



DATA
TERRA



ODATIS

Atelier 4

Entrepôt / Catalogue / Vocabulaire

Clémence Cotten – Caroline Mercier

Assemblée Générale ODATIS
OASU, 12-13 décembre 2023



CNES
CENTRE NATIONAL
D'ÉTUDES SPATIALES

Ifremer



SHOM
L'océan
en référence



contact@odatis-ocean.fr | www.odatis-ocean.fr

Ice breaker

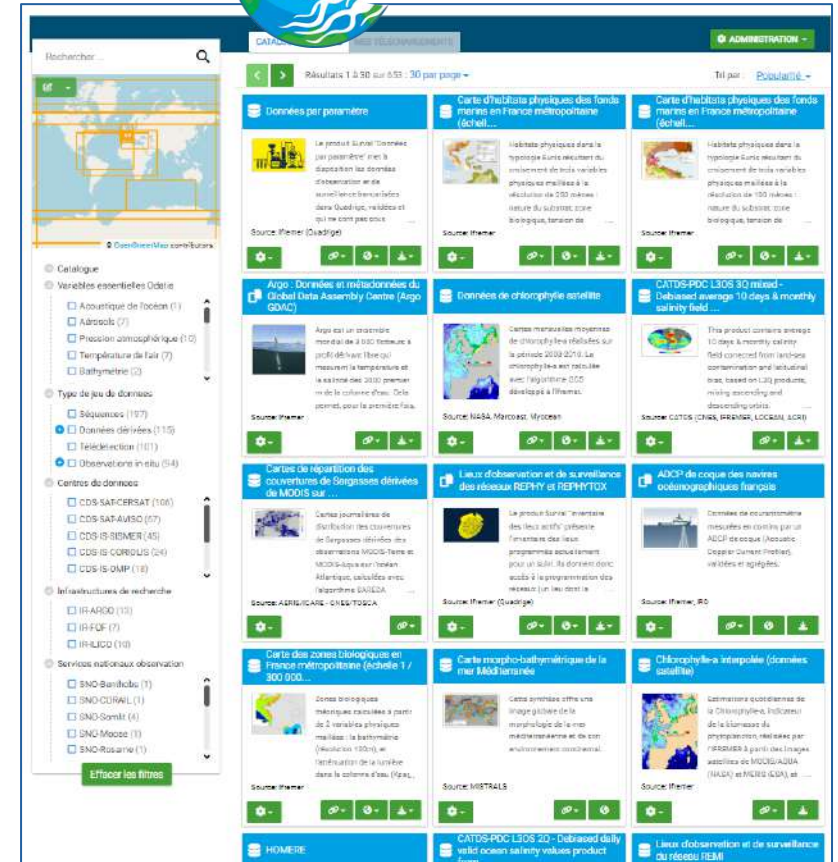


- Est-ce que vous participez à l'alimentation du catalogue ODATIS ?
- Est-ce que vous êtes utilisateur du catalogue ODATIS ?
- Est-ce que vous connaissez le catalogue ODATIS et ses fonctionnalités ?

