

Génération automatique d'un catalogue standardisé à l'OSU OREME

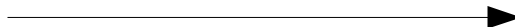
Utilisation de R et des bibliothèques
geometa et geonapi

Contexte

- OREME : 24 Services d'Observation, grand nombre de jeux de données géoréférencés
- Données et métadonnées sous PostgreSQL / PostGIS
- Obligation de cataloguer nos données (Inspire) – norme ISO19139
- Outil choisi : GeoNetwork 3
- Problématique : alimenter automatiquement GN à partir de la bdd



?



Suite de SIST16 : “Mise en place de catalogues INSPIRE et de leur alimentation automatique” (voir)

Solution

Basée sur les librairies R `geometa` et `geonapi`

- Fév 18 : atelier “R et métadonnées”, E. Blondel & J. Barde, RBDD / SIST
- **geometa** : gérer des métadonnées géographiques ISO/OGC :
 - Écrire
 - Lire
 - Valider (XSD / ISO / Inspire)
 - **Convertir** : NetCDF - EML
- **geonapi** : Interface R – API GeoNetwork
- **geosapi** : Interface R – API GeoServer
- **ows4R** : interface R – Web Services OGC (WFS, CSW, ..)
- **geoflow** : orchestrer la gestion / publication de (méta)données géospatiales

ISO19139

ISO19110 (dictionnaires de données)

Solution

Générer de l'ISO valide Inspire => wiki geometa

[Voir le code maison](#)

Vue SQL metadata

- Title
- Abstract
- Spatial extent
- Temporal extent
- Inspire themes
- Keywords
- Contact
- ...
- oreme_identifier

Table gn_record

- oreme_identifier
- md_identifier = uuid

Script R

1 Transformation → ISO
lib *geometa*

2 Insertion / Màj dans GN
lib *geonapi*

3 Enregistrement de l'uuid
si besoin

Fiche

Fiche

Fiche

Résultat

TYPE OF RESOURCES

Dataset (98)

TOPICS

Geoscientific... (98)

Environment (98)

INSPIRE THEMES

Land cover (1)

Geology (34)

Land use (6)

Environmental... (93)

Atmospheric... (37)

4 more

GEMET KEYWORDS

Science (77)

Biosphere (58)

Land (44)

Atmosphere (36)

Hydrosphere (23)

5 more

KEYWORDS

Environment (95)

Geoscientific... (95)

Environmental... (93)

Habitats and... (42)

Meteorological... (40)

10 more

CONTACT FOR THE RESOURCE

UMR Centre... (32)

UMR HydroSciences... (26)

UMR Institut des... (16)

UMR Géosciences... (16)

UMR MARine... (7)

6 more

Categories 

☆☆☆☆☆ [OREME](#)

Plant communities observatory (OCOVE) : Observation Service of the...



On going

Data from the 'Plant communities observatory' (OCOVE): Observation of plant and fungal communities: measurement of the environment (temperature, rain, minerals), individual monitoring, taxonomic identification, molecular data, etc.. This observatory is part of the Mediterranean Research Observatory of Environment (OSU OREME, Paradis, Laure

Richard, Franck



Categories 

☆☆☆☆☆ [OREME](#)

Mediterranean forest ecosystem observatory (FORET) : Observation Service of



On going

Data from the 'Mediterranean forest ecosystem observatory' (FORET): Observatory of Mediterranean forest ecosystems and vulnerability to climate change: gas and energy exchanges, growth, plant and animal dynamics, This observatory is part of the Mediterranean Research Observatory of Environment (OSU OREME, <http://www.oreme.org>). It is labeled.in

Ourchival, Jean-Marc



Categories 

☆☆☆☆☆ [OREME](#)

Marine and lagoon biodiversity (BIOMARLA) : Observation Service of the...



On going

Data from the 'Marine and lagoon biodiversity' (BIOMARLA): Monitoring of pelagic or benthic marine and lagoon communities. This observatory is part of the Mediterranean Research Observatory of Environment (OSU OREME, <http://www.oreme.org>). It consists in different observing tasks: Coralligenous reefs ; Marine planktonic communities ; Thau microbial communities..

Deter, Julie



Categories 

☆☆☆☆☆ [OREME](#)

GNSS tectonic and water vapor measurements observatory (GNSS) :



On going

Data from the 'GNSS tectonic and water vapor measurements observatory' (GNSS): Observation of tectonic deformation and integrated tropospheric water vapor content from measurements of permanent and semi-permanent GNSS stations.. This observatory is part of the Mediterranean Research Observatory of Environment (OSU OREME, <http://www.oreme.org>)..It

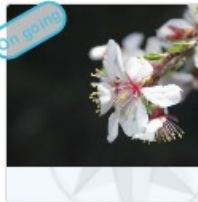
Doerflinger, Erik



Categories 

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Season observatory (ODS) : Observation Service of the Mediterranean Research...



On going

Data from the 'Season observatory' (ODS): National Observatory of plant phenology (dates of flowering, leafing, fruiting, leaf coloring) and animal (date of first appearance).. This observatory is part of the Mediterranean Research Observatory of Environment (OSU OREME, <http://www.oreme.org>). It is labeled in the framework of SOERE TEMPO. ...

Chuine, Isabelle



Categories 

☆☆☆☆☆ [OREME](#)

Geodesy in karst environment observatory (GEK) : Observation Service of the...



On going

Data from the 'Geodesy in karst environment observatory' (GEK): Study of the spatio-temporal variations of the water stock in karst environments (Larzac): temperature, water flow, gravimetry, GPS, inclinometry, water vapor, CO2 flow, This observatory is part of the Mediterranean Research Observatory of Environment (OSU OREME, Champollion, Cédric

Champollion, Cédric



Time series of type chemistry in Fontaine de Vaucluse basin - FONTAINE DE VAUCLUSE observatory - KARST observatory network -OZCAR Critical Zone network Research Infrastructure

Updated: 6 days ago

Data of type chemistry measured on Fontaine de Vaucluse basin within the framework of the FONTAINE DE VAUCLUSE observatory, that is part of the KARST observatory network. The KARST observatory network aims to strengthen knowledge-sharing and to promote cross-disciplinary research on karst systems, in the framework of the OZCAR Critical Zone network Research Infrastructure. Data consist in 4 time series on 2 station(s). The measured parameters are: Conductivity ($\mu\text{S}/\text{cm}$), Water temperature ($^{\circ}\text{C}$). Measurements are regularly updated with new data. The data are made public after a 30-month embargo.

On going

Download and links

🔗	Data on OSU OREME data portal	Open link
Data on OSU OREME data portal		
🔗	Site information on DEIMS / LTER	Open link
Site information on DEIMS / LTER		
🌐	SNO KARST stations WMS	Add to map
This dataset is published in the view service (WMS) available at https://sig.oreme.org:8443/geoserver/oreme/wms with layer name snokarst_station.		

About this resource

INSPIRE themes

- Atmospheric conditions
- Environmental monitoring facilities
- Geology
- Meteorological geographical features

Categories

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Keywords

- Atmospheric conditions
- Environmental monitoring facilities
- Geology
- Meteorological geographical features
- flood
- hydrology

Overview



Spatial extent

