

Land Backyards ("Masseiras")

Fisherman's Houses (Beach)

Proto - Maritime Backyards ("Seas")

Country / City Portugal / Guimarães

University / School University of Minho / School of Architecture

Academic year Fifth year - Final Master's Thesis

Title of the project "The Maritime Backyards of Póvoa de Varzim"

Authors José Pedro Fernandes



TECHNICAL DOSSIER

Title of the project	"The Maritime Backyards of Póvoa de Varzim"
Authors	José Pedro Fernandes
Title of the course	Master's Degree in Architecture
Academic year	Fifth year - Final Master's Thesis
Teaching Staff	Marta Juan Labastida
Department/Section/Program of belonging	City and Territory / Project Investigation "Fishing Architecture" Lab2PT
University/School	University of Minho / School of Architecture,



Written statement, short description of the project in English, no more than 250 words

In order to improve their professional activity, fishermen have developed special methods and procedures for organising the space of their maritime territory. This proposal presents some of these practices, based on the specific case of the fishing community of Póvoa de Varzim, a town on the north coast of Portugal. Over the years, each fishing family has developed mental maps of the "seas", creating original lexicon and toponymy to identify certain places and their different characteristics, while simultaneously producing a remarkable intangible heritage. Together with the productive transformations that were characteristic of industrialisation, traditional fishing methods have also gradually changed, incorporating the use of electronic navigation devices and other mechanisms for the detection of marine resources. In this way, the sea has begun to be mapped digitally through an informal system of "maritime backyards" that divide the space according to the fishing gear used.

This proposal aims to incorporate the "maritime backyards" method for creating a typology of nurseries according to the morphology of the territory and its ecosystems, restoring the biodiversity and the submerged landscapes and reducing the impact of the climate changes on the marine habitats. The proposal also gives visibility to practices and territories that are normally absent in representations of places. All of these applied methods and the ability to territorialize the sea were learned through various experiences with various fishermen's from traditional and contemporary fishing of Póvoa de Varzim.

