

Erasmus KA229 - School Exchange Partnerships Nr: 2019-1-RO01-KA229-063231_1

Connecting Seas

Brochure 3 – Conquerors of The Sea





Conquerors of Portuguese Sea



A. Discovering the World



The "Cantino planisphere" - the oldest known Portuguese nautical chart (1502)

The conquest of Ceuta (1415)

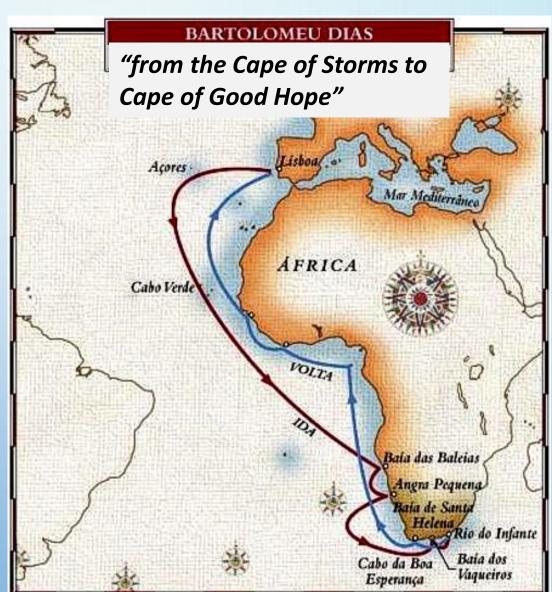


Ceuta, an Islamic city in North Africa, was conquered in 1415 and it is now a Spanish territory

The passage from the Atlantic to the

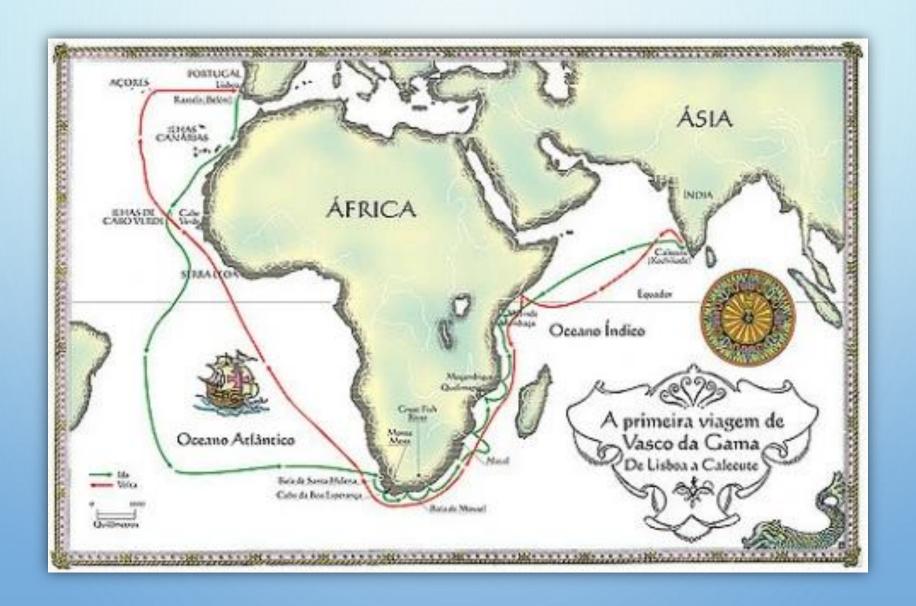
Indic Ocean:

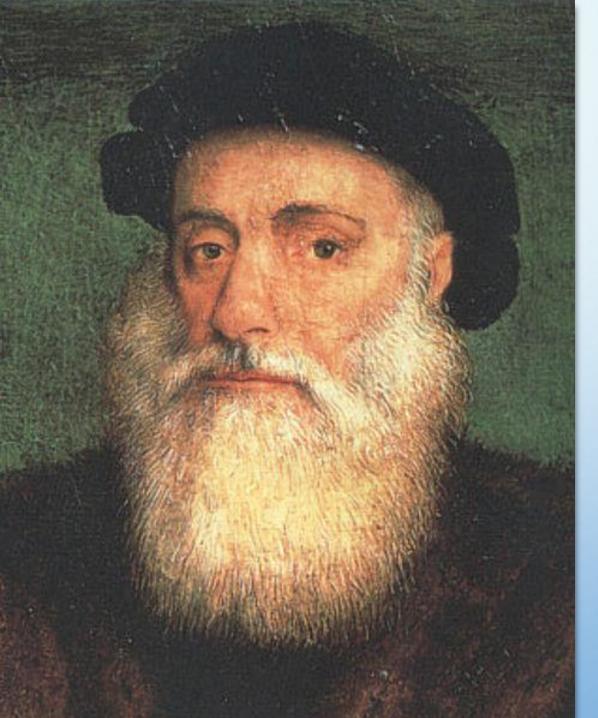
In **1488**, *Bartolomeu Dias*, finally managed to pass the Cape of Good Hope.





