



Knowledge Inventory for hydrogeology research



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REDIAM

Environmental Information Network of Andalusia

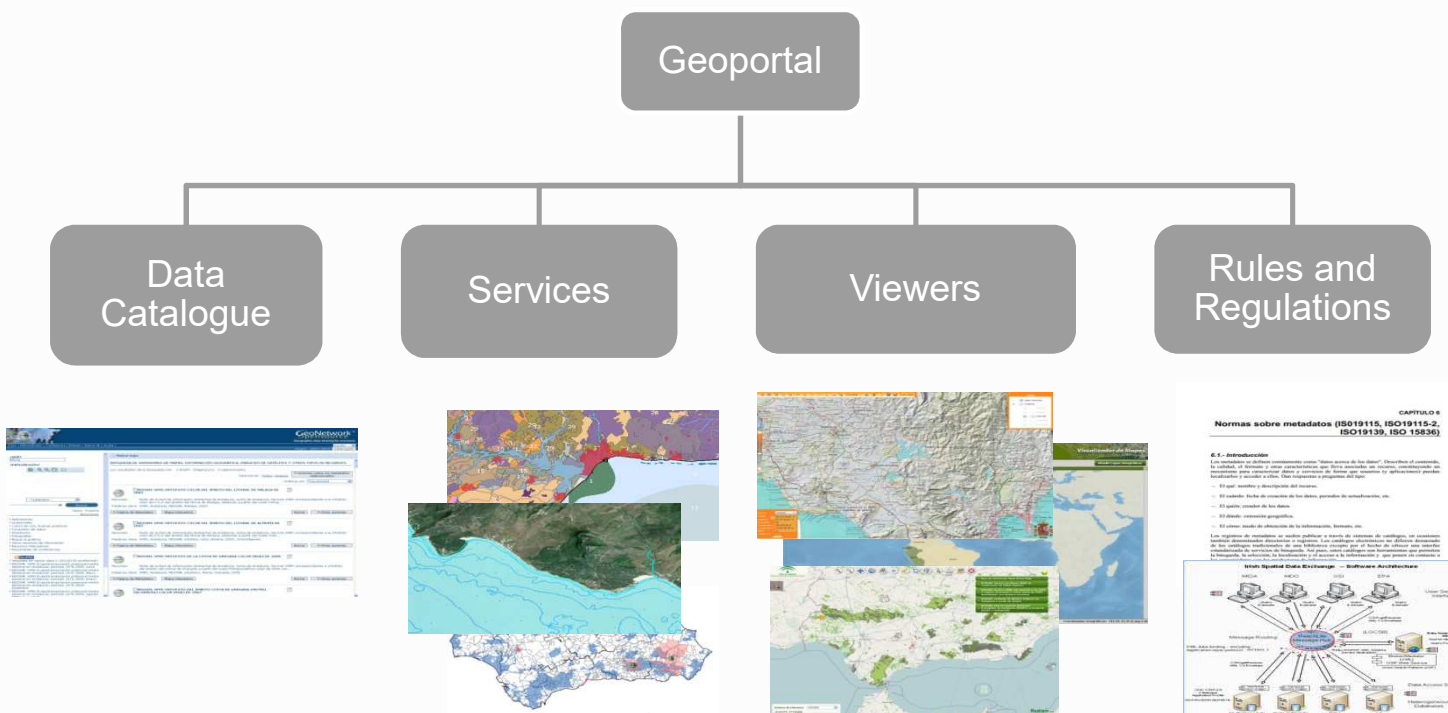
European Inventory on
Groundwater Research
“EIGR”

Concepts

Now that the European hydrogeological information has been identified, we must proceed to define how the information will be stored. KINDRA has opted to do so by creating a Geoportal

According to the INSPIRE Directive:

Geoportal → Internet Site, or equivalent, with access to spatial data services



Geonetwork Open Source Platform (<http://geonetwork-opensource.org/>)



a Geographical Information Catalogue that provides services for enquiring, locating and downloading Geographical Information

Its main advantage is its simplicity: an easy to use interface, based on OGC open standards making information web transfer alot easier.