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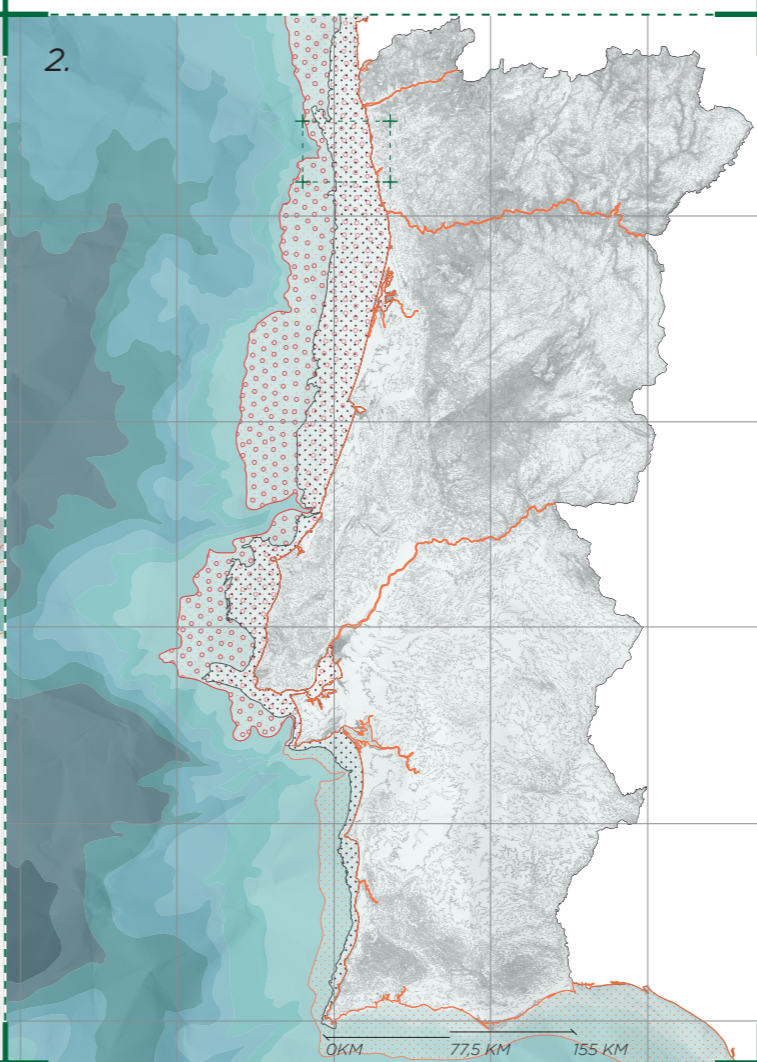
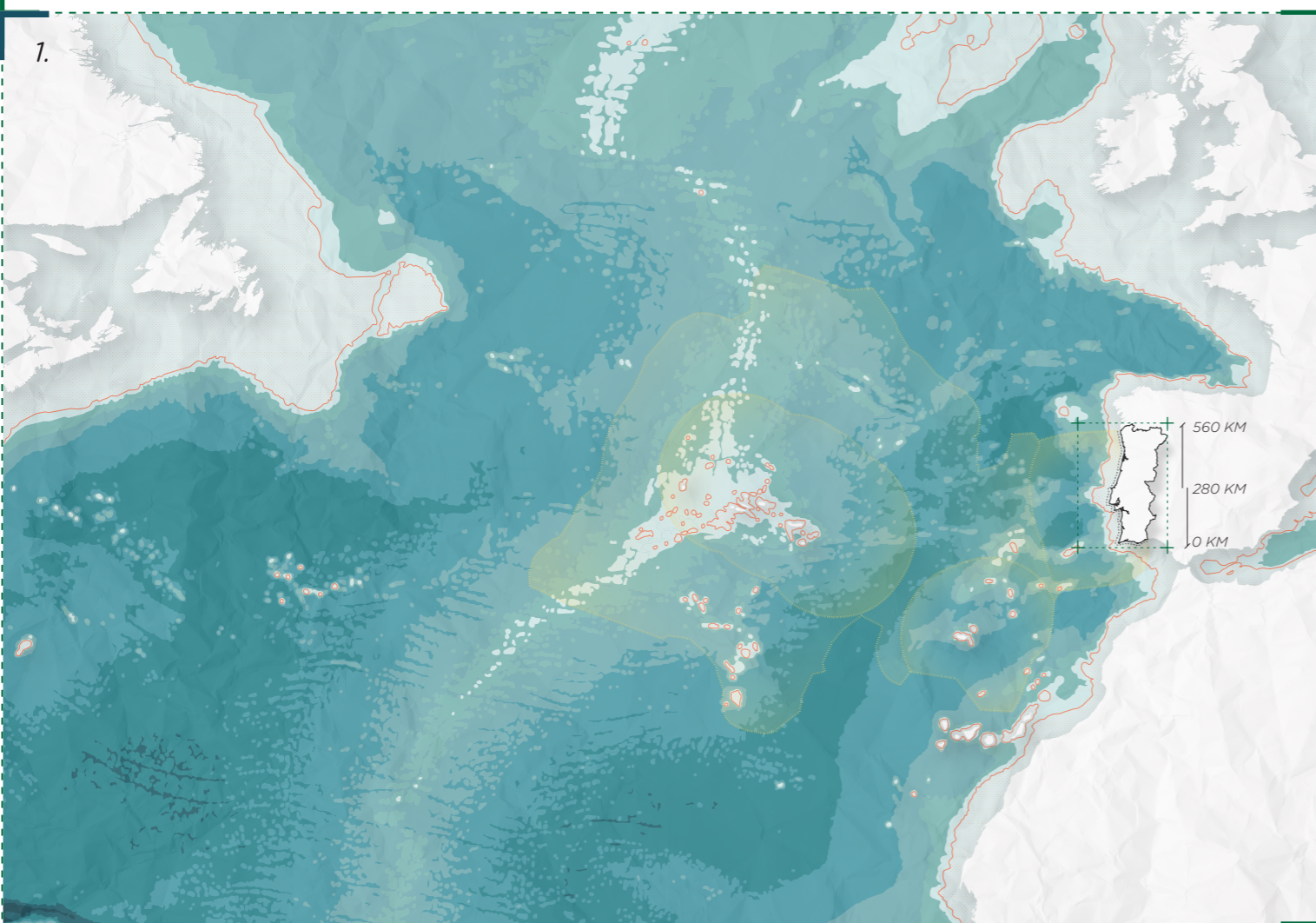


CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

Barcelona September 2020

SCHOOL PRIZE



1. THE PROPOSAL
Intervention area for the recovery of ecosystems on their submerged landscapes of the Ocean

2. THE CONTEXT
Evolution of the exploitation area of the space reserve method created by the "poveiros" fishermen's

3. THE ORIGIN
From the mental map of the "seas" to the digital map of the "maritime backyards" from the "poveiros" fishermen's

In the 3. frame of this panel, the mirror proposal aims to show the possible balance between the existing "maritime yards" due to fishing activity and the "new maritime yards" created for the preservation of ecosystems and their submerged landscapes. Through each Exclusive Economic Zone of each country that divides and reserves part of the maritime space of the Oceans for its economy and but also for fighting the climate changes.



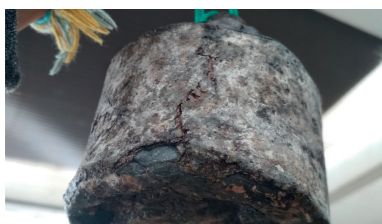
Subtitles.

- 1. THE PROPOSAL :**
 - PORTUGAL / SPAIN AGREEMENT 1887 (FIRST MARITIME SPATIAL LIMIT - 6 NAUTICAL MILES)
 - EXCLUSIVE ECONOMIC ZONE (E.E.Z.) 1986 (CURRENT MARITIME SPATIAL LIMIT - 200 NAUTICAL MILES)
 - 200 BATHYMETRIC LINE (PROPOSAL AREA)
- 2. THE CONTEXT :**
 - 100 BATHYMETRIC LINE - TRADITIONAL FISHING EXPLORATION AREA (1762-1989)
 - ⊕ 50 BATHYMETRIC LINE - MULTI PURPOSE FISHING EXPLORATION AREA (1989-CURRENT)
- 3. THE ORIGIN :**
 - "SEAS" OF "ESPOJEIRO" FAMILY
 - + "MARITIME BACKYARDS" (MULTI-PURPOSE FISHING)
 - + PROPOSAL (RECOVERY NURSERIES)
 - △ LAND MARKS
 - Ⓜ PORT OF PÓVOA DE VARZIM
 - ⊖ NO INFORMATION
 - SAND BOTTOM
 - GRAVEL BOTTOM
 - STONE BOTTOM
 - ROCK BOTTOM
 - MUD BOTTOM

