

#### Agrupamento de Escolas Anselmo de Andrade Cluj-Napoca – Romania, 30th October 2019



# The Diversity of the Portuguese Sea Life Portugal

Erasmus+ KA229 School Exchange Partnership Short-Term Joint Staff-Training Event (C1) 2019-1-RO01-KA229-063231\_4 2019 - 2020



# The Constitution of the Portuguese territory

- Land area: mainland Portugal, archipelago of the Azores and archipelago of Madeira, with 92 391 km<sup>2</sup>;
- **Sea-zone,** over which Portugal <u>exercises special</u> <u>territorial rights over</u> the economic exploration and use of marine resources encircles an area of 1,727,408 km<sup>2</sup>

**Exercises special territorial rights over? To whom belongs the sea? Or who owns the sea?** 



# United Nations Convention on the Law of the Sea (UNCLOS), 1982

Is the international agreement that defines the rights and responsibilities of nations with respect to their use of the world's oceans, establishing guidelines for businesses, the environment, and the management of marine natural resources, including energy production from water and wind.

### Portugal's Maritime Borders Exclusive Economic Zone (ZEE)

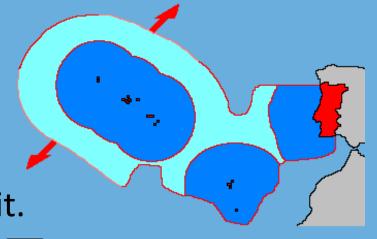
It's the coastal States' sovereign area over airspace, the sea, the seabed and it's subsoil, up to a distance of 200 nautical miles (1 852 meters), from its coast.

A sea to care for;

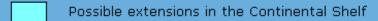
A sea to Protect;

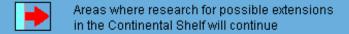
To watch over, and ensure the

Safety of the navigators who cross it.









A sea rich in marine resources with a wide variety and abundance of life: fish, marine mammals, crustaceans, molluscs, algae, corals, etc.



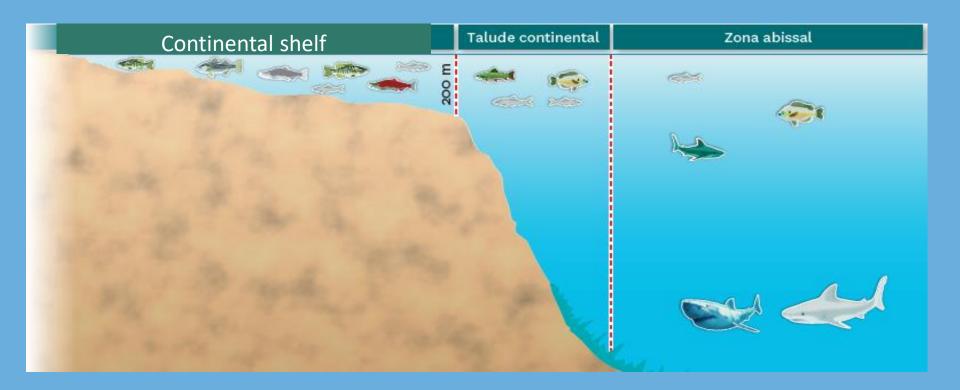






What are the physical characteristics of **Atlantic seawater** that allow this abundance? and in what areas?

The Continental Shelf: is a shallow underwater platform (up to 200 meters deep)



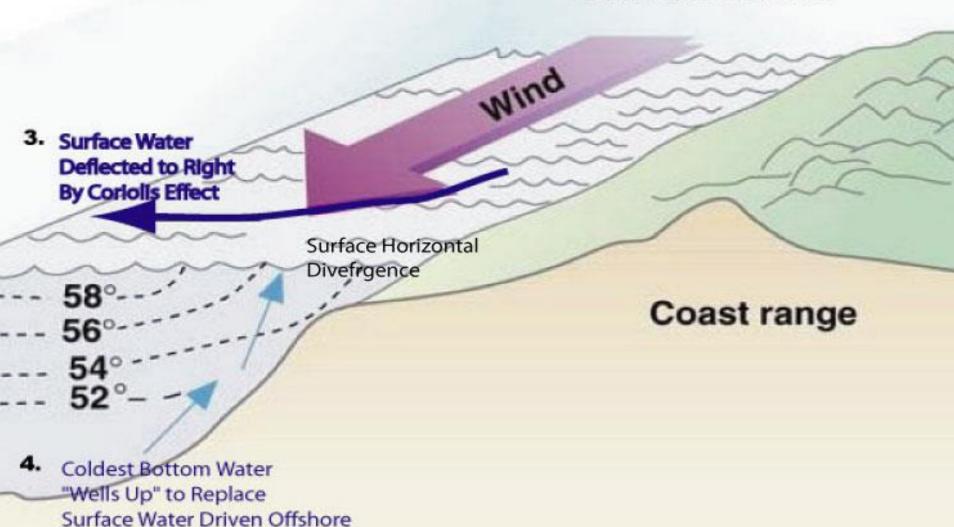
Depth; Wind; Luminosity; Horizontal and Water oxygenation; vertical sea currents Temperature; Salinity.

#### The Upwelling:

https://oceana.org/blog/watch-upwelling-secret-ingredient-productive-oceans



- 1. Summer Afternoons -- Northw Increase In Speed
- Surface Winds Begin Driving Surface Water Southward



## Krill - Zooplankton



#### **Biodiversity in national waters**

Fish: horse mackerel



Mollusc: octopus



Crustaceos: Langoustine/crawfish



#### Blue whale in Azores waters



#### Moon fish in Algarve waters



#### **Biodiversity in Portuguese waters**



### Dolphins in the Portuguese sea



But the sea is also very present in Portuguese culture, literature, music, art, gastronomy...

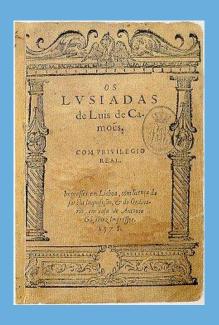
## It's our Cultural Heritage Let's discover

#### The Lusiads, Luís de Camões

"The seas, never by seaman crost"

"Giving new worlds to the world"

"I saw clearly seen"



These are striking verses.

They emphasize the role of navigators in connecting the seas.

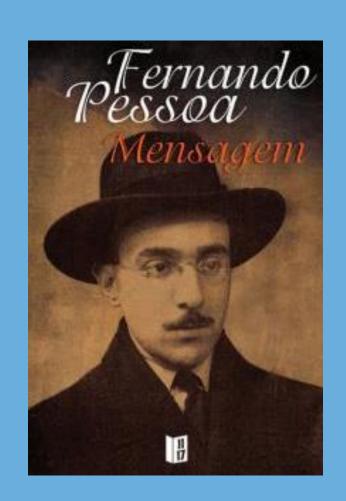
They point to the importance of experience for knowledge in the Renaissance.

#### Message, Fernando Pessoa

"Oh salty sea, so much of your salt is tears of Portugal!"

In the 20th century, the sea remains timeless in Portuguese poetry.

Fernando Pessoa pays tribute to all those who venture into the sea.



#### Sardina-pilchardus



#### and so begins the story of the sardine

https://youtu.be/heJ9q9bKfpE



