a publisher of scientific data in the field of marine sciences

#### **About SEANOE**

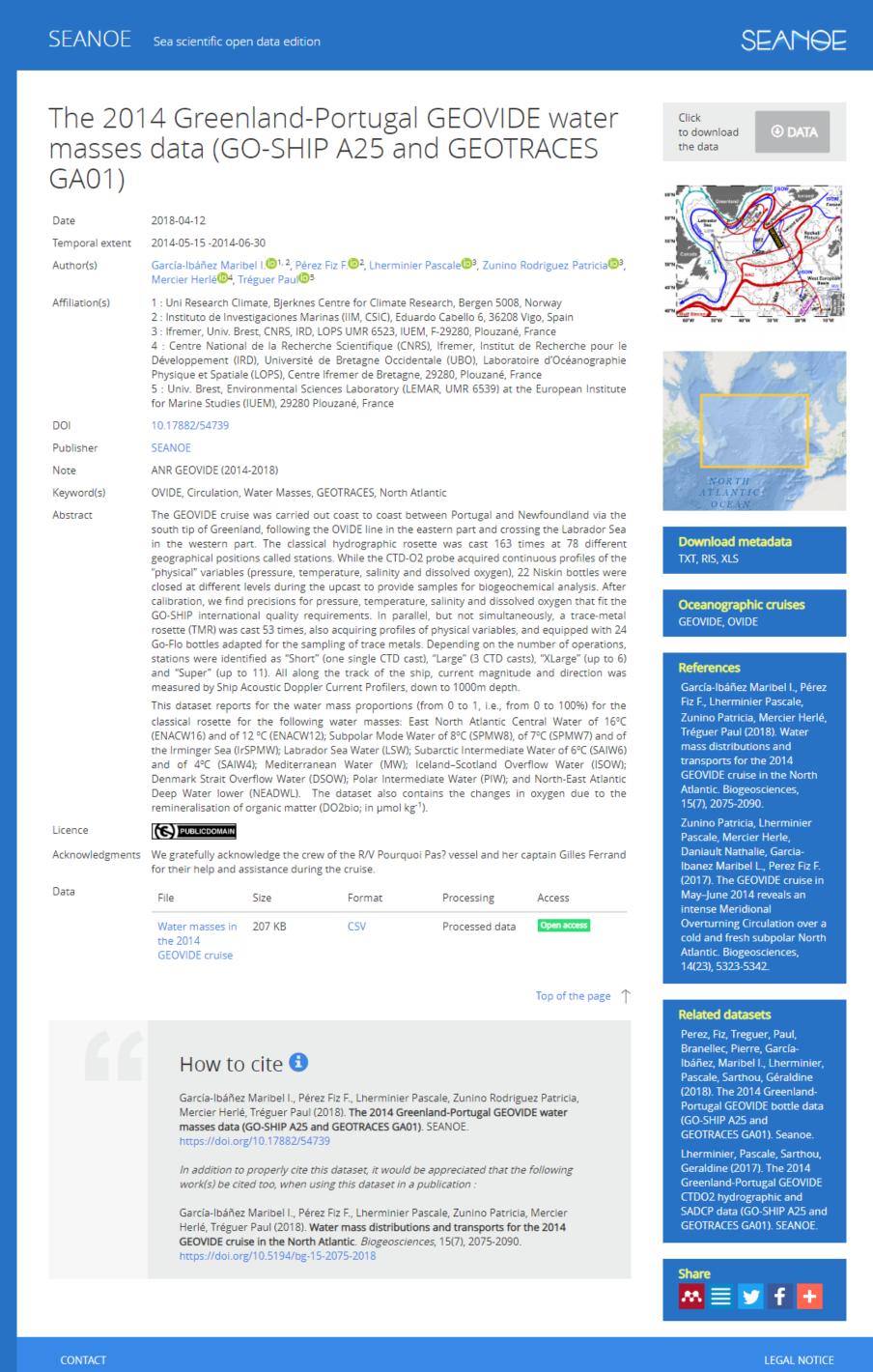
SEANOE (http://www.seanoe.org) is a publisher of scientific data in the field of marine sciences. It is operated by Sismer.

Data published by SEANOE are available for free. They can be used in accordance with the terms of the Creative Commons license selected by the author of the data. SEANOE contributes to Open Access / Open Science movement for a free access for everyone to all scientific data financed by public funds for the benefit of research.

An embargo limited to 2 years on a set of data is possible; for example to restrict access to data of a publication under scientific review.

Each data set published by SEANOE has a DOI which enables citation in a publication in a reliable and sustainable way.

### **SEANOE DOI Example**



# **SEANOE** highlights

SEANOE offers a solution for articles publisher that strongly recommend to cite datasets in articles. SEANOE is recommended by Elsevier, PLOS, ...