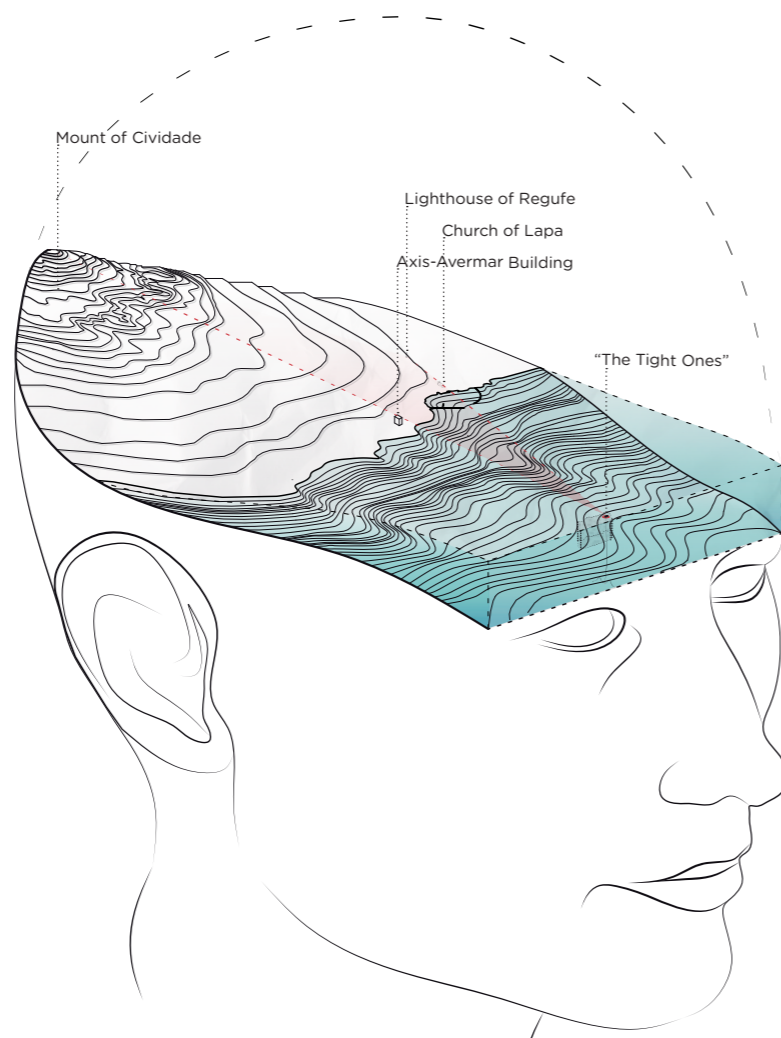
+ FRAMING ⊕ COORDINATES ○ NORTH



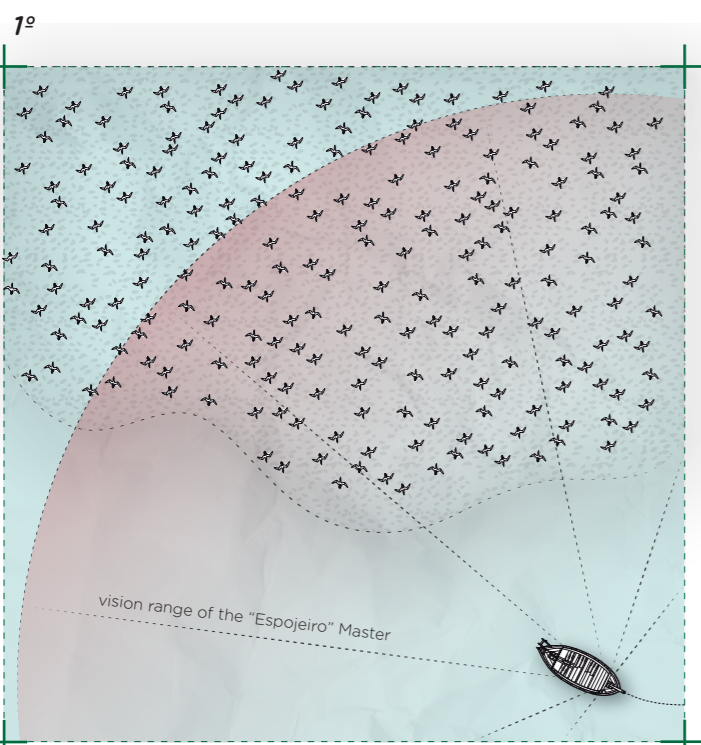
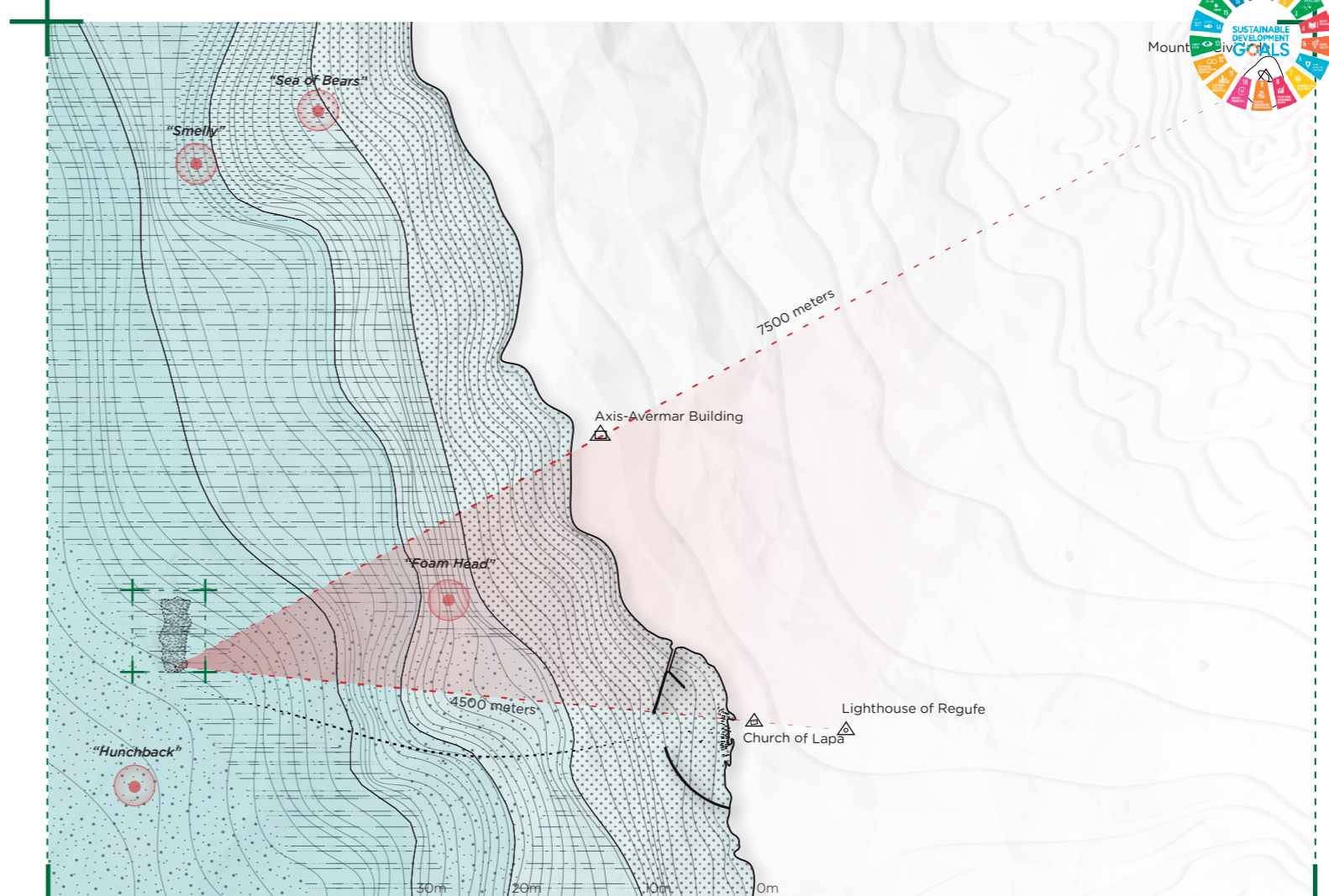
In situ experience through the explanation of ex-master "Espojeiro" about the first space method of fishing from the traditional fishing in Póvoa de Varzim.



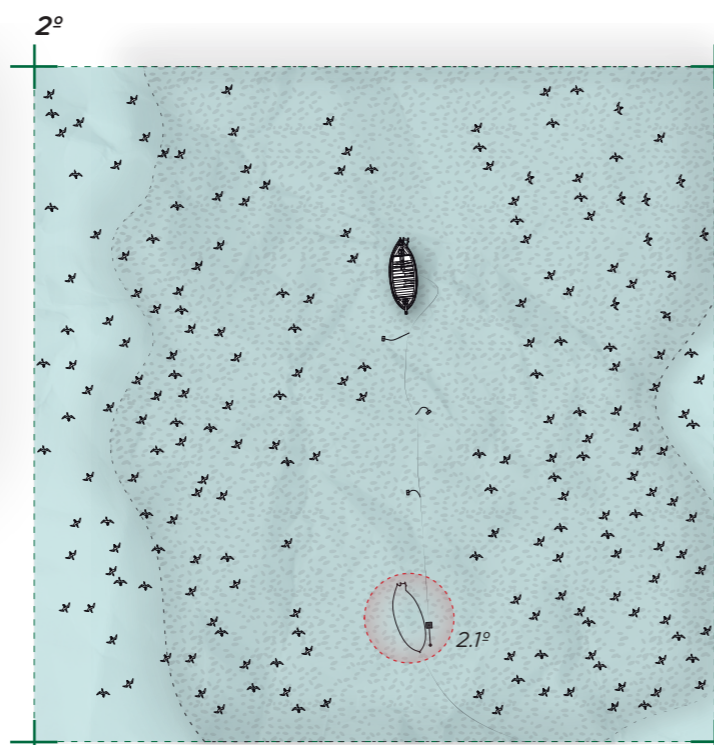
Representation of the mental map with the new "sea" from the "Espojeiro" family



