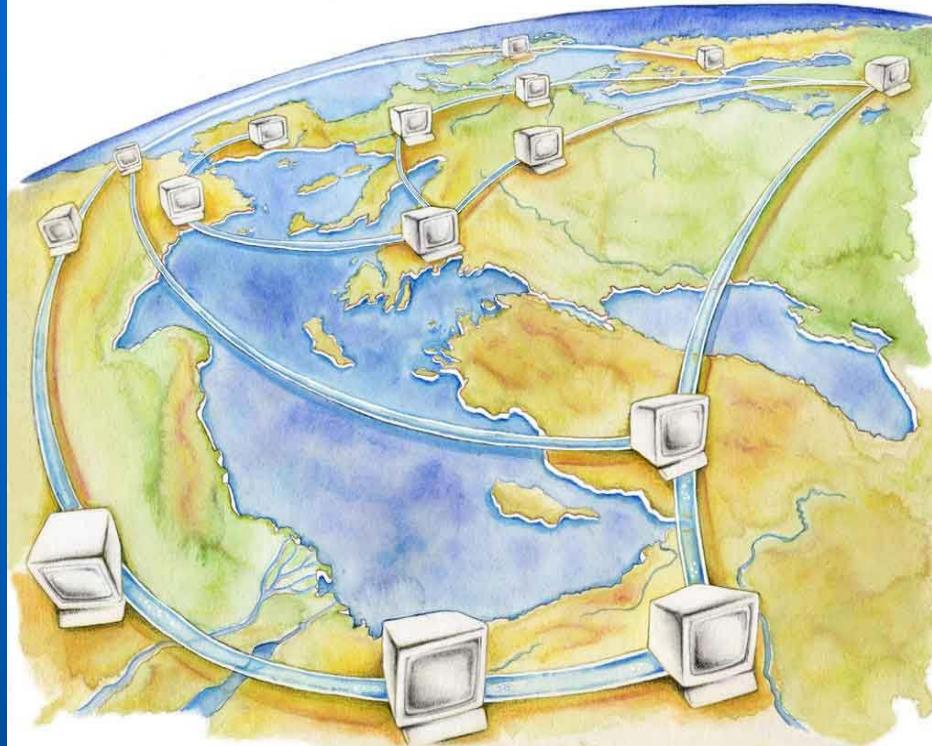


SEMIDE

www.semide.net

Système Euro-
Méditerranéen
d'information sur les
savoir-faire dans le
domaine de l'Eau



النظام المعلوماتي الأوروبي المتوسطي
للمعرفة في مجال المياه

A prototype catalogue for water
information discovery

Eric MINO



EMWIS

www.emwis.net

Euro-Mediterranean
Information System
on know how in the
water sector





Objective

- Declare and search for sources of data on the Mediterranean water sector.
- View, download data and access to data services are subject to the level of access defined by the data providers.



Purpose

- Use standards metadata for:
 - Register of dataset or services
 - Discovery services i.e. search for data/services
 - View, download services
- Focus on:
 - supporting water management (data and services sharing): use of standards categories
 - being compatible with EU technical recommendations: WISE & INSPIRE
 - interoperability (OGC and ISO standards) with spatial web services



Software package set-up

- all-in-one solutions for Spatial Data Infrastructure (catalogue, map server & map viewer, Transformation)
- easy to use with simple installation process
- multi-platforms support
- wide and free access (using Free & Open Source Software projects, documentation and guidelines)

**GeoNetwork
OpenSource**

← GeoServer REST API
for configuration →



Architecture



- Catalogue
- WMS service
- Harvesting
- Remote users





Discovery & visualization interface

- Discovery perspective

- Search form
- Search results
- Metadata visualization
- Tag clouds

- Visualization perspective

- Map navigation
- Layer management
- Legend
- Add layer from registered WMS in the catalogue



Discovery perspective

Mediterranean Water Information Datasource Catalogue [Discovery](#) [Visualization](#) username: [Login](#)

Full text search:

Restrict search to map extent



Options

Find Interactive Maps, GIS datasets, Satellite Imagery and Related Applications

Quick links

FRANCE Jordan Morocco Tunisia administrative boundary
environmental data hydrography intake use discharge
monitoring
water supply sanitation services

Discovery perspective



geo.semide.net/geonetwork/apps/search/#

Mediterranean Water Information Datasourc Discovery Visualization Administration Logout English

