

# Facilitating access to marine data and analytical services

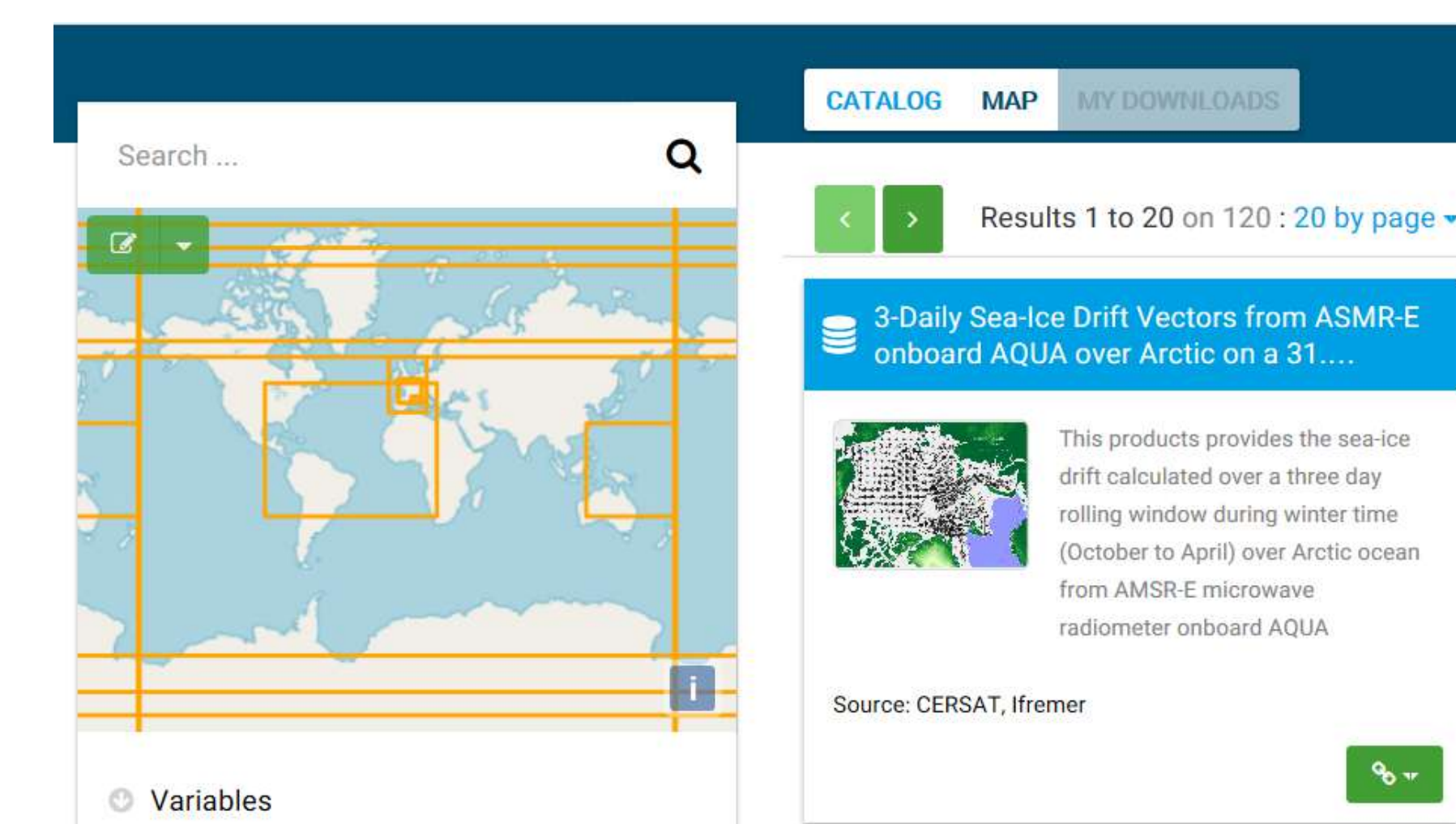
Streamlining data and service centres for easier access to data and analytical services: the strategy of ODATIS, the French portal to marine data  
<https://doi.org/10.3389/fmars.2020.548126>

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### ODATIS in brief

ODATIS (Ocean DATA Information and Services) is the marine pole of the French Research E-Infrastructure for Earth system and environment.

