

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

MRV Alba na Mara

Survey 1219A

PROGRAMME

25 July – 05 August 2019

Ports

Loading: Fraserburgh, 22 July 2019

Unloading: Fraserburgh, 05 August 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: 20231, 12 days

Gear: Subsurface PAM moorings

Objectives:

1. To retrieve and deploy a series of acoustic release systems (22 subsurface moorings) with attached acoustic recording devices (22 C-POD, 7 sound recorder) as part of the ECOMMAS, JOMOPANS and SEAGREEN projects (see Table 1 & 2 and Figure 1 & 2).

Procedure:

Loading of all equipment will be carried out on 22 July 2019. *Alba na Mara* will sail from Fraserburgh on the morning of 25 July and make for the first mooring position. The ultimate order in which the moorings are retrieved and deployed will be dictated by the current weather forecast and the likely shelter that can be provided by the east coast. Accurate position records will be kept detailing where the moorings are eventually replaced as this may differ from the planned position. If all the moorings have been retrieved and deployed before the scheduled end of the trip *Alba na Mara* will head to Aberdeen Bay to allow scientific staff to retrieve moorings with VR2 salmon detectors between Ythan Estuary and Findon Ness. (See Figure 3)

Normal contacts will be maintained with the Marine Laboratory

Submitted: P. Stainer, 17 July 2019

Approved: I. Gibb, 18 July 2019

Location	Latitude	Longitude	Sound recorder?
JOMOPANS 1	58.57487	-2.119471	Y
Fraserburgh 15	57.849141	-2.089825	
Cruden Bay 5	57.380185	-1.828393	Y
Cruden Bay 10	57.380146	-1.738071	
Cruden Bay 15	57.376868	-1.61793	
Stonehaven 15	56.98059	-2.021736	
Stonehaven 10	56.959511	-2.113503	
Stonehaven 5	56.947156	-2.177253	Y
Arbroath 5	56.554018	-2.483356	
Arbroath 10	56.499815	-2.37981	Y
Arbroath 15	56.459636	-2.29853	
St Andrews 15	56.29004	-2.433171	
St Andrews 5	56.265265	-2.571761	
St Andrews 10	56.258365	-2.501598	Y
St Abbs 15	56.033338	-2.075373	
St Abbs 10	55.963473	-2.161845	
St Abbs 5	55.92919	-2.177058	Y

Table 1: ID, name and geographic position of 17 ECOMMAS & JOMOPANS moorings to be retrieved and redeployed in August 2019.

Seagreen 1	56.762417	-2.354677	
Seagreen 2	56.715833	-2.182717	
Seagreen 3	56.66115	-2.0091	
Seagreen 4	56.610017	-1.836017	
Seagreen 5	56.554683	-1.667317	Y

Table 2: ID, name and geographic position of 5 SEAGREEN moorings to be retrieved and redeployed in August 2019.