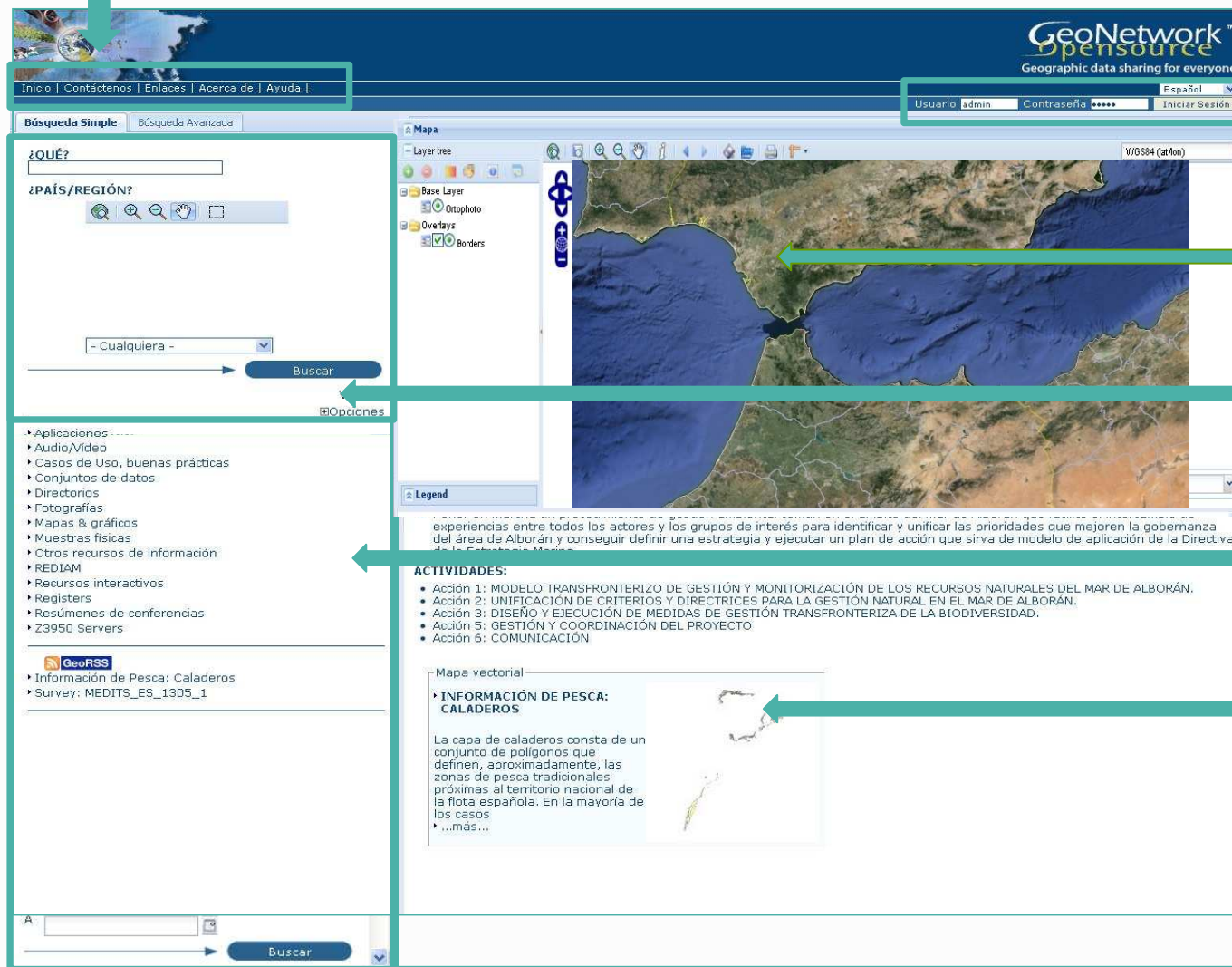
This makes working with decentralized catalogues, from different administrations and countries a plausible option.



Geonetwork Opensource is a project created and funded by the United Nations' Food and Agriculture Organization - FAO.

A quick overview of Geonetwork

Menu bar



User login and administration

Location Map

Simple Information Search Tool

Advanced Information Search Tool

Results Window

Data Catalogue

Repository of Metadata concerning Research and Knowledge linked to Groundwater Research through Europe since 2000.

The catalogue will store information according to the ISO 19139 Metadata template, adjusted to the specifications of the HRC-SYS.

It is the one most extended format on an international level and it complies with all the INSPIRE specifications, which are precisely the ones our catalogue must follow.

Metadata describe the contents, the quality, the format and other characteristics linked to specific resources allowing users to properly identify precise information and services available as well as on how to locate them.

