Development of an overarching Marine Research Infrastructures information system

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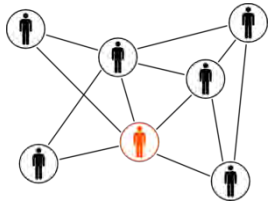
EurOcean in a Nutshell



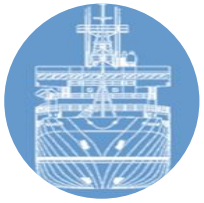
a network of member-organisations

information on marine science and technology

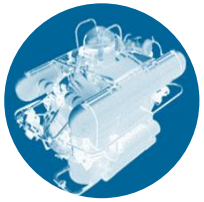
- marine research infrastructures
- marine knowledge
- outreach and communication

Evolution of four infrastructure databases

2006



Research Vessels (373)



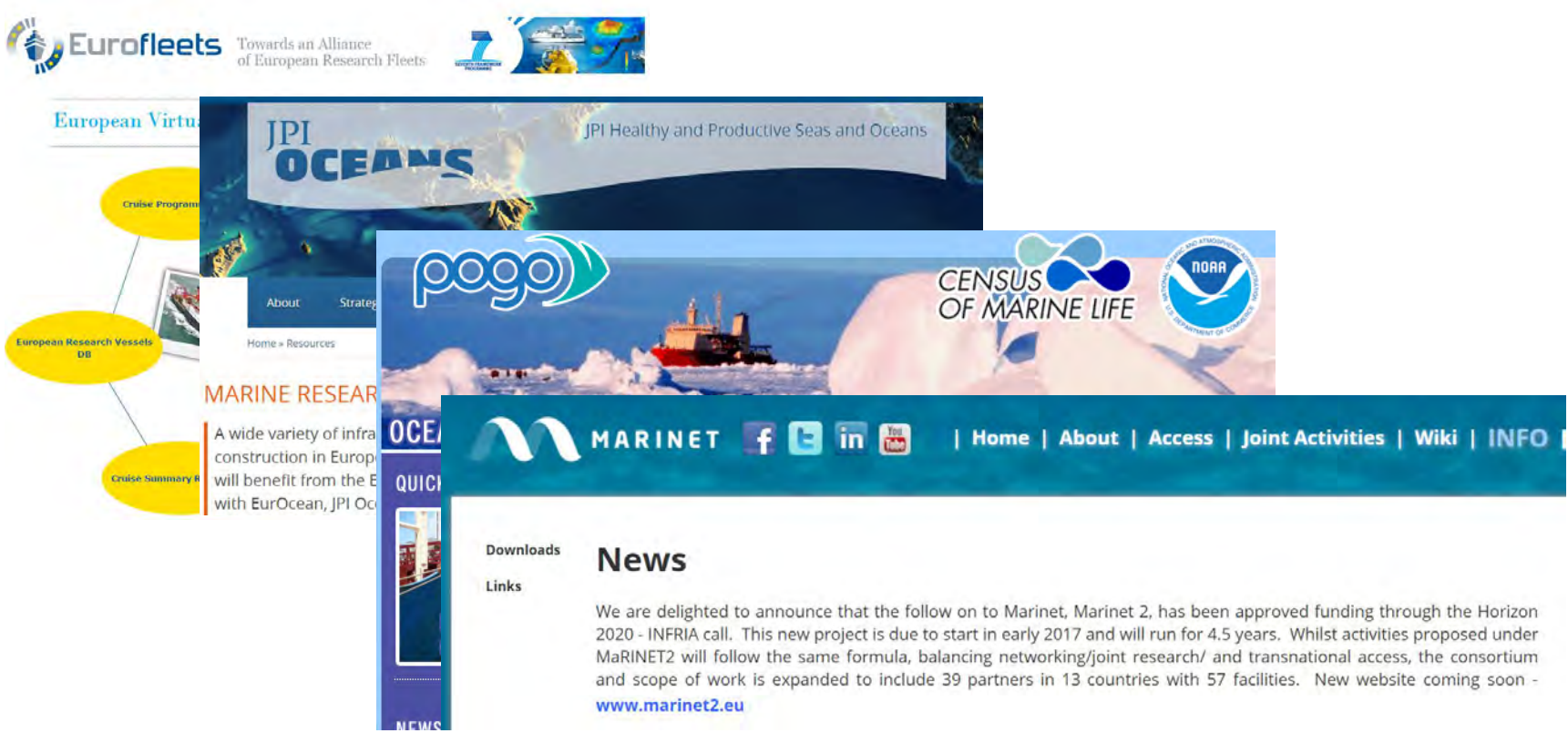
Exchangeable Equipment (109)