SEANOE offers a fast responding service: if a dataset is well described, it should get a DOI within 24 hours.

The Landing Pages are optimized for a better visibility on Google and Google Dataset Search.

A survey of dataset DOI citations in articles is performed with Google Scholar. Article references are displayed on the dataset Landing page and the couples Dataset DOI / Article DOI are provided to Datacite.

A system of fragment (#) allows to manage and cite a specific versions within a single global DOI:

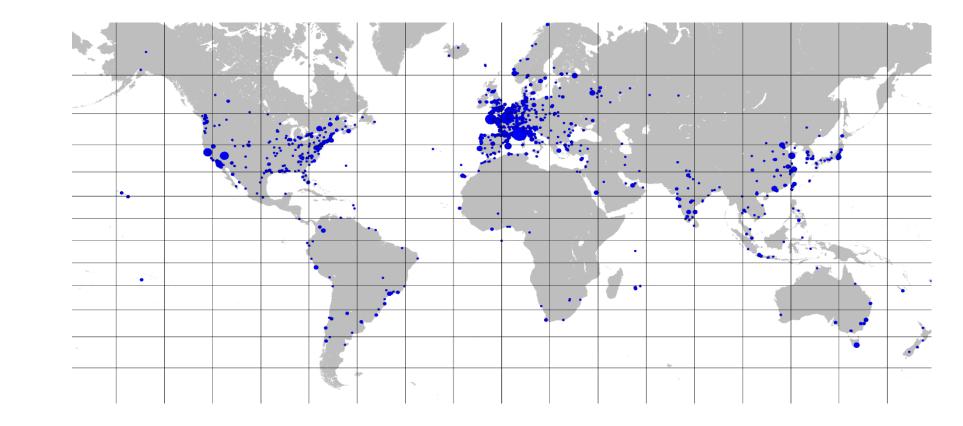
Argo (2018). Argo float data and metadata from Global Data Assembly Centre (Argo GDAC) - Snapshot of Argo GDAC of august 8st 2018. https://doi.org/10.17882/42182#58012

IMDIS 2018 – Barcelona 5-7 November 2018 Fred Merceur<sup>1</sup>, Michèle Fichaut<sup>1</sup> 1: Ifremer, France

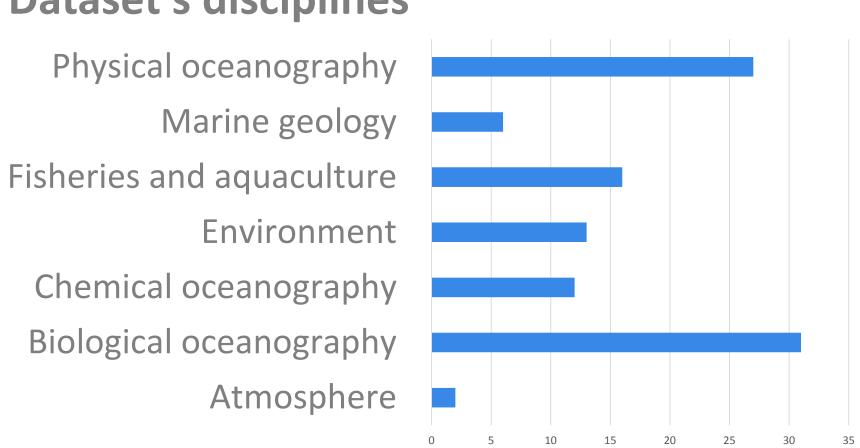
#### **Key points**

- 400 datasets have been published since the launch of SEANOE (2015).
- Many scientists are not used to publish and share the data associated to articles: when authors of scientific papers at Ifremer are suggested to publish their publications' datasets, the positive return is less than 1%.
- Since 2018, authors, by themselves, publish around one dataset per week.
- Most of these spontaneous publications are associated to the increasing number of publishers (e.g : PLOS ONE, Elsevier, ...) requiring that the data used in a publication is cited and freely accessible online.
- Most authors are happy with SEANOE. They highlight the simplicity and the speed of the publication process as well as the quality of Landing Pages.
- Searches in Google are at the origin of most of the dataset downloads.