Metadata

The purpose for creating metadata is to organize and maintain the information created as well as to promote the availability and the use of data.

Metadata provide the answers to Who, What, When, Where, Why and How by indicating:

- The title and overall description of the resources;
- The purpose of the resources and their usefulness;
- The date of creation of resource and, whenever applicable, the update process it is subject to;
- The geographical extension of the resource;
- The owner of the resource;
- The criteria and constraints, or restrictions, that applies to their use and exploitation;
- The quality of the resource.

!!!!!!VERY IMPORTANT!!!!



The information inserted in the EIGR must be as complete as possible.

This will allow the search engines and future user consultations to carry out thorough information analysis.

The EIGR will serve as a repository of this knowledge, and as a tool that will allow for queries and searches by selecting keywords, generating statistics, diagrams and other functions to help support the exploitation of the catalogued information.

European Inventory on Groundwater Research: EIGR

English


[Home](#)
[Catalog](#)
[Map](#)
[About](#)

☐ Online data
☐ Data for download
☐ No direct download

The KINDRA European Inventory on Groundwater Research (EIGR) is a tool for inventorying information sources regarding Hydrogeological Research Knowledge and Information. It follows the principles defined by the KINDRA project Harmonised Terminology and Methodology for classification and reporting hydrogeology related research in Europe (HRC-SYS). During 2016, National Experts identified by the European Federation of Geologists will populate the EIGR with resources related and relevant to KINDRA. From the work carried out, additional tools will be developed in order to properly exploit the information uploaded into the EIGR so as to support KINDRA in identifying TRENDS and/or GAPS in Groundwater Research. For more details visit Kindra Project Web


TAGS

LATEST




REDIAM: Groundwater in the...

This paper is mainly an updated version of an article by Her...



GEO.POWER

GEO.POWER project is part funded by the Interreg IVC Program...



USAPIENZA: GROUNDWATER...

This paper is mainly an updated version of an article by Her...

European Inventory on Groundwater Research: EIGR

The inclusion of resources into the EIGR is carried out by completing a number of fields included in the EIGR Metadata template

The EIGR Metadata template is divided into four Main Sections:

- RESOURCE IDENTIFICATION INFORMATION
- DISTRIBUTION INFORMATION
- DATA QUALITY INFORMATION
- METADATA INFORMATION

RESOURCE IDENTIFICATION INFORMATION

The title, acronym (when applicable), abstract, the authors and their contact details.

Collaborating organizations and/or programs, funding sources and amount.

Geographical extent covered as well as other relevant identification details (e.g. ISBN, ISSN) and if there are any existing legal constraints related to the resource.

In this section is where the HRC-SYS keywords and overarching categories (within Societal Challenges, Operational Actions and Research Topics) are defined for each resource.

Fields indicated by * are to be considered as mandatory

RESOURCE IDENTIFICATION INFORMATION

Title*: (Name by which the resource is known)

Alternative Title: (Acronym)

Date - creation*: (Reference date of creation of the resource)

IDENTIFICATION INFO

Data identification

Citation

Citation

Title*

Alternate title + x

Numerical assessment of effective evapotra English

AGWAT English

RESOURCE IDENTIFICATION INFORMATION

Series: (Information concerning the series or collection to which the resource belongs to.)

Name: (Name of the series or collection to which the resource belongs to.)

Issue identification: (Issue of the series or collection to which the resource belongs to.)

Page: (Details on which pages of the publication the resource was published.)

Collective title: (Title of the collective series or collection to which the resource belongs to.)

ISBN: (International Standard Book Number.)

ISSN: (International Standard Serial Number.)



The screenshot shows a web form with a blue sidebar on the left. The main content area has a header 'Series' with a dropdown arrow and a checkbox. Below this, there is a section titled 'Series' with a dropdown arrow and a checkbox. The form contains several input fields and dropdown menus:

- Name:** A text input field followed by a dropdown menu set to 'English'.
- (Suggestions:)** A text input field followed by a dropdown menu.
- Issue identification:** A text input field followed by a dropdown menu set to 'English'.
- Page:** A text input field.
- Other citation details:** A text input field followed by a dropdown menu set to 'English'.
- Collective title:** A text input field followed by a dropdown menu set to 'English'.
- ISBN:** A text input field.
- ISSN:** A text input field.

