



## **EUROFLEETS** Training Activity





## **EUROFLEETS TASK 6.5**

## Task 6.5 Education activities (M12-M44) (EurOcean, OGS and all partners interested)

EurOcean will assess existing best practices among the EUROFLEETS Partners and other relevant parties (for example FP projects) about education activities having been developed for research cruises. On the basis of these results, initiatives will be taken as follows:

- An inventory of best practices on education activities will be made available in the "Internet Hub"
- A feasibility study of a selected best practice on education activities targeting education and citizen awareness will be prepared. Possible experiments to be conducted might be an on-line "live transmission" of TV images during a research cruise or the elaboration of educational material (DVDs)
- Implementation of the selected best practice during one of the research cruises organised by WP8 and 9 "TNA1 and 2" or taking advantage of other suitable opportunities
- Organising events during the European Maritime Day.





NAME OF THE ACTIVITY: Introduction to the research of the ocean and seabed on board of the caravel "Vera Cruz"

> Vessel chosen to explore the Scientific and Cultural Component





AREA OF STUDY: Tagus Estuary DATES OF THE ACTIVITY: 13-15 May 2013. RESPONSIBLE INSTITUTION: Fundação EurOcean RESPONSIBLE SCIENTIST: Prof. Luís Menezes Pinheiro (UA). ORGANIZATION OF THE ACTIVITY: Fundação EurOcean AND University of Aveiro (Dep. Of Geosciences and CESAM). COOPERATING INSTITUTIONS: Institute of Oceanography, University of Lisbon and APORVELA.





Activities on board of the vessel

- Safety Rules on board;
- Introduction to the history of the "Vera Cruz" Caravel and its importance;
- The importance / necessity of Research vessels in Marine Science;
- Introductory concepts of Navigation and Positioning Systems;
- Importance of the study of the Seabed Geology and Sub-surface;
- Importance of Physical Oceanography;
- Explanation of the geophysical methods, mainly Side Scan Sonar and reflection profiles of High-Resolution seismic - Chirp Sonar;
- Presentation of the methods used in Physical Oceanography to measure the temperature and salinity of the water column (CTD) and currents (current meter).

## **Organization of the Activity**



All - Safety Rules on Board



Group 1 - Geophysical Methods – Chirp Sonar, Side Scan Sonar (UA)



Group 2 - Physical Oceanography Methods – CTD, Current Meter (UL) Visit to the Navy Museum



Group 3 – General Introduction to Geology and morphogenesis of the **Tagus Estuary** 



Group 4 – The importance of Research Vessels, the importance of the Caravel and History





#### Materials developed for the activity





Educational quizze



Did you know? Brochure



Activities on board of the vessel

School	City
Escola Básica e Secundária de Lanheses, VIANA	Viana
Escola Josefa de Óbidos, LISBOA	Lisbon
Escola Secundária José Macedo Fragateiro, OVAR	Ovar
Escola EB72, Padre Bartolomeu de Gusmão, LISBOA	Lisbon
Agrupamento Martim de Freitas, Escola B23, COIMBRA	Coimbra

City	Grade	Nº Students
/iana	7	31
isbon	11 and 12	21
Dvar	10	29
isbon	4	24
Coimbra	8	20



15th ERVO Meeting - June 5-6, 2013, Brest, France



## Marine Research Infrastructures InfoBase

Cooperation between EurOcean and IFREMER in the Scope of the following Initiatives:







## **Proposal for the Specifications**

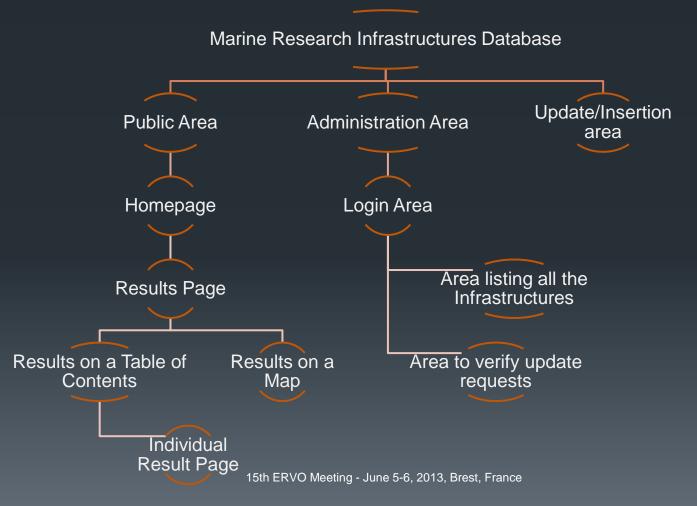
 Document developed in colaboration with IFREMER Proposal of Specifications for the Marine Research Infrastructures InfoBase: Structure and Functionalities