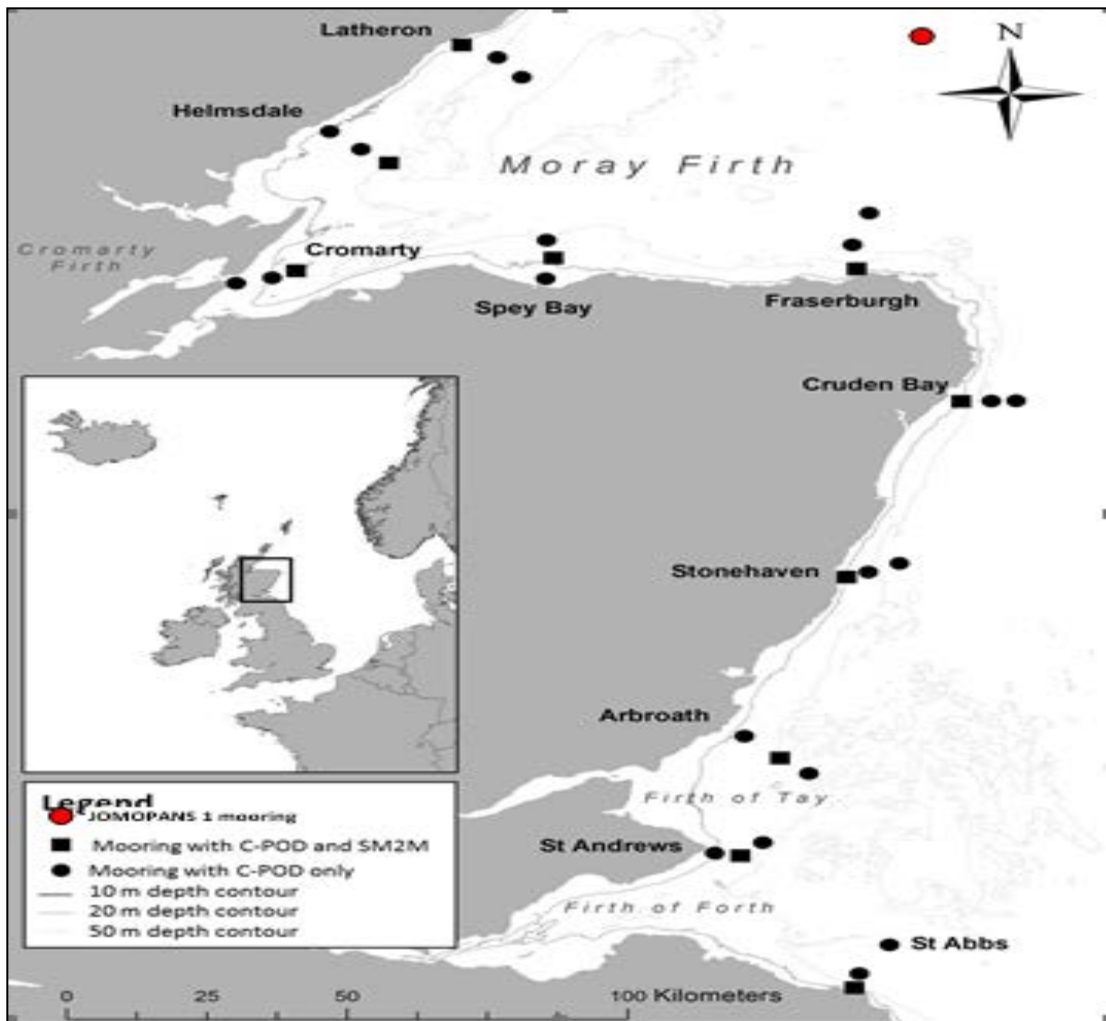


Figure 1: Locations of the ECOMMAS & JOMOPANS moorings to be retrieved and deployed.

