



GeoNetwork
open source

State of GeoNetwork

FOSS4G 2022 - Firenze, IT



















2 versions actively supported

3.12.x

4.2.x

[Home](#) / [GeoNetwork_opensource](#)

Name	Modified	Size	Downloads / Week
 Parent folder			
 v3.12.6	2022-06-22		31  
 v3.12.5	2022-05-20		0 
 v4.2.0	2022-05-19		28  
 v3.12.4	2022-04-11		0 
 v4.0.6	2022-02-02		3  
 v3.12.3	2022-01-21		0 

3.12.6 is about


Minor changes backported from 4.2.x


- Metadata workflow improvements
- INSPIRE validator improvements (API token support)
- Accessibility improvements
- Authentication / KeyCloak improvements
- Map configuration improvements (overview map, map per languages)
- Minor libraries update / Switch from iText to OpenPDF

[and more ...](#)

Version 4.2.0 is about

- Multilingual search support
- Table view mode for results
- Search API can contains related records

 WALOUS 2018 - Série



Série de données relatives à l'occupation et à l'utilisation du sol produites dans le cadre de la subvention de recherche WALLonie Occupation et Utilisation du Sol (WALOUS).

Ressources associées

- [Occupation du sol en Wallonie - WALOUS 2018 - vecteur](#)
- [Occupation du sol en Wallonie - WALOUS 2018](#)
- [Utilisation du Sol en Wallonie - WALOUS 2018](#)

Direction de la Géométrie
Secrétariat général
Département de la Géométrie
de la Géométrie
Service public de la Géométrie
(Propriétaire)
Université Libre de Bruxelles
(Propriétaire)

Version 4.2.0 is about

Improved navigation between related records

- series/products/collections
- services
- source datasets
- superseded records
- similar records

WALOUS 2018 - Série

Série de données relatives à l'occupation et à l'utilisation du sol produites dans le cadre de la subvention de recherche WALonnie Occupation et Utilisation du Sol (WALOUS).

Cette série comporte plusieurs produits :

- Occupation du sol en Wallonie - WALOUS 2018 (WAL_OCS__2018) : jeu de données raster d'une résolution d'1m qui reprend, sous 11 classes principales, la cartographie de l'occupation du sol de l'ensemble du territoire wallon pour l'année 2018.

L'occupation du sol se définit comme la « couverture physique et biologique de la surface terrestre, y compris les surfaces artificielles, les zones agricoles, les forêts, les zones (semi)-naturelles, les zones humides et les masses d'eau » (directive européenne INSPIRE 2007/2/CE, 2007).

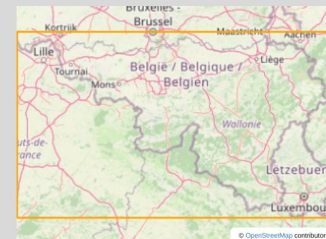
WAL_OCS__2018 est issue d'un traitement automatisé de photographies aériennes, d'images satellites, d'informations altimétriques et de données vectorielles.

Étendue temporelle

01-01-2018 → 31-12-2018

Aménagement du territoire Données de base

Nature et environnement Sol et sous-sol



Composé de

Années de production

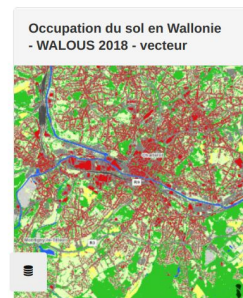
2020 (2) 2021 (1)

Formats

ESRI File Geodatabase (.fgdb) (2) OGC GeoPackage (.gpkg) (2) TIFF (.tif, .tiff) (1)

Types de représentation

Raster (1) Vecteur (2)



Titre	État	Format	Esri	view	Télécharger	file	atom
Occupation du sol en Wallonie - WALOUS 2018		TIFF (.tif, .tiff)					
Occupation du sol en Wallonie - WALOUS 2018 - vecteur		ESRI File Geodatabase (.fgdb) OGC GeoPackage (.gpkg)					
Utilisation du Sol en Wallonie - WALOUS 2018		ESRI File Geodatabase (.fgdb) OGC GeoPackage (.gpkg)					

Version 4.2.0 is about

Distribution links clearly categorized

API

	Service de visualisation ESRI-REST	<input type="text"/>	
	Adresse de connexion au service de visualisation ESRI-REST de la couche de données "Utilisation du Sol en Wallonie - WALOUS 2018"		
	Service de visualisation WMS	<input type="text"/>	
	Adresse de connexion au service de visualisation WMS de la couche de données "Utilisation du Sol en Wallonie - WALOUS 2018"		