May 2013 EurOcean Office



## Structure of the new InfoBase



Type of Facilities that will be displayed



- Research vessels
- Underwater vehicles

 Other large exchangeable equipment



In situ data acquisition systems

- Fixed point open ocean observatories
- Mobile open ocean observatories
- Coastal observatories
- Infrastructure for deep ocean drilling research
- Other facilities



oceans

and

Satellites for seas

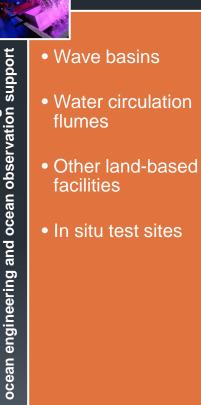
observation

 Satellites for ocean observation

 Coastal land and waters observation Type of Facilities that will be displayed



Land-based facilities and in-situ testing sites for ocean engineering and ocean observation support





Experimental facilities for biology and ecosystem studies

- Marine biology stations with genomics facilities
- Aquaculture
  research facilities
- Mesocosms facilities
- Ecosystem and Biodiversity Observatories network
- Other facilities

# Marine data providers

# Example of Homepage and filters used

A+ a-

Infobase Acronym

Infobase Logo

#### Infobase Acronym

other updates please

contact EurOcean (mailto:eurocean@fc t.mctes.pt) or insert (link to form)

yourself a new record and updates

c EurOcean 2012

#### If you are aware of any Infrastructure that is not yet in this infobase or any

Coan Seas example CSA

#### Infobase Logo

#### Infobase Name

Infobase Description, Aims, Principles and First Construction



Display Results on a Map Display Results on a Table of Contents Reset







A+ a-

## Fields of Information

Facility Information and Contact

CSA CCEPMS BONUS

Name Owner Operator Status operator (public research, other public administration, private) Category Sub-Category Country Main operating areas Main scientific disciplines addressed Contact person Email Phone Address **URL** Operator **URL** Infrastructure Year Built Year of last refit Last Update of the information: ERVO Meeting - June 5-6, 2013, Brest, France



#### Additional information

CSA CCEPMS BONUS

Length (m) Max. Operating Length (m) Location (hometown) longitude / latitude Service currently offered by the infrastructure Access conditions Examples of scientific data acquired

Gallery Logo of operator

Technical Details File



## **ERVO Agreement**

## Status of the ERVO Agreement

 The Agreement was sent for approval to the ERVO Chairman on the 06 March 2013 AGREEMENT FOR COOPERATION BETWEEN THE EUROPEAN RESEARCH VESSELS OPERATORS GROUP AND THE FUNDAÇÃO EUROCEAN

#### PREAMBLE

The First Party: European Research Vessels Operators, represented by hereinafter referred to as ERVO.

And the Second Parts; Fundação Burlõtean, whose registered office is at Av. Dom Carlos I, 126 28, 1249-074 Lisboe, Portugal, fixal number PT 880 403 399, represented by its Executive-Director, Teimo Jorge Alves de Carvalio, hereineitater referred to as Eurócean.

CONSIDERING the approval of the proposal entitled "EurOcean services proposal for the ERVO Group - European Research Vessels Operators" in annex.

Have agreed as follows:

#### ARTICLE I (Object)

 The purpose of the present Agreement is to define the legal and financial framework for the development and execution of the activities to be performed by EurOcean in the scope of this Agreement.

The responsibility for supplying information is assigned to \_\_\_\_\_\_ representing ERVO.