# Dataset files downloads in 2017



# Dataset's disciplines

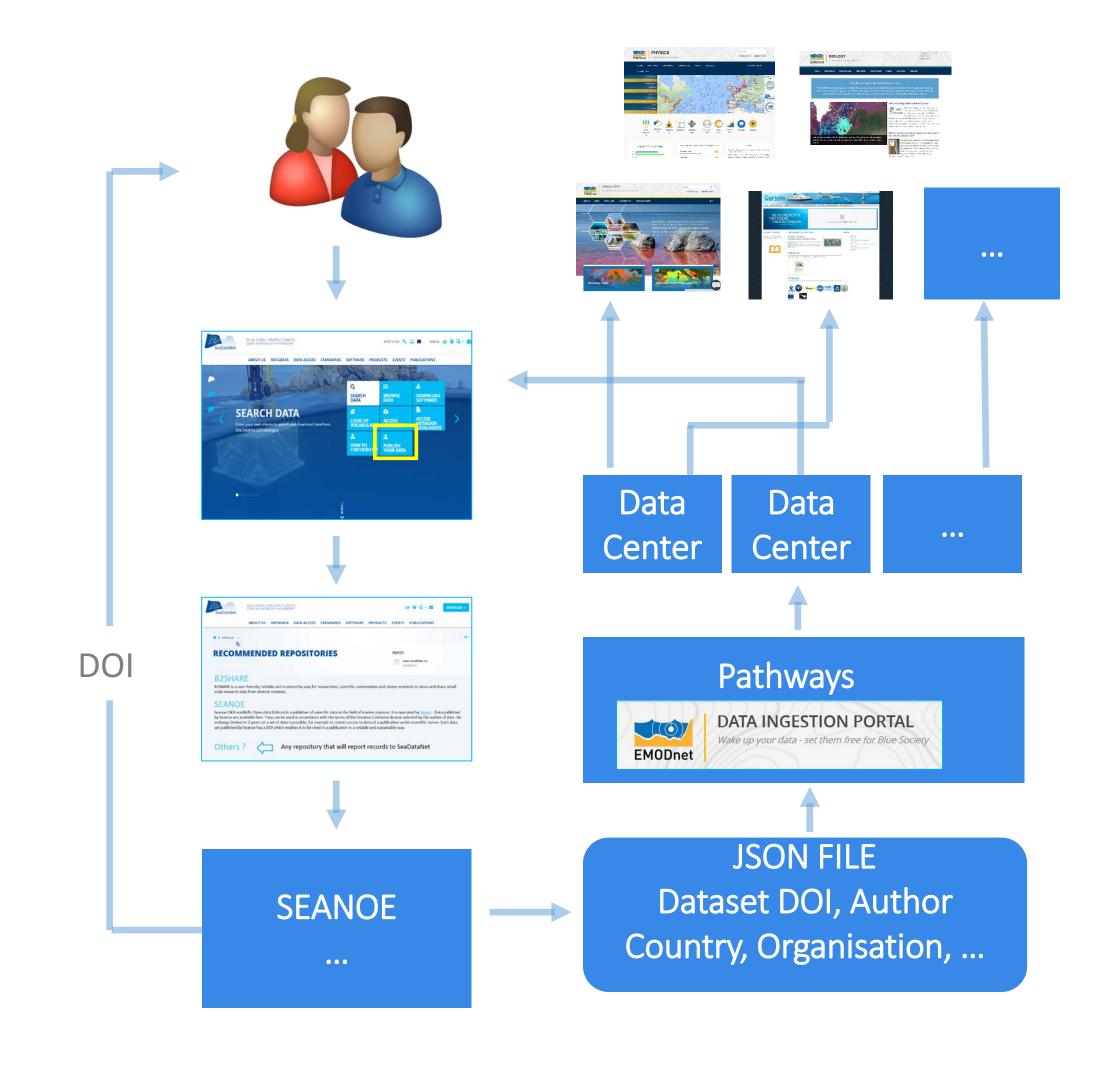


# Towards a linked information architecture



- 1,2 : SEANOE is optimized for Google and Google Dataset Search
- 3 : SEANOE datasets records are indexed by OpenAire and Eudat B2FIND through the OAI-PMH protocol
- 4, 5, 6, 7: bi-directional links with publishers such as Elsevier and Taylor & Francis via Dacite and Scholix.
- 8: bi-directional links with Authors Orcid through Datacite
- 9: bi-directional links with French Oceanographic cruises DOI (e.g: https://doi.org/10.17882/56665)
- 10: bi-directional links with IGSN (e.g: https://doi.org/10.17882/56031)
- 11, 12 : bi-directional links with Archimer and Ifremer's people finder

# **Duplication of SEANOE datasets in EMODnet Ingestion**



The automatic duplication of the data published in SEANOE to EMODnet data ingestion portal is under study. It would allow reporting to Marine European data centers the existence and the availability of datasets published in SEANOE. Then the data centers will be able to ingest them into other international databases such as SeaDataNet and EMODnet thematic ones, if the dataset falls into their domains of interest.

This project is facing to a license issue. Most of datasets published in SEANOE are available under the CC-BY creative commons license. This means that the authors ask to be cited when the dataset is used. This may not be compatible with systems such as SeaDataNet that do not handle metadata on authors, but only on originator organisations.