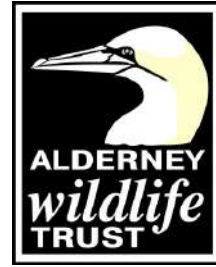


Channel Island Acoustic Receiver Network 2023

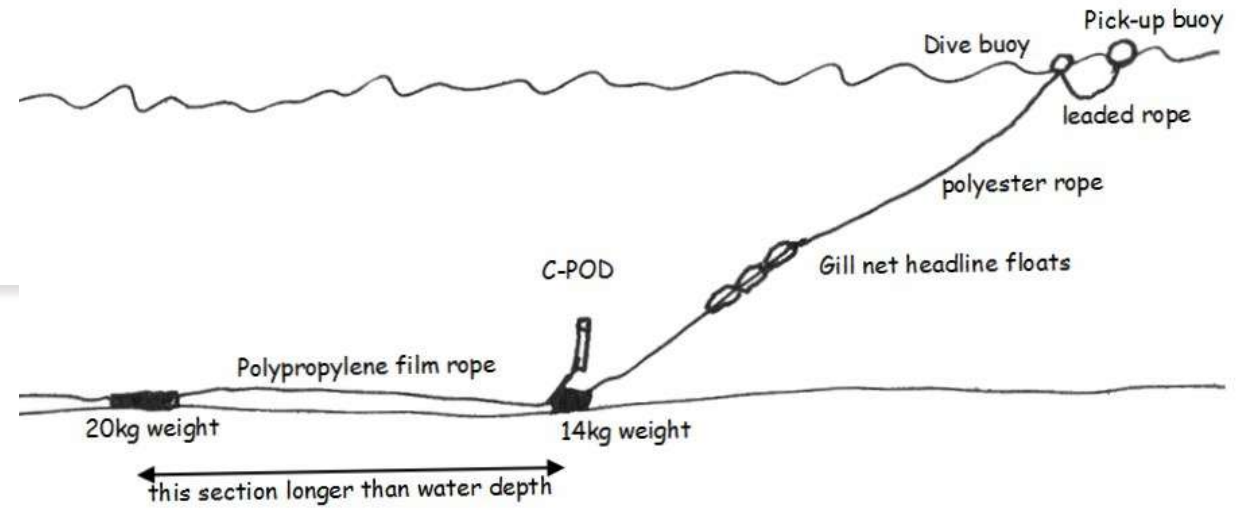


Acoustic Telemetry

- Acoustic tags use soundwaves to track movements of individual fish
- Tags can be implanted surgically or externally attached
- Receivers/hydrophones constantly listen for tag pings in specific frequencies, decode this signal and store records (time & date)
- Receivers are anchored to the seabed or can be drifted on the surface or sub-surface