RESOURCE IDENTIFICATION INFORMATION

Abstract*: (a brief narrative summary of the content of the resource)

Purpose: (Purpose for which the resource was created)

Credit: (Recognition of the organizations or programs who contributed to the resource and/or are responsible for funding, amount of funding or total budget. The field may be included as many times as may be required according to the amount of existing organizations)

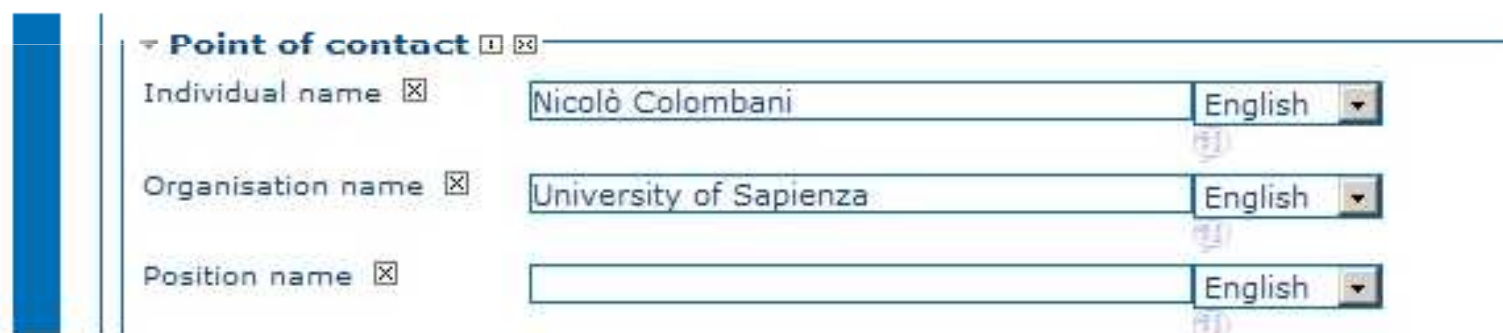
Abstract*	must be known with good accuracy: effective evapotranspiration and infiltration, especially in lowland areas where the run-off is minimal. Three different experimental plots cultivated with maize were equipped with tensiometers and soil moisture probes to monitor every day the water movement in the unsaturated zone. Other relevant parameters of the various soil layers, as	English
Purpose <input checked="" type="checkbox"/>	The main goal of this study were to assess whether simple approaches to calculate the PET, like Hargreves and Turk ones, can substitute complex ones like Penman-Monteith and to assess the	English
Credit <input checked="" type="checkbox"/>	The work was financially supported by AGRI-UNIFE and ENVIREN laboratory, respectively under Contratto di	English
Credit <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	Dr. Fabio Vincenzi Dr. Umberto Tessari and Dr. Corinne Corbau are acknowledged for their technical and	English
Credit <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	data and the Servizio Geologico Sismico e dei Suoli of Emilia-Romagna region is acknowledge	English

RESOURCE IDENTIFICATION INFORMATION

Point of contact: (Identification of the person and organization responsible of the resource)

Organization's name*:

Contact's position:

A screenshot of a web form titled "Point of contact" with a dropdown arrow, a help icon, and a delete icon. The form contains three rows of input fields. Each row has a label with a required field indicator (a box with an 'X'), a text input field, and a language dropdown menu set to "English".

Point of contact ⓘ ⓧ		
Individual name ⓘ	Nicolò Colombani	English ▼
Organisation name ⓘ	University of Sapienza	English ▼
Position name ⓘ		English ▼

RESOURCE IDENTIFICATION INFORMATION

Descriptive Keywords*: (The keyword value is a commonly used word, formalized word or phrase used to describe the subject. They help narrowing a full text search and allow for structured keyword search)

NOTE! Insertion of keyword is mandatory

▼

Descriptive keywords

+

×

Keyword *	Recharge	English
Keyword *	Unsaturated zone	English
Keyword *	Infiltration	English
Keyword *	Evapotranspiration	English
Keyword *	Groundwater recharge	English
Keyword *	Modeling	English
Keyword *	Soil	English
Keyword *	water flow	English

RESOURCE IDENTIFICATION INFORMATION

Resource constraints: (Provides information about constraints that apply to the resources)

Legal constraints: (Restrictions and legal prerequisites for accessing and using the resource or metadata)