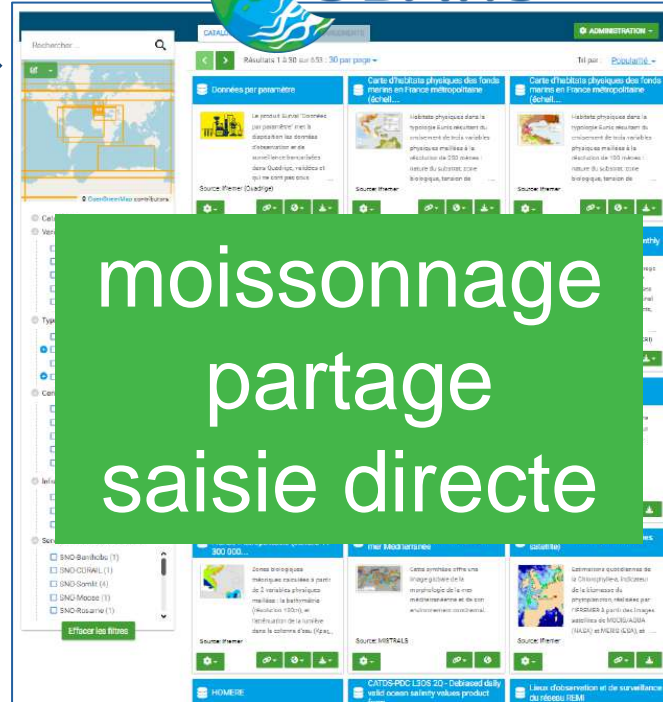


Le catalogue ODATIS

- Accéder en un point d'entrée unifié aux données d'observation de l'océan et aux produits dérivés des CDS et à d'autres données d'intérêt, provenant notamment d'IR et de SNO.
- **Standardisation des métadonnées** assurant l'interopérabilité avec d'autres catalogues, des autres pôles par exemple.



Périmètre du catalogue ODATIS



CDS

Centre de Données et Services ODATIS

IR d'observation



Services Nationaux d'Observation



Réseaux d'observations non labellisés

déc. 2023 : 550 fiches de métadonnées composent le catalogue ODATIS

Projets de recherche

- PPR RiOMar, FUTURE-OBS, LIFEDEEPER
- PEPR Grands Fonds Marins, BRIDGES
- EQUIPEX+ Deep Sea Innovation

Laboratoires de recherche

- (LOCEAN, LOPS,...)
OSU (Wimereux, MIO Pytheas...)

Communauté scientifique

SEANOE

Les nouveautés du catalogue ODATIS



- **Nouvelles données :**
 - Bioinformatique Ifremer (Sebimer)
 - OSU Pytheas



- **Nouvelles facettes de recherche :**
 - Infrastructures de recherche
 - Services nationaux d'observation



Les nouveautés du catalogue ODATIS

- Evolution du vocabulaire « Variables Odatis » vers le vocabulaire **OD1** « ODATIS aggregation parameters and Essential Variable names »