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	Length (m)
Owner	Max. Operating depth (m)
Operator	Service currently offered by the infrastructure
Operator status	
Category	Access conditions
Type	Examples of scientific data acquired
Country	Logo of operator
Main operating areas	Photo of infrastructure
Main scientific disciplines addressed	Location (hometown)
Contact person	Latitude
Operator URL	Longitude
Infrastructure URL	Last Update of the information:
First Year of service	
Year of last refit	

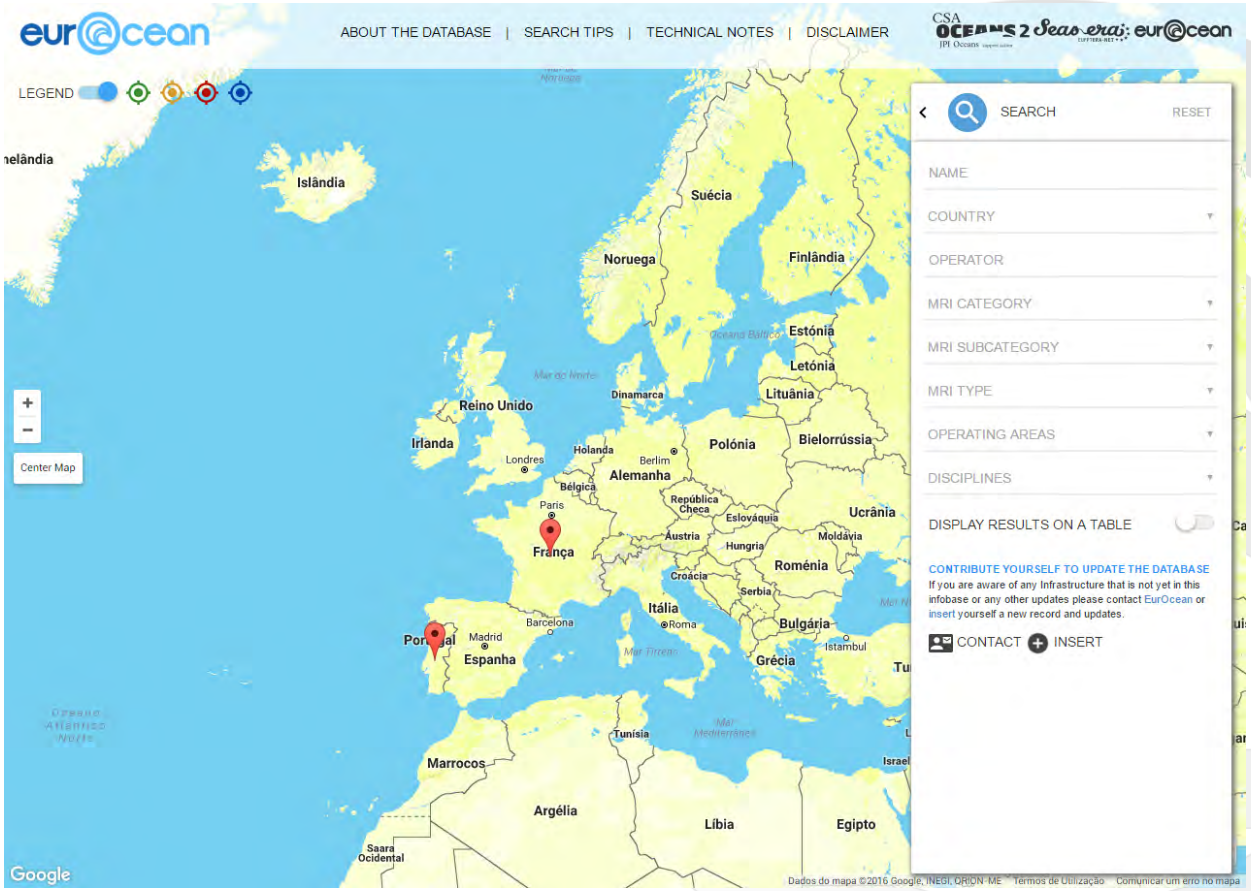
Specialised Information for Some Categories

Ship information >>>
Vessel status *
Technical capacities *
Vessel Type *
ICES Shipcode
MMSI Number
IMO Number
NODC Code
Call Sign
URL Schedule
Class Notation

