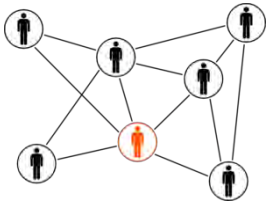


Development of an overarching Marine Research Infrastructures information system

Sandra Sá, Ned Dwyer, Marcin Wichorowski, Tiago Garcia

infrastructures@eurocean.org

EurOcean in a Nutshell



a network of member-organisations



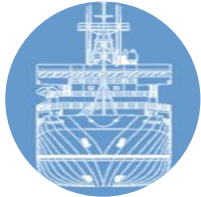
information on marine science and technology



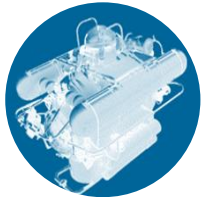
- marine research infrastructures
- marine knowledge
- outreach and communication

Evolution of four infrastructure databases

2006



Research Vessels (373)



Exchangeable Equipment (109)



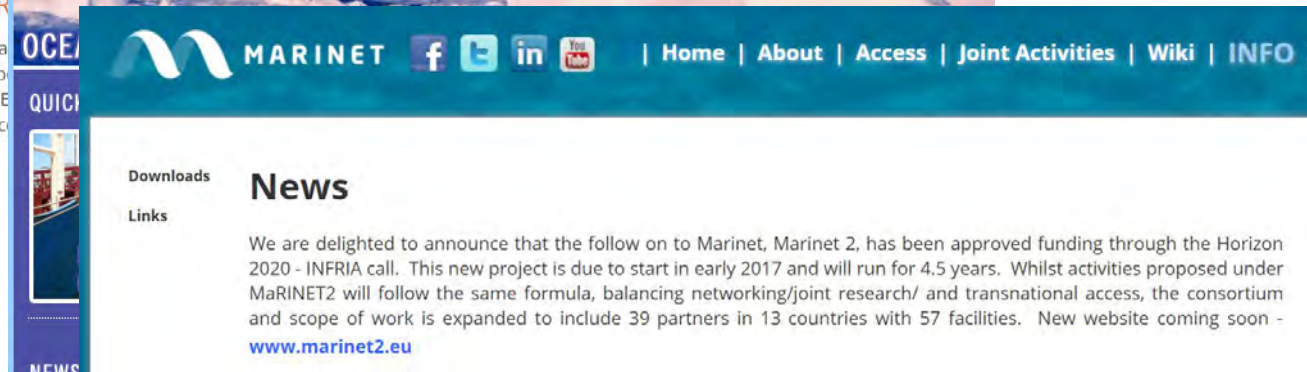
Aquaculture Facilities(151)



Research Infrastructure Database (916)

2014

Adding Value to Other Initiatives



Why an Integrated Database is Required

- Recurrent extra work to maintain, update and homogenise the 4 InfoBases, each having their own source file;
- Remaining discrepancies between the InfoBases due to different definitions or interpretation of some descriptors;
- Features and design in need of update for the oldest InfoBases.

The challenge was to develop an integrated system in order to unify both the source files and the online InfoBases and interfaces.



