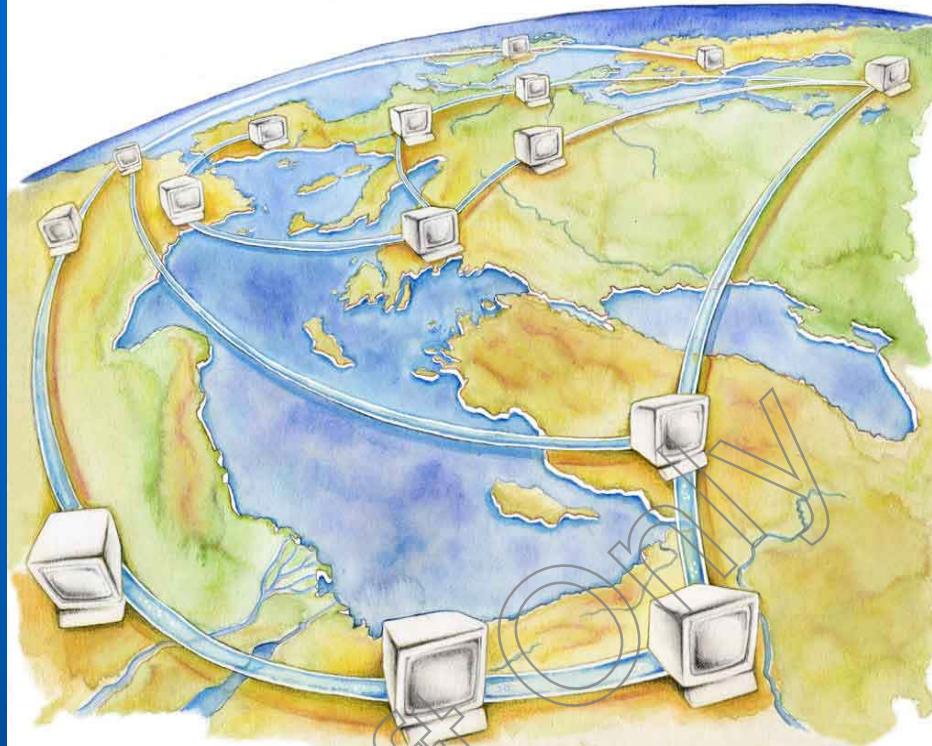


SEMIDE

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

Towards a mediterranean water data
portal and related tools

Eric MINO



DG ENV



EMWIS

www.emwis.net

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



EURO-MEDITERRANEAN PARTNERSHIP

MedWis homepage under construction

[home](#) | [logout](#) | [admin](#)[WISE](#) | [EMWIS portal](#) | [Sitemap](#) | [Search](#)[National level](#)[Regional level](#)[Tools and guidance](#)[Themes](#)

Mediterranean Water Data

or more commonly known as Med-WIS - is your gateway to existing information on inland water issues in the Mediterranean area. It also provides guidance and tools on data management for non EU countries. For European countries, data is provided by WISE.

[about Med-WIS](#)

Welcome to the Mediterranean Water Data portal

This portal is provides useful hints to help Mediterranean countries in setting up Shared National Water Information Systems compatible with European standards namely the INSPIRE implementation rules on spatial information, technical guidelines from the Water Information System for Europe -WISE-In ensuring these compatibility recommendations, systems will also be inline with the latest International standards.
It also provides a discovery service to search for existing datasets, sources of data and geographical layers. Visualisation services are also provided according to access rights.

Latest news from EMWIS

- The European Environmental Bureau (EEB) is looking for a Secretary General
- Water shortage forces Syria villagers into cities
- IDE desalination seminar trains Jordanians and Palestinians



Portal Content

- **Themes**
 - Maps, datasets, reports**
 - Water scarcity and drought**
 - Water quality monitoring**
- **Tools and guidance**
 - Generic conceptual data model**
 - Interoperability technical guidelines**
 - Case studies**
 - Geo-catalogue and web map viewer installation pack**
- **Regional level**
 - Actors involved in data management at Med level**
 - Metadata catalogue**
 - Access to Mediterranean level external indicators**



National level

[home](#) | [login](#)[WISE](#) | [EMWIS portal](#) | [Sitemap](#) | [Search](#)

