



GeoNetwork Workshop

FOSS4G 2022 - Firenze, IT



GeoNework workshop - FOSS4G 2022 - Firenze, IT

- <https://talks.osgeo.org/foss4g-2022-workshops/talk/QGEHMJ/>
- In this workshop,
 - We are using **GeoNetwork version 4.2.0 and coming 4.2.1**
 - We can use online demo catalogues (or install it)
 - A GeoCat.BV Live instance
 - <https://apps.titellus.net/geonetwork> (login admin/admin)
- Date: 2022-08-22
- Time: 4 hours
- Who is presenting?

Workshop agenda

- Quick overview
- “Tour de table”, any particular expectations?
- 3 main topics

INSPIRE



Harvesting



- Going further

Thematic portals



Biodiversity

Biodiversity-related datasets



Climate-ADAPT

Climate Change Adaptation related datasets



Copernicus

Land

Geostatistical and Monitoring Service

Products and Local products



EARL

Environmental Assessment Reference Layers



External

Datasets

datasets not

available via EEA



FISE

Forest

Information

System for

Europe

FISE modules

catalogue (FISE)



GEOSS

ECA datasets

expander through

the GEOSS using



Geospatial

reference

Datasets for

geospatial reference

Workshop agenda

- Quick overview
- “Tour de table”, any particular expectations?
- 3 main topics **with 3 user story**

INSPIRE



Harvesting



Thematic portals



Workshop presentation

<https://tinyurl.com/nhe4swxd>

Installation from ZIP, WAR, docker, source

Java 8

Download GeoNetwork

Download Elasticsearch

(optional) Download Kibana

Start GeoNetwork

Start Elasticsearch

(optional) Start Kibana

The docker way

```
git clone https://github.com/geonetwork/docker-geonetwork.git
cd docker-geonetwork/4.2.0
docker-compose up
```

```
GN_VERSION=4.2.0
ES_VERSION=7.17.5

mkdir gn
cd gn
wget https://sourceforge.net/projects/geonetwork/files/GeoNetwork_opensource/v$GN_VERSION/geonetwork-bundle-$GN_VERSION-0.zip
mkdir geonetwork
cd geonetwork
mkdir data
unzip geonetwork-bundle-$GN_VERSION-0.zip
cd ..

wget https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-$ES_VERSION-linux-x86_64.tar.gz
tar xvfz elasticsearch-$ES_VERSION-linux-x86_64.tar.gz

wget https://artifacts.elastic.co/downloads/kibana/kibana-$ES_VERSION-linux-x86_64.tar.gz
tar xvfz kibana-$ES_VERSION-linux-x86_64.tar.gz

cat <<EOF >> kibana-$ES_VERSION-linux-x86_64/config/kibana.yml
server.basePath: "/geonetwork/dashboards"
kibana.index: ".dashboards"
EOF

nohup ./elasticsearch-$ES_VERSION/bin/elasticsearch &
nohup ./kibana-$ES_VERSION-linux-x86_64/bin/kibana &
nohup ./geonetwork/bin/startup.sh &
```

Installation / Good practices

eg. bin/startup.sh

```
# Configure database
export GEONETWORK_DB_NAME=$CURRENT_DIR/..data/gnbd

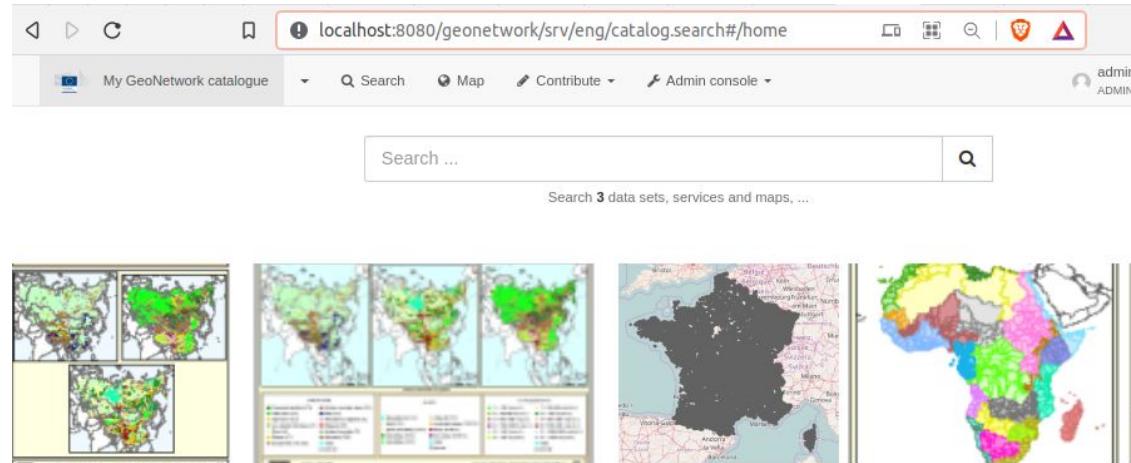
# Configure data directory
export JAVA_OPTS="$JAVA_OPTS
-Dgeonetwork.dir=$CURRENT_DIR/..data
-Dgeonetwork.schema.dir=$CURRENT_DIR/..web/geonetwork/WEB-INF/data/config/schema_plugins
-Dgeonetwork.indexConfig.dir=$CURRENT_DIR/..web/geonetwork/WEB-INF/data/config/index
-Dgeonetwork.formatter.dir=$CURRENT_DIR/..web/geonetwork/WEB-INF/data/data/formatter"
```

GeoNetwork instances to use for the workshop

- GeoCat live instance (4.2.0)
 - <https://foss4g-2022-live1.geocat.live> (admin/WelcomeToFOSS4G2022!)
 - <https://foss4g-2022-live2.geocat.live>
 - <https://foss4g-2022-live3.geocat.live>
- titellus demo (coming 4.2.1)
 - <https://apps.titellus.net/geonetwork> (admin/admin for login)
- or you run it from your machine

Quickstart

- Sign in admin/admin
- Admin > Metadata > Load samples
- Searching
- Discovering information
- Browsing data



Tour de table / What do you expect? Any particular topics?