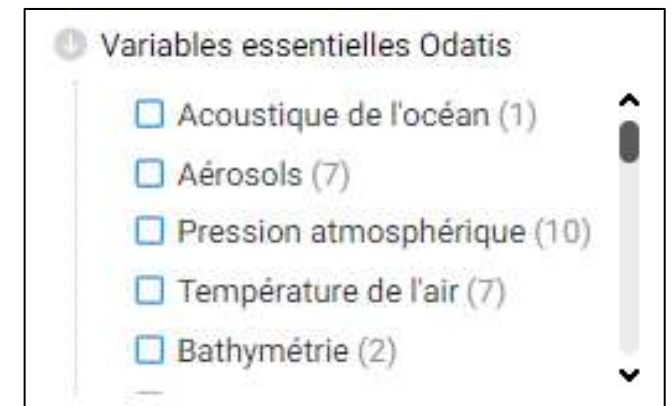


NERC
Environmental
Data Service



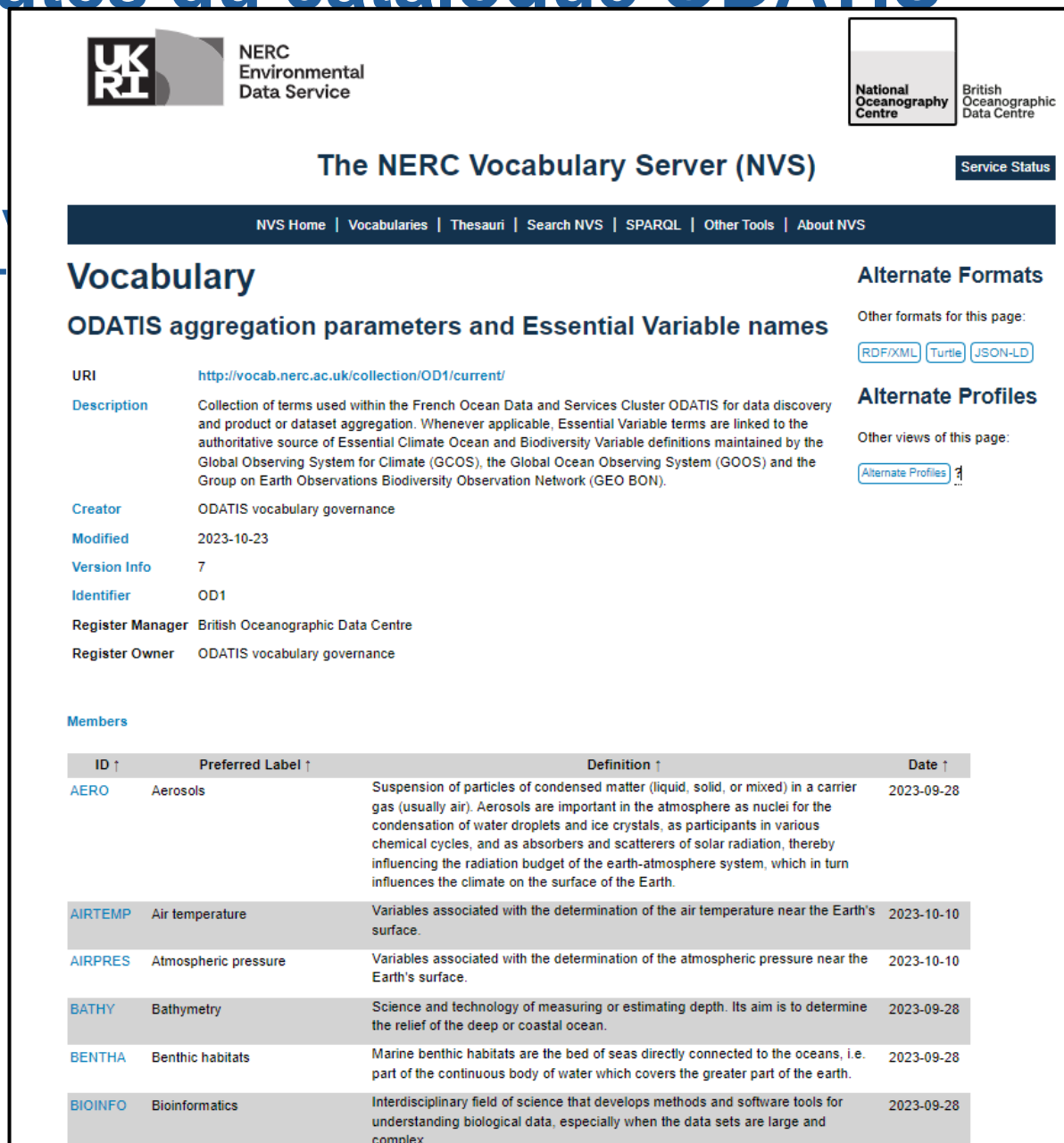
**British Oceanographic
Data Centre**

NATURAL ENVIRONMENT RESEARCH COUNCIL



Les nouveautés du catalogue ODATIS

- Evolution du vocabulaire OD1 « ODATIS Essential Variable names »



The screenshot displays the NERC Vocabulary Server (NVS) interface. At the top, it features the UKRI NERC Environmental Data Service logo and the National Oceanography Centre British Oceanographic Data Centre logo. The main title is "The NERC Vocabulary Server (NVS)" with a "Service Status" button. A navigation bar includes links for "NVS Home", "Vocabularies", "Thesauri", "Search NVS", "SPARQL", "Other Tools", and "About NVS".

