

Product catalogue in Sextant

T. Loubrieu, M. Treguer, Corentin Guyot - IFREMER

Outline

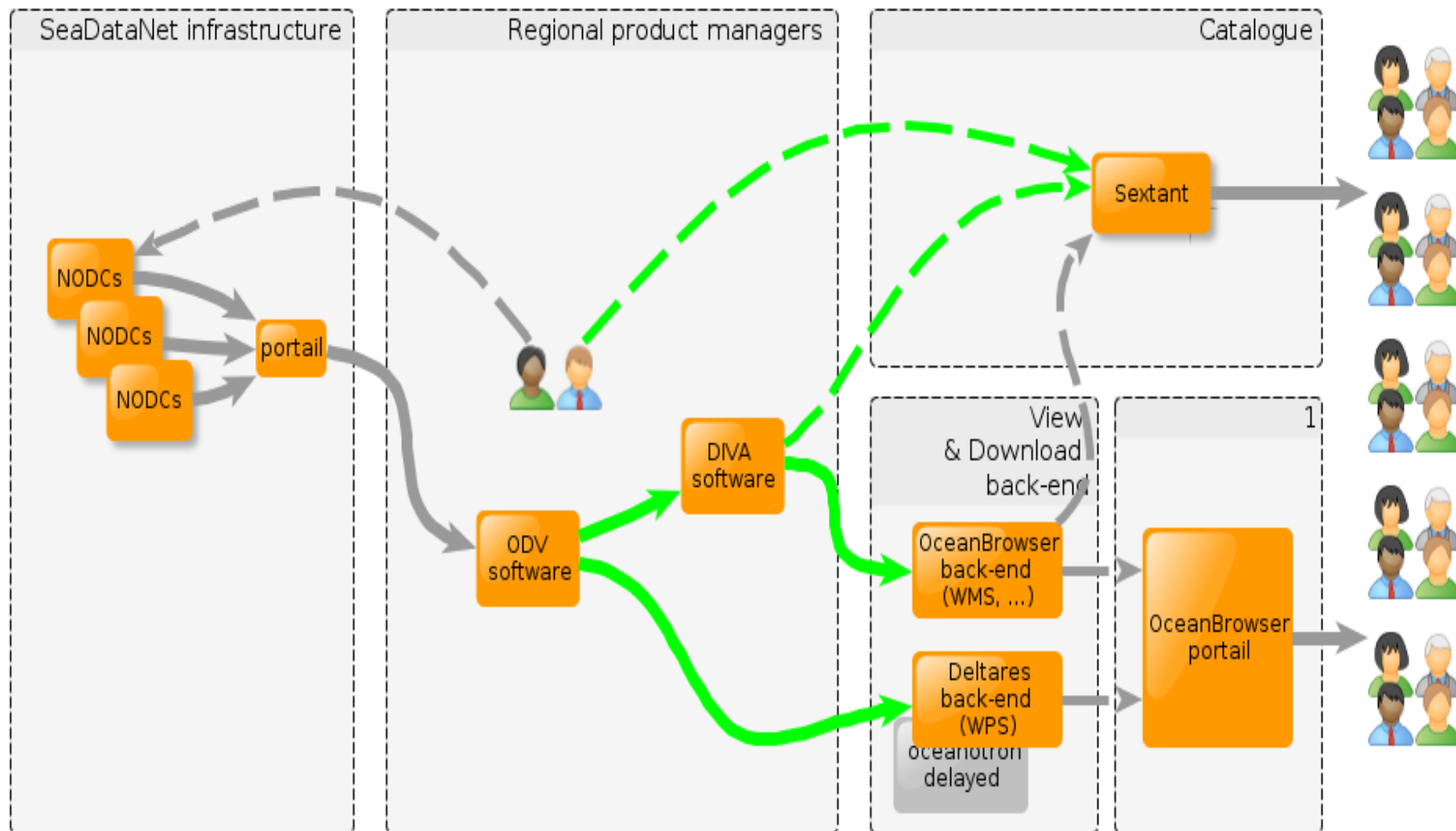
- Sextant background
- SeaDataNet product catalogue
- Plans, Perspectives

What is Sextant ?