Underwater Acoustic Technology



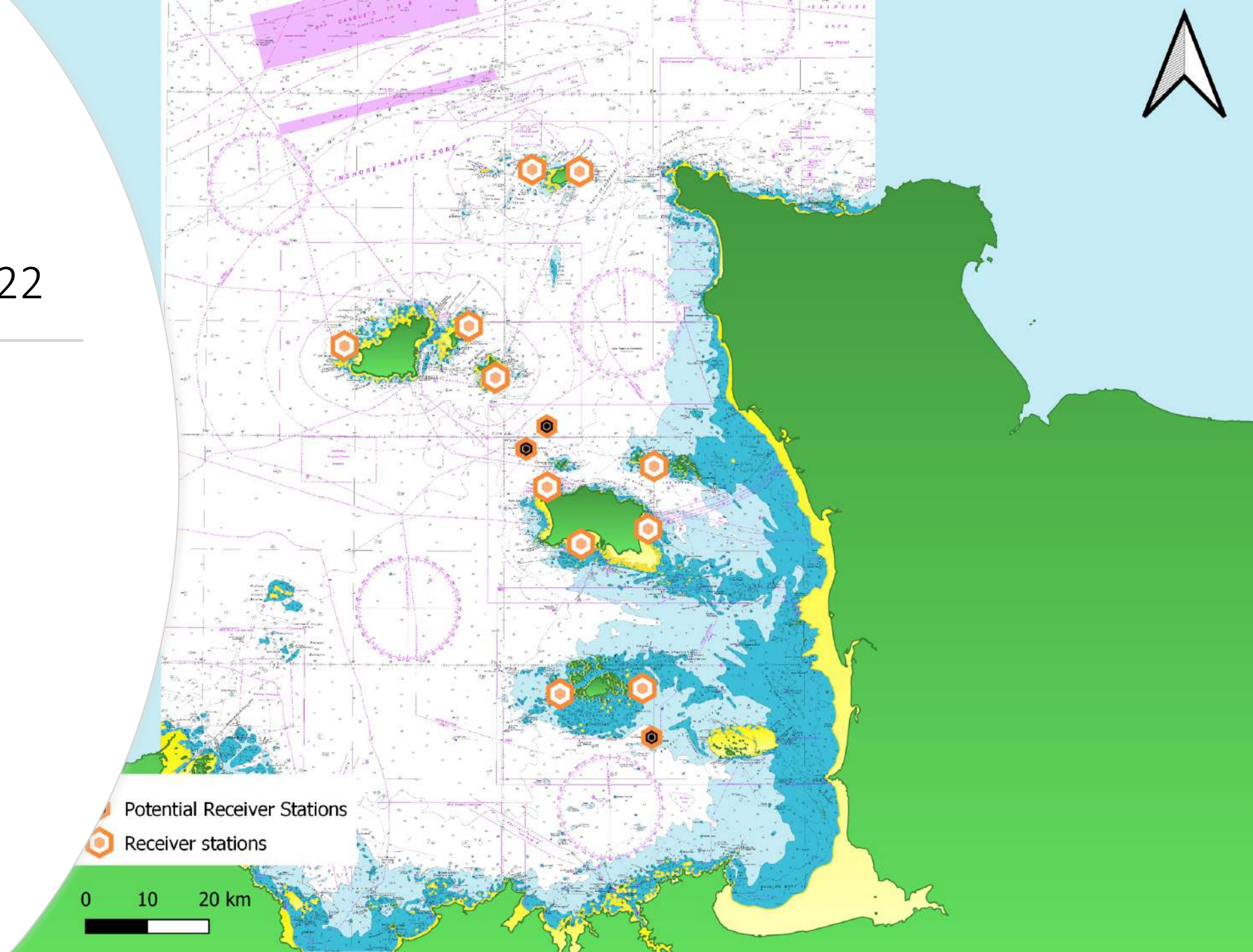
Fish Intel Project

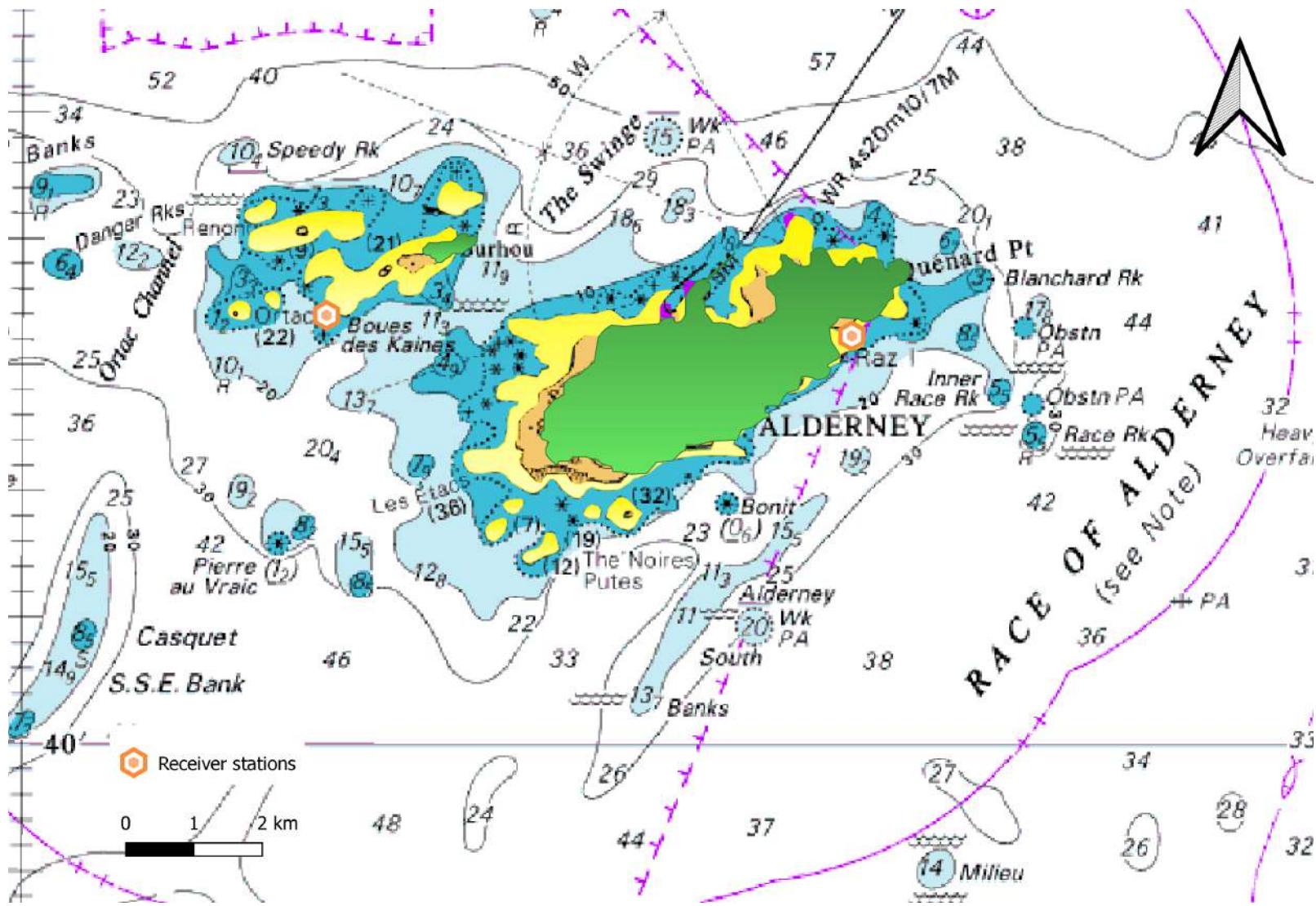


- This cross-Channel partnership uses innovative underwater acoustic tracking technology to identify the environmental conditions a range of important marine species need in order to thrive.
- The €4.1million [FISH INTEL project](#), supported by €2.8million from the European Regional Development Fund via the Interreg France (Channel) England programme, focuses on a series of sites along the coastlines of southern England, northern France and Belgium.
- Across seven sites (eight including Channel Islands), we will monitor marine species including European bass, Pollack, Crawfish and Bluefin tuna, which are considered commercially important for the region.

