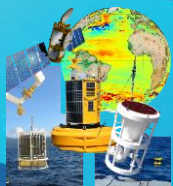


Sabine Schmidt<sup>1</sup>, Erwann Quimbert<sup>2</sup>, Joel Sudre<sup>3</sup>, Marine Vernet<sup>2</sup>, Caroline Mercier<sup>4</sup>, Dominique Obaton<sup>2</sup>, Jean-François Piollé<sup>2</sup>, Frédéric Merceur<sup>2</sup>, Gérald Dibaboure<sup>5</sup>, Gilbert Maudire<sup>2</sup>

## 1. Context

The past few decades have seen a marked acceleration in the diversity and number of marine and coastal observations, both by using in situ measurements or remote sensing.



In order to make the most of this flow of data for the benefit of knowledge and society in a context of global changes, the preservation of marine observations is a major issue and requires the development of relevant data and services centres.

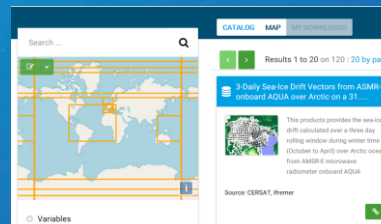
## 2. The French initiative: ODATIS

ODATIS – Ocean DATA Information and Services aims to become an unique gateway to all French marine data regardless of the discipline for the benefit of knowledge and society.

Roadmap: to facilitate data sharing according to FAIR principles for producers and users.

## 3. ODATIS catalog

ODATIS catalog includes the variables of all the marine disciplines (*physic, chemistry, biogeochemistry biology, sedimentology*) whatever the technique used (satellites, *in-situ* observatories, field cruises, lab analyses).



The catalog offers different data access tools:

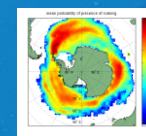
- a search service with selection filters,
- a data description service (*Preview or Complete*),
- a visualization service,
- the possibility to download data directly or via the local partner portals.

### Illustration of the diversity of the data, products and services accessible via the ODATIS portal

BIGOOD, Biology and GeOlogy Ocean Database: a marine biological and geological sample base



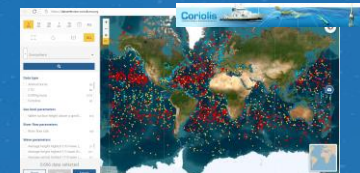
Advanced filters to select samples according to sampling location, campaign name, sampling mode, equipment type, date...



A database of small icebergs (lower than 3km in length) detected in Austral Ocean by spaceborne altimeters from 1985 to today

A newly available online prototype of data selection, using big data:

<https://dataselection.coriolis.eu.org>



## 4. Data Management Plan (DMP)

DMP are increasingly requested for projects financed by national and European funds:

➔ ODATIS provides support to data producers for the elaboration of data management plans (DMPs), a key element for the implementation of good data management practices and for FAIR data.

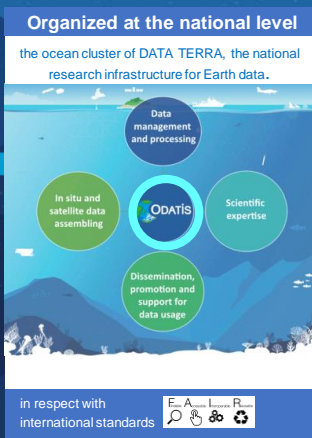
For more details: Schmidt S., Maudire G., et al (2020) Streamlining data and service centres for easier access to data and analytical services: the strategy of ODATIS as the gateway to French marine data. *Frontiers in Marine Science* 7: 548126. doi: 10.3389/fmars.2020.548126.

## 5. Publish your marine data

SEANOE: [www.seanoe.org](http://www.seanoe.org)

- publisher of scientific data in the field of marine sciences
- provides to each published dataset a DOI which can be cited in a publication in a reliable and sustainable way.
- not restricted to French data.

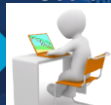
Data are published in free access, under the Creative Commons licenses, with the option of an embargo period of 2 years maximum to restrict access to data of a publication under review, for example.



Producers



Users



- Which data repositories ?
- Can I trust them ?
- What about citation ?
- Which feedback on data use ?

- How to find and access data ?
- Can I trust the data repositories ?
- Are the data interoperable and reusable, in which conditions ?

in respect with international standards