- The product catalogue service and system for **MyOcean**, **EMODNET** and **SeaDataNet** and others
- Team of **3 full-time persons for operations** at IFREMER, support from CLS funded by SeaDataNet
- **1.5 persons on development**
- Expertise on data/metadata management and dissemination (e.g. **INSPIRE**)
- System based on open-source software: **geonetwork** + frontal web GIS functions (e.g. openlayers)

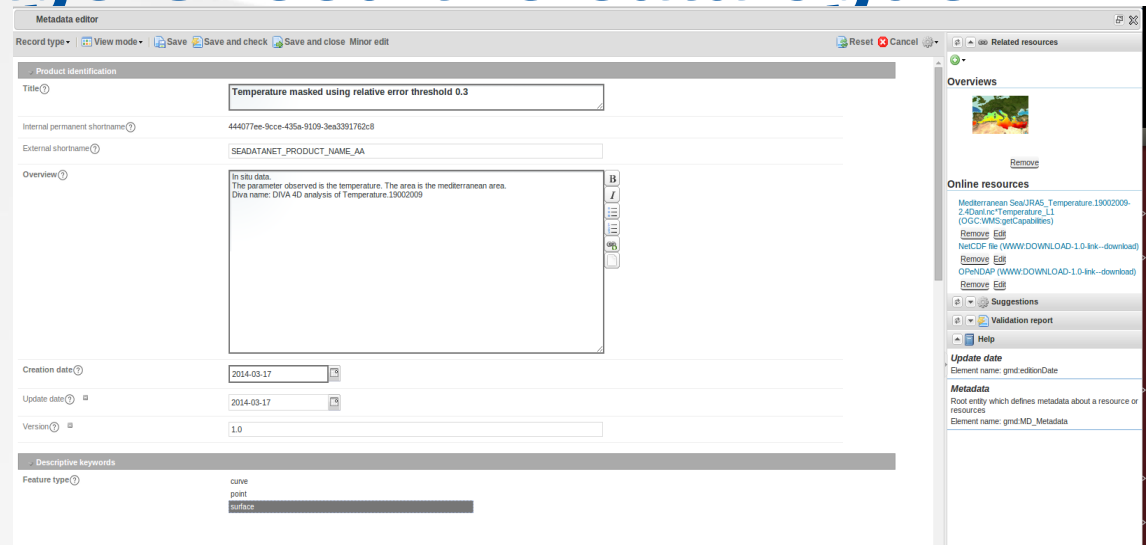
What Sextant provides for SeaDataNet

- User friendly **edition forms** for **product managers**
- Utilities:
 - To mint **DOIs** at DataCite
 - To manage a **validation workflow** for product description
- **Web discovery function** for users:
 - **Search** products
 - View **description**
 - **Jump to view and download** services



Product managers feed the catalogue

- With forms (V1 template):