National level Regional level Tools and guidance Themes

[Mediterranean Water Data](#) » [National level](#) » [Mediterranean partners](#) » [Tunisia](#)

Countries**European Union**

- Austria
- Belgium
- Cyprus
- Czech Republic
- Denmark
- Estonia
- Finland
- France
- Germany
- Greece
- Hungary

Mediterranean partners

- Tunisia
- Egypt
- Israel
- Jordan
- Lebanon
- Morocco
- Palestine

Tunisia

See more detailed country information on the [SEMIDE website](#)

- [Data sources](#)
- [Reporting obligations](#)

Draft online



Reporting obligations

http://192.168.1.4/medwis/show_country_obligations?country=Palestinian Territory

Scarcity Private ... HP templates & images Euro-Mediterranean In... Sedna Système Euro-Méditerran... http://192.70.34.1948081... EMWISSEMIDE Public ... p01om... 10th NFP Coordination Se... Mediterranean Water Infor... Mediterranean Water Data - Mediterranean Water Data - Mediterranean

home | login WISE | EMWIS portal | Sitemap | Search

National level Regional level Tools and guidance Themes

Mediterranean Water Data

Obligations per country

Reporting obligation

Biennial general report, and report on the implementation of the Convention for the Protection of the Mediterranean Environment and the Coastal Region of the Mediterranean

National Report on the technical implementation of the Dumping Protocol

Report on the disposal of wastes or other matter in terms of Articles 4, 5, 6, 8 and 9.

National Report on the technical implementation of the Hazardous Wastes Protocol

National Report on the technical implementation of the Land-based Sources Protocol

National Report on the technical implementation of the Offshore Protocol

National Report on the technical implementation of the Prevention and Emergency Protocol

National Report on the technical implementation of the SPA & Biodiversity Protocol

Legislative instrument

Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean

Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean

Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean

Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean

Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean

Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean

Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean

Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean

Report to

MAP n/a 2011-12-31

Next reporting

Deadline

A remote web service from EEA

SEMIDE
EMWIS

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

WISE
Water Information System for Europe

European Commission



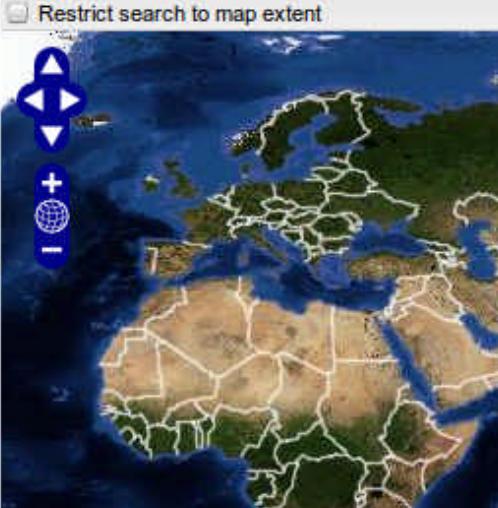
Discovery and view

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



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

Legend:
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



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

Mediterranean Water Information Datasour Discovery

Full text search: Resource type:
 Restrict search to map extent

None selected | Select: all in page , all , none . Sort by Change date

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

Physionomie de la couverture forestière du bassin du Sébou
Couverte forestière du bassin du Sébou MAROC

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

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

adm en hyd mc 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
Abstract: Couverte forestière du bassin du Sébou
Status: On going: Data is continually being updated

Point of contact



View perspective

Mediterranean Water Information Datasource Catalog Discovery

Visualization username: Login English Help

1 selected | Select: all , none

Carte de situation du bassin du Sébou

MAROC
admin
view

Groundwater stations (oued) on Sebu river basin

Localisation des stations et paramètres ...
MAROC
admin
view

Rainfall stations in the basin of Sebu

Localisation des stations et paramètres ...
MAROC
admin
view

Climatological data on the basin of the Sebu

Localisation des stations et paramètres ...
MAROC
admin
view

Groundwater stations on Sebu river basin

Localisation des stations et paramètres ...
MAROC
admin
view

Site web de l'agence du bassin hydraulique du Sebou

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

Draft Only

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

The interface is a web-based GIS application for viewing hydrological data. It includes a left sidebar with links to various datasets (e.g., groundwater stations, rainfall stations, climatological data) and their locations. The main area features a large map of the Sebou river basin with several data layers overlaid, including groundwater quality, climate, and rainfall. A legend on the right side defines the symbols for these layers. A 'Background layer' section at the bottom includes options for borders, coastline, and other borders.