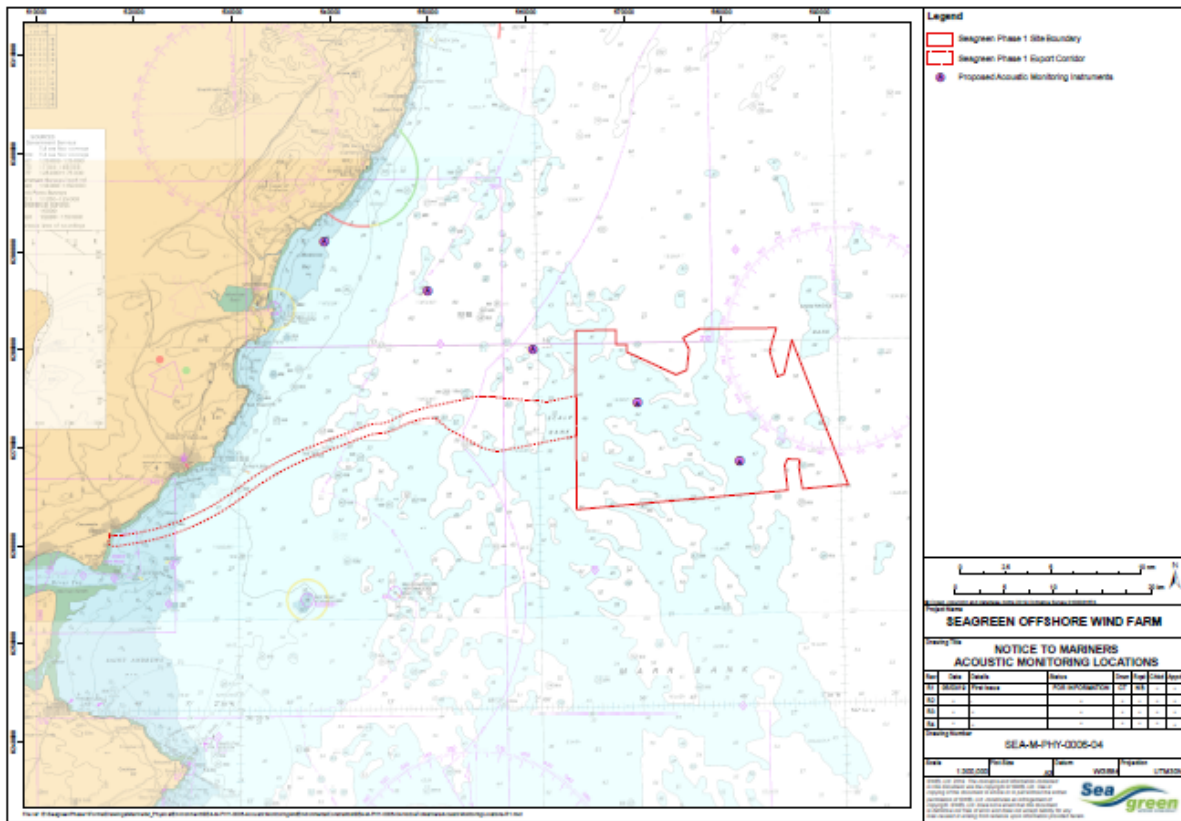


Figure 2: Locations of the 5 SSE Seagreen moorings to be retrieved and deployed.

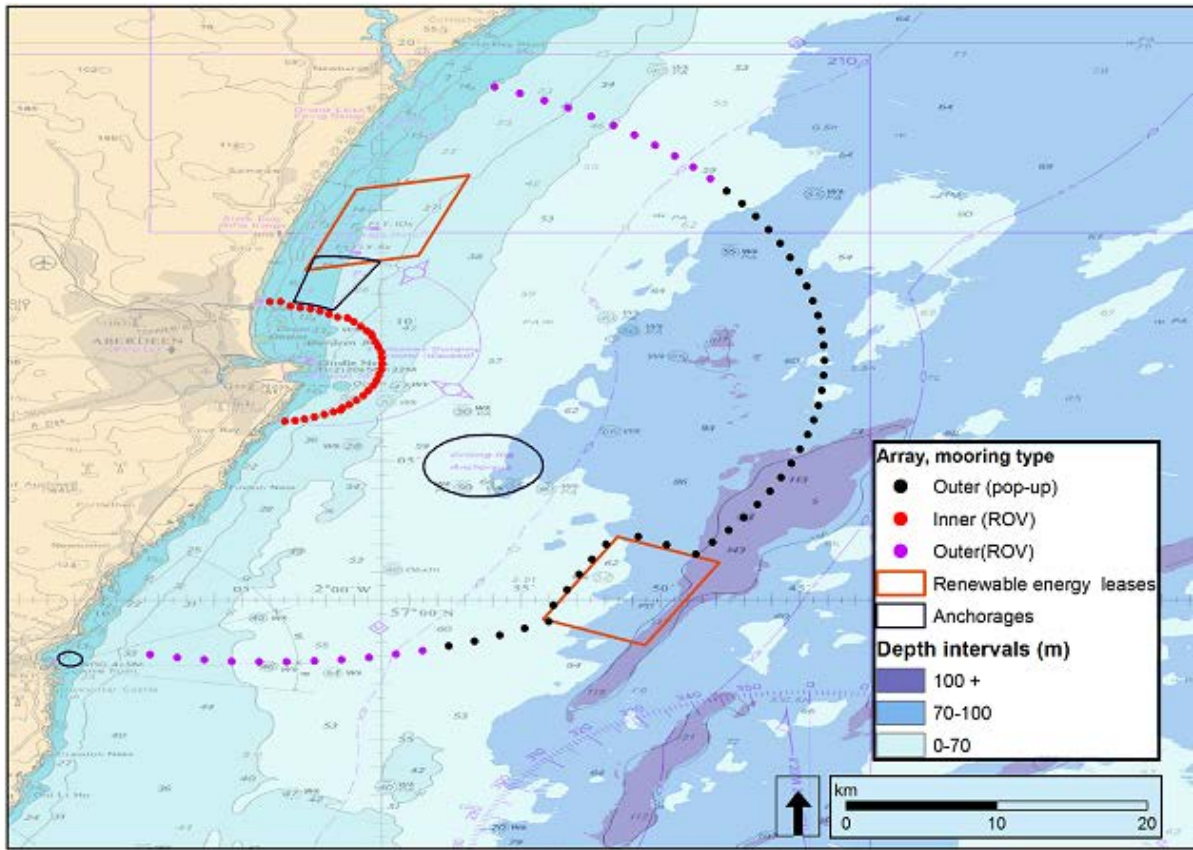


Figure 3: Locations of the Aberdeen Bay salmon detector moorings to be retrieved during 1219A. A table of locations will be supplied separately. Locations marked in blue are the outer array; the inner array are marked in red.