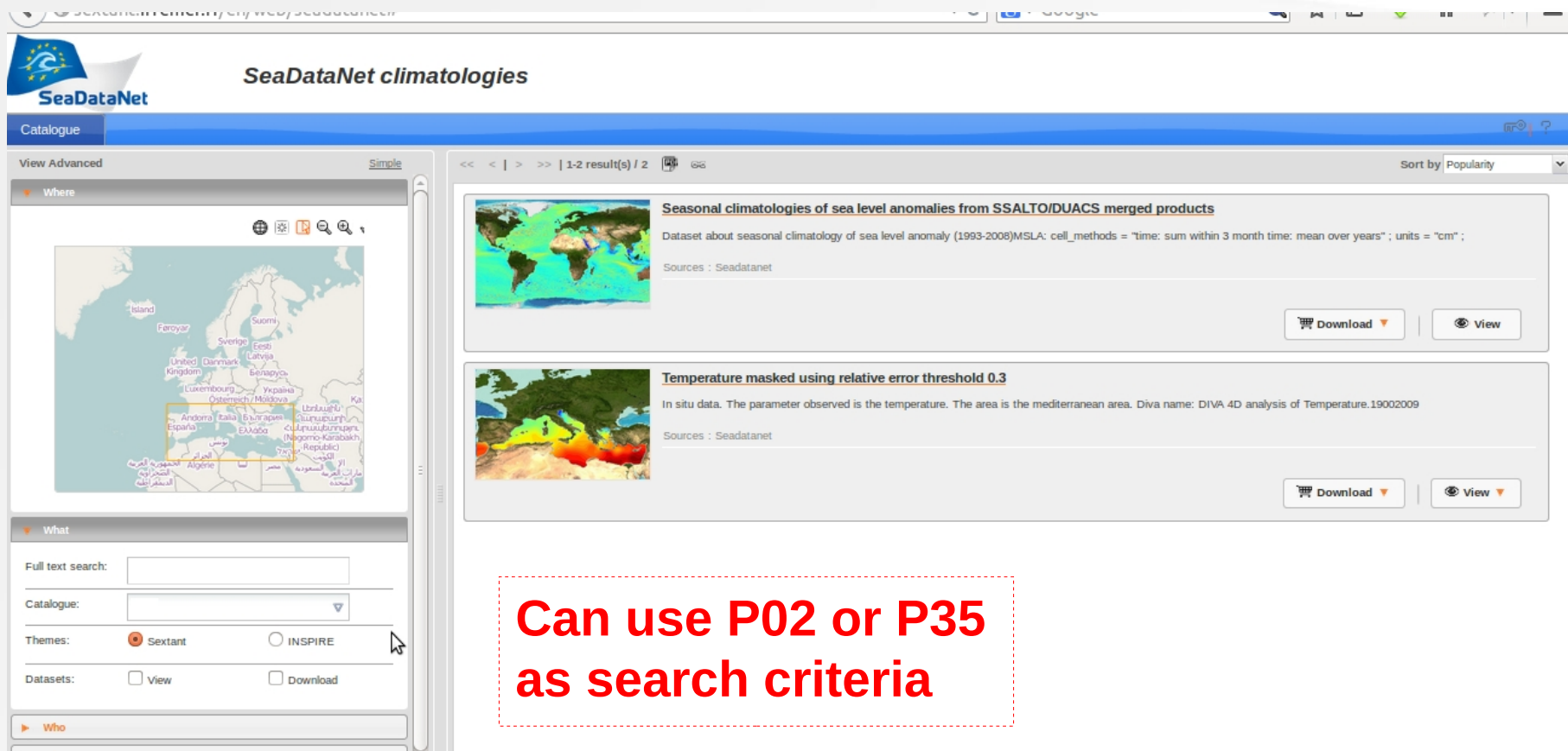


The screenshot shows a web-based 'Metadata editor' interface. It includes a top navigation bar with options like 'Record type', 'View mode', 'Save', 'Save and check', 'Save and close', and 'Minor edit'. The main form is divided into sections: 'Product identification' with fields for Title, Internal permanent shortname, External shortname, and Overview; 'Creation date', 'Update date', and 'Version' fields; and 'Descriptive keywords' with a 'Feature type' dropdown. A right sidebar contains 'Overviews', 'Online resources', 'Suggestions', 'Validation report', and 'Help' sections.

- From **DIVA**: DivaDoXML automatically generates XML product description (currently V0 template)
- See quickstart manual:
https://www.ifremer.fr/sextant_doc/emodnet_chemistry/document/EMODNET-CHEMISTRY-QUICKSTART

SeaDataNet users *discover products*

<http://sextant.ifremer.fr/en/web/seadatanet>



The screenshot shows the SeaDataNet web interface. The header includes the SeaDataNet logo and the text "SeaDataNet climatologies". Below the header is a navigation bar with "Catalogue" and "View Advanced" options. The main content area displays search results for "Seasonal climatologies of sea level anomalies from SSALTO/DUACS merged products". The results list includes a thumbnail of a world map, the title, a description of the dataset, the source (Seadatanet), and buttons for "Download" and "View". A second result for "Temperature masked using relative error threshold 0.3" is also visible. On the left side, there is a sidebar with a map of Europe and search filters for "Where", "What", and "Who".

