


Ecology and Biology of sharks in the Northeast Atlantic Ocean and the Mediterranean Sea.


Conservation of the populations affected by the long-lines

Sébastien Biton Porsmoguer  
PhD student in oceanography  
MIO (Mediterranean Institut of Oceanography)

Brussels, 14 th december 2011



Dr. Daniela Banaru Almarcha  
Dr. Charles-François Boudouresque  
Dr. Ivan Dekeyser



Presentation of the research project

1. Objectives
2. Study zones of exploitation
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## Objectives

1. Improve knowledge of the affected populations of sharks
2. Better understand the environmental, biological and technical characteristics bound to fisheries
3. Study possible fishing measures bound to limit by-catch
4. Test repelling techniques and study possible application in real cases of fishing

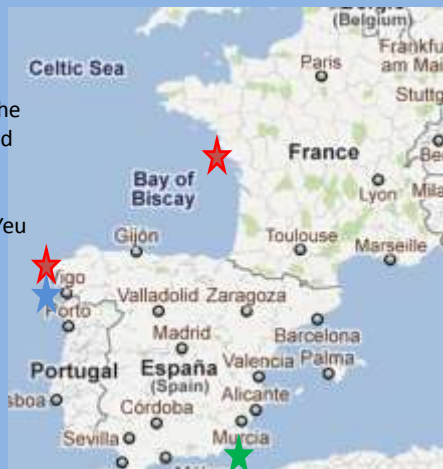


## Study zones of exploitation

### Eastern Atlantic:

- ★ Boardings, tests of the repelling systems and sampling aboard longliners of A Guarda and Ile d'Yeu

- ★ Sampling in the fishing port of Vigo



### Mediterranean Sea:

- ★ Boardings, test of the repelling systems and sampling aboard longliners of Carboneras (Almería)



## Study aspects

1. Study the ecology and the biology of the pelagic species affected by longlines , in particular their diet. The study of the contamination levels will be made on more sedentary species (for example dogfish ).
2. Study the environmental and biological characteristics of the fishing zones for commercially exploited species (tuna, germon, swordfish) and sharks.
3. Study the possible correlations between the environmental and biological characteristics of the exploitation zones for tunas and sharks to understand possible fishery-based conservation measures (modification of the depth of hooks, bait changes, etc.).
4. Test the application of repulsion based on the particular effect of magnetic waves and from repulsion substances of synthesis

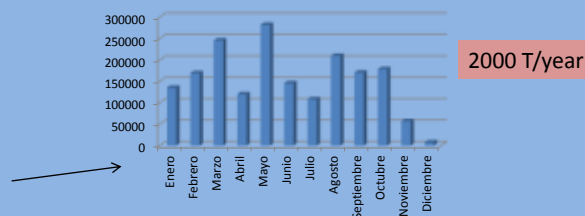


## Implemented means

1. Sampling (stomachs, vertebrae, tissues) species landed in the fishing port of Vigo:

- . Blue shark
- . Mako shark

Landing of blue Shark (Kg)  
in the fishing port of Vigo  
in 2011 – Xunta da Galicia



2. Boarding on longliners of A Guarda (Galice - Spain), Carboneras (Almería – Spain), and perhaps île d'Yeu (Loire-Atlantique – France) and for sampling (stomachs, vertebrae, tissues) of captured sharks.



## Duration of the project

This research project related to a doctoral thesis will be completed during 2012, 2013 and 2014.

Thank you for your attention.

Contact: [medio.marino@chelonia.es](mailto:medio.marino@chelonia.es)