#### ARTICLE II (Duties of EurOcean)

EurOcean and the work team, coordinated by the Executive-Director, will perform the tasks identified in the EurOcean's Proposal "EurOcean services proposal for the ERVO Group – European Research Vessels Operators", which is part of this Agreement.

#### ARTICLE III (Duties of the First Party)

- ENVO will, through its members, be responsible for the transfer of the annualy fee in relation to the work: referred to in ARTICLE II. The members will transfer the emount referred to in ARTICLE V to EurOcean, namely EQ, 2000, annually for the hosting, maintenance and sequidation of somain for the website.
- ERVO Chairman will, for each year, provide EurOcean with a list of Members willing to contribute to the fee and the amount to be invoiced to each member.



## Status of the Financial Contribution

(as of 31 May 2013)

Country	Paid
Ireland	300
Germany	300
Iceland	300
Belgium	300
Germany	300
Portugal	300
The Netherlands	300
Italy	300
Belgium	300
Sweden	300
Romania	300
Poland	300
Germany	300
Denmark	300
Italy	300
Total	4500
	Ireland Germany Iceland Belgium Germany Portugal The Netherlands Italy Belgium Sweden Romania Poland Germany Denmark Italy

#### Overbalance of 1500€



## **Services Proposal**

#### **Services Included**

- Hosting
- Maintenance
- Individual Domain

#### Services that might be provided with the Overbalance

- Creation of an ERVO Logo (around 620€) ??
- Re-design of the Website (around 1500€) ???
- Development of Institutional Brochures 250 Units (Around 860€)

Jecan

1. Background

that ERVO represents.

EurOcean services proposal for the ERVO Group -

European Research Vessels Operators

The objective of the DRVD members is to create and maintain a forum for European resea

Buddense - The budges (series for information as Marine Science and Technologie - use context (> 1020, and any context) 35 Marines from 30 Response mutations and a first to be found information or matrix astrong and the series of the series. The series the series from ("works accessing all factoring prior manages and provides information and prior materials and and the series of the series and the series of the series of the series of the information and the series of the series and the series of the series of the series of the information and the series of the information and the series of the se

amonator per manor manor informaziones. In patrice, fundamentariane a informa prime per implementa Marine Compane Research Area and Extraport Marine Palloy. In obstato per a contectiona postores, Eurobean ha a large experimente in develuaire, intenting per a contectiona particularia ante a per a contectiona per a develuaire description de contectiona ante per a contection de contectiona de develuaire description de contectiona ante per a contection de la Contectiona de de contectiona de information ante de la mandamentaria.

 Constanti Sine 2006: ArcClean manages (EVO) solution technically and in terms of contents giving sho supports to the ArcClean manages (EVO) solution and the COU members.
 Ouring the DOO down if the EVO groups one down and the Course of the EVO groups down are to the EVO groups down and the EVO groups one down and the course EuroCourse neares to the EVO groups down and the EVO groups one down are supported by the match EuroCourse neares to the EVO groups down are supported by the the subscience EuroCourse in a subscience in a support of the the match exclusion is a support of the the match exclusion in a support of the the match exclusion is a support of the the match exclusion in the match exclusion in a support of the the match exclusion is a support of the the match exclusion in a support of the the match exclusion in a support of the the match exclusion in a support of the match exclusion in a support of the match exclusion in a support of the match exclusion in a support exclusion in the match exclusion in a support exclusion in the match exclusion in a support exclusion in a support exclusion in the match exclusion in a support exclusion in the match exclusion in a support exclusion in the support exclusion in the match exclusion in the match exclusion in a support exclusion in the support exclusion

vessel specifiers with special faces are research vessels and associated mayopenet and/or intervention. (2000, which is branch membership of research vessel speciation representing the majority of forespectra relative and a later that runn from of measurit, weakli, it is that face face pairs for any approximation. Exception and the special research special control and the special face and approximation in the special research special control and the special research research are associated intervents and responses that deface to approximate of the special control and intervent and special responses and responses the control and special control and the special control responses to any opponder to control and provide and control of the special control and the special control responses any opponder to control and the special control and the

2" Version

## Thank you for your Atention!