Seasonal climatologies of sea level anomalies from SSALTO/DUACS merged products
Dataset about seasonal climatology of sea level anomaly (1993-2008)MSLA: cell_methods = "time: sum within 3 month time: mean over years"; units = "cm";
Sources : Seadatanet
Download View

Temperature masked using relative error threshold 0.3
In situ data. The parameter observed is the temperature. The area is the mediterranean area. Diva name: DIVA 4D analysis of Temperature.19002009
Sources : Seadatanet
Download View

Can use P02 or P35 as search criteria

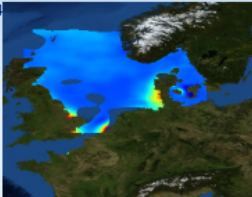
View description (process/QC details, provenance, ...)

North_Sea_Seasonal_Nitrate_Nitrogen

IDENTIFICATION

Dataset name	North_Sea_Seasonal_Nitrate_Nitrogen
Short name of dataset (SDN Local Product-ID)	North Sea Seasonal Nitrate Nitrogen

66.9167
-4
48



12.9719

ABSTRACT

Short description	Seasonal DIVA 4D analysis of Nitrate Nitrogen [NO3-N, umol/l] masked using relative error threshold 0.3 and 0.5, between 1970 and 2009. Institution : NERI DK (National Environmental Research Institute, Denmark) Production : MAR JRA7 group - feb 2010 Source : International Council for the Exploration of the Sea (ICES) Comment : detrending on month and years is suitable, advections could also be added Depth range : 250, 200, 150, 125, 100, 75, 50, 40, 30, 20, 10, 5, 0 Spatial resolution : Lat= 1/12 degree, Lon= 1/24 degree Time unit : Months since 1970-01-01 (time within month time: mean over years) Time = 01/04/..., 01/07/..., 01/10/..., 01/01/...
-------------------	---

WHAT?

Parameters in dataset (SDN Discovery par. P021 list)	SDN:P021:68:NTRA = Nitrate concentration parameters in the water column
Area type	SDN:L021:1:006 = Surface
Position of value in the cell	center
Maximum scale of use	1 : 1000000

Dimensions

Number of lines	228
Number of columns	408

DETAILED DESCRIPTION

Description of processed data sources

Jump to view and download (at ULG)



Black Sea Seasonal Nitrate

Seasonal analyses of Nitrate concentration in Black Sea between 1920 and 2011 Nitrate masked using relative error threshold 0.3 and 0.5. Units: $\mu\text{mol/l}$ Producer = MHI (Marine Hydrophysical Institute, National Academy of Sciences of Ukraine) Time units : season Depth range : -150.0, -100.0, -75.0, -50.0, -30.0, -20.0, -10.0, -0.0

 Download ▼

 View



TS Phosphate water body

European times series of concentration of phosphate (PO_4) per unit volume of the water body with

Jump to view and download (at ULG)



Black Sea Seasonal Nitrate

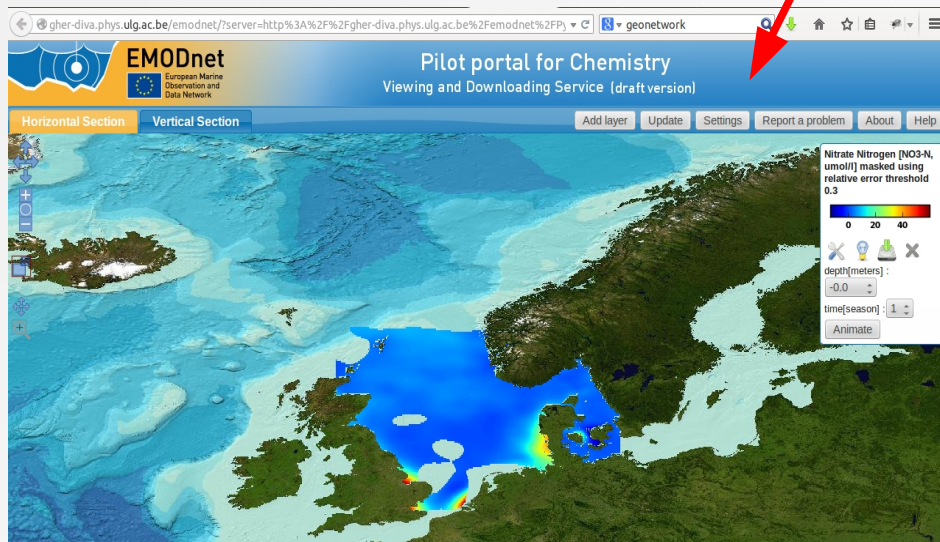
Seasonal analyses of Nitrate concentration in Black Sea between 1920 and 2011 Nitrate masked using relative error threshold 0.3 and 0.5. Units: $\mu\text{mol/l}$ Producer = MHI (Marine Hydrophysical Institute, National Academy of Sciences of Ukraine) Time units : season Depth range : -150.0, -100.0, -75.0, -50.0, -30.0, -20.0, -10.0, -0.0