ODATIS catalogue includes the variables of all the marine disciplines  
 physics, chemistry, biogeochemistry  
 biology, sedimentology  
 whatever the technique used  
 satellites, in-situ observatories, field cruises, lab analyses.



The catalogue offers several tools to access the data :

- a search service with selection filters,
- a data description service (preview or full),
- a visualisation service,
- the possibility to download data directly or via the local partner portals.

ODATIS supports data producers in establishing a Data Management Plan (DMP), a key element in implementing good data management practices and for FAIR data.

ODATIS published your marine data via

**SEANO** SEA SCIENTIFIC OPEN DATA PUBLICATION [www.seanoe.org](http://www.seanoe.org)

- 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.

## A CRITICAL NEED TO BETTER UNDERSTAND THE IMPACT OF GLOBAL CHANGE

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

To fully utilise **this data flow** to understand the consequences of global change on the **ocean**, the preservation of marine observations is a major issue that requires relevant **data and services centres**.

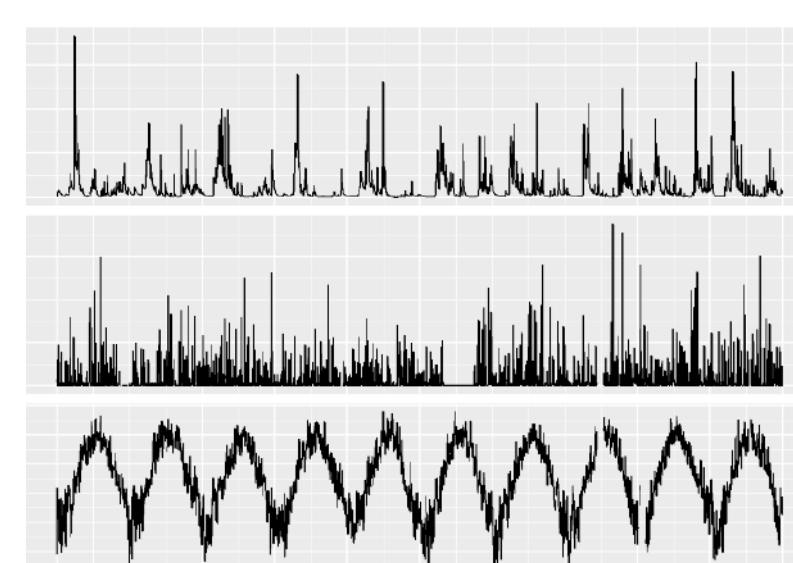
## ODATIS : THE FRENCH OCEAN DATA CENTRE

Launched in 2017, ODATIS roadmap is to :

- become a unique gateway to all French marine data, regardless of the discipline,
- facilitate **data sharing** according to FAIR principles for **producers and users**.

Future national or thematic repositories could draw on **the experience gained from ODATIS**.

### Data producers



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



### Data users



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

### Challenges in developing a marine portal for data producers and users:

1/ **Catalogue all open ocean and coastal data and facilitate data collection and access:** (discovery, visualisation, extraction) through its web portal. Repositories already exist around the world; some have a wealth of experience, but many do not fully comply with the FAIR data principles;

2/ **Development of data analysis and interpretation services:** a specific task is to develop tools for handling large amounts of data and to generate products for policy makers, practitioners and academics;

3/ **Informing and training the community:** such access to multi-source data is relatively new and most colleagues are not yet used to searching and manipulating such datasets, let alone remotely.

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### The supporting organisations :