Full text search: None selected | Select: all in page , all , none Sort by Change date

Resource type: Medstat environmental data sets

Statistical data of the Mediterranean partner countries produced in the framework of the MEDSTAT II programme are freely accessible through the Eurostat's Reference Databases. The focus of this domain is on the following countries: * Algeria, E ... WATER QUANTITIES, EMISSIONS, MEDITERRANEAN PARTNER COUNTRIES

Restrict search to map extent



Physionomie de la couverture forestière du bassin du Sébou

Couverture forestière du bassin du Sébou ... MAROC

Springs In palestine

The ISO19115 metadata standard is the preferred metadata standard to use. If unsure

FRA X Metadata (uuid: 83bdd3d9-0305-479b-9e2a-b0b05c432136)

adm en hyd mo Ma

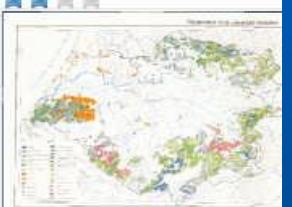


IDENTIFICATION INFO

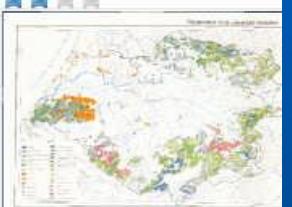
Title: Physionomie de la couverture forestière du bassin du Sébou
Publication: Date identifies when the resource was issued
Digital map: Map represented in raster or vector form
Couverte forestière du bassin du Sébou
On going: Data is continually being updated

Point of contact













View perspective

Mediterranean Water Information Datasource Catalog Discovery [Discovery](#) [Visualization](#) username Login English Help

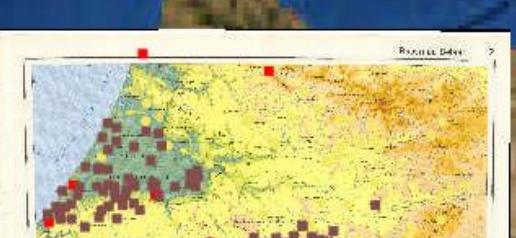
1 selected | Select: all , none

Carte de situation du bassin du Sébou 

MAROC  admin   

Groundwater stations (oued) on Sebu river basin 

Localisation des stations et paramètres ...
MAROC  admin   

Rainfall stations in the basin of Sebu 

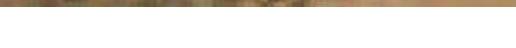
Localisation des stations et paramètres ...
MAROC  admin   

Climatological data on the basin of the Sebu 

Localisation des stations et paramètres ...
MAROC  admin   

Groundwater stations on Sebu river basin 

Localisation des stations et paramètres ...
MAROC  admin   

Site web de l'agence du bassin hydraulique du Sébou 

Site web de l'agence du bassin hydraulique du Sébou comportant d'importantes rubriques relatives à la gestion des ressources en eau, la gestion du domaine

Visualization 

WGS84 (lat/lon)

Layer tree

Base Layer

Overlays

- sebou_qualite_nappe
- sebou_climato
- sebou_pluvio
- bassin_sebou_wgs
- Metadata results

Legend

- sebou_qualite_nappe
- sebou_climato
- sebou_pluvio
- bassin_sebou_wgs
- Metadata results

Background layer

- Borders
- Coastline
- Other borders



Access remote services

None selected | Select: all in page , all , none

Add layer from a WMS service

Sort by Relevance

http://158.109.55.144/cgi-bin/wms?

Connect

Geoserver

Web Map Service.European Topic Centre on Land Use and覆蓋歐洲環境局(EEA)

WMS maintained by European Topic Centre on Land Use and覆蓋歐洲環境局(EEA). Services include information about Corine Land Cover reference datasets at European scale ...

WMS, EEA, UAB

Preview layer

The screenshot shows a GIS application window with a toolbar at the top. In the center, there's a tree view of a WMS service from a Geoserver. The service is identified as "Web Map Service.European Topic Centre on Land Use and覆蓋歐洲環境局(EEA)". The tree view lists several categories: "Erosion", "Biogeographical Regions", "EU Mountain Areas", "Green Urban Areas", "Urban Morphological Zones", "Green Background of Europe", "Dominant Landscape Types", "Reference Grids", "Elevation Breakdown", "Corine Land Cover", and "WISE". Under "WISE", two layers are listed: "WISE Main Rivers extracted from ECRINS Database" and "WISE Main Lakes", both of which are currently selected. A preview window on the right shows a map of Europe with numerous blue dots scattered across it, representing the locations of the selected WISE layers. At the bottom left, a status bar says "None selected | Select: all in page , all , none".