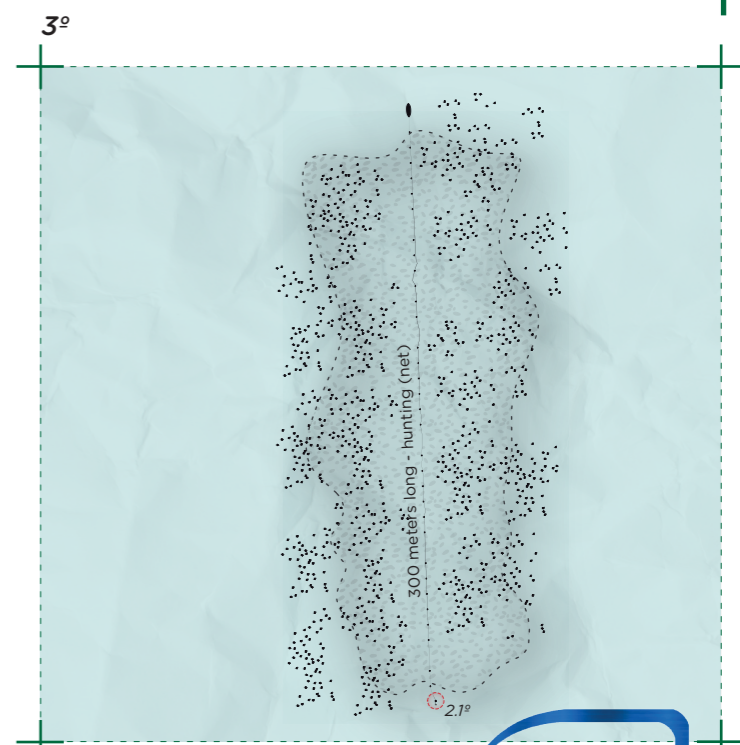
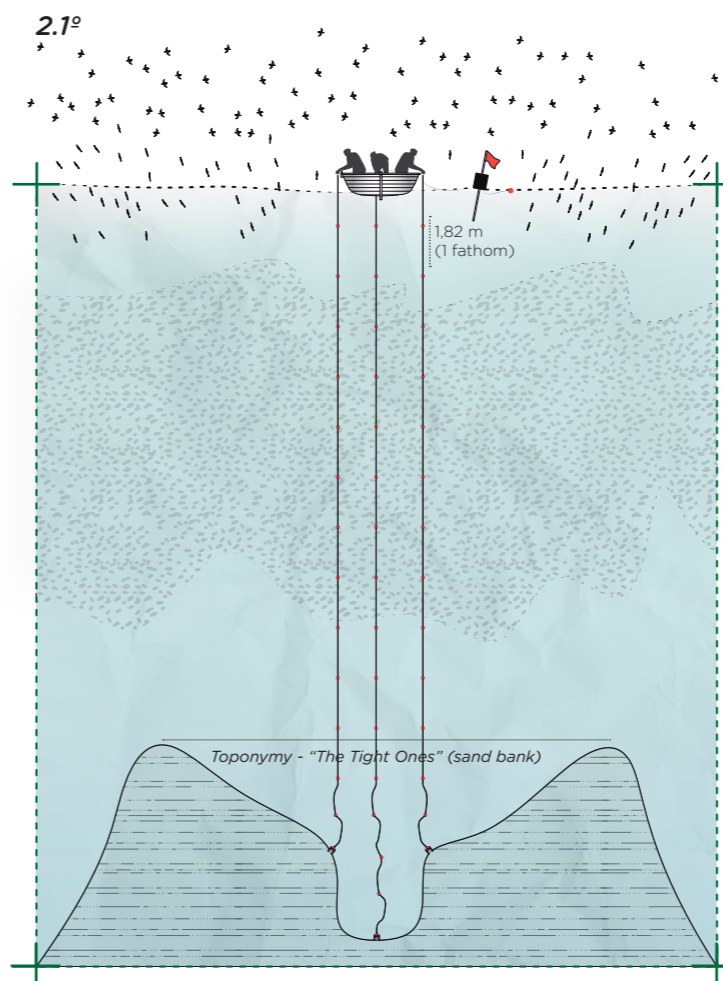
A. "Poveira" Traditional fishing - Process of creating a new "sea" on the "Espojeiro" family territory



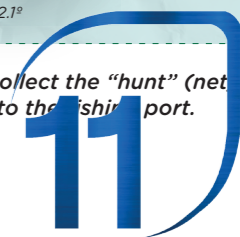
05:00am - Leaves the fishing port looking for the sign of a shoal of sardine through a flock of birds - "geito" (sea birds).



