

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

Utilisation de R et des bibliothèques  
geometa et geonapi

# Contexte

## Suite de SIST16

“Mise en place de catalogues INSPIRE et de leur alimentation automatique” ([voir](#))

## Dans les épisodes précédents ..

- OREME : 24 Services d'Observation, grand nombre de jeux de données géoréférencés
- 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



?



# 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 ISO19139
  - Lire
  - Valider (XSD / ISO / Inspire) ISO19110 (dictionnaires de données)
  - **Convertir** : NetCDF - EML
- **geonapi** : Interface R – API GeoNetwork
- **geosapi** : Interface R – API GeoServer
- En cours de dev : **geoflow** : orchestrer la gestion / publication de (méta)données géospatiales
- En cours de dev : **ows4R** : interface R – Web Services OGC (WFS, CSW, ..)

# 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
- ...

## Table gn\_record

- oreme\_identifier
- md\_identifier = uuid

## Script R

**1** Transformation → ISO  
lib *geometa*

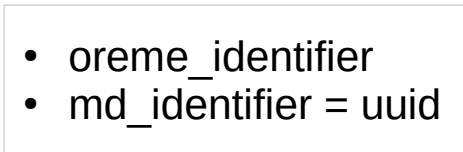
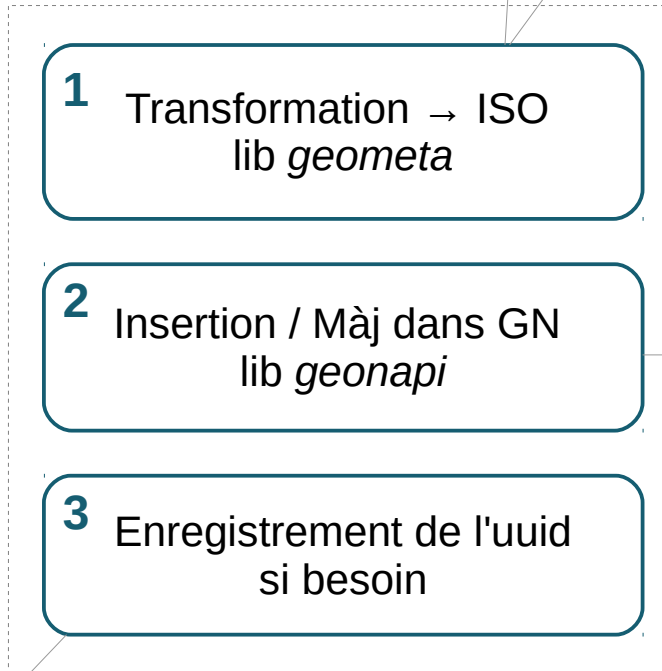
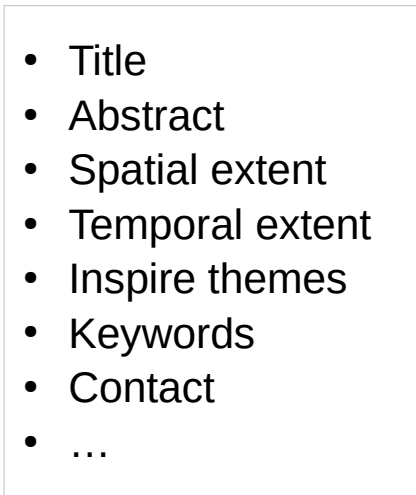
**2** Insertion / Màj dans GN  
lib *geonapi*

**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 

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### 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..

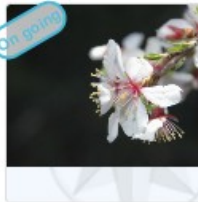
Deter, Julie



Categories 

☆☆☆☆☆ [OREME](#)

### 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 

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### Mediterranean forest ecosystem observatory (FORET) : Observation Service of the...



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 

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### 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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### 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



# 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 <a href="https://sig.oreme.org:8443/geoserver/oreme/wms">https://sig.oreme.org:8443/geoserver/oreme/wms</a> 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