View remote services

GeoNetwork - The portal to spatial data and information - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://geo.semide.net/geonetwork/apps/search/#

Most Visited Water Scarcity Private ... HP templates & images Euro-Mediterranean In... Sedna Système Euro-Méditer... http://192.70.34.194:8081... EMWISSEMIDE Public ... p0154_1.pdf (Objet ap... GeoNetwork - The portal to spatial d...

Mediterranean Water Information Datasource Catalogue

Discovery Visualization username [REDACTED] Login English Help

None selected | Select: all in page , all , none Sort by Relevance

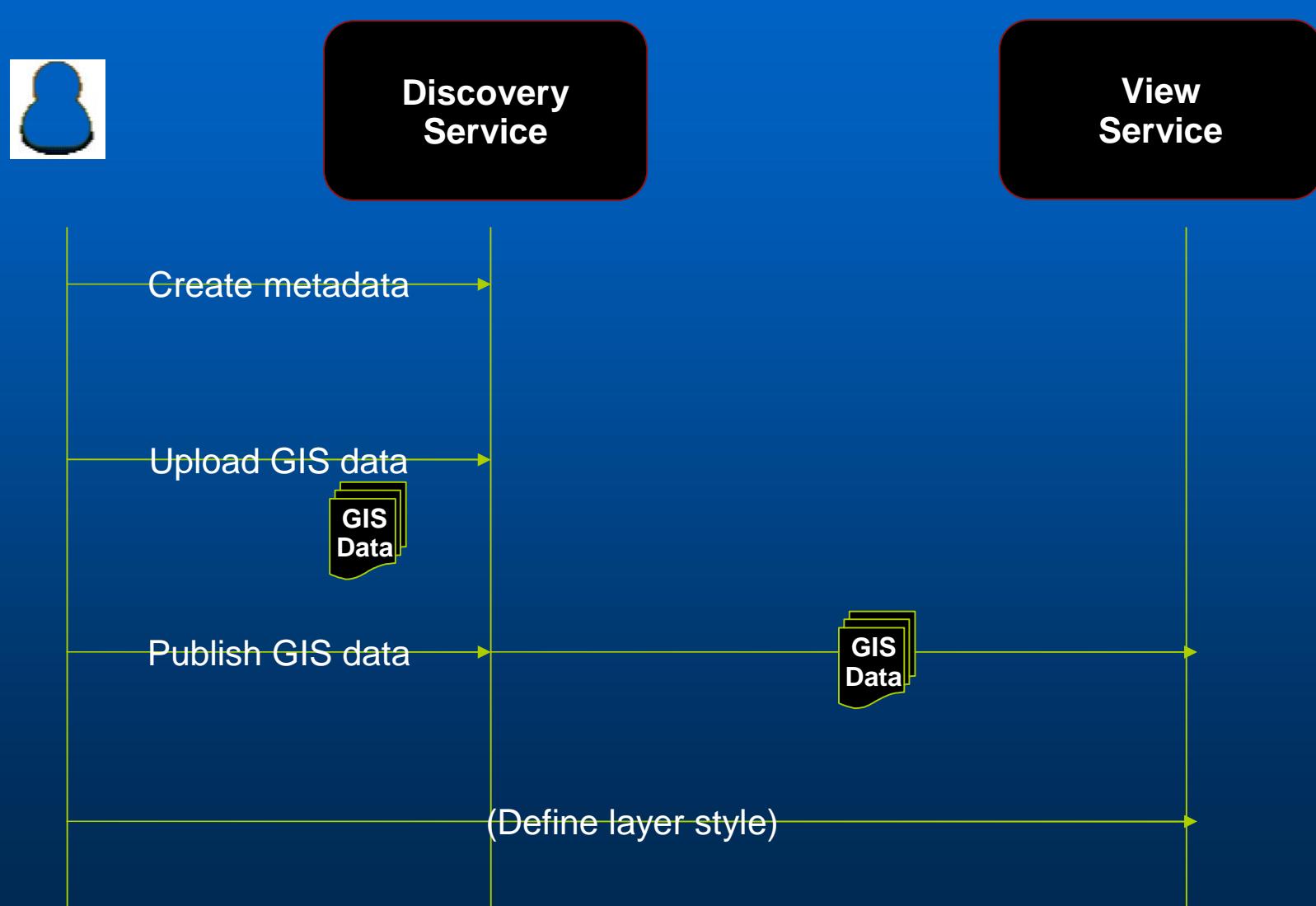
WGS84 (lat/lon)