Vocabulary

ODATIS aggregation parameters and Essential Variable names

URI: <http://vocab.nerc.ac.uk/collection/OD1/current/>

Description: Collection of terms used within the French Ocean Data and Services Cluster ODATIS for data discovery and product or dataset aggregation. Whenever applicable, Essential Variable terms are linked to the authoritative source of Essential Climate Ocean and Biodiversity Variable definitions maintained by the Global Observing System for Climate (GCOS), the Global Ocean Observing System (GOOS) and the Group on Earth Observations Biodiversity Observation Network (GEO BON).

Creator: ODATIS vocabulary governance

Modified: 2023-10-23

Version Info: 7

Identifier: OD1

Register Manager: British Oceanographic Data Centre

Register Owner: ODATIS vocabulary governance

Alternate Formats

Other formats for this page:

[RDF/XML](#) [Turtle](#) [JSON-LD](#)

Alternate Profiles

Other views of this page:

[Alternate Profiles](#)

Members

ID ↑	Preferred Label ↑	Definition ↑	Date ↑
AERO	Aerosols	Suspension of particles of condensed matter (liquid, solid, or mixed) in a carrier gas (usually air). Aerosols are important in the atmosphere as nuclei for the condensation of water droplets and ice crystals, as participants in various chemical cycles, and as absorbers and scatterers of solar radiation, thereby influencing the radiation budget of the earth-atmosphere system, which in turn influences the climate on the surface of the Earth.	2023-09-28
AIRTEMP	Air temperature	Variables associated with the determination of the air temperature near the Earth's surface.	2023-10-10
AIRPRES	Atmospheric pressure	Variables associated with the determination of the atmospheric pressure near the Earth's surface.	2023-10-10
BATHY	Bathymetry	Science and technology of measuring or estimating depth. Its aim is to determine the relief of the deep or coastal ocean.	2023-09-28
BENTHA	Benthic habitats	Marine benthic habitats are the bed of seas directly connected to the oceans, i.e. part of the continuous body of water which covers the greater part of the earth.	2023-09-28
BIOINFO	Bioinformatics	Interdisciplinary field of science that develops methods and software tools for understanding biological data, especially when the data sets are large and complex.	2023-09-28

Le vocabulaire
Essential Variable

Les nouveautés du catalogue ODATIS

- Evolution OD1 « Essential Variable names »