Channel Islands 2022

- 11 receivers in total



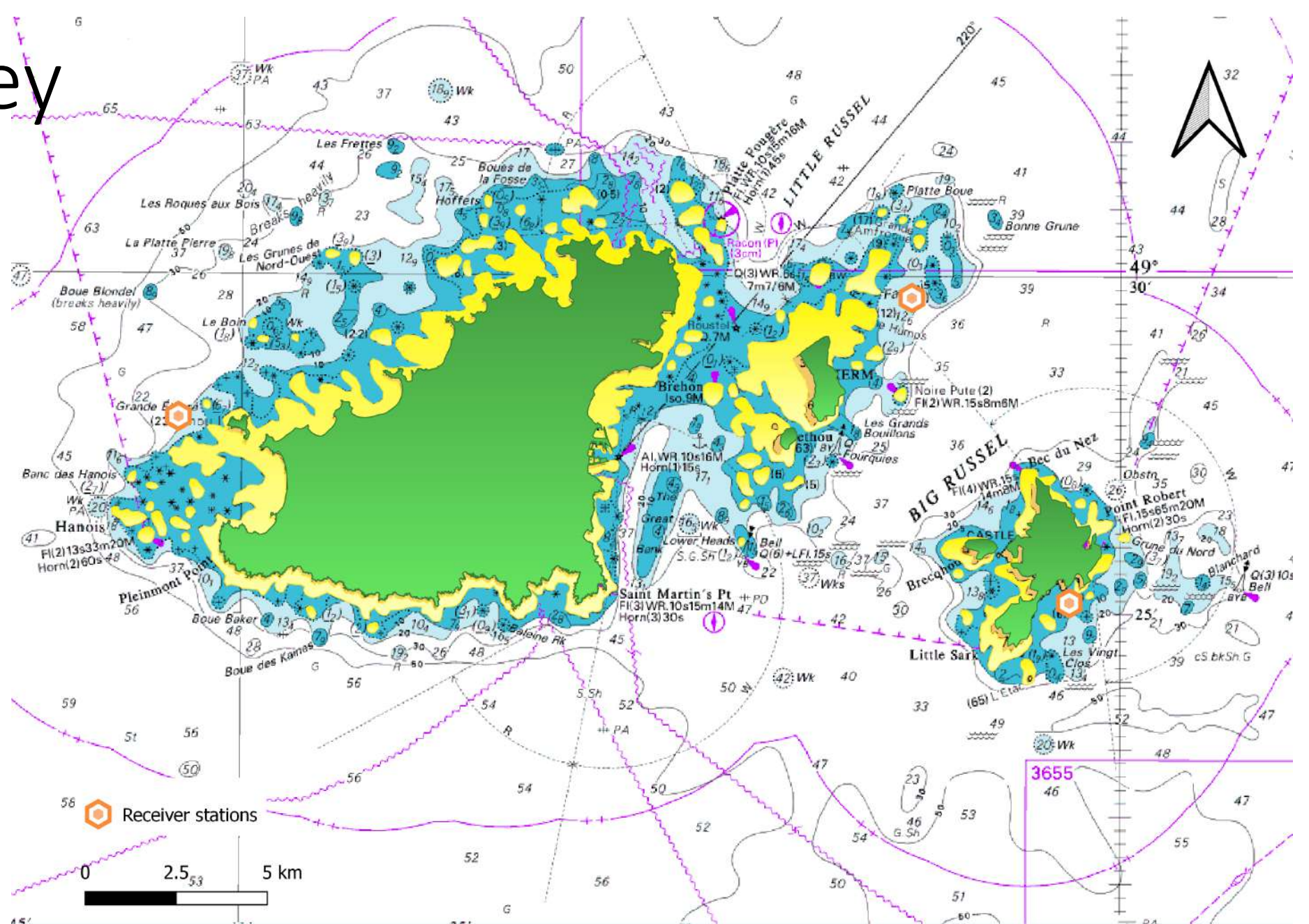


Alderney

2 Receivers

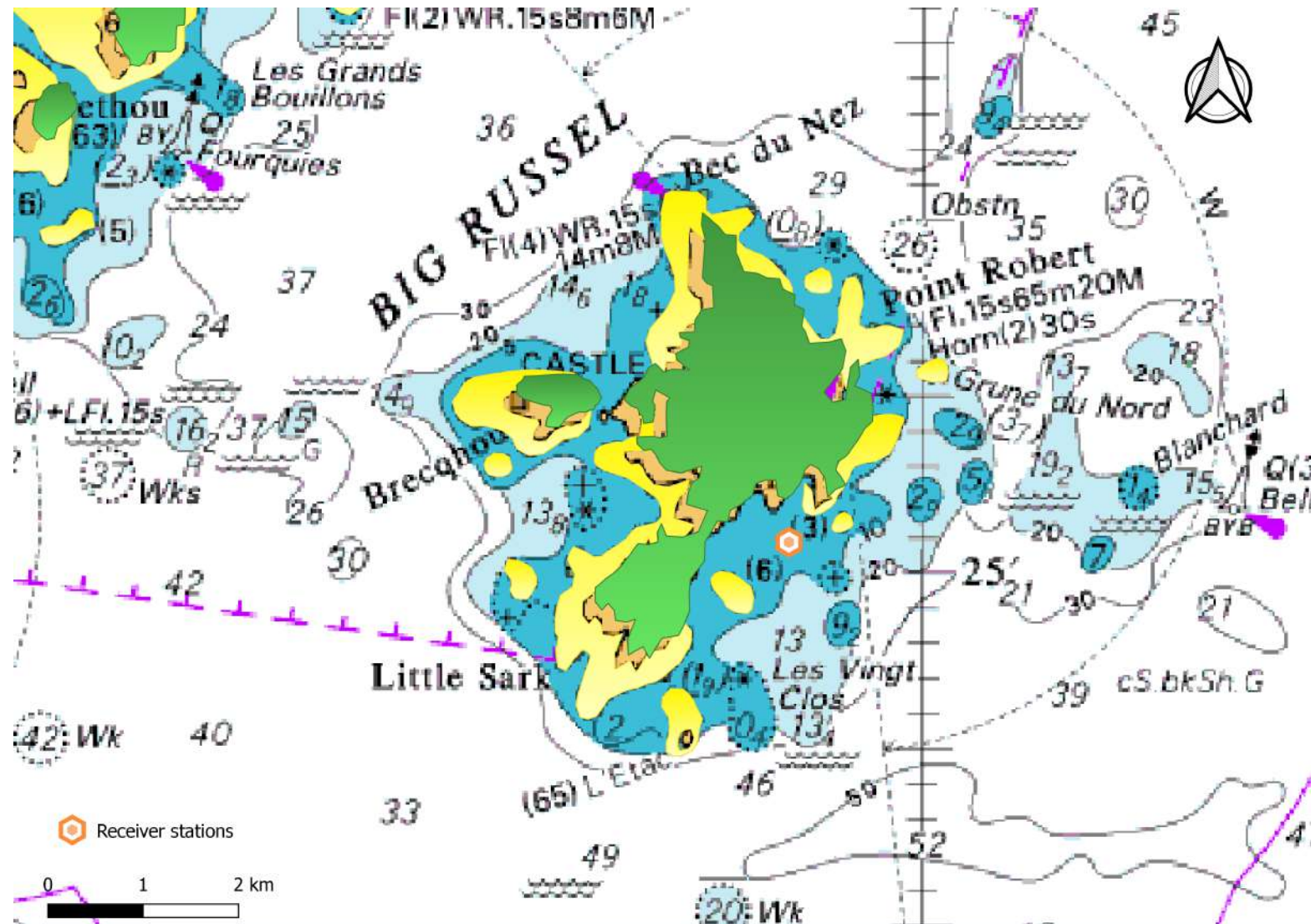