Ever further: the sea route to India





<u>Vasco da Gama</u> (1469 – 1524)

Portuguese navigator and explorer, 1st Admiral of the Indian Seas: Seas of Arabia, Persia, India and all the Orient

Finally, the discovery of Brazil

Pedro Álvares Cabral arrived in Brazil, on the 22nd April, 1500



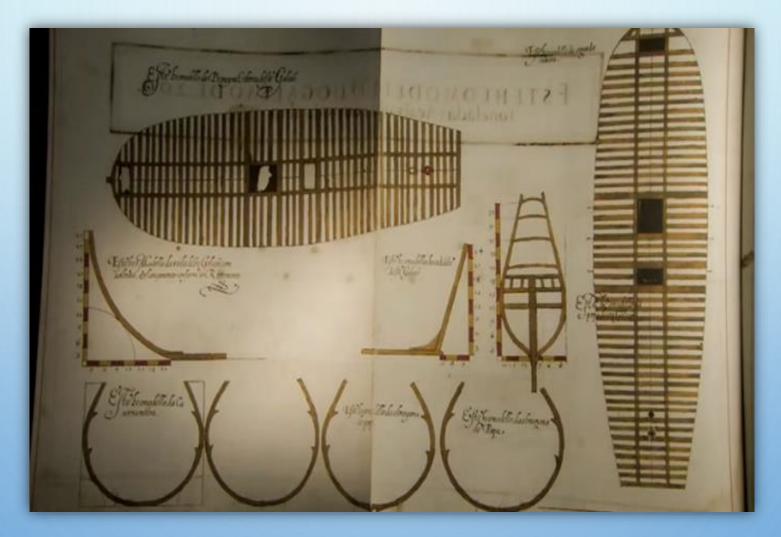


B. The Maritime Techniques



"Caravels and Naus", a technological shock in the 16th century

A new technical and scientific knowledge



Shipbuilding innovation

The ships of the Discoveries: the Caravel



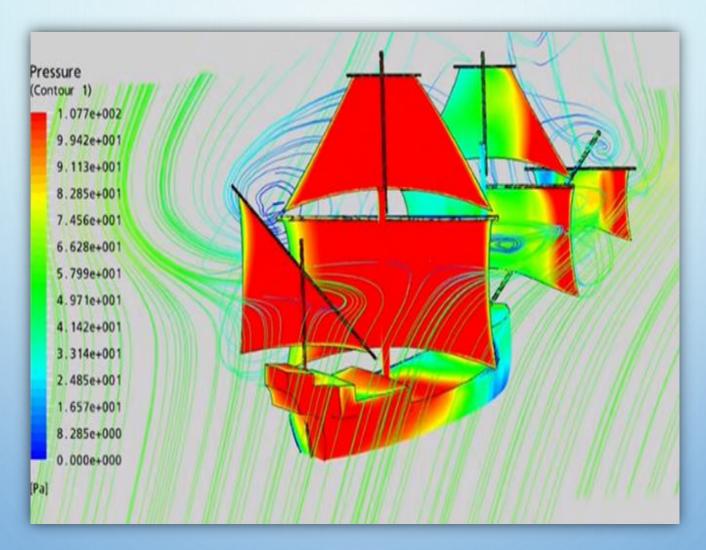
With triangular sails, known as "Latin Sails", allowed it to tack (sail in zigzag against the wind)

The ships of the Discoveries: the Nau



A commercial and military vessel with increased speed and cargo capacity

The Nau: harness the winds...



The knowledge of prevailing winds has improved navigation

Navigation instruments used...



The quadrant; the nautical astrolabe and the cross-staff

The compass...



The "compass" was probably the most used navigational and orientation instrument during the Discoveries.

The quadrant and the nautical astrolabe...