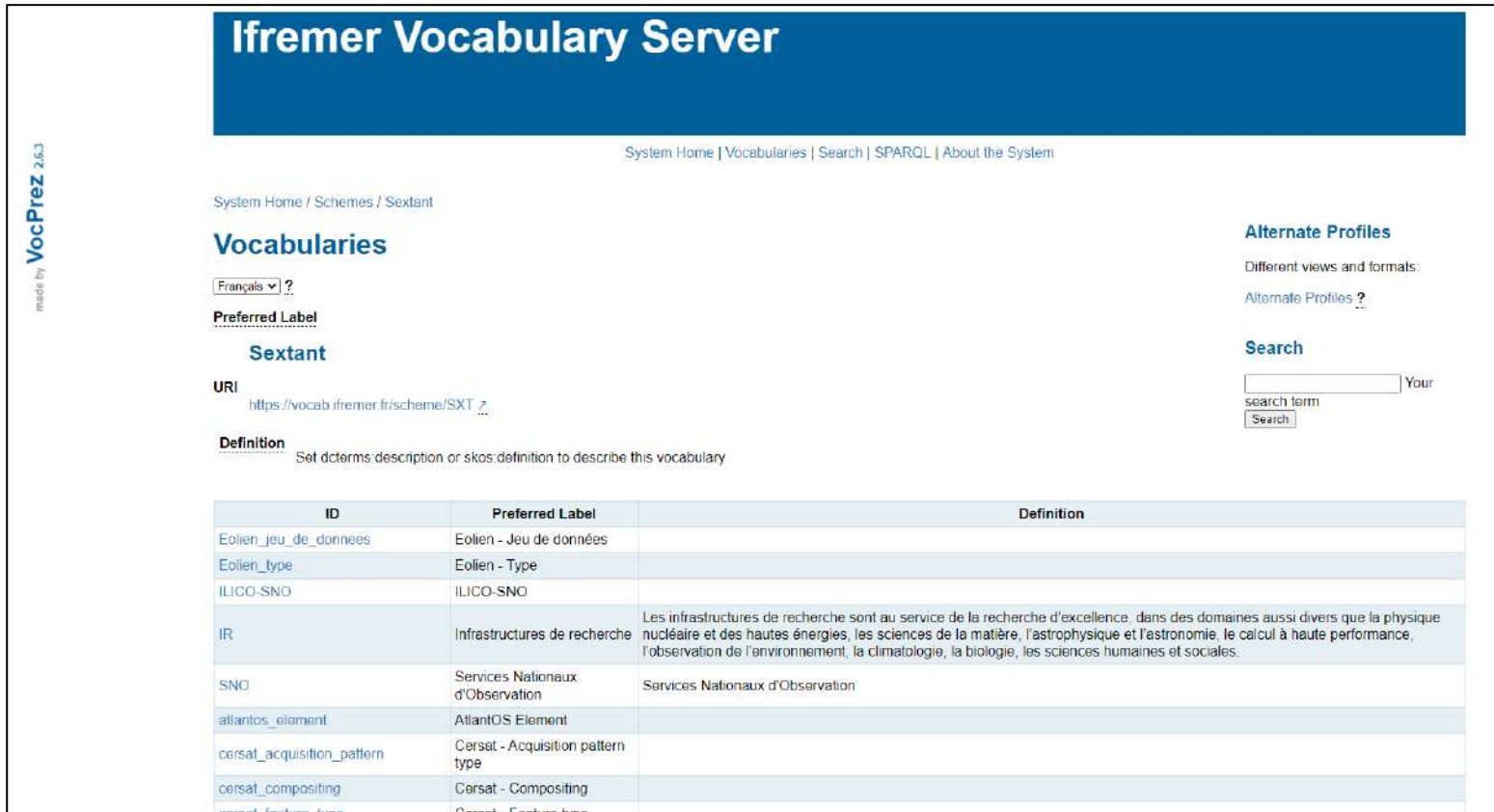
The screenshot displays the NERC Vocabulary Server (NVS) interface. At the top left is the UKRI NERC Environmental Data Service logo. At the top right are the National Oceanography Centre and British Oceanographic Data Centre logos. The main title is 'The NERC Vocabulary Server (NVS)' with a 'Service Status' button. A navigation bar contains links: NVS Home | Vocabularies | Thesauri | Search NVS | SPARQL | Other Tools | About NVS. The main content area is titled 'Concept' and 'Air temperature'. It lists metadata: URI (http://vocab.nerc.ac.uk/collection/OD1/current/AIRTEMP/), Within Vocab (ODATIS aggregation parameters and Essential Variable names), Alternative Labels, Definition (Variables associated with the determination of the air temperature near the Earth's surface), Date (2023-10-10T14:51:12), Identifier (SDN:OD1::AIRTEMP), Note (accepted), and Has Current Version (1). The 'Same As' section lists three related concepts: A05:EV_AIRTEMP (Air temperature, Mapping: 1759976), P02:CDTA (Air temperature, Mapping: 1759945), and GCOS WMO ECVs (https://gcos.wmo.int/en/essential-climate-variables/surface-temperature, Mapping: 435368). On the right, 'Alternate Formats' (RDF/XML, Turtle, JSON-LD) and 'Alternate Profiles' (Alternate Profiles, NVS html view) are available.