View perspective

Screenshot of a web browser displaying the Mediterranean Water Information Datasource Catalogue (GeoNetwork) interface.

The URL in the address bar is <http://geo.semide.net/geonetwork/apps/search/#>.

The page title is "Mediterranean Water Information Datasource Catalogue".

The main content area shows search results for "Springs in palestine".

Details for the first result:

- Spring in palestine**: ISO19115 metadata standard.
- Description: The ISO19115 metadata standard is the preferred metadata standard to use. If unsure what templates to start with, use this one. ...
- Keywords: PALESTINE
- Thumbnail image: A small satellite image of a green, irregular area.

On the right side of the screen, there is a map visualization of the Middle East region, specifically focusing on the Jordan River basin and the Dead Sea area. A red polygonal shape highlights a specific location in the northern part of the Jordan River valley. The map includes various geographical features like rivers, lakes, and political boundaries. A scale bar indicates 100 mi and a coordinate reference of 1 : 8719495.



Access remote services

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

Web Map Service.European Topic Centre on Land Use and覆蓋範圍
European Environment Agency (EEA)
WMS maintained by European Topic Centre on Land Use and
services includes information about Corine Land Cover
reference datasets at European scale...
WMS, EEA, UAB

Add layer from a WMS service
http://158.109.55.144/cgi-bin/wms?
Sort by Relevance

Geoserver

- Web Map Service.European Topic Centre on Land Use and
 - 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
 - WISE
 - WISE Main Rivers extracted from ECRINS Database
 - WISE Main Lakes
 - Hydrography
 - WPS results
 - Noise

Preview layer





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://192.70.34.1948081s... EMWISSEMIDE Public ... p0154_1.pdf (Objet ap... >>

GeoNetwork - The portal to spatial d...

Mediterranean Water Information Datasource Catalogue

Discovery Visualization

username: Login

English Help

Draft

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 service includes information about Corine Land Cover at different resolutions among other reference datasets at European scale.