 Download
  View

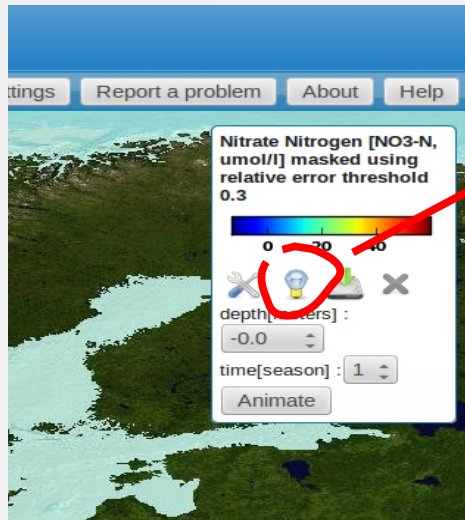


TS Phosphate water body

European times series of concentration of phosphate (PO_4) per unit volume of the water body with



And back to catalogue (at IFREMER)



Info Layer	
Data	
Title	Nitrate Nitrogen [NO ₃ -N, umol/l] masked using relative error threshold 0.3
Producer	NERI DK
Metadata	Catalogue entry
Identifier (seadatanet)	SDN:PRODUCT:269North Sea Seasonal Nitrate Nitrogen
Abstract	Units: umol/l
Bounding box	
Northern limit	66.9167
Southern limit	48
Western limit	-4
Eastern limit	12.9719
Time	
Time units	season
Time range	1, 2, 3, 4

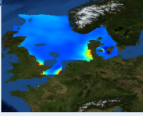
North_Sea_Seasonal_Nitrate_Nitrogen

IDENTIFICATION

Dataset name
Short name of dataset (SDN Local Product-ID)

North_Sea_Seasonal_Nitrate_Nitrogen
North Sea Seasonal Nitrate Nitrogen

66.9167 12.9719



ABSTRACT

Short description

Seasonal DIVA 4D analysis of Nitrate Nitrogen [NO₃-N, umol/l] masked using relative error threshold 0.3 and 0.5, between 1970 and 2009. Institution : NERI DK (National Environmental Research Institute, Denmark) Production : MAR JRA7 group - feb 2010 Source : International Council for the Exploration of the Sea (ICES) Comment : detrending on month and years is suitable, advections could also be added Depth range : 250, 200, 150, 125, 100, 75, 50, 40, 30, 20, 10, 5, 0 Spatial resolution : Lat= 1/12 degree, Lon= 1/24 degree Time unit : Months since 1970-01-01 (time within month time: mean over years) Time = 01/04/..., 01/07/..., 01/10/..., 01/01/...

WHAT?

Parameters in dataset (SDN Discovery par. P021 list)

Area type
Position of value in the cell
Maximum scale of use

SDN:P021:68:NTRA = Nitrate concentration parameters in the water column
SDN:L021:1:006 = Surface center
1 : 1000000

Dimensions

Number of lines
Number of columns

228
408

DETAILED DESCRIPTION

Description of processed data sources

Plans, perspectives

- Regional observation collections expected end of Septembre: **describe them in catalogue**
- Analysis and climatology products are going to be processed: **describe them in catalogue**
- IFREMER will provide support to managers of products so that they **describe them in catalogue** and user knows about them