Property	Value
URI	http://vocab.nerc.ac.uk/collection/OD1/current/AIRTEMP/
Within Vocab	ODATIS aggregation parameters and Essential Variable names
Alternative Labels	
Definition	Variables associated with the determination of the air temperature near the Earth's surface.
Date	2023-10-10T14:51:12
Identifier	SDN:OD1::AIRTEMP
Note	accepted
Has Current Version	1
version	1
Same As	
A05:EV_AIRTEMP	Air temperature (Mapping: 1759976)
P02:CDTA	Air temperature (Mapping: 1759945)
GCOS WMO ECVs	https://gcos.wmo.int/en/essential-climate-variables/surface-temperature (Mapping: 435368)

oulaire
able

Où retrouver les vocabulaires ODATIS ?

- Ifremer Vocabulary Server (<https://vocab.ifremer.fr>)



The screenshot displays the 'Ifremer Vocabulary Server' interface. At the top, there is a navigation bar with links for 'System Home', 'Vocabularies', 'Search', 'SPARQL', and 'About the System'. The main content area is titled 'Vocabularies' and shows a dropdown menu for 'Français'. Below this, the 'Sextant' vocabulary is highlighted. The 'URI' is listed as 'https://vocab.ifremer.fr/scheme/SXT_?'. The 'Definition' section explains that it sets 'dcterms: description' or 'skos: definition' to describe the vocabulary. On the right side, there are sections for 'Alternate Profiles' and a search box with a 'Search' button. A table at the bottom lists various vocabularies with their IDs, preferred labels, and definitions.

ID	Preferred Label	Definition
Eolien_jeu_de_donnees	Eolien - Jeu de données	
Eolien_type	Eolien - Type	
ILICO-SNO	ILICO-SNO	
IR	Infrastructures de recherche	Les infrastructures de recherche sont au service de la recherche d'excellence, dans des domaines aussi divers que la physique nucléaire et des hautes énergies, les sciences de la matière, l'astrophysique et l'astronomie, le calcul à haute performance, l'observation de l'environnement, la climatologie, la biologie, les sciences humaines et sociales.
SNO	Services Nationaux d'Observation	Services Nationaux d'Observation
atlantos_element	AtlantOS Element	
cersat_acquisition_pattern	Cersat - Acquisition pattern type	
cersat_compositing	Cersat - Compositing	
cersat_feature_type	Cersat - Feature type	

Où retrouver les vocabulaires ODATIS?

- Earth portal (<https://earthportal.eu>)

The screenshot displays the EarthPortal interface. At the top, the navigation bar includes the EarthPortal logo, links for Browse, Search, Mappings, Recommender, Annotator, and Projects, and buttons for Login and Support. The main content area is titled 'Browse' and shows a search for 'odatis' with 3 of 25 results displayed, sorted by Search Rank. The results list includes:

- Centre de données ODATIS (SXT_CDO)**: 12 concepts, 299 FAIR score. Description: Cette ontologie décrit les Centres de données et de services rattachés au Pôle Odatis. Uploaded: 10/11/23.
- Type de jeux de données ODATIS (SXT_TJD)**: 12 concepts, 206 FAIR score. Description: Types de jeux de données ODATIS. Uploaded: 12/5/23.
- ODATIS aggregation parameters and Essential Variable names (NVS_OD1)**: 296 FAIR score. Description: Collection of terms used within the French Ocean Data and Services Cluster ODATIS for data discovery and product or dataset aggregation. Uploaded: 10/31/23.

On the left side, there are filters for Entry Type (Ontology (3), Ontology View (0)), Uploaded in the Last, Category (Atmosphere (0), Continental Surface (0), Ocean (3), Solid Earth (0)), and Group (AERIS (0), BRDC (0), BRGM (0), DTTR (0), ODATIS (3)).