- Relation between records
- Moving to GN4
- Integration with other apps. See API
-



INSPIRE

INSPIRE / User story / Service Public de Wallonie

Wallonia region main metadata catalogue (using ISO19115-3 standard)
also expose a thematic node dedicated to INSPIRE

Specific CSW end point for all and for INSPIRE

Validation using remote validator of all records in the scope of the Directive using
specific CSW post process (INSPIRE monitoring results)

<https://metawal.wallonie.be/geonetwork/>

<https://metawal.wallonie.be/geonetwork/inspire>



INSPIRE / Hands-on

- Import from Registry [GeoNetwork load codelists from Registry](#)
 - INSPIRE themes
 - Priority datasets
 - Spatial scope
- Import [GEMET](#) from [here](#)
- Setting up INSPIRE validator <https://youtu.be/V2lbzD5iaNk>
 - INSPIRE validator configuration
 - Test validator URL <https://validator.geocat.live/validator>
- Creating a new record from [TG2 template](#)
- Validating
- Adding priority datasets and spatial scope in search aggregations
- Publishing an INSPIRE CSW endpoint

More on this in "[Revamped INSPIRE Geoportal - Cooking the next generation of spatial data catalogues](#)"
If interested in migration to INSPIRE TG2, [check Metawal presentation](#) and [documentation](#)



Harvesting
from various sources
and various protocols



- Catalog harvesters
- Catalog harvester report
- Feature harvesters



Harvester

FISE

► FISE/CH (OGC CSW 2.0.2)
Last run : 10 months ago
Harvested records

► FISE/IT (OGC CSW 2.0.2)
Last run : 10 months ago
Harvested records

ArcSDE
Directory
GeoNetwork (2.0)
GeoNetwork (from 2.1 to 3.x)
GeoPortal REST
OAI/PMH
OGC CSW 2.0.2
OGC Web Services
OGC WFS GetCapabilities
Simple URL
Thredds catalog
WebDAV / WAF

Paste harvester config

+ Harvest from Clone

Harvest the GetCapabilities document from an OGC service (WCS, SOS, WPS, CSW).

Harvesting / User story / Ifremer - Sextant



- Create metadata of services using OGC service harvester
- Populate contact directory using harvester
- Harvest other catalogues using CSW
- Use batch editing to categorise harvested records
- Apply transformation to import custom format eg. JSON Seanoe format
- and index data for in-depth data discovery

<http://www.ifremer.fr/sextant>

The screenshot shows the Sextant portal interface. At the top, there's a navigation bar with links for "Discovery services (Catalogue)", "View services (Geoviewer)", "Download services (Basket)", and "Transferer (Grid).". Below the navigation bar is a large world map with various colored regions representing different spatial data layers. On the left side of the map, there's a vertical sidebar with text: "SHARING of spatial data", "VALORISATION", and "INTEROPERABILITY of metadata, data and services". At the bottom left is the "Sextant" logo with a stylized compass rose icon. A descriptive text box at the bottom right states: "Sextant is the French spatial data infrastructure for marine environments. Sextant is a support for marine studies and decision making in fields such as biodiversity, marine renewable energy, integrated coastal zone management, fisheries, coastal and deep-sea environment, exploration and exploitation of the seabed."

Create service metadata using OGC harvester

Harvester

WFS

► EMODnet Bathymetry - WFS (OGC Web Services)

Last run : 5 days ago
Harvested records: 1

► EMODnet Bathymetry - WFS - CDI Data Discovery and access service (OGC Web Services)

Last run : 5 days ago
Harvested records: 1

► EMODnet Chemistry - WFS - CDI Discovery and access service (OGC Web Services)

Last run : 5 days ago
Harvested records: 1

► EMODnet Chemistry - WFS - Contaminants (OGC Web Services)

Last run : 5 days ago
Harvested records: 1

► EMODnet Chemistry - WFS - Distribution of CDI observations (OGC Web Services)

Last run : 5 days ago
Harvested records: 1

Harvester

WFS

► EMODnet Bathymetry - WFS (OGC Web Services)
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Last run : 5 days ago
Harvested records: 1

► EMODnet Chemistry - WFS - Contaminants (OGC Web Services)
Last run : 5 days ago
Harvested records: 1

► EMODnet Chemistry - WFS - Distribution of CDI observations (OGC Web Services)
Last run : 5 days ago
Harvested records: 1

Settings Harvester history Metadata records

Update harvester EMODnet Bathymetry - WFS

Delete Save Harvest

Identification Schedule Enable disable

Node name and logo EMODnet Bathymetry

The name describing the remote node.

Group EMODNET Hydrography - PRODUC

Group which owns the harvested records.
Only the catalog administrator or user admin of this group can manage this node.

Only one run
This harvester will

Frequency 0 0 0 ? * *
Time in cron expr as in Europe/Paris timezone.

User
User who owns the harvested records

Configuration for protocol OGC Web Services

Service URL https://ows.emodnet-bathymetry.eu/wfs
Web service URL without GetCapabilities parameters

Service type WFS1.1.0
Service type

Advanced options for protocol ogcwcs

Harvested records

Assign 1 records to local node Remove 1 records

1 record

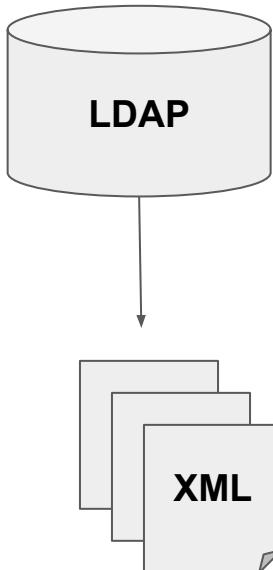
EMODnet Bathymetry WFS

< < 10 Results > >

Facilitate add layer on map

Easier metadata (including links between service and layers)

Populate contact directory using harvester



This screenshot shows the "Harvester" section of the Sextant interface. It lists various harvested datasets:

- CAMIOON metadata (Directory)
Last run : 9 years ago
- CEREMA (OGC CSW 2.0.2)
Last run : 6 days ago
Harvested records: 544
- CONTACTS_EDMER (Directory)
Last run : 5 days ago
- CONTACTS_EDMO (Directory)
Last run : 5 months ago
- CONTACTS_IFREMER (Directory)**
Last run : 6 months ago
- CarmenCarto (OGC CSW 2.0.2)
Last run : 5 days ago
- EMODnet Bathymetry - WCS (OGC Web Services)
Last run : 5 days ago
Harvested records: 1
- EMODnet Bathymetry - WFS (OGC Web Services)
Last run : 5 days ago
Harvested records: 1
- EMODnet Bathymetry - WFS - CDI Data Discovery and access service (OGC Web Services)
Last run : 5 days ago

This screenshot shows the "Update harvester CONTACTS_IFREMER" configuration screen. It includes sections for "Identification" and "Schedule". Under "Identification", there is a "Node name and logo" field set to "CONTACTS_IFREMER" and a "Group" dropdown set to "CONTACTS_IFREMER". The "User" dropdown is currently empty. An "Action on UUID collision" dropdown is set to "Skip record (default)". Below these, there is a "Configuration for protocol Directory" section with a "File path to the directory to harvest on the server" input field containing "/home/isi/sextant/directory/contacts/ifremer". There is also a "Type of record" input field and an "Advanced options for protocol filesystem" section with a checked "Also search in subfolders" checkbox.

Manage directory

This screen allows you to edit directory entries such as contacts, formats, etc. including template management.

This screenshot shows the "Entries" management interface. It displays a list of entries under the "Organizations & contacts" category, with a total count of 7838. The list includes:

- IFREMER (Treguer Mickael)
Owner: Mickael TREGUER Updated: 6 months ago
- CNRS (Treguer Anne Marie)

A green button at the top right says "+ Add New Entry" and a blue button says "+ Create a template".

8K contacts dispatched
in groups

Populate contact directory using harvester

Manage directory

This screen allows you to edit directory entries such as contacts, formats, etc. including template management.

[+ Add New Entry](#) [+ Create a template](#)

[Entries](#) [Templates](#) treg [x](#)

3 Results [<](#) [<](#) [>](#) [>](#)

Sorted by relevancy

IFREMER
Owner: Mickael TR

Bathymétrie - Eventail du Congo (synthèse, 2013) | All changes saved

[Identification](#) [Contacts](#) [Spatial & temporal references](#) [Usage](#)

Point of contact

Organisation name	Individual name	Electronic mail address
Ifremer	Ifremer	sismier@ifremer.fr
All Français	All Français	All Français
Ifremer	Ifremer Géosciences M	gmcarto@ifremer.fr
All Français	All Français	All Français

Contact for the resource

[+](#) [Search for a contact ...](#)

Search directory

Search for a contact ...

7837 record(s)

Filter

Catalogue

- ATL_CHK (5102)
- BS_CHK (5102)
- CONTACTS_EDMO (5102)
- EMODNET_Chemistry (5102)
- EMODNET_HYDROGRAPHY_CPRD (5102)
- MEDCHECKPOINT (5102)
- SEADATANET (5102)
- INTERNET (2689)
- CONTACTS_IFREMER (1933)
- CONTACTS_MYOCEAN (45)

[more](#)

[?](#) IFREMER (Tra)

[?](#) IFREMER (Ta)

[?](#) IFREMER (Yu)

[?](#) IFREMER (Ric)

[?](#) IFREMER (Ge)

[?](#) IFREMER (La)

[?](#) IFREMER (Ta)

[?](#) IFREMER (Le)

Harvest other catalogues

OGC CSW

GeoNetwork protocol

OAI-PMH

Harvester

shom

► SHOM (OGC CSW 2.0.2)

Last run : 6 days ago
Harvested records: 102

+ Harvest from ▾ Clone ▾

Need help

Settings Harvester history Metadata records

Update harvester SHOM

Identification

Node name and logo 

The name describing the remote node.

Group

Group which owns the harvested records.
Only the catalog administrator or user admin of this group can manage this node.

User

User who owns the harvested records

Action on UUID collision

When a harvester finds the same uid on a record collected by another method (another harvester, importer, dashboard editor,...), should this record be skipped (default), overridden or generate a new UUID?

Configuration for protocol OGC CSW 2.0.2

Service URL

CSW URL with or without GetCapabilities parameters

Categorize harvested records using your classification systems

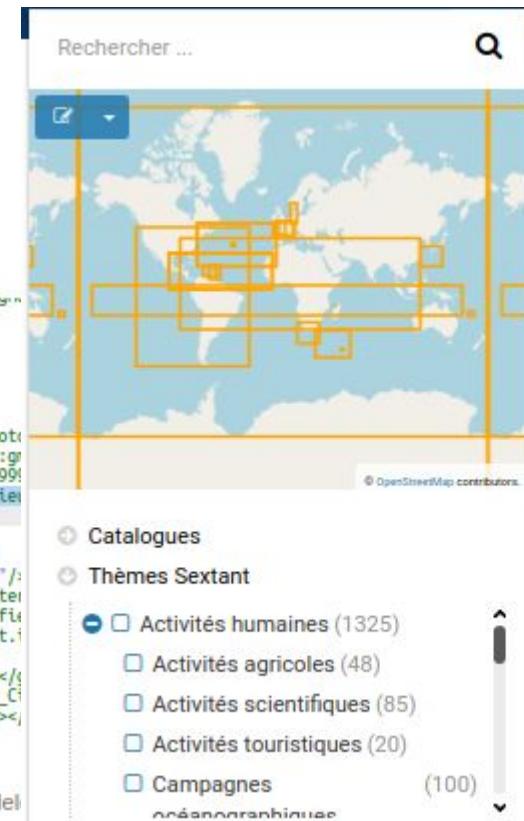
Batch editing can be used to modify harvested records eg.

- adding keywords
 - anonymize
 - ...

eg. SHOM

```
Batch edits

6      },
7      {
8          "condition": "count(./gnd:fileIdentifier/*[text() =
9              'MNT_COTIER_PORT_SM_PAPI_SM_Sm_WGS84_ZNEG.xml']) > 0",
10         "xpath": "/gnd:identificationInfo/gnd:MD_DataIdentification",
11         "value": "<gn_add><gnd:descriptiveKeywords xmlns:gnd='http://www.isotc
12             /2005/gnd' xmlns:gco='http://www.isotc211.org/2005/gco' xmlns:xlink='http://www.w3.org/1999
13             /xlink'><gnd:MD_Keywords><gnd:keyword><gco:CharacterString>Etat du Milieu
14             /Bathymétrie</gco:CharacterString></gnd:keyword><gnd:type><gnd
15             :MD_KeywordTypeCode codeList="http://standards.iso.org/ittf
16             /PubliclyAvailableStandards/ISO_19139_Schemas/resources/codelist
17             /ML_gmxCodeLists.xml#MD_KeywordTypeCode" codeListValue="theme">
18                 <type><gnd:thesaurusName><gnd:CI_Citation><gnd:title><gco:Character
19                     String>Thématiques - SIMM</gco:CharacterString></gnd:title><gnd:identifier
20                     ><gnd:Identifier><gmx:Anchor xlink:href="https://sextant.i
21                     .fr/geonetwork/srv/eng/thesaurus.download?ref=local.theme.simm
22                     .thematiques">geonetwork.thesaurus.local.theme.simm.thematiques</
23                     gmx:Anchor></gnd:code></gnd:MD_Identifier></gnd:identifier></gnd:CI_C
24                     _Identifier></gnd:thesaurusName></gnd:MD_Keywords></gnd:descriptiveKeywords>
25     },
26     {
27         "condition": "count(./gnd:fileIdentifier/*[text() =
```



Apply transformation

Import custom JSON files

Convert to ISO19139

eg. [Seanoe](#) to [Sextant](#)

See also simple JSON
harvester

The screenshot shows two main sections of the Harvester application. On the left, the 'Harvester' interface displays a list of harvested nodes. The first node, 'seanoe', is highlighted with a blue background. It shows the following details:

- SEANOE (Directory)**
- Last run : a month ago
- Harvested records: 988

The second node listed is 'clone: SEANOE (Directory)'.

At the bottom of the Harvester interface are three buttons: '+ Harvest from', 'Clone', and a refresh icon.

On the right, the 'Update harvester SEANOE' configuration page is shown. The top navigation bar includes 'Settings', 'Harvester history', and 'Metadata records'. The main configuration area includes:

- Identification**: Includes fields for 'Node name and logo' (set to 'SEANOE' with a pineapple icon), 'Group' (set to 'SEANOE'), and a note about group ownership.
- Configuration for protocol Directory**: Includes fields for 'Directory' (set to '/data/project/2022/ifremer/seanoe') and 'Type of record' (set to 'Metadata'). It also features an 'Advanced options for protocol filesystem' section and a checked checkbox for 'Also search in subfolders'.
- XSL transformation to apply**: Set to 'SeanoeJSON-to-ISO19139'.

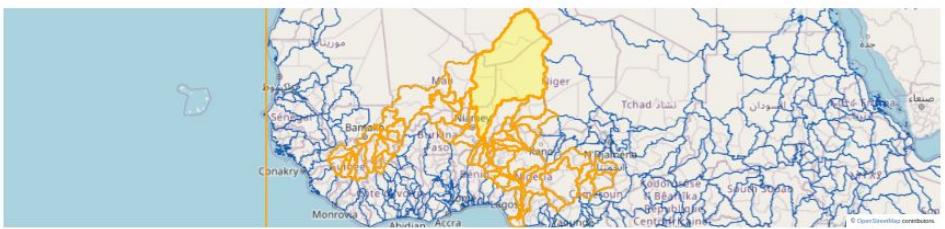
At the top right of the configuration page are buttons for 'Delete', 'Save', and 'Harvest'.

Indexing data

name of the sub-basin (SUB_BAS and SUB_NAME); - area of the sub-basin in square km (SUB_AREA);
 - numerical code of the sub-basin towards which the sub-basin flows (TO_SUBBAS) (the codes -888 and -999 have been assigned respectively to internal sub-basins and to sub-basins draining into the sea)



Discover data



70 / 1,776 feature(s) (100%)

- maj_area
- sub_area
- sub_name
- to_subbas
- maj_name
- sub_bas
- maj_bas
- gnbbox

maj_bas	sub_bas	maj_name	sub_name	to_subbas	maj_area	sub_area
2.0	86.0	Niger River Basin	Dallo Bosso	859.0	2136780.0	534043.0
2.0	879.0	Niger River Basin	Niger 16	877.0	2136780.0	131887.0
2.0	823.0	Niger River Basin	Benu 2	821.0	2136780.0	114275.0
2.0	878.0	Niger River Basin	Tilemsi	877.0	2136780.0	84784.0
2.0	854.0	Niger River Basin	Dallo Maouri	853.0	2136780.0	73748.0

WFS Indexing Dashboard

Here are listed the ongoing and finished jobs for indexing features from remote WFS services. Once indexed, features can then be filtered according to their attributes and the filter applied to the original map layer.

Associated metadata	WFS service URL	Feature count	Last indexing date	Status	Scheduled?	Action
Observation and Monitoring locations	https://sextant.ifremer.fr/services/wfs/environnement_marin - GetCap	9372	5 days ago	success	Yes	<input type="button"/> Schedule <input type="button"/> Start <input checked="" type="button"/> Delete
Surval - Données par paramètre	https://sextant.ifremer.fr/services/wfs/environnement_marin - GetCap	7303	5 days ago	success	Yes	<input type="button"/> Schedule <input type="button"/> Start <input checked="" type="button"/> Delete
Lieux d'observation et de surveillance - Thème Contaminants chimiques et Ecotoxicologique	https://sextant.ifremer.fr/services/wfs/environnement_marin - GetCap	3206	5 days ago	success	Yes	<input type="button"/> Schedule <input type="button"/> Start <input checked="" type="button"/> Delete
Lieux d'observation et de surveillance - Inventaire des lieux actifs des réseaux	https://sextant.ifremer.fr/services/wfs/environnement_marin - GetCap	2430	5 days ago	success	Yes	<input type="button"/> Schedule <input type="button"/> Start <input checked="" type="button"/> Delete
Lieux d'observation et de surveillance - Thème Benthos dont Reefs coralliens	https://sextant.ifremer.fr/services/wfs/environnement_marin - GetCap	2105	5 days ago	success	Yes	<input type="button"/> Schedule <input type="button"/> Start <input checked="" type="button"/> Delete
Lieux d'observation et de surveillance - Thème Phytoplancton et Hydrologie	https://sextant.ifremer.fr/services/wfs/environnement_marin - GetCap	2018	5 days ago	success	Yes	<input type="button"/> Schedule <input type="button"/> Start <input checked="" type="button"/> Delete
ROCC Network Observation and Monitoring Locations	https://sextant.ifremer.fr/services/wfs/environnement_marin - GetCap	1374	5 days ago	success	Yes	<input type="button"/> Schedule <input type="button"/> Start <input checked="" type="button"/> Delete
Lieux d'observation et de surveillance - Thème Microbiologie	https://sextant.ifremer.fr/services/wfs/environnement_marin - GetCap	1243	5 days ago	success	Yes	<input type="button"/> Schedule <input type="button"/> Start <input checked="" type="button"/> Delete
Lieux d'observation et de surveillance des suivi des biocénoses benthiques côtières BENTHOS - Inventaire des lieux actifs	https://sextant.ifremer.fr/services/wfs/environnement_marin - GetCap	1041	5 days ago	success	Yes	<input type="button"/> Schedule <input type="button"/> Start <input checked="" type="button"/> Delete
REPHYTO/REPHYTOX Observation and Monitoring Locations	https://sextant.ifremer.fr/services/wfs/environnement_marin - GetCap	839	5 days ago	success	Yes	<input type="button"/> Schedule <input type="button"/> Start <input checked="" type="button"/> Delete

Showing 1 to 10 of 61 rows 10 ▲ rows per page



Discover data



Legend: 0 - 100% 100% - 100%

Legend: 0 - 100% 100% - 100%

- trip_places
- visit_places
- Geographical areas

API



getevents.places_790



Format:

Open file

Harvesting / Hands-on

- CSW
 - <https://www.nationaalgeoregister.nl/geonetwork/srv/csw>
 - <https://www.sandre.eaufrance.fr/atlas/srv/eng/csw>
- WMS
 - <https://services.sandre.eaufrance.fr/geo/zagri>
 - <https://services.sandre.eaufrance.fr/geo/obs>
 - <http://geoservices.brgm.fr/geologie>
- Harvesting data
 - for data harvesting “River basin of Africa”, “[Obstacles à l’écoulement](#)”

Harvesting / Related talks this week

Revamped INSPIRE Geoportal - Cooking the next generation of spatial data catalogues

2022-08-25, 11:30-12:00 (Europe/Rome), Auditorium

<https://talks.osgeo.org/foss4g-2022/talk/MBDB3W/>





Biodiversity

Biodiversity related datasets



Climate-ADAPT

Climate Change Adaptation related datasets



Copernicus Land

Copernicus Land Monitoring Service Pan-European and Local products



EARL

Environmental Accounting Reference Layers



External Datasets

Datasets not owned by EEA



Forest Information System for Europe

FISE metadata catalogue (BETA)



GEOSS

EEA datasets exposed through the GEOSS portal



Geospatial reference

Datasets for geospatial reference

Thematic portals

Portal / User story / EEA

EEA thematic nodes <https://sdi.eea.europa.eu/>



Biodiversity

Biodiversity related datasets



Climate-ADAPT

Climate Change Adaptation related datasets



Copernicus Land

Copernicus Land Monitoring Service Pan-European and Local products



EARL

Environmental Accounting Reference Layers



External Datasets

Datasets not owned by EEA



Forest Information System for Europe

FISE metadata catalogue (BETA)



GEOSS

EEA datasets exposed through the GEOSS portal

Geospatial reference

Datasets for geospatial reference



INSPIRE Priority Datasets



Marine

Marine related datasets



Water

Water related datasets



**European
Environment
Agency**

Portal / Hands-on

- Create a new portal from Admin > Settings > Sources (see [GeoNetwork multi-portal configuration](#))
 - Current catalogue portal ?
<https://sdi.eea.europa.eu/catalogue/srv/api/sources>
 - [Request a portal which does not exist](#)
 - Upload logo and set portal logo
- Learning queries
- UI configuration (eg. modules, facets, ...)

Portal filter / Learning queries

+any.default:IDP_* = full text search

+resourceIdentifier.code:copernicus* = resource identifier starts with

-resourceIdentifier.code:eea* -resourceIdentifier.code:copernicus* = NOT using “-”

-cl_status.key:obsolete -cl_status.key:superseded +cat:biodiversity = NOT status and category

+th_httpinspireeuropeaumetadataclistPriorityDataset-PriorityDataset:* = Thesaurus used

+cat:fise +_exists_:resourceTitleObject = Category AND field exist

+th_rod-eionet-europa-euNumber:[1 TO *] = 1 or more reporting obligations

More on Elasticsearch doc, fields list or check search results

Test queries using q(...) in full text search field

Portal config / User Interface

Enable/disable apps eg. only search, only mapping

Configuring languages

Configuring facets/aggregations

Configuring search



Portal config / UI / Learning aggregations

Home page

Search filters

Dashboards

Statistics

Directory filters

The screenshot shows two side-by-side search results pages from the EEA geospatial data catalogue.

Left Panel (INSPIRE themes):

- Browse by:** INSPIRE themes, EEA topics
- Land cover:** 381 items
- Protected sites:** 78 items
- Orthoimagery:** 47 items

Right Panel (IDP Topics):

- Browse by:** IDP Topics, IDP DPSIR
- IDP_topics_Administrative_boundaries:** 5 items
- IDP_topics_Biodiversity:** 16 items
- IDP_topics_Biophysical_variables:** 27 items

Both panels include a top navigation bar with a logo, search, map, contribute, and admin console options. The URL for the right panel is sdieea.europa.eu/catalogue/idp/eng/cat.

Portal config / UI / Learning aggregations

[Documentation](#) and [default configuration](#)

[More on Elasticsearch aggregations](#)



Going further

GeoNetwork
open source

More topics

- Analysis & dashboards examples
- [Using the API](#)
- [Building your own editor](#)
- [Editing in batch](#)
- ... depending on your questions

Dashboards

Type de ressource
dataset x series x Select... Templates? Select... Publié dans le groupe Select...
Fiche publique ?

Records number ⓘ

865 630

Records

Published Records ⓘ

630

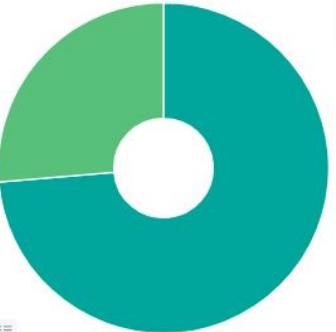
Records

Number of records over time

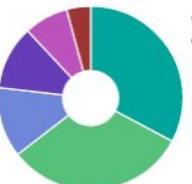
Number of records

Number of records 862 Public records 630

Resource types



Distribution formats



- ESRI Shapefile (.shp)
- ESRI File Geodatabase (...)
- TIFF (.tif, .tif)
- OGC GeoPackage (.gPKG)
- GML (.gml)
- Autres formats

Accessibilité des données

506

Avec service de visualisation - Nombre de fiches

Dernière mise à jour des fiches

171

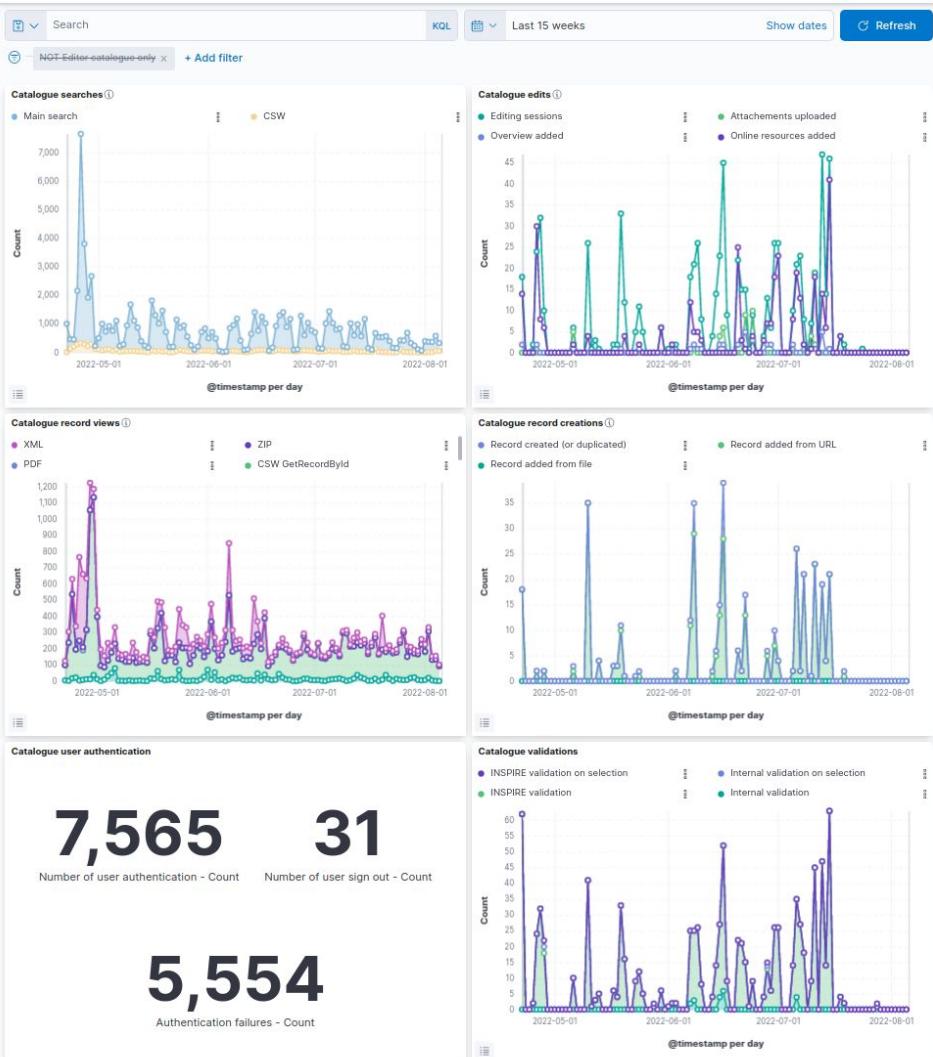
Avec service de téléchargement - Nombre de fiches

- Before Aug 1, 2021 @ 0...
- Aug 1, 2021 @ 00:00:00...
- Feb 1, 2022 @ 00:00:00...
- May 1, 2022 @ 00:00:00...



Dashboards

Follow catalogue activity



GeoNetwork 4.2.1 OpenAPI Documentation

4.2.1 OAS3

Using the OpenAPI

[.../srv/api/doc](#)

This is the description of the GeoNetwork OpenAPI. Use this API to manage your catalog.

[GeoNetwork user mailing list - Website](#)

[Send email to GeoNetwork user mailing list](#)

[GPL 2.0](#)

Learn how to access the catalog using the GeoNetwork REST API.

Servers

{catalog}/{portal}/api - My GeoNetwork ▾

Computed URL: <http://localhost:8080/geonetwork/srv/api>

Server variables

catalog

<http://localhost:8080/geonetwork> ▾

portal

srv ▾

atom ATOM

GET

[/atom/describe/resource](#) Describe resource

Building your own editor

Identification of resource

Title *
Total nutrient input to agroecosystems 2010, Feb. 2015

The title should be self-explanatory and should not contain acronyms unless they are widely known. In any case, should an acronym be used in the title, it shall be made explicit in the abstract. For datasets with versions please follow this convention

Code *
eea_r_3035_1_k_total-nutrient-input_p_2010_v01_r00

The dataset identifier shall be unique and ideally meaningful, following [this convention](#).

Edition *
01.00

The version and revision numbers of the dataset should be encoded in this element, separated by a point (VersionNumber.RevisionNumber)

Date *

Creation	24/02/2015	...
----------	------------	-----

+ Set at least the creation date for the dataset, and publication date if the dataset is published on the EEA website. There shall be not more than one date of creation and publication. Optionally, date of last revision can be added when relevant. When available, a foreseeable date for the next update can be added.

Abstract *

The total nitrogen input to agricultural soils for the year 2010 is represented in kgN/ha/yr at a 1 km resolution. Nitrogen input includes organic manure application, inorganic fertilizer input, atmospheric deposition and biological fixation. The data comes from the EEA nutrient accounts, developed by EEA and ETC-ULS, and is based on spatial reference data on crop and livestock distribution, yield and livestock statistics, and official conversion factors (see lineage for details). The geographic coverage is EU 27 (2007).

This is a brief narrative summary of the content of the resource. The abstract provides a clear and concise statement that enables the reader to understand the content of the data or service. Ideally it should also contain information about the coverage (linguistic transcriptions of the extent or location), main attributes, data sources, legal references and importance of the work. Acronyms should be written in full when first used. When the metadata refers to a revision of an already existing dataset, it is important to indicate as well the main changes on this new version.

Overview



Choose or drop an image here

Associated resources

+ Add

Online resources

+ Add

Protocol	Url	Title	
WWW.URL	https://sdil.eea.europa.eu/data/eb306a29-f0db-49b...	Direct download (Eionet authentication)	X
OGC-WMS	https://land.discomap.eea.europa.eu/arcgis/servic...	Total nitrogen input 2010 (kg/ha/yr)	X
ESRI:REST	https://land.discomap.eea.europa.eu/arcgis/rest/se...		X
EEA:FILEPATH	https://sdil.eea.europa.eu/webdav/continental/euro...		X

When available, please add the link to the web download using the Web address (URL) protocol, to the WMS GetCapabilities and corresponding layer using "OGC:WMS" protocol as well as the link to the ESRI Rest service using the "ESRI:REST" protocol. Links for internal access, the graphic overview and related data sources will be added by the SDI Team during the registration process.

Validation

For more details about how to create EEA metadata using the Editor please read the [SDI Editor User Guide](#). Elements with a * are mandatory with respect to the EEA metadata guidelines.

If you have any questions, please contact sdil.eea.europa.eu.

Batch editing example

Select records, define changes, preview and save.

 **Add "requires authentication" in the download link label for all Copernicus metadata entries**

Added by [Jose Rubio](#) about 15 hours ago. Updated [about 12 hours ago](#).

Status:	NEW	Start date:	2022-08-15
Priority:	= Normal	Due date:	-
Assignee:	François Prunayre 	% Done:	<div style="width: 0%;"><div style="width: 0%;">0%</div></div>
Category:	GeoNetwork		
Target version:	-		
Keywords:			

Description  [Quote](#)

For all those entries which identifier starts with "copernicus-" the download requires a sign-in (which is managed externally) - see currently here:
https://land.copernicus.eu/pan-european/high-resolution-layers/grassland/status-maps/grassland-2018/login/?came_from=https://land.copernicus.eu/pan-european/high-resolution-layers/grassland/status-maps/grassland-2018?tab=download

They are not restricted (as the policy we have now) but simply requires log in. As users can use an Eionet account or a Copernicus local account, I think we can just say "requires authentication".

"Direct download (requires authentication)"

```
<gmd:onLine>

<gmd:CI_OnlineResource>
    <gmd:linkage>
        <gmd:URL>https://land.copernicus.eu/imagery-in-situ/eu-dem/eu-dem-v1.1?tab=download</gmd:URL>
    </gmd:linkage>
    <gmd:protocol>
        <gco:CharacterString></gco:CharacterString>
    </gmd:protocol>
    <gmd:name>
        <gco:CharacterString>Download</gco:CharacterString>
    </gmd:name>
</gmd:CI_OnlineResource>
</gmd:onLine>
```

```
<gmd:onLine>

<gmd:CI_OnlineResource>
    <gmd:linkage>
        <gmd:URL>https://land.copernicus.eu/imagery-in-situ/eu-dem/eu-dem-v1.1?tab=download</gmd:URL>
    </gmd:linkage>
    <gmd:protocol>
        <gco:CharacterString></gco:CharacterString>
    </gmd:protocol>
    <gmd:name>
        <gco:CharacterString>Download (require authentication)</gco:CharacterString>
    </gmd:name>
</gmd:CI_OnlineResource>
</gmd:onLine>
```

Batch editing

Batch editing example

1. Choose a set of records

2. Define edits

3. Apply changes 22 record(s) in selection.

 Search and replace  XPath editing  Form editing

Updating records using XPath needs careful definition of the changes. A change is defined by:

- an optional title 
- a type of update 
- a mandatory XPath to point to the element(s) to update. XPath may contain a filter expression. 
- a value, which could be an XML snippet if the mode is not 'delete' 

Examples ▾

Distribution / Replacing a protocol value

Add the element or value (in the first matching parent) or create it

/gmd:distributionInfo/*/*/gmd:transferOptions/*/*/gmd:onLine/*[substring(gmd:linkage/*/text(), string-length(gmd:linkage/*/text()) - string-length(?tab=

<gmd:name xmlns:gmd="http://www.isotc211.org/2005/gmd"><gco:CharacterString xmlns:gco="http://www.isotc211.org/2005/gco">Download (reauthentication)</gco:CharacterString></gmd:name>



 Reset changes

Batch editing example

JSON configuration that you can paste in the interface:

```
{  
  "field": "Distribution / Replacing a link name",  
  "insertMode": "gn_add",  
  "xpath": "/gmd:distributionInfo/*/gmd:transferOptions/*/gmd:onLine/*[substring(gmd:linkage/*/text(),  
    string-length(gmd:linkage/*/text()) - string-length('?tab=download') + 1) = '?tab=download']",  
  "value": "<gmd:name xmlns:gmd=\"http://www.isotc211.org/2005/gmd\"><gco:CharacterString  
    xmlns:gco=\"http://www.isotc211.org/2005/gco\">Download (requires authentication)</gco:CharacterString></gmd:name>"  
}
```

Update the modification date in the metadata document (for example, gmd:dateStamp for ISO 19139)

Process preview

```
1 <preview>[@ -35891,32 +35891,180 @@  
2   /gnd:protocol>  
3  
4   +  
5     |<gnd:name>  
6     |<gco:CharacterString>Download (requires authentication)</gco:CharacterString>  
7     |</gnd:name>  
8   |</gnd:  
9 ]</preview>
```

User can preview changes:

Related records

eg. superseded

Any other questions?

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More on GeoNetwork this week

[State of GeoNetwork](#)

[GeoNetwork and a11y: Introducing accessibility in OSGeo applications](#)



Where to learn and contribute

<https://geonetwork-opensource.org/>

<https://github.com/geonetwork/core-geonetwork>

<https://gitter.im/geonetwork/core-geonetwork>