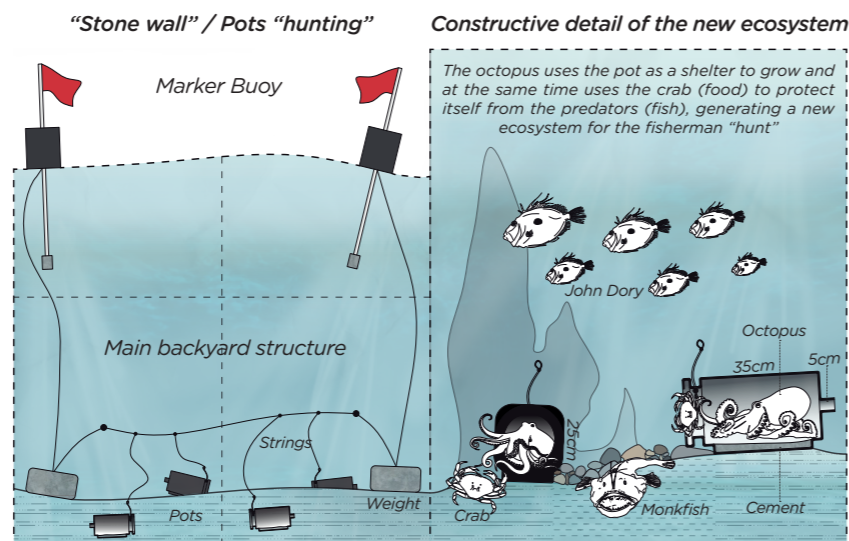
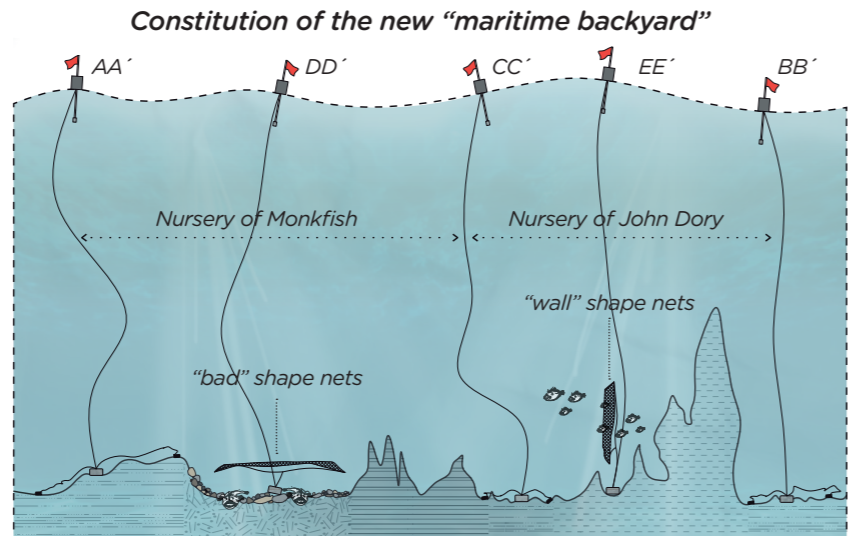
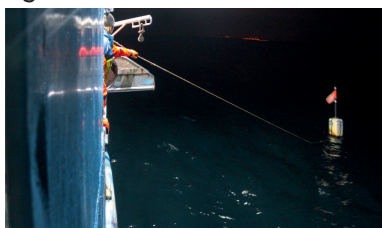
07:00am - The "hunting" start and before the master assigns a toponymy for the place through the visual marking from landmarks and the morphological examination of the new "sea" (territory) using the hand probe.