Use limitations: (Limitation affecting the fitness for use of the resource, for example if it is not apt to be employed for further research efforts due to specific conditions)

Access constraints: (Restrictions to assure the protection of privacy or intellectual property, and any special restrictions or limitations on obtaining the resource: License, Patent, Pending Patent, restricted, Trademark, Copyright)

Use constraints: (Restrictions to assure the protection of privacy or intellectual property, and any special restrictions or limitations on using the resource: License, Patent, Pending Patent, restricted, Trademark, Copyright)

Other constraints: (Other constraints or legal prerequisites for accessing and using the resource)



The screenshot shows a web form titled "Resource constraints" with a sidebar on the left containing expandable sections: "Legal constraints", "Use limitation", "Access constraints", "Use constraints", and "Other constraints". The main content area displays details for the "Legal constraints" section, which is currently expanded. It includes a language dropdown set to "English", a section for "Intellectual property rights" with two dropdown menus, and a text area for "Limited access publication from Elsevier by subscribers or pay per view." with a language dropdown set to "English".

RESOURCE IDENTIFICATION INFORMATION

Topic categories*: These are the overarching categories defined by the HRC-SYS: Societal Challenges (SCs), Operational Actions (OAs) and Research Topics (RTs). It is mandatory to classify the record individuating at least one main SC, one main OA and one main RT.

▶ Topic category ☒	
▼ Topic category ☒ ☒ ☒	
Topic category code *	<input type="text"/>
▼ Topic category ☒ ☒ ☒	
Topic category code *	<input type="text"/>
▼ Topic category ☒ ☒ ☒	
Topic category code *	<input type="text"/>

RESOURCE IDENTIFICATION INFORMATION

Extent: (Spatial reference of the resource)

Geographic Element: (The geographic component of the extent referring to the resource)


Geographic bounding box: This is the geographic position of the resource given as a bounding box where the following items can be specified:


West longitude:


East longitude:


North latitude:


South latitude:


Extent 


Extent 

Extent 


Description 


Geographic element 


Extent type code 


Geographic bounding box 

WGS 84 Google Mercator

North bound 

West bound 

East bound 

South bound 

12.11217

44.18778

12.55258

44.76558

13 82768, 44.77464

ROVATO

VERBAVA

CHOCOL

www.dem

www.dem

www.dem

Draw rectangle Clear

www.dem

DISTRIBUTION INFORMATION

This section indicate users the delivery or distribution methods available for the resource.

It describes if there are any online or physical distribution methods that exist for the resource.

Contents distributed online may be downloadable.

DISTRIBUTION INFORMATION

Online resource: (defines the online sources or link(s) from which the resource can be obtained)

Linkage: (Location (address) for online access using a Uniform Resource Locator (URL) address)

Protocol: (Connection protocol to be used)