Guernsey

Two receivers



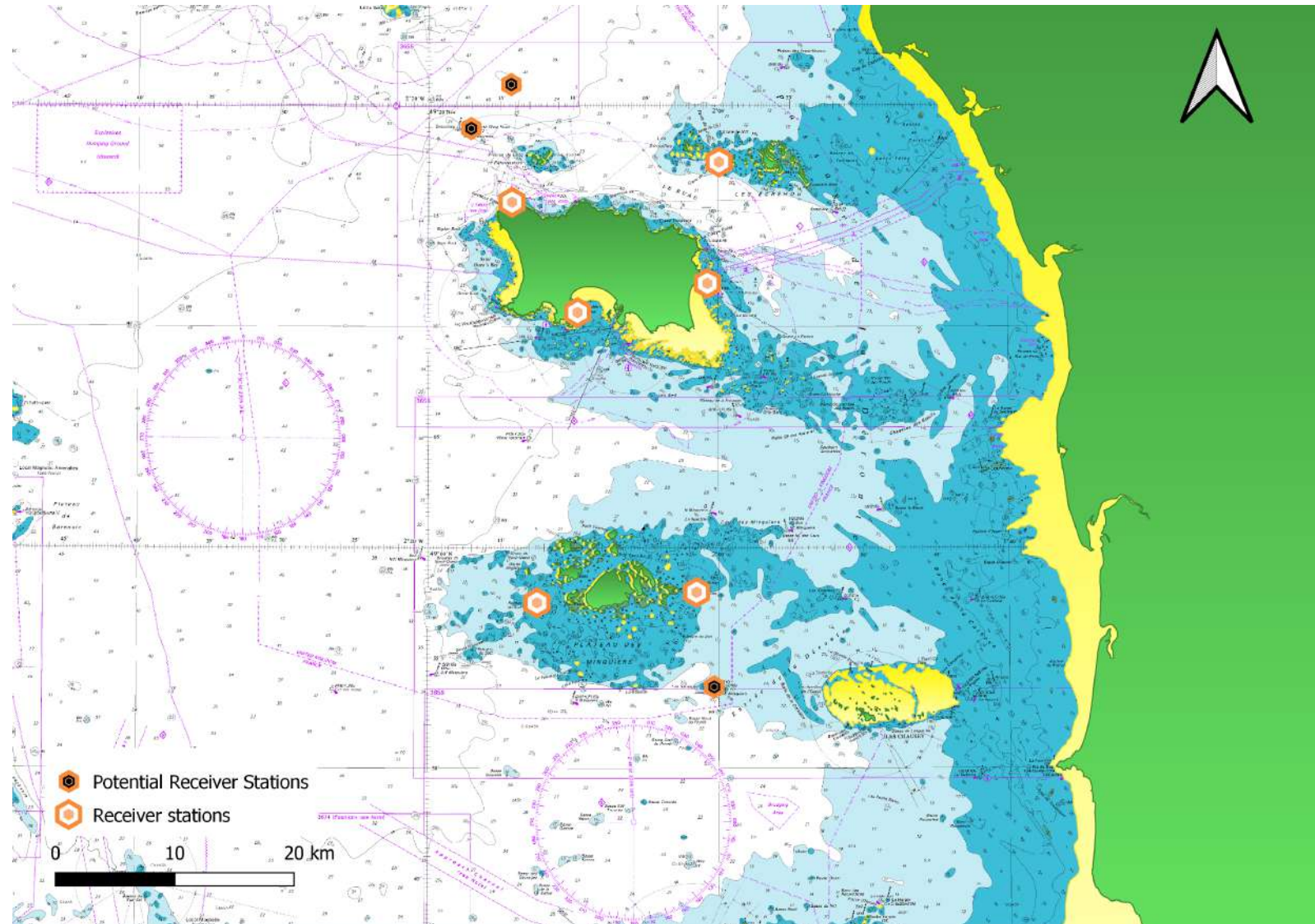
Sark

- One receiver South of Baleine SE of Sark.



