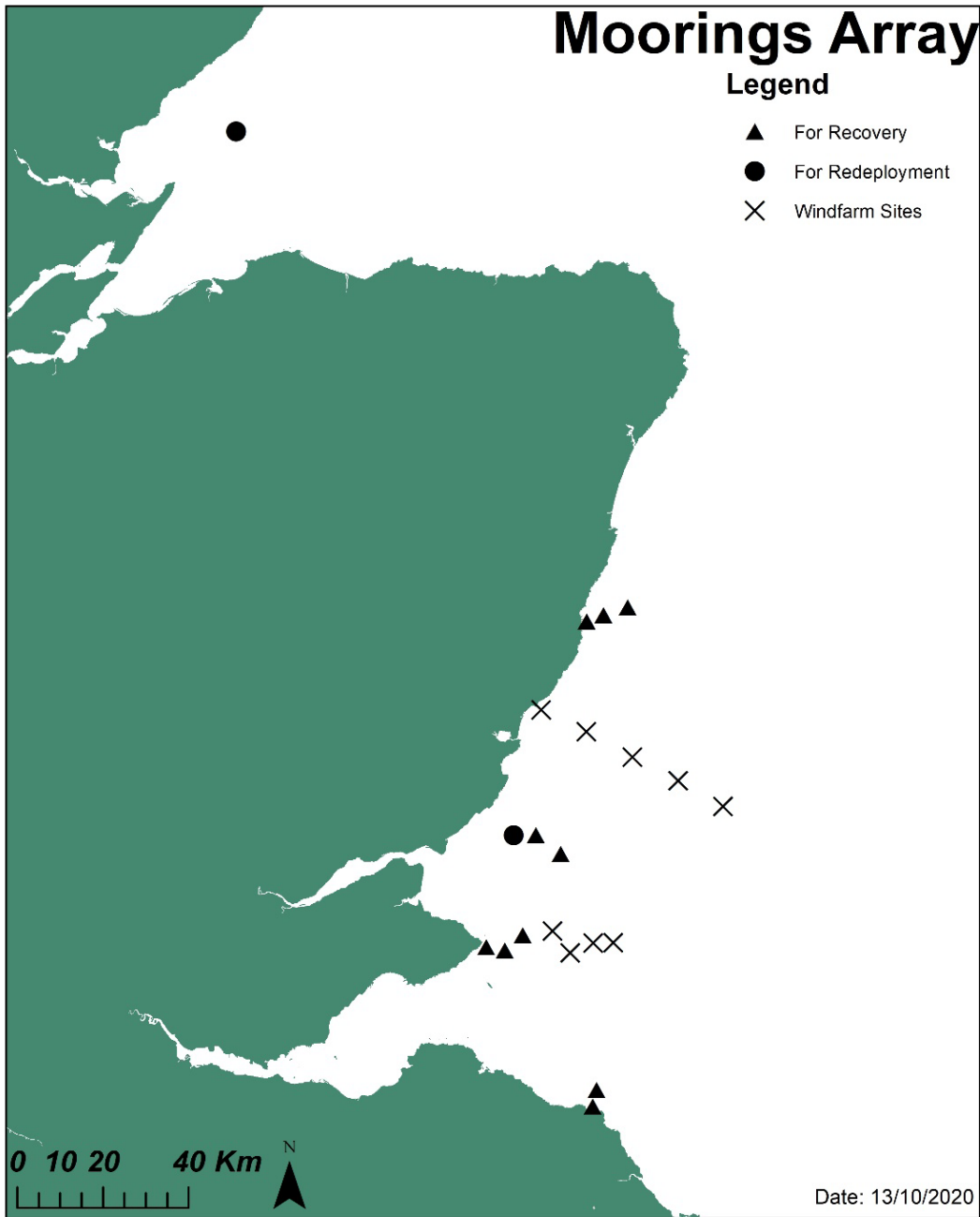
<b>Name of location</b>	<b>Sound Recorder</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Depth</b>
Helmsdale 15	Y	57.97583	-3.53568	51
Stonehaven 5	Y	56.94708	2.177633	32
Stonehaven 10	N	56.95937	-2.1133	48
Stonehaven 15	N	56.97492	-2.019767	60
Arbroath 5	N	56.49963	-2.38	34
Arbroath 10	Y	56.49972	-2.46333	51
Arbroath 15	N	56.45965	-2.286517	54
St Andrews 5	N	56.26528	-2.571133	22
St Andrews 10	Y	56.2584	-2.50142	46
St Andrews 15	N	56.29015	-2.432817	50
St Abbs 5	Y	55.92902	-2.177133	34
St Abbs 10	N	55.96342	-2.161783	66

**Table 2:** The locations 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	Approx. 55
Seagreen 5	Y	56.55457	-1.66785	Approx. 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

**Table 3:** The name, location and depth of the ECOMMAS moorings to be redeployed.

<b>Name of location</b>	<b>Sound Recorder</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Depth</b>
Helmsdale 15	Y	57.975867	-3.53568	51
Arbroath 10	Y	56.49885	-2.38087	29



**Figure 1:** Location of monitoring moorings off the east Grampian, Angus, Fife and Lothian coast, and one in the Moray Firth. Triangles represent moorings from the ECOMMAS array for recovery, circles represent moorings from the ECOMMAS array to be recovered and redeployed. The crosses represent windfarm moorings, to be recovered and redeployed. *Note only two moorings are to be recovered from St Abbs due to a fishing vessel recovering and returning the third.*