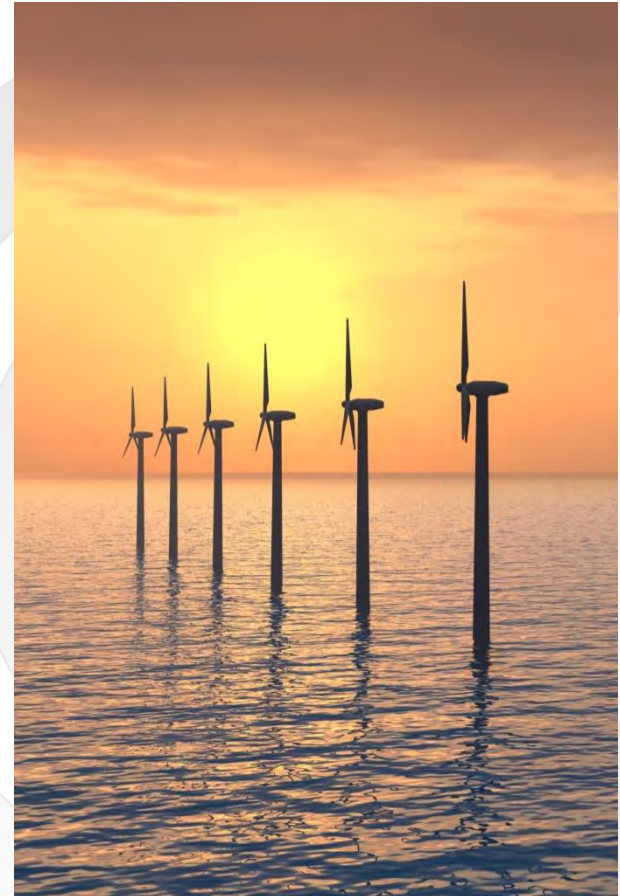


Collaborations for the development of a proposal



Features of the Integrated Database (RID 2.0)

- A modular approach allowing easy expansion;
- Simplification of categories;
- Standardization and protocols (assure compatibility with standards regarding information provisioning services and data content itself); e.g. SeaDataNet and BODC;
- Overview statistics.



Fourteen Infrastructure Categories are Included

Research Vessels
Underwater vehicles and large equipment
Fixed point open ocean observatories
Mobile ocean observatories
Coastal observatories
Deep ocean drilling research facilities
Satellites for seas and oceans observation
Marine data providers
Basins, flumes and test labs for ocean engineering
In situ test sites for ocean renewable energy
Marine biology stations
Aquaculture research facilities
Marine mesocosm facilities
Other

These align with key EU Projects and Initiatives



Typical Common Information Available

Name

Owner

Operator

Operator status

Category

Type

Country

Main operating areas

Main scientific disciplines addressed

Contact person

Operator URL

Infrastructure URL

First Year of service

Year of last refit

Length (m)

Max. Operating depth (m)

Service currently offered by the infrastructure

Access conditions

Examples of scientific data acquired

Logo of operator

Photo of infrastructure

Location (hometown)

Latitude

Longitude

Last Update of the information:

Specialised Information for Some Categories

Ship information >>>

Vessel status *

Technical capacities *

Vessel Type *

ICES Shipcode

MMSI Number

IMO Number

NODC Code

Call Sign

URL Schedule

Class Notation



Main Characteristics >>>

Length (m)

Breadth (m)

Max displacement (tons)

Gross Tonnage

Freeboard to Work Deck (m)

Draft (m)

Hull Material

Electrical propulsion (Yes/No)

Dynamic Position

Silent Ship Operation Abilities

Capacity Dry Cargo Area (m3)

Fuel Capacity (m3)

Water Capacity (m3)