The nautical astrolabe

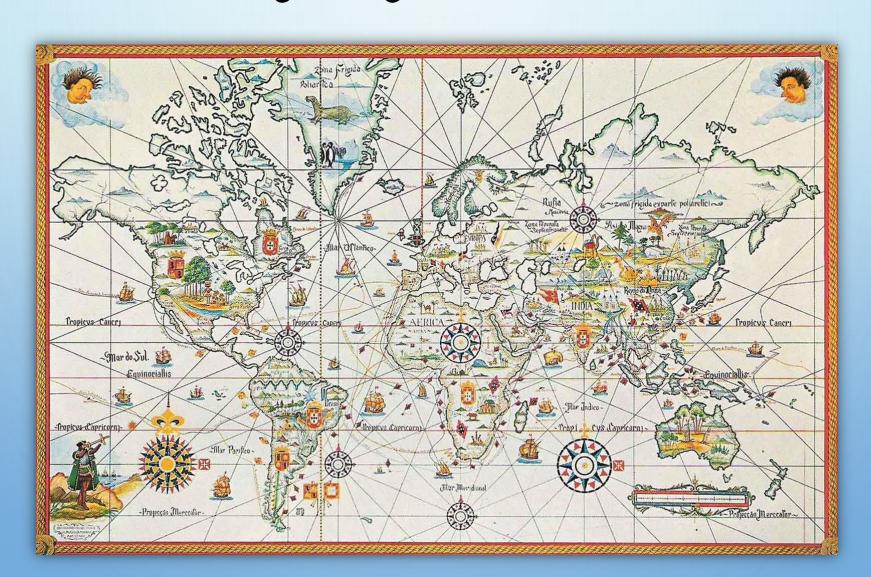


C. The contribution of the Portuguese Discoveries to the World

Broadening of knowledge:

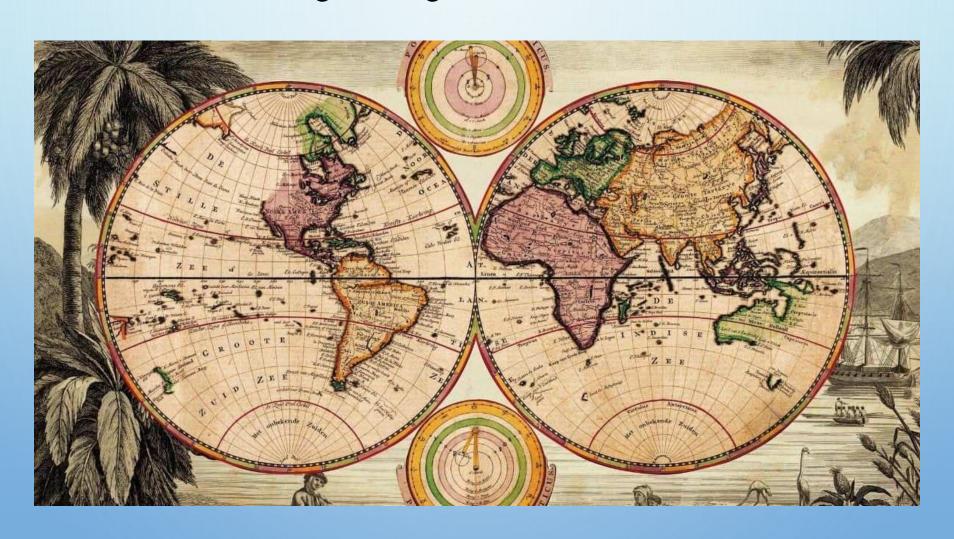
- new peoples; new ideas; new cultures; new religions;
- new animals (zoology); new plants (botany);
- geography; cartography; linguistics; astronomy (the way is opened for the theories of Copernicus, Kepler and Galileo);
- contributions to art and the Renaissance.

"Giving the World New Worlds" The beginning of Globalisation



"Giving the World New Worlds"

The beginning of Globalisation





Romanian Conquerors of The Sea

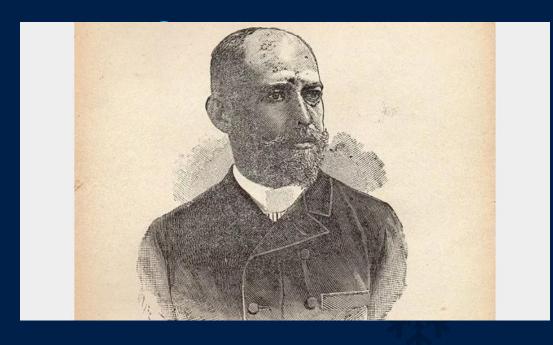




The Congress of Berlin of 1878—— Romania's independency

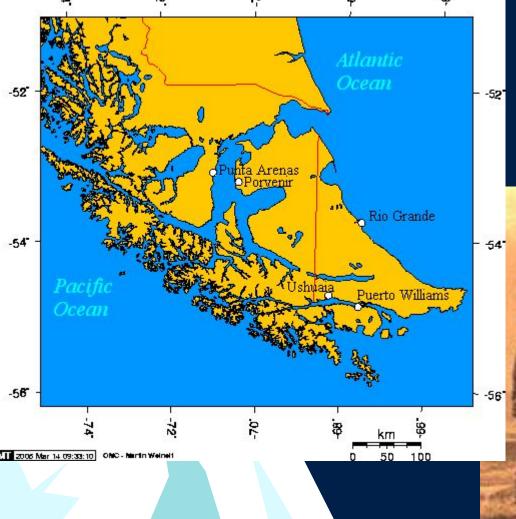
-Dobrogea -The Danube Delta -Constanţa -The Snake Island

