

I dati delle acque in Veneto

Seminario

Padova | 9 giugno 2015 | ore 9.30

Sala Paladin - Palazzo Moroni

I DATI DELLE ACQUE NEL MONDO

Panoramica della disponibilità internazionale

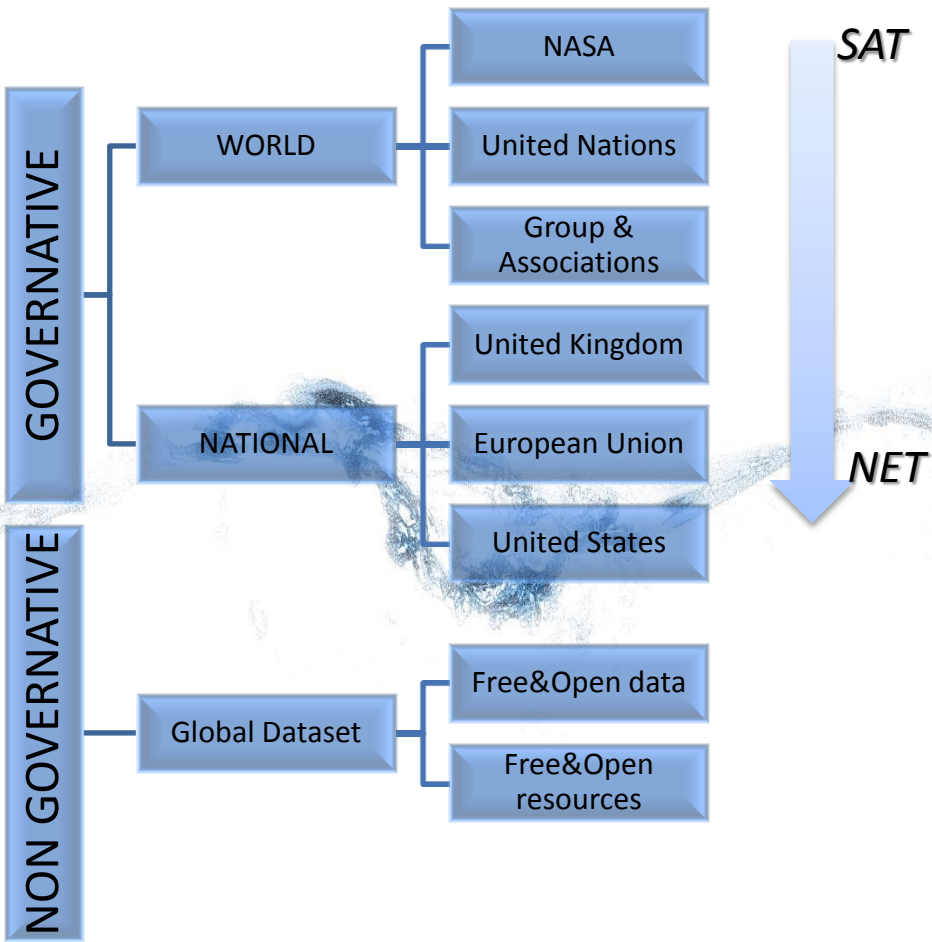
Niccolò Iandelli



STRUTTURA

Panoramica sulla disponibilità a livello **internazionale** di **dati** sulle acque, siano questi **quantitativi** che **qualitativi** e su come vengano **rilasciati** e **pubblicati**.

FILISOFIA DI SCELTA



CRITERI DI SELEZIONE

Facilità di accesso al dataset



Opendata e dati liberamente scaricabili

Maggior grado di **disaggregazione** disponibile



Supporto nell' **uso, interpretazione e elaborazione** dei dataset
rilasciati, metadati.



Disponibilità di dataset **spaziali e georiferiti**