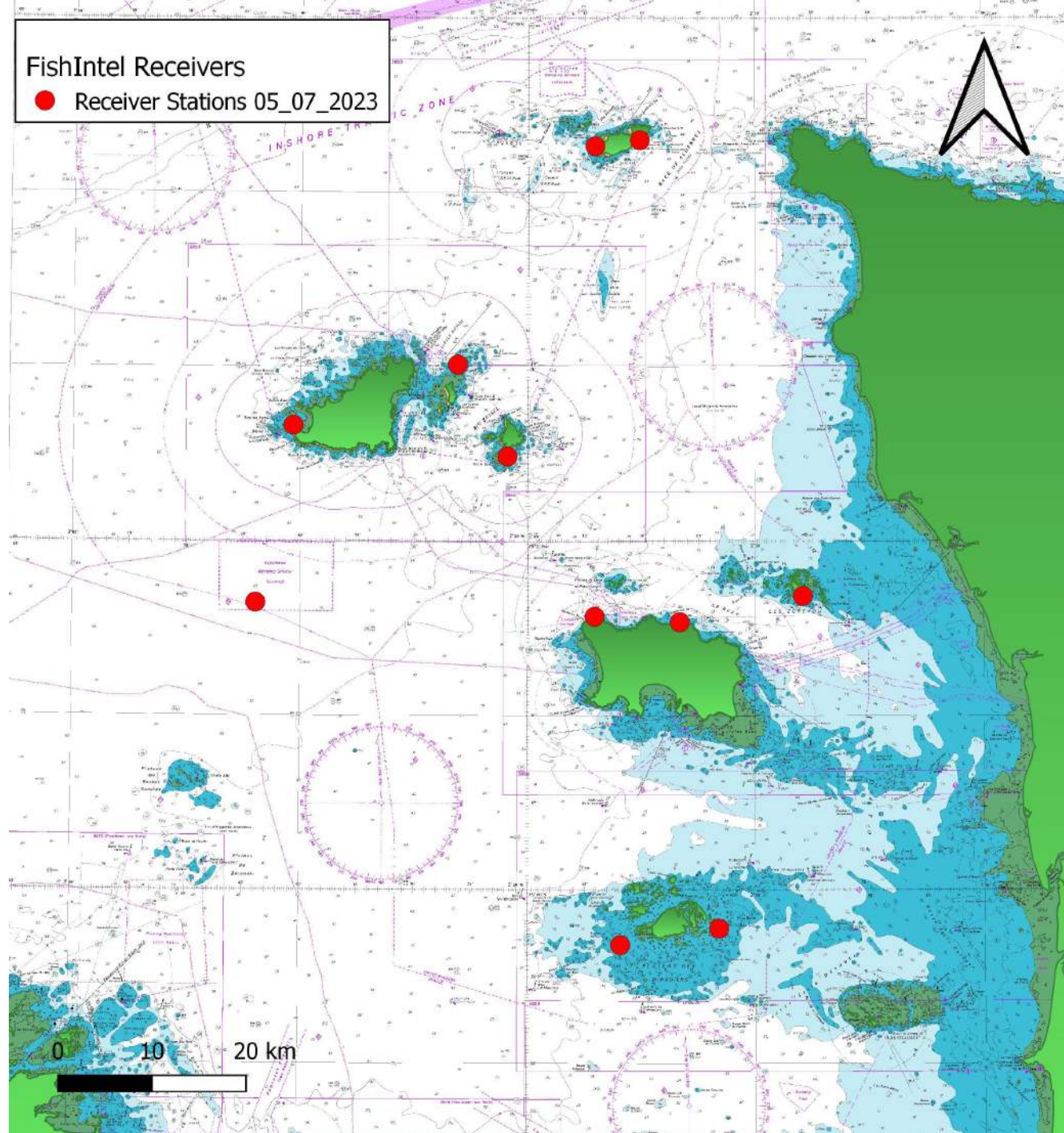
Jersey

- 7 Receivers to be deployed around the island.
- 6 chosen sites with a potential for one more (black dots)