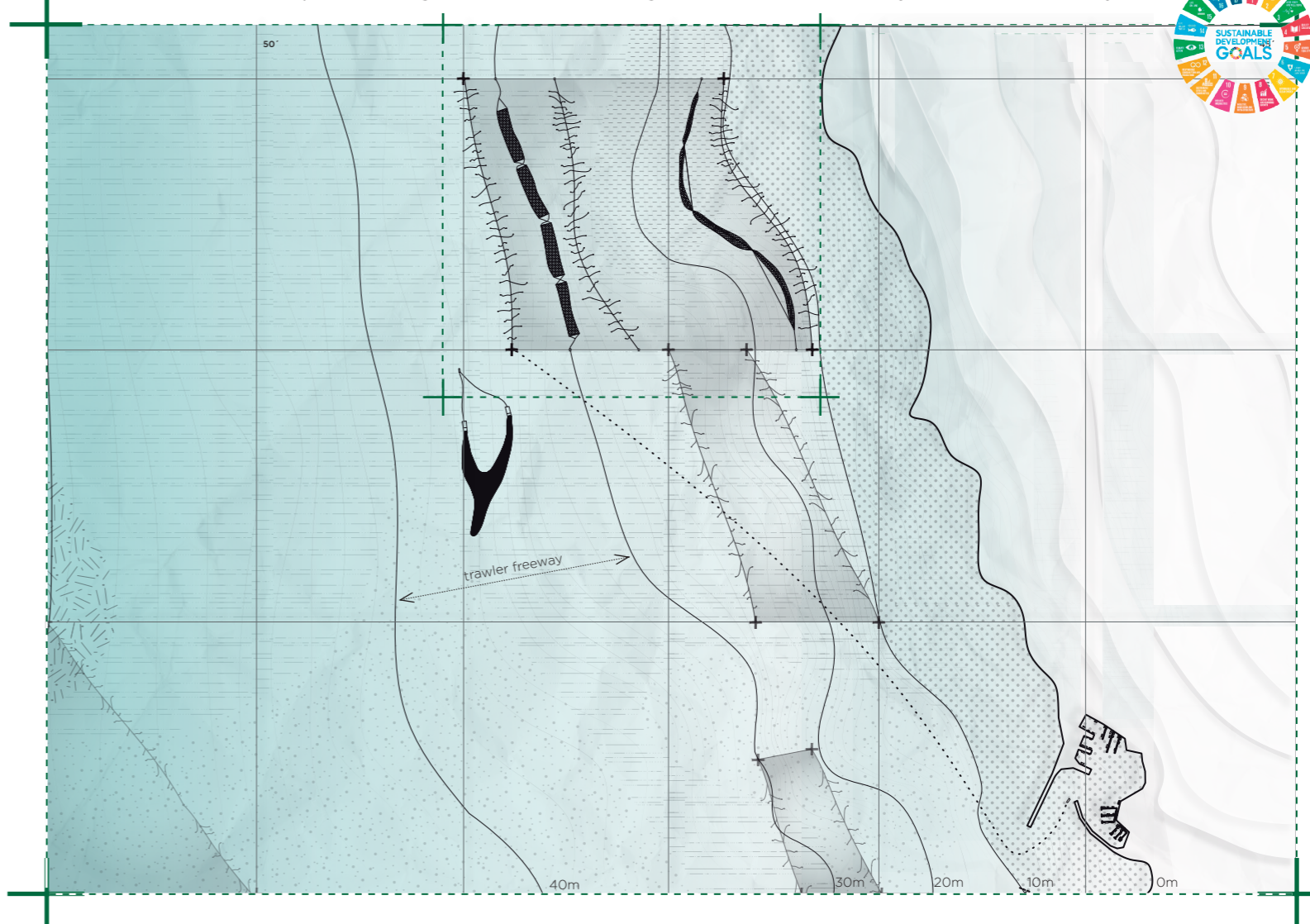
03:00pm - Wait for a shoal signal to collect the "hunt" (net) for ending with the "hunting" and return to the fishing port.



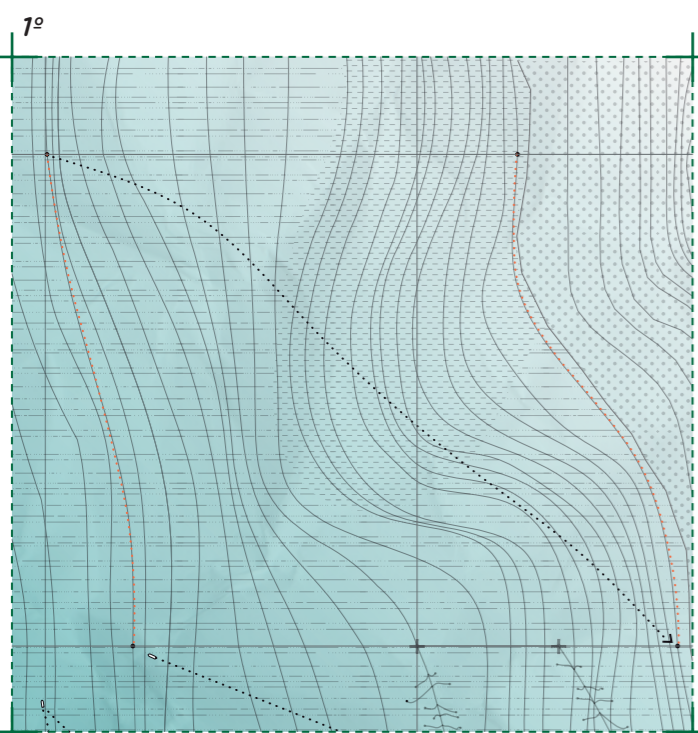
In situ experience through the explanation of the anonymous master about the current space method of fishing from the multi-purpose fishing in Póvoa de Varzim.



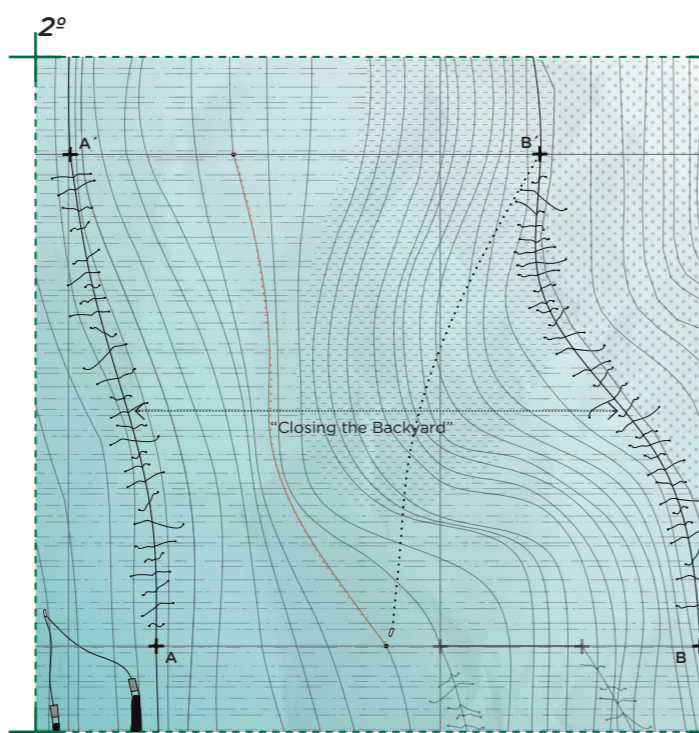
B. "Poveira" Multi-Purpose fishing - Process of creating a new "maritime backyard" in the territory of one