Télécharger

	Correspondance COSW2007 Walousmaj2018	<input type="text" value="Télécharger"/>	
	Tableau de correspondance entre les classes de WALOUS 2018 et celles de la COSW2007		

Légende



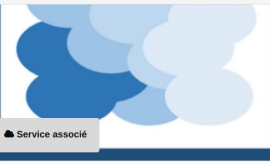
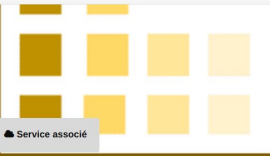
	Légende du webservice	<input type="text" value="Ouvrir le lien"/>	
	Légende pour AcrGIS - Niveau 1	<input type="text" value="Ouvrir le lien"/>	
	Légende pour AcrGIS - Niveau 2	<input type="text" value="Ouvrir le lien"/>	
	Légende pour AcrGIS - Niveau 3	<input type="text" value="Ouvrir le lien"/>	
	Légende pour AcrGIS - Niveau 3 enrichi	<input type="text" value="Ouvrir le lien"/>	
	Légende pour QGIS	<input type="text" value="Ouvrir le lien"/>	

Catalogue d'attributs

	Modèle de la donnée Utilisation du Sol en Wallonie - WALOUS 2018	<input type="text" value="Ouvrir le lien"/>	
	Structure de la couche WALOUS 2018 - Utilisation du sol [WAL_UTS__2018]		

Links

	Application WalOnMap - Toute la Wallonie à la carte	<input type="text" value="Ouvrir le lien"/>	
	Application cartographique du Geoportail (WalOnMap) qui permet de découvrir les données géographiques de la Wallonie.		

	Format
	<input type="text" value="ESRI File Geodatabase (.gdb)"/>
	<input type="text" value="OGC GeoPackage (.gpk)"/>
	Service associé
	Utilisation du Sol en Wallonie - WALOUS 2018 - Service de visualisation REST
	
	Service associé
	Utilisation du Sol en Wallonie - WALOUS 2018 - Service de visualisation WMS
	
	Service associé

Version 4.2.0 is about

Dataset citation and improve DOI support

upper mixed layer which is the part of the ocean represented by the top-most layer of grid cells in most numerical ocean models. It is never observed directly by satellites, but it comes closest to being detected by a microwave radiometer which penetrates the skin, at dawn when the previous day's diurnal stratification can be assumed to have decayed and SSTsubskin, SSTdepth and SSTfnd are equal.

Cite dataset

Html

Text

RIS

BibTex



ESA, Jhon(IFREMER). ODYSSEA Brazil/Tropical Atlantic High-Resolution Sea Surface Temperature Gridded Level 4 Daily Analysis. Ifremer/CERSAT
<http://doi.org/10.145/odysseabrazil>

Download and links



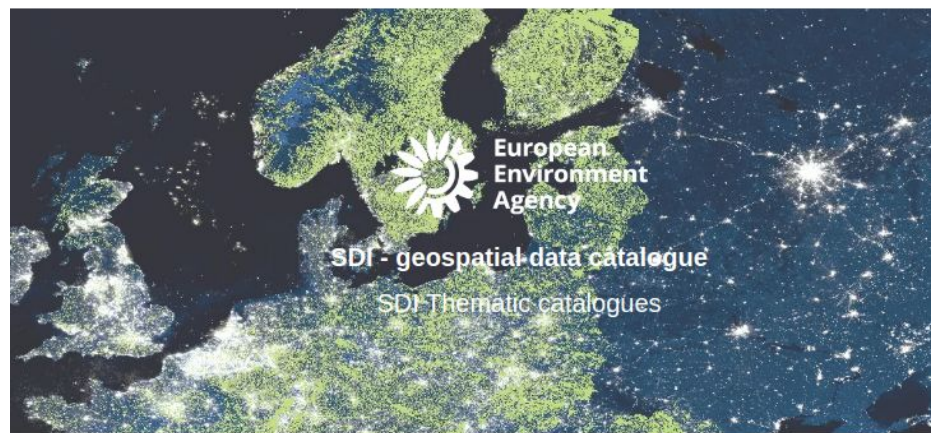
/home/cerdata_nfs/provider/ghrsst/satellite/l4/bra/odysseabrazil/data/

Open link



Version 4.2.0 is about

Easily creates portals with custom configurations (eg. facets, enabled modules)



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

[Check GeoNetwork workshop for more details](#)

Version 4.2.0 is about

Harvesting / JSON source support (eg. opendata portals)

Editing / Database search and replace

Major libraries changes / eg. Spring, Hibernate, H2

[and more ...](#)

Codesprint / Back to Bolsena



Sonarcloud / code quality tool

Old GeoNetwork codebase is using a number of languages ie. mainly Java, XSLT, Javascript.