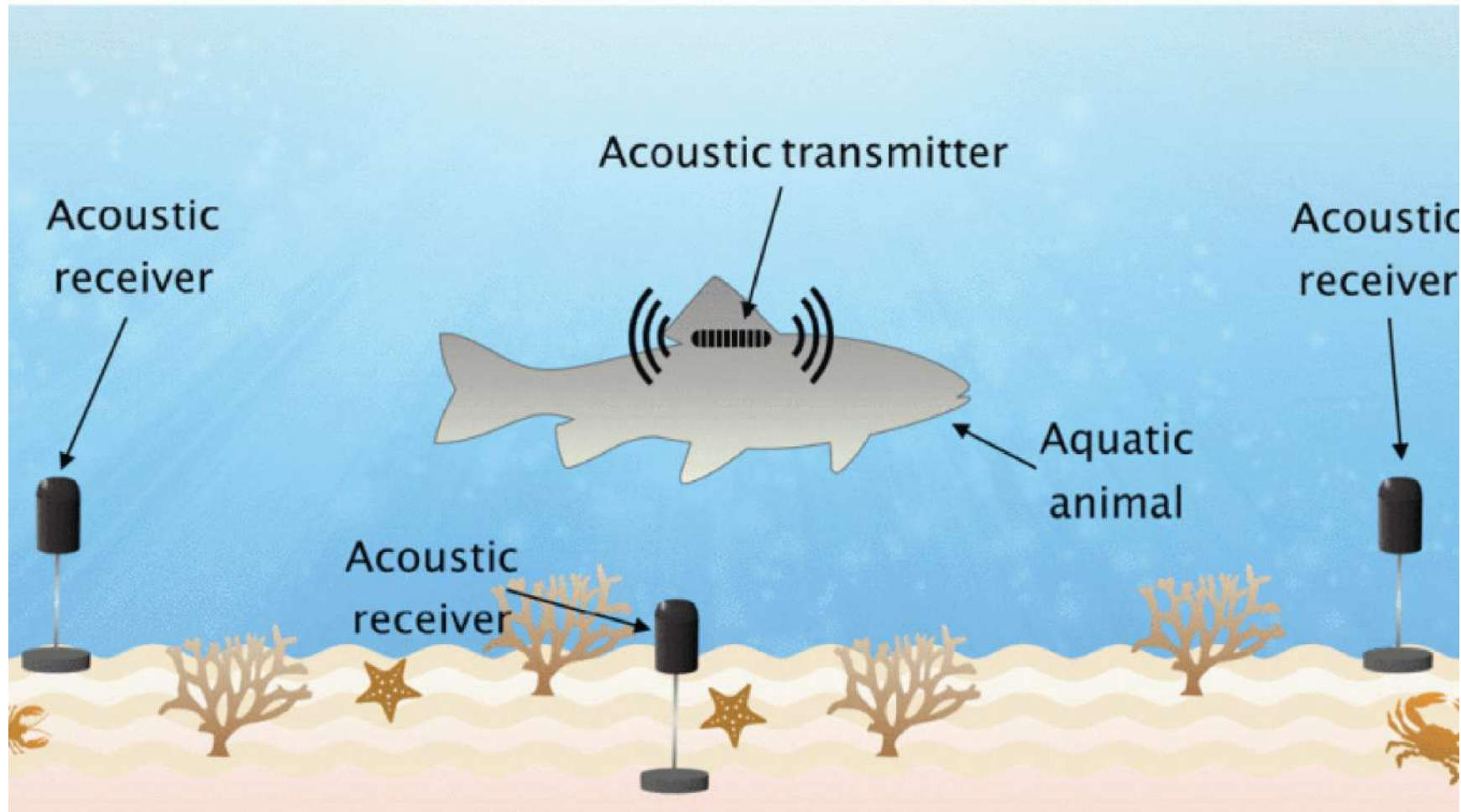


FishIntel Receivers

● Receiver Stations 05_07_2023



Detections...



Tag ID: 35022
Common Name: Black Bream
Scientific Name: *Spondyliosoma cantharus*
Capture Date: 17/05/2022
Location: Boulder Bank, Sussex
Detection1 : South Alderney 25/01/2023
Detection 2: Boulder Bank Sussex 03/05/2023



Released 17/05/2022
Detected 03/05/2023

Detected 25/01/2023

FishIntel Receivers
Receiver locations 08/22



Tag ID: 5921
Common Name: Porbeagle Shark
Scientific Name: *Lamna nasus*
Capture Date: 14/07/2022
Location: Perros-Guirec
Detection 1: W Minquiers 04/10/2022



Tag ID: 4097
Common Name: Bass
Scientific Name: *Dicentrarchus labrax*
Capture Date: 29/09/2022
Location: Selsey Bill, Sussex
Detection 1: Plemont 01/11/2022
Multiple detections until 30/03/2023