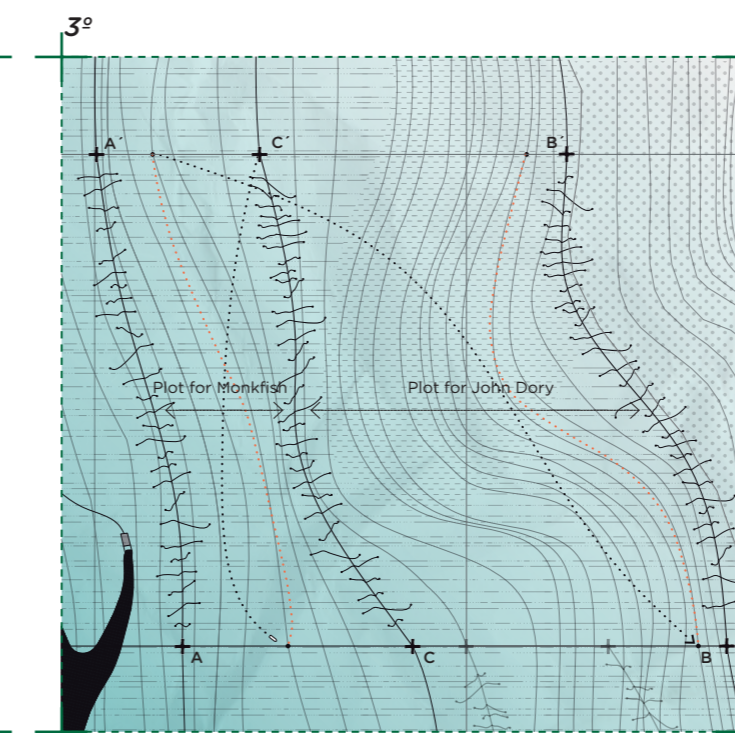
Existing boundary dimension of a "Maritime Backyard" (in situ) - 1° 10 000 pots - 50 km (+/-); 2° 5 000 pots - 25 km (+/-); 3° 1000 pots - 5 km (+/-); 4° 250 pots - 1,25 km (+/-); 5° 50 pots - 250 m (+/-); Area of the new backyard - AB / A' B' - 6 250 000 m²



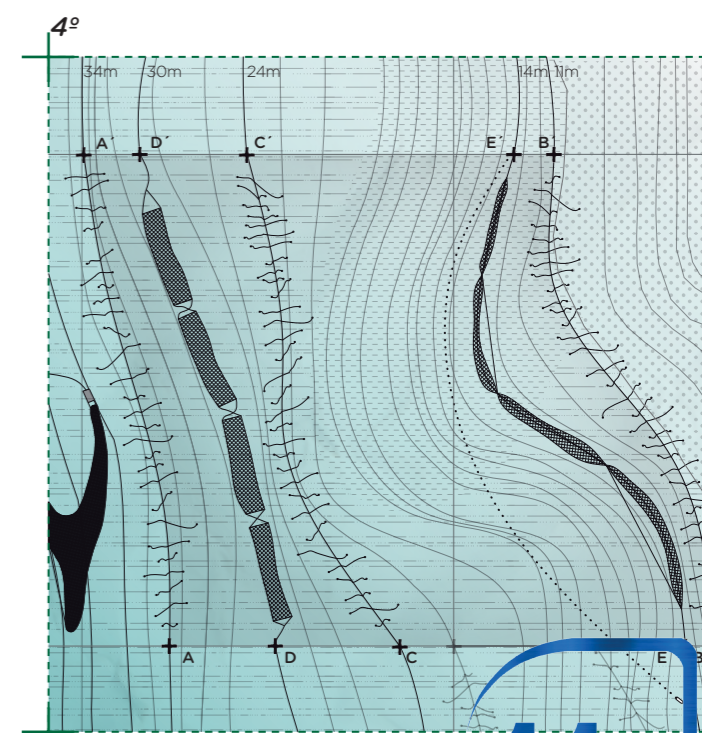
10:00pm - Leaves the fishing port. Midnight Arrive at point A and start "hunting" until point A.
02:30am - Process of "closing the backyard", launches the second BB' "hunting". Defines the limits of the new backyard.



03:30am - Creation of the CC' plot in the new backyard, between the two "stone walls" (AA' / BB')



05:00am - Introduction of two nurseries between the two portions of the backyard, one for the Monkfish (gravel) and another for the John Dory (rock).



10:00am - After marking the bathymetric lines and the geographic coordinates of the new backyard in the computer program "MaxSea", the master moves to the other backyards spread over the sea to harvest the "stone walls" octopus until 03:00pm and then sell to the fishing port.