Web Map Service.European Topic Centre on Land Use and Spatial Information.
European Environment Agency (EEA)
WMS maintained by European Topic Centre on Land Use and Spatial Information. This services includes information about Corine Land Cover at different resolutions among other reference datasets at European scale.
WMS, EEA, UAB

<< | >> | 1-1 result(s) / 1

Done

Publish metadata and data



Create metadata ... using a template



geo.semide.net/geonetwork/srv/en/metadata.update

Default view INSPIRE view By Package Metadata Identification Maintenance Constraints Spat. Info Ref. system Distribution Data quality App. schema Catalog Content Info Ext. Info XML view

Reset Save Save and close Check Other actions Cancel

No preview available

IDENTIFICATION

Title * Datasource and dataset registry English ▾

Abstract *

Hierarchy level + Scope code (gmd:MD_ScopeCode) ▾

Distribution format +

Name * ## xls, csv, shapefile, report, etc. ## English ▾

Version * ## version of the format define above English ▾

Amendment number +
Specification +
File decompression technique +
Format distributor +

OnLine resource +

OnLine resource

URL * [redacted]

Protocol Web address (URL)

Application profile +

Name of the resource

- Error validation report (including INSPIRE rules) and highlighter
- Compute extent from keyword analysis
- Suggestion list and thesaurus (eg. GEMET)
- Parent/child relationship link
- ...



Restricting access

GeoNetwork - The portal to spatial ... × GeoNetwork - The portal to spati... ×

Mediterranean Water Information Datasource Catalogue

Discovery Visualization Administration

Full text search: Sort by

Resource type:

Restrict search to map extent

None selected | Select: all in page , all , none

Site web de l'agence du bassin hydraulique du Sebou comportant d'importantes rubriques relatives à la gestion des ressources en eau, la gestion du domaine public hydraulique et un volet cartographique. HYDROGRAPHY, MONITORING, MOROCCO

Groundwater stations (oued) on Sebu river basin
Localisation des stations et paramètres ...
MAROC

Rainfall stations
Localisation des stations et paramètres ...
MAROC

Climatological stations
Localisation des stations et paramètres ...
MAROC

Groundwater stations on Sebu river basin
Localisation des stations et paramètres ...
MAROC

MAROC Maroc Morocco hydrography monitoring



Privileges setting

- Limiting metadata access
- Restricting data access

GeoNetwork - The portal to spatial ... > GeoNetwork - The portal to spati... > +

Mediterranean Water Information Datas

Set privileges

Groups	Publish	Download	Interactive Map	Featured	Editing	Notify		
All	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="button" value="Set All"/>	<input type="button" value="Clear All"/>
Intranet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="button" value="Set All"/>	<input type="button" value="Clear All"/>
Guest	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="button" value="Set All"/>	<input type="button" value="Clear All"/>
<All (Internet)>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Set All"/>	<input type="button" value="Clear All"/>
Sample group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="Set All"/>	<input type="button" value="Clear All"/>

Submit

Full text search: sebou

Resource type:

Restrict search to map extent

Map showing the Mediterranean region with a yellow box highlighting a specific area.

Options

Search



Thank you

Screenshot of the GeoNetwork interface showing search results for "jordan".

The interface includes:

- Search bar: Full text search: jordan
- Resource type dropdown
- Map view: Shows a map of the Mediterranean region with a zoomed-in view of Jordan.
- Search filters: None selected | Select: all in page, all, none
- Sort by: Relevance
- Results:
 - WELLS SHAPEFILE**: Contains wells in Jordan, available in JTM coordinates. Rating: 5 stars.
 - IRRIGATION CENTERS SHAPEFILE**: Contains center points of irrigation areas in Jordan, available in JTM coordinates. Rating: 5 stars.
 - SPRINGS SHAPEFILES**: Contains spring locations in Jordan, available in JTM coordinates. Rating: 5 stars.
- Footer: Options, Search, and administrative links for Jordan (Frontière administrative, User polluter, etc.).

<http://geo.semide.net/geonetwork>