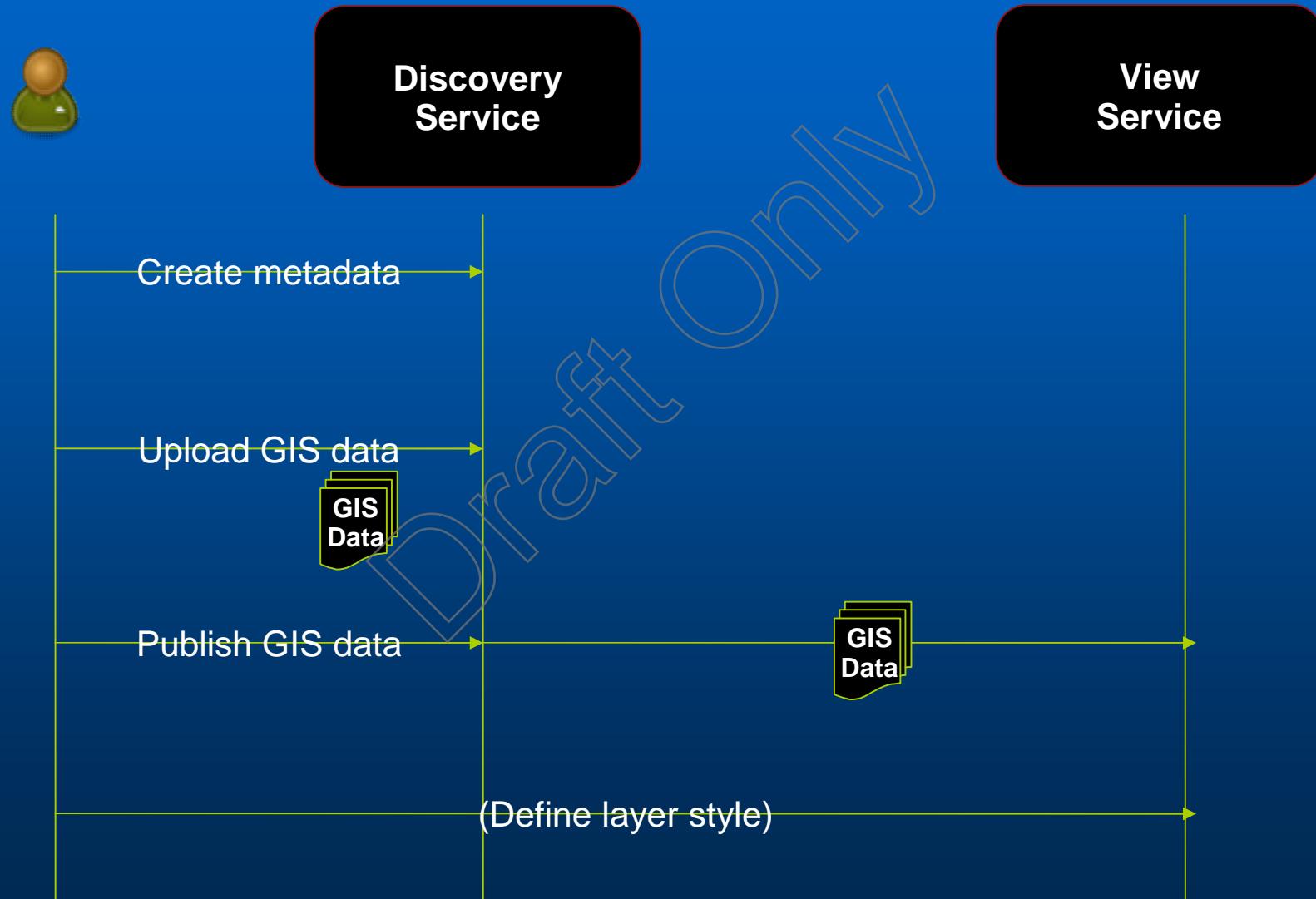
WMS, EEA, UAB

1000 mi 1 : 69755965

<< | >> | 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 * Web address (URL)

Protocol

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

Options

MAROC Maroc Morocco hydrography monitoring

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

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

Type: Rainfall station
Localisation des stations et paramètres ...
MAROC

Type: Climatology
Localisation des stations et paramètres ...
MAROC

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

sebu
s...
Edit
Delete
Other actions ▾
Duplicate
Create child
Privileges
Categories

View
Zoom to
Save as XML



Privileges setting

- Limiting metadata access
- Restricting data access

Draft only

The screenshot shows the GeoNetwork interface for managing privileges. On the left, there's a search bar with 'sebou' in the full text search field and a map of Europe with a yellow box highlighting the Mediterranean region. The main window is titled 'Set privileges' and lists groups: All, Intranet, Guest, <All (Internet)>, and Sample group. For each group, checkboxes are provided for Publish, Download, Interactive Map, Featured, Editing, and Notify. Buttons for 'Set All' and 'Clear All' are available for each row. A large watermark 'Draft only' is diagonally across the page.

| Groups | Publish | Download | Interactive Map | Featured | Editing | Notify | Set All | Clear All |
|------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--|--|
| 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"/> |



Thank you

Draft online

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

Most Visited Water Scarcity Private ... HP templates & images Euro-Mediterranean In... Sedna Système Euro-Méditerr... http://192.70.34.1948081s... EMWISSEMIDE Public ... p0154_1.pdf (Objet ap... »

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

Mediterranean Water Information Datasource Catalogue

Discovery Visualization Administration Logout English Help

Full text search: jordan

Resource type:

Restrict search to map extent

Map showing the location of Jordan in the Mediterranean region.

None selected | Select all in page, all, none

Sort by Relevance

WELLS SHAPEFILE

This shapefile contains the wells in Jordan. It is a point shapefile available in JTM coordinates ...
USER POLLUTER, MONITORING, GROUNDWATER, JORDAN

IRRIGATION CENTERS SHAPEFILE

This shapefile contains the center points of irrigation areas in Jordan. It is a point shapefile and available in JTM coordinates ...
USER POLLUTER, JORDAN

SPRINGS SHAPEFILES

This shapefile contains the springs locations in Jordan. It is a point shapefile and available in JTM coordinates ...
HYDROGRAPHY, JORDAN

Frontière administrative Jordan User polluter

administrative boundary environmental data groundwater hydrography intake use discharge monitoring water supply sanitation services

5 stars

5 stars

5 stars

http://geo.semide.net/geonetwork