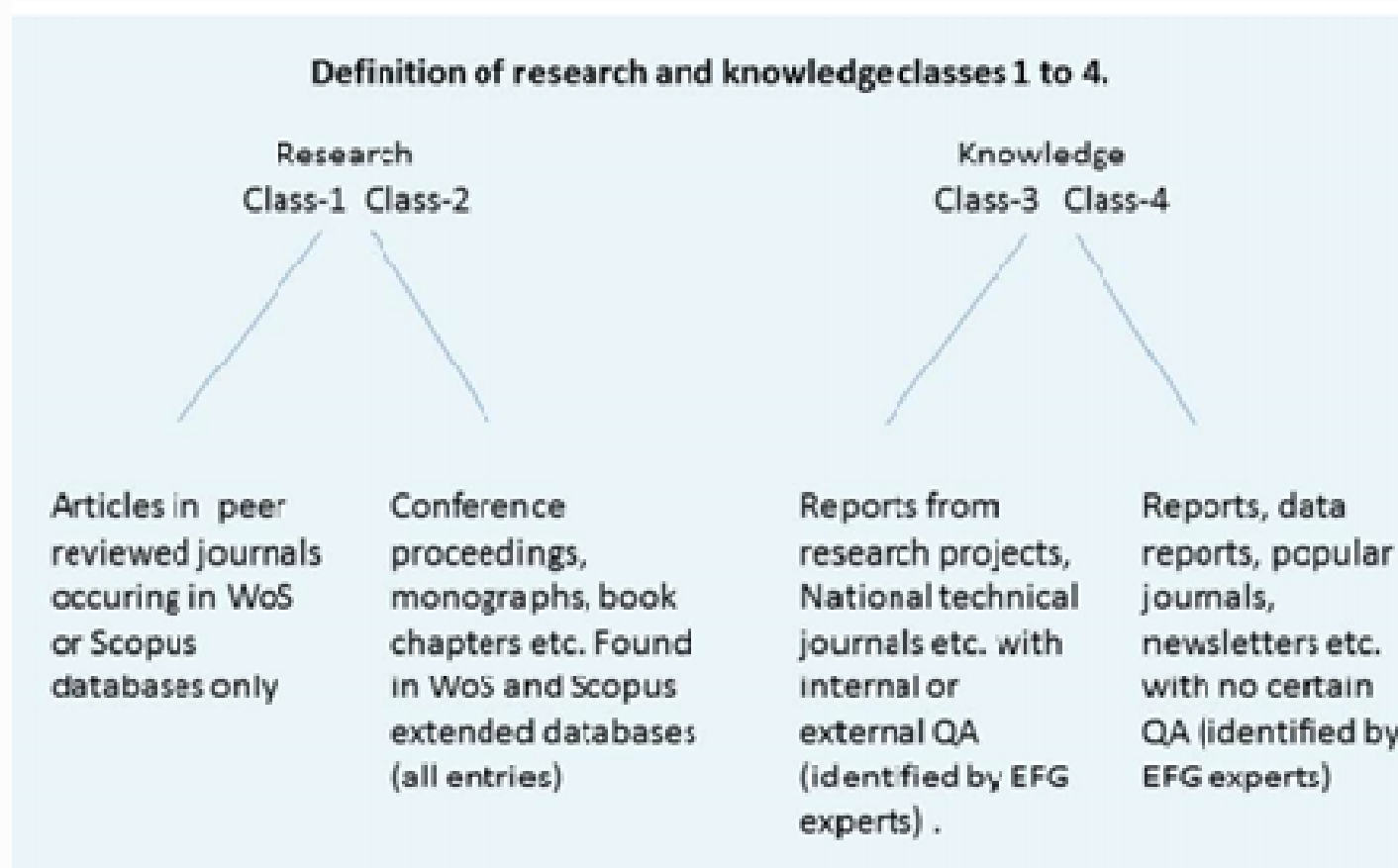
Name of the resource

Description: (Detailed text description of what the online resource is/does)

▼ OnLine resource	
▼ Linkage	
URL *	<input type="text" value="https://www.researchgate.net/publication/2"/>
Protocol	<input type="text" value="WWW:LINK-1.0-http--link"/> (Suggestions: <input type="text"/>)
Name of the resource	<input type="text" value="Numerical assessment of effective evapotra"/>
Description ⓘ	<input type="text" value="Made available as 'personal author copy before final publication' on Researchgate"/>
Online location:	<input type="text" value="English"/>

DATA QUALITY INFORMATION

Provides an overall assessment on the quality of the resources by classifying the work according to Research and Knowledge classes defined by KINDRA.



DATA QUALITY INFORMATION

Lineage: (Information about the events and procedures to which the resource was subject)

Statement: (generic description from the resource producer's knowledge concerning the lineage)

▼ Lineage

▼ Lineage

Statement

PEER REVIEWED

English

DATA QUALITY INFORMATION

Process step: (Information concerning a specific event in the creation process of the resource)

Description: (Detailed text description of the process step)

▼ Process step	
▼ Process step	
Description *	Review approval English
Rationale	
Date / Time	2010-04-07
Processor	
Source	
▼ Process step	
▼ Process step	
Description *	Publication English
Rationale	
Date / Time	2010-05-02
Processor	
Source	

DATA QUALITY INFORMATION

Source: (Information about the source data employed in creating the resource)

▼ Source + ✕

▼ Source

Description ✕

English

METADATA INFORMATION

Overall information concerning the metadata, i.e. about the people/organization who insert the record related to the research/knowledge product.

The interface provides the exact same fields and tags to be completed as in the Resource Identification Information.

Contact: (Identification of the party responsible for the metadata information)

Individual name*

Organization name*:

Position name: (Role or position of the responsible person)

Role: (Function performed by the responsible party)

Contact information: (Phone and/or Fax numbers)

Address: (Street, City, Administrative area, Postal code, Country)

E-mail address: |

Website:

Thank you very much!

Have a nice day!