Various level of expertise in contributors

Could help learning good practices and make code more homogenous



sonarcloud bot commented 5 days ago

SonarCloud Quality Gate failed.

Failed

-   0 Bugs
-   0 Vulnerabilities
-   1 Security Hotspot
-   2 Code Smells
-  0.0% Coverage
-  0.0% Duplication

Coming version 4.2.1

Data browsing in record view

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)

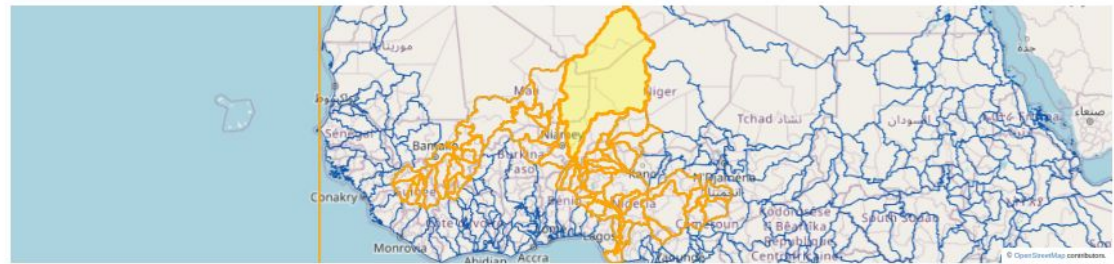


Discover data

The screenshot shows a map interface with a feature count of 3399. Below the map is a search bar and a table of data.

gid	CdObstEcou	StObstEcou	CdModeValid
95759	ROE95759	Validé	0

Discover data



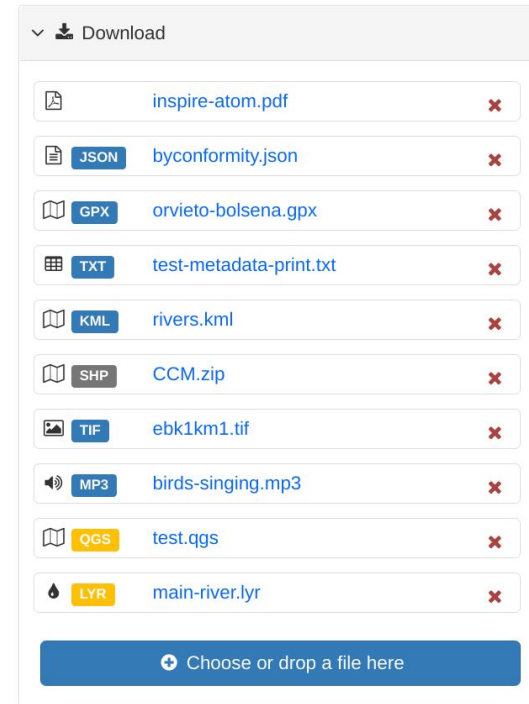
70 / 1,776 feature(s)

- ↕ 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	Dallol 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	Benue 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	Dallol Maouri	853.0	2136780.0	73748.0

Coming version 4.2.1

- INSPIRE Atom service migration to Elasticsearch
- Editor / easily upload resources with format detection
- Indexing performance improvements
- More library updates / GeoTools, Log4j2 migration