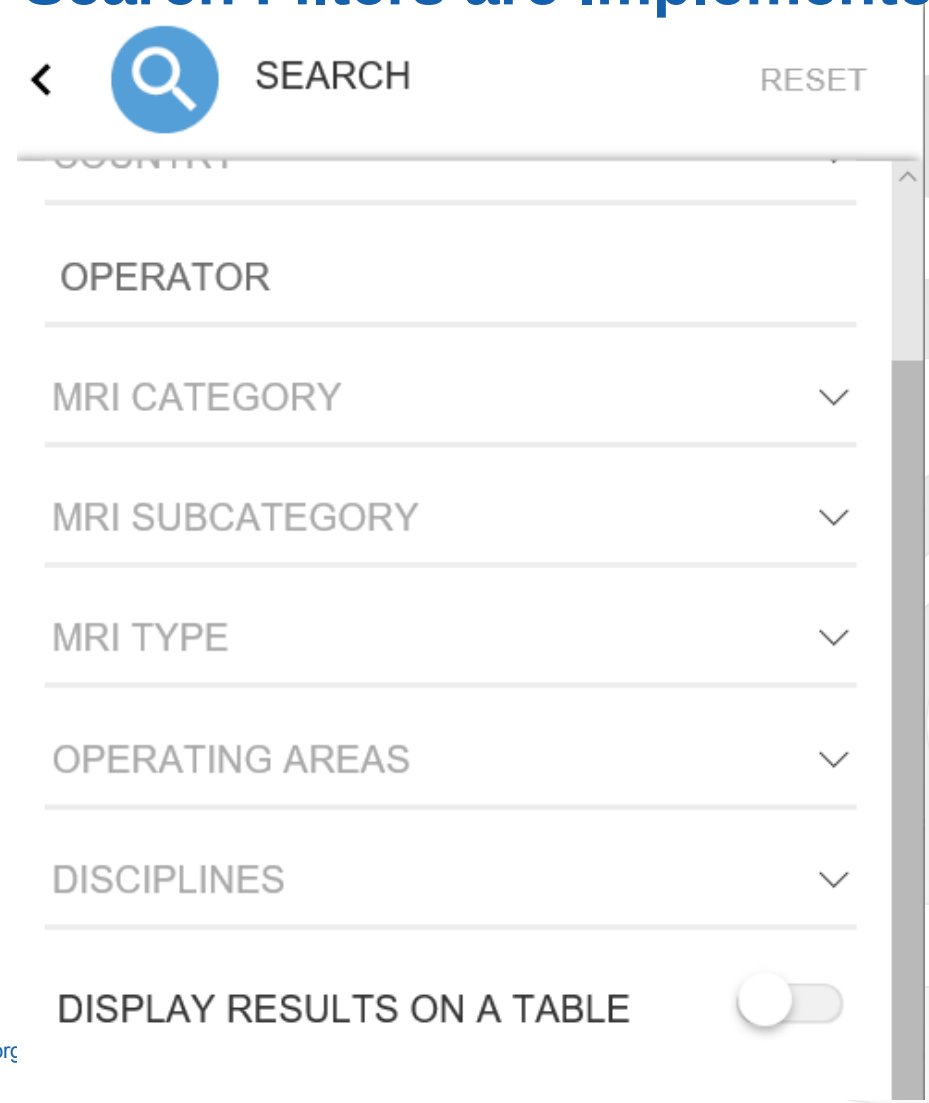
Main Characteristics >>>
Length (m)
Breadth (m)
Max displacement (tons)
Gross Tonnage
Freeboard to Work Deck (m)
Draft (m)
Hull Material
Electrical propulsion (Yes/No)
Dynamic Position
Silent Ship Operation Abilities
Capacity Dry Cargo Area (m3)
Fuel Capacity (m3)
Water Capacity (m3)
Water Gen (m3)

Etc.....

Sneak Preview of new RID 2.0



A Series of Search Filters are Implemented



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
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Example Only

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

November 2016

http://rid.eurocean.org

infrastructures@eurocean.org

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Attend the open event in Sopot on 15th November 2016

Register at

www.eurocean.org/np4/3740.html

before **November 8th 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** *Slawomir Sagan, Vice-President EurOcean* *Ned Dwyer, Executive-Director EurOcean*
14:45 – 15:00	**The BONUS experience of joint use of marine and maritime infrastructure** *Andris Andrusaitis, BONUS Programme Manager*
15:00 – 15:15	**European Research Vessels Operators (ERVO) Group – Coordinating access to research vessels** *Giuseppe Magnifico, National Research Council, Italy*
15:15 – 15:30	**The SUBMARINER experience with shared infrastructure** *Submariner (TBC)*
15:30 – 16:00	**Coffee Break**
16:00 – 16:15	**European Marine Calibration Networks in the context of JPI-Oceans** *George Petihakis, Hellenic Centre for Marine Research & JPI-Oceans*
16:15 – 16:40	**EurOcean´s Integrated Research Infrastructures Database (RID) adding value to marine infrastructure initiatives.** *Sandra Sá, EurOcean & Marcin Wichorowski, IOPAN*
16:40 – 17:20	**Roundtable and Discussion with a focus on enhancing EurOcean´s role in relation to infrastructural information support** *Ned Dwyer (facilitator)*
17:20 - 17:30	**Wrap-up and Close of Conference** *Slawomir Sagan, Vice-President EurOcean*