The Romanian Conqueror of Patagonia



The life of Julius Popper



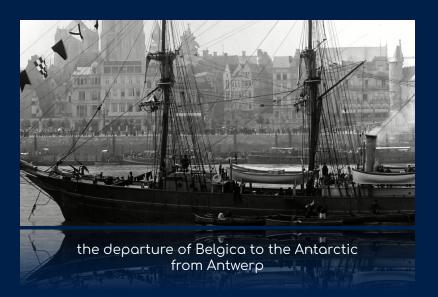


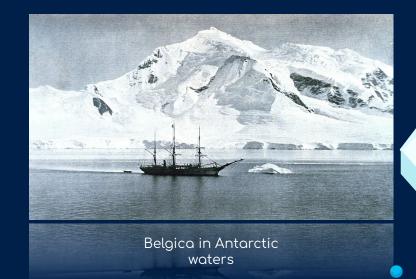
the Land of Fire/ Patagonia

the explorer making some field measurements











Belgica's Route







The whale species met by Racovita



Wiencke, the first fallen member of Belgica

















ZOOLOGY

CRINOIDEA

D. DILWYN JOHN

ANVERS





Racovita's work on biospeology

ARCHIVES DE ZOOLOGIE EXPÉRIMENTALE ET GÉNÉRALE IV° Série, Tome VI, p. 371 à 488

15 Mai 1907

BIOSPÉOLOGICA

I

ESSAI SUR LES PROBLÈMES BIOSPÉOLOGIQUES

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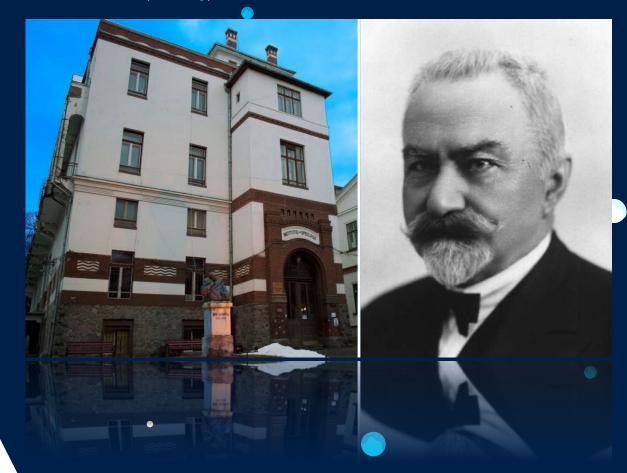
ÉMILE G. RACOVITZA

Sous-Directeur du Laboratoire Arago (Banyals-sur-Mer).

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The speleology institute



Discoveries in the Black Sea





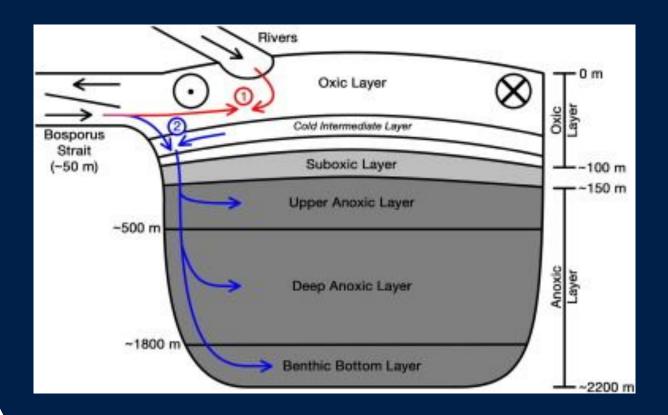




Map of the Black Sea, the cave highlited



Layers of the Black Sea



Phytoplankton blooms, NASA



Let's see what you remembered!

- Who was the one that spoke Romanian, German, English, Yiddish, Spanish, Portugese and French?
- What unique characteristics do the creatures in Movile cave have?
- Who extracted 1kg of gold daily?
 Who explored Antarctica for the first time?
 Where can you find Movile cave?
- Who first interacted with penguins?





Connecting Seas

Acknowledgements:

This study was carried out within the

Erasmus+ Connecting Seas KA229

- School Exchange Partnerships

No.: 2019-1-RO01-KA229-063231_1

"The European Commission support for the production of this publication does not constitute an endorsement of the contents which reflects the views only of the authors, and the National Agency and Commission cannot be held responsible for any use which may be made of the information contained therein."

