EUCC « From impacts of global change to adaptative responses »

Intertidal Biodiversity of the south of the Bay of Biscay and Observation for New research and Monitoring for decision support

BIGORNO Project

First results – Case study of Guethary

Laura Huguenin



Intertidal communities as indicator of global environmental change along the frencl basque coast







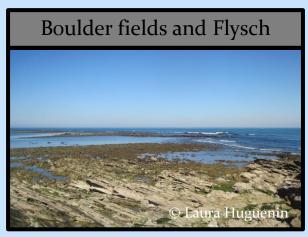




Basque coast features

Geomorphological diversity & biogeographical specificity





Exposed to wave actions & storms



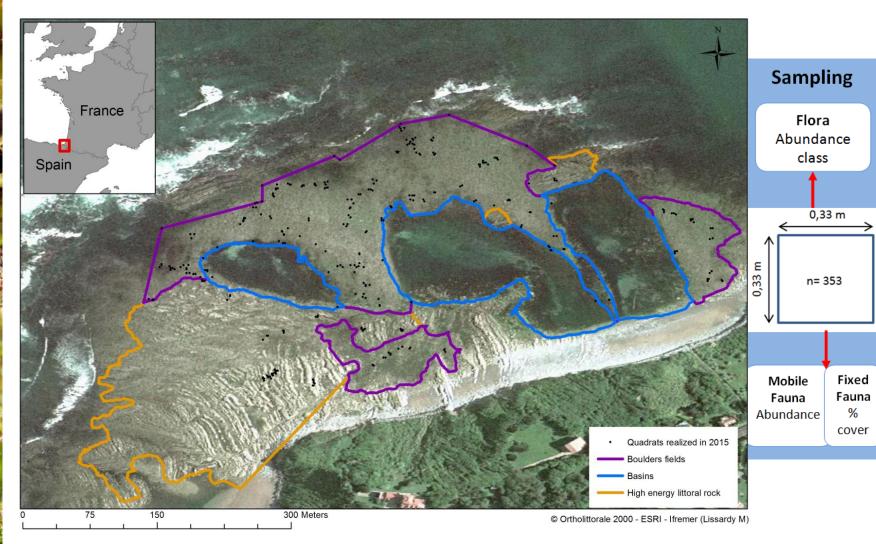


Intertidal zone: sensitive & important functionality

In the context of climat change: How these features will be modified?

Methodology

Stratified random sampling





3 ways to select species:

- Indicator species (probabilistic)

« Indicspecies »

- Biogeographic range limit (North or South)
 Reflects global environmental change
- Trophic group

 Must be monitered





BIGORNO Project :

- Follow global environmental change (Natural and Anthropogenic impacts)
- Spatial distribution & variability of abundance per habitat
- Global change indicator species
- Question 1: How it is possible to follow unusual species? (Representative of climate change)
- Question 2: How it is possible to dissociate anthropogenic impacts and climatic impacts?
- **Question 3:** How wave action impacts biodiversity between each monitoring sites? And how it is possible to integrate this parameter in our project?

Conclusion



Thank you for your attention