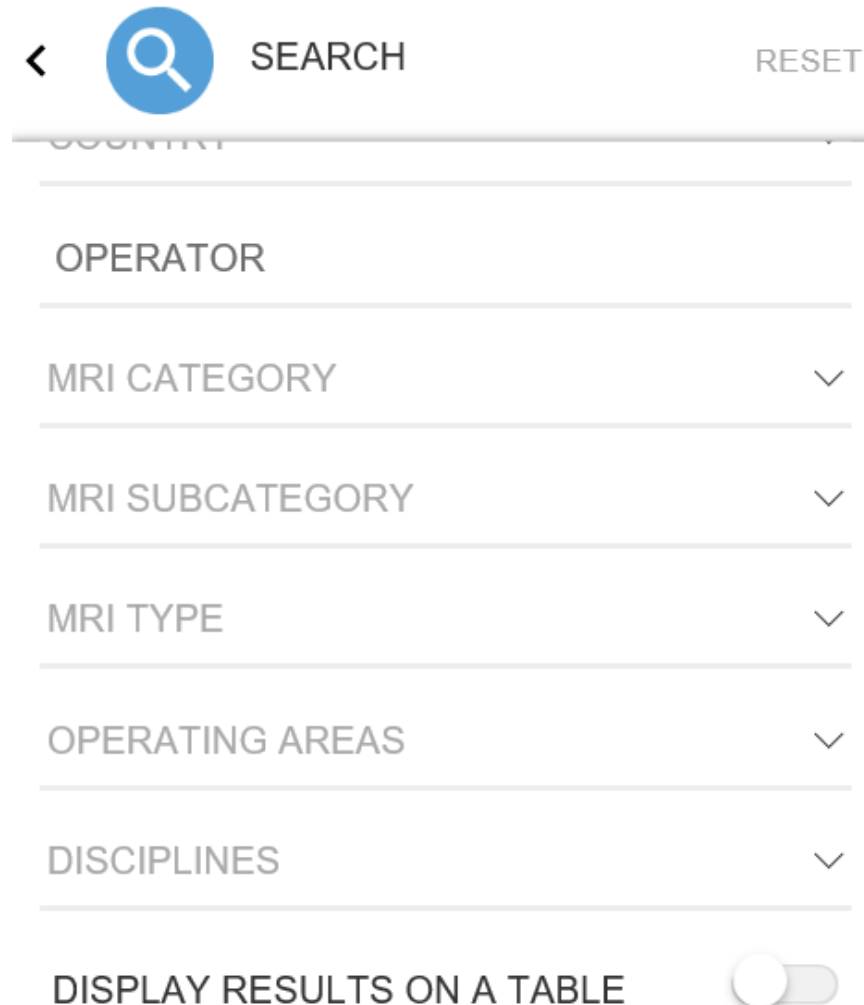
Water Gen (m3)


Etc.....

Sneak Preview of new RID 2.0

The screenshot displays the eur@cean web application interface. At the top, there is a navigation bar with the logo 'eur@cean' on the left and links for 'ABOUT THE DATABASE', 'SEARCH TIPS', 'TECHNICAL NOTES', and 'DISCLAIMER' in the center. On the right, it features the 'CSA OCEANS 2 Seas era: eur@cean' logo. Below the navigation bar is a legend with five colored circular icons (blue, green, orange, red, purple). The main area is a map of Europe and the Mediterranean region, with various countries labeled in Portuguese: Islândia, Suécia, Noruega, Finlândia, Estónia, Letónia, Lituânia, Polónia, Bielorrússia, Ucrânia, Roménia, Bulgária, Grécia, Itália, República Checa, Eslováquia, Hungria, Moldávia, Sérvia, Croácia, Alemanha, Dinamarca, Reino Unido, Irlanda, França, Espanha, Portugal, Marrocos, Argélia, Líbia, Egipto, Saara Ocidental, Tunísia, and Israel. A search sidebar is open on the right, containing a search bar with a magnifying glass icon and a 'RESET' button. Below the search bar are several filter fields: NAME, COUNTRY (with a dropdown arrow), OPERATOR, MRI CATEGORY (with a dropdown arrow), MRI SUBCATEGORY (with a dropdown arrow), MRI TYPE (with a dropdown arrow), OPERATING AREAS (with a dropdown arrow), and DISCIPLINES (with a dropdown arrow). At the bottom of the sidebar, there is a toggle switch for 'DISPLAY RESULTS ON A TABLE' and a section titled 'CONTRIBUTE YOURSELF TO UPDATE THE DATABASE' with a subtext: 'If you are aware of any infrastructure that is not yet in this infobase or any other updates please contact EurOcean or insert yourself a new record and updates.' Below this text are two buttons: 'CONTACT' with an envelope icon and 'INSERT' with a plus icon. The map includes zoom controls (+ and -) and a 'Center Map' button. The Google logo is visible in the bottom left corner of the map area. At the bottom right of the map, there is small text: 'Dados do mapa ©2016 Google, INEGI, ORION-ME Termos de Utilização Comunicar um erro no mapa'.