Evolutions à venir

- Intégration des fiches provenant de **Seanoe**
 - 1^{er} import « test » sur les données EMSO début 2024
 - Import complet : T2 2024
 - Imports mensuels en routine

SEANOE

Evolutions à venir

- Intégration des fiches provenant de Seanoe
 - 1^{er} import « test » sur les données FMSSO début 2024

- Im
- Im

DeepIsotop - a global open database of stable isotope ratios and elemental contents for deep-sea ecosystems

The use of stable isotopes as ecological tracers in deep-sea ecosystems has a long history, dating back to the late 1970's. Stable isotopes have been instrumental to many key-findings about ecosystem functioning, particularly in chemosynthesis-based habitats (hydrothermal vents, cold seeps). However, constraining sampling logistics commonly limit the scope, extent, and therefore insights drawn from isotope-based deep-sea studies. Overall, much is left to discover about factors globally influencing food web structure in deep-sea ecosystems. In this context, deep-sea ecologists have to ensure that no sample is left unexploited, and that all generated data are easily discoverable, available and reusable.

DeepIsotop is a collaborative effort to produce a global compilation of stable isotope ratios and elemental contents in organisms from deep-sea ecosystems. In doing so, it aims to provide the deep-sea community with an open data platform.

Date(s) 17-08-2021 (Publication)
24-03-2023 (Revision)
1985 → 2018 (Temporal coverage)

Author(s) MICHEL Loïc N. (Ifremer, REM/EEP, F-29280 Plouzané, France)
BELL James B. (Centre for Environment, Fisheries and Aquaculture Science, Lowestoft, United Kingdom)
DUBOIS Stanislas F. (Ifremer, ODE/DVNECO, F-29280 Plouzané, France)
LE PANS Mathilde (Ifremer, REM/EEP, F-29280 Plouzané, France)
LEPOINT Gilles (Laboratory of Oceanology, Freshwater and Oceanic Sciences Unit of reSearch (FOCUS), University of Liège, Liège, Belgium)
OLU Karine (Ifremer, REM/EEP, F-29280 Plouzané, France)
REID William D. K. (Modelling, Evidence and Policy, School of Natural and Environmental Sciences, Newcastle University, Newcastle, United Kingdom)
SARRAZIN Jozee (Ifremer, REM/EEP, F-29280 Plouzané, France)
SCHAAL Gauthier (Université de Bretagne Occidentale, CNRS, IRD, Ifremer, LEMAR, Plouzané, France)
HAYDEN Brian (Biology Department, Canadian Rivers Institute, University of New Brunswick, Fredericton, New Brunswick, Canada)

Contact(s) CARLIER Antoine
Demopoulos Amanda W. J.
MARTICORENA Julien
McClain-Courits Jennifer P.
METHOU Pierre
Parzanini Camilla
PRIADILLON Florence
PUCCINELLI Eleonora
Reisenberg Philip M.
VAN AUDENHAEGE Loïc

Record from SEANOE

Data access

- Entrepôt thématique national « données marines »
- Permet d'obtenir rapidement un **DOI** sur un jeu de données de moins de 100 gigas

<https://www.seanoe.org/>

The screenshot displays the SEANOE website interface. At the top, there is a search bar with the text "Search everywhere" and a "Search" button. To the right, there are "Bookmarks" and a button that says "Publish your marine data". Below the search bar, there are filter options for "PUBLICATION YEAR", "DISCIPLINE", "ACCESSIBILITY", and "LICENSE". The main content area shows search results for "1320 result(s)". The first result is titled "Continuous underway measurements of atmospheric and dissolved CO2, SES_UNLUATA_GR1 cruise, Spring 2008" by Kraakopoulou Evangelita and Rapsomanikis Spyridon. The second result is titled "Data for learning-based prediction of the particles catchment area of deep ocean sediment traps" by Picard Théo, Gula Jonathan, Fabiet Ronan, Memery Laurent, Collin Jeremy. The third result is titled "PAGURE example dataset from data acquisition to the computation of Essential".

Discussions



- Avis sur le **fonctionnement actuel**
- Quels **besoins** pour des évolutions futures en terme de :
 - **Fonctionnalités ?**
 - **Données ?**
- Idée d'un **catalogue de service / outils**, quels besoins? Format plutôt interopérable ou web?