Released 29/09/2022

Pinged 27/03/2023

0 25 50 km

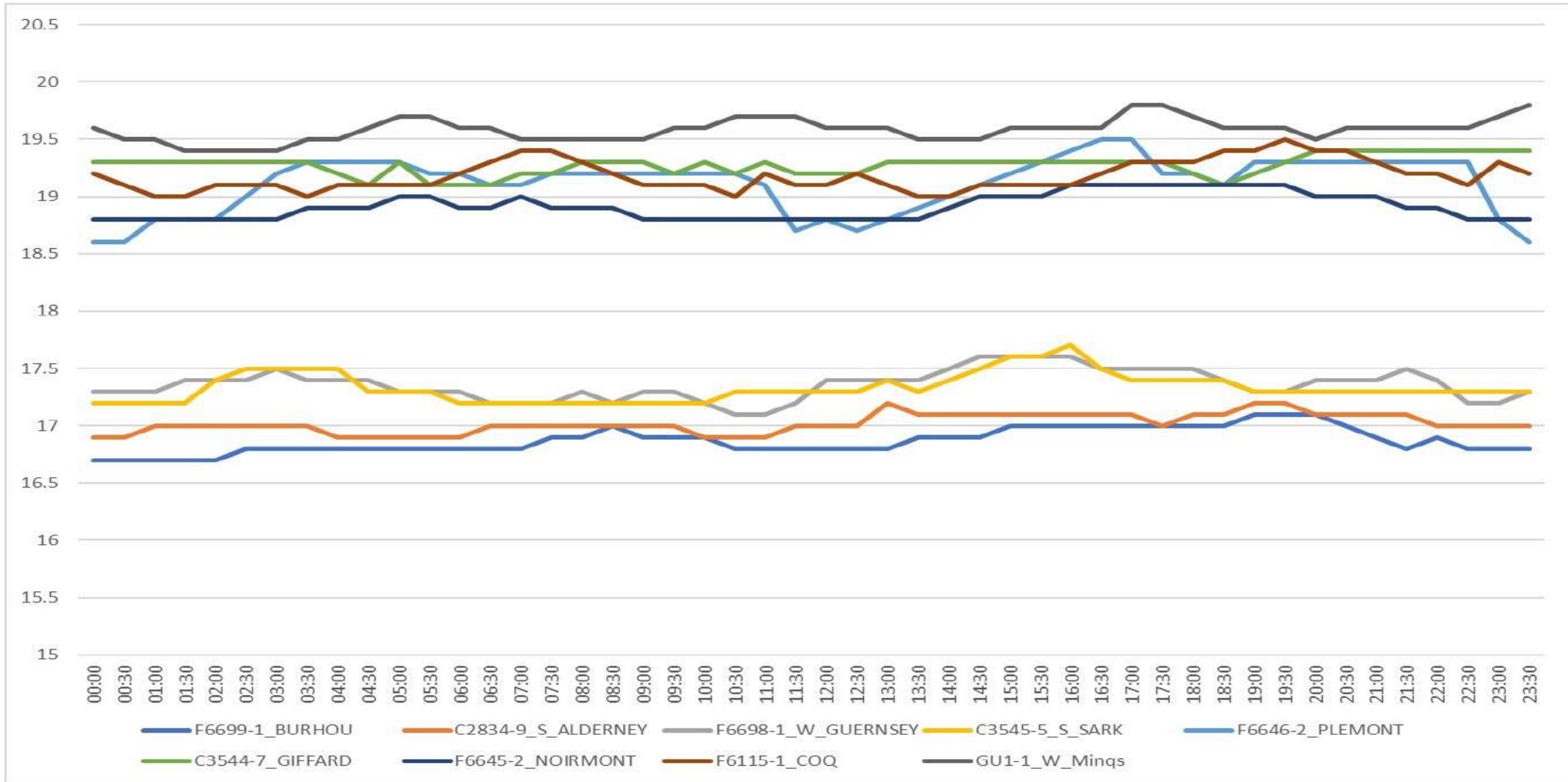


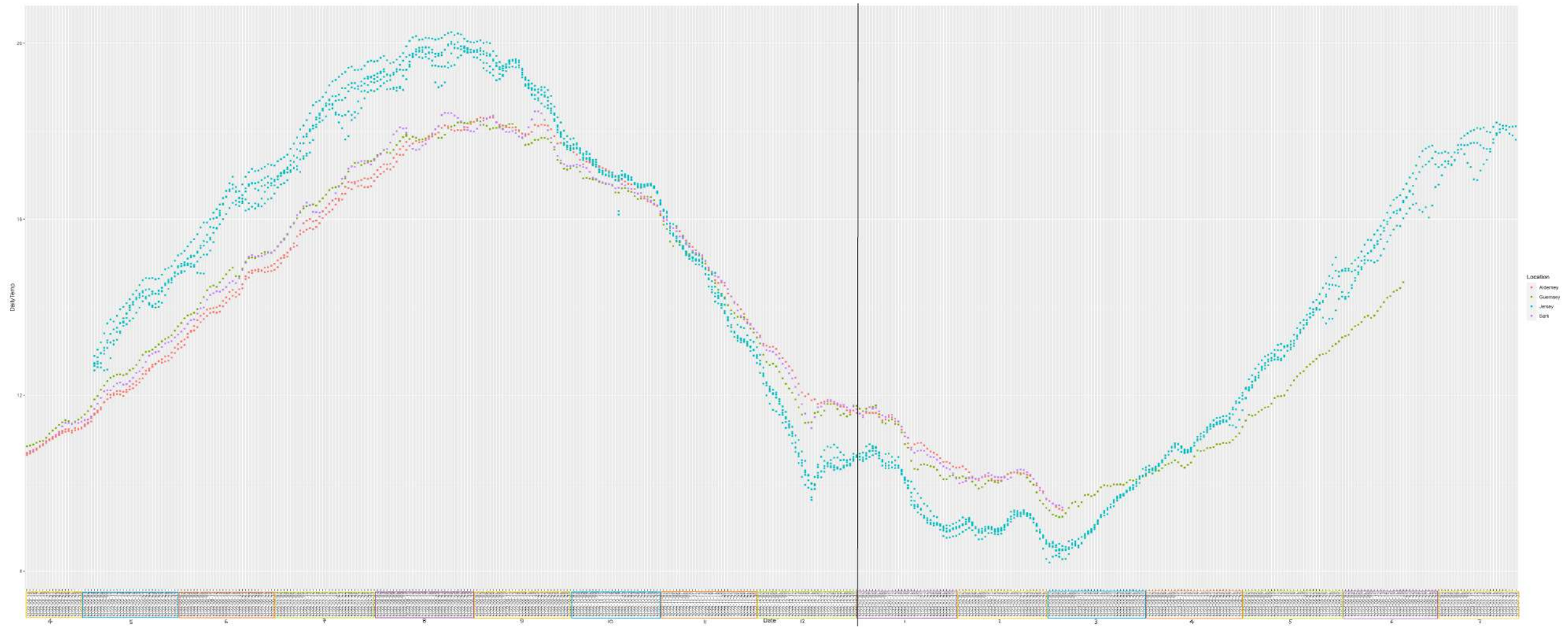


Limitations...

- Tidal current
- Rocky substrate
- Boat time
- Service intervals
- Storms
- Growth on buoy line

Sea Temperature







The future of the project...tagging!