A Series of Search Filters are Implemented

A mobile application interface for a search filter. At the top, there is a navigation bar with a back arrow, a magnifying glass icon, the word "SEARCH", and a "RESET" button. Below this is a list of filter categories, each with a horizontal line and a downward arrow on the right. The categories are: "COUNTRY", "OPERATOR", "MRI CATEGORY", "MRI SUBCATEGORY", "MRI TYPE", "OPERATING AREAS", and "DISCIPLINES". At the bottom of the list is a toggle switch for "DISPLAY RESULTS ON A TABLE".

<  SEARCH RESET

COUNTRY

OPERATOR

MRI CATEGORY

MRI SUBCATEGORY

MRI TYPE

OPERATING AREAS

DISCIPLINES

DISPLAY RESULTS ON A TABLE

Click into results or save them externally

SEARCH RESULTS: **12** records

 Printable detailed PDF  Printable tabular PDF

Name	Category	Subcategory	Type	Country	Operator
ACRI Enviport	Marine data providers	n/a	Data mapping tool and portal	Italy	JRC-IES - Join Research Centre; Institute for Environment and Sustainability
ACRI Enviport	Marine data providers	n/a	Data mapping tool and portal	Italy	JRC-IES - Join Research Centre; Institute for Environment and Sustainability
ACRI Enviport	Marine data providers	n/a	Data mapping tool and portal	Italy	JRC-IES - Join Research Centre; Institute for Environment and Sustainability
ACRI Enviport	Marine data providers	n/a	Data mapping tool and portal	Italy	JRC-IES - Join Research Centre; Institute for Environment and Sustainability



Share your own Information in RID 2.0

CONTRIBUTE YOURSELF TO UPDATE THE DATABASE

If you are aware of any Infrastructure that is not yet in this infobase or any other updates please contact [EurOcean](#) or [insert](#) yourself a new record and updates.

 CONTACT  INSERT



COMING

SOON!

November
2016

<http://rid.eurocean.org>

infrastructures@eurocean.org

Subscribe EurOcean
newsletter

Attend the open
event in Sopot on
15th November 2016



The European Centre
for Information on Marine
Science and Technology

Facilitating Transnational Usage of Europe's Marine Research Infrastructure

Half-Day Conference

November 15th 2016, 14:30 – 17:30

Location IOPAN, Sopot, Poland

Time	Draft Programme
14:30 – 14:45	Welcome and Scene Setting in the ESFRI Context <i>Slawomir Sagan, Vice-President EurOcean</i> <i>Ned Dwyer, Executive-Director EurOcean</i>
14:45 – 15:00	The BONUS experience of joint use of marine and maritime infrastructure <i>Andris Andrusaitis, BONUS Programme Manager</i>
15:00 – 15:15	European Research Vessels Operators (ERVO) Group – Coordinating access to research vessels <i>Giuseppe Magnifico, National Research Council, Italy</i>
15:15 – 15:30	The SUBMARINER experience with shared infrastructure <i>Submariner (TBC)</i>
15:30 – 16:00	Coffee Break
16:00 – 16:15	European Marine Calibration Networks in the context of JPI-Oceans <i>George Petihakis, Hellenic Centre for Marine Research & JPI-Oceans</i>
16:15 – 16:40	EurOcean's Integrated Research Infrastructures Database (RID) adding value to marine infrastructure initiatives. <i>Sandra Sá, EurOcean & Marcin Wichorowski, IOPAN</i>
16:40 – 17:20	Roundtable and Discussion with a focus on enhancing EurOcean's role in relation to infrastructural information support <i>Ned Dwyer (facilitator)</i>
17:20 - 17:30	Wrap-up and Close of Conference <i>Slawomir Sagan, Vice-President EurOcean</i>

Register at

www.eurocean.org/np4/3740.html

before November 8th 2016