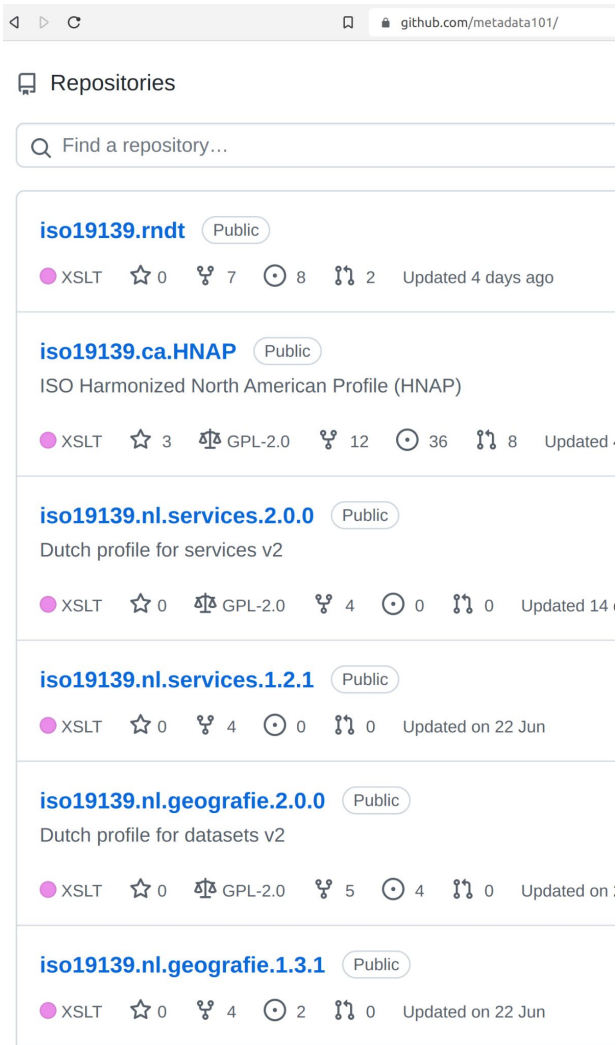
Our ecosystem of schema plugins

The ISO Harmonized North American Profile (HNAP) is released for each 3.12 versions

Dutch profiles

ISO19115-3 is used by more and more users

DCAT2 profile experiment



The screenshot shows a GitHub page with the following content:

- Page title: **Repositories**
- Search bar: Find a repository...
- Repository list:

Repository Name	License	Stars	Forks	Issues	Open PRs	Updated	
iso19139.rndt (Public)	XSLT	0	7	8	2	Updated 4 days ago	
iso19139.ca.HNAP (Public)	XSLT	3	GPL-2.0	12	36	8	Updated .
iso19139.nl.services.2.0.0 (Public)	XSLT	0	GPL-2.0	4	0	0	Updated 14 .
iso19139.nl.services.1.2.1 (Public)	XSLT	0	4	0	0	0	Updated on 22 Jun
iso19139.nl.geografie.2.0.0 (Public)	XSLT	0	GPL-2.0	5	4	0	Updated on :
iso19139.nl.geografie.1.3.1 (Public)	XSLT	0	4	2	0	0	Updated on 22 Jun

A mature project brings challenges

- More technical challenges
 - Search / Combined search on metadata and data
 - More library updates of old libraries / Saxon, OpenRDF
 - How-to improve a 20 years old code base?
- More community challenges
 - How-to attract new contributors?
 - Finding consensus on where/how to go

Health & Happiness



2021-2022 brought new ideas and developments

[GeoNetwork microservices](#) eg. OGC API Records service
(for DCAT, RSS outputs)

[GeoNetwork UI](#)

[New CSW harvester](#) created for INSPIRE Geoportal

Simple Editor Proposal

[Proposal](#)

[Participatory funding page](#)

As the Datahub is a facade for the search handling new use cases, we would like to offer a facade to the editing, for catalogs which don't need the ISO schema complexity.

- Make metadata accessible to everyone
- Forget about metadata schemas
- Build your own editor

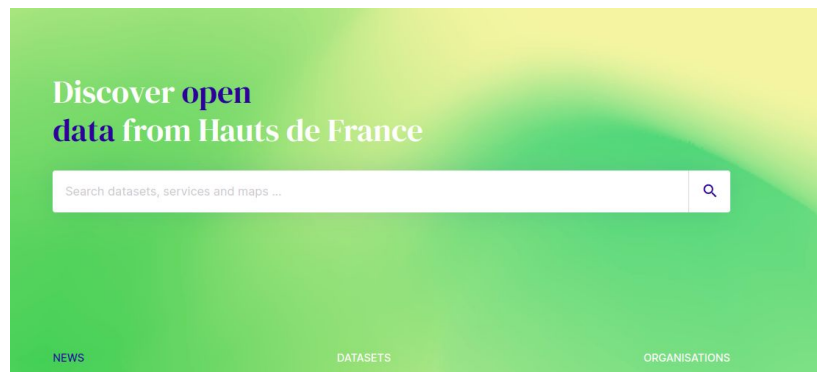
More on GeoNetwork this week



[Datahub: the confluence of open data and geo data](#)

(26/08 - 9h30)

New alternative UI as a facade on GN4 search engine



News feed




Rennes Métropole - Direction de la Voirie - Services génér...
created this dataset 2 weeks ago

Hierarchisation des axes routiers de Rennes Métropole

Cette couche représente la hiérarchisation des voiries de Rennes Métropole. Cette dernière hiérarchise les tronçons du réseau routier qu'elle gère dans un souci d'adapter son niveau de servic...

Indicators

 3942
datasets

 133
organisations

More on GeoNetwork this week



GeoNetwork
open source

[GeoNetwork and a11y: Introducing accessibility in OSGeo applications](#) (24/08 - 16h45)

[Revamped INSPIRE Geoportal - Cooking the next generation of spatial data catalogues](#) (25/08 - 11h30)

[European \(INSPIRE\) Data Tour](#) (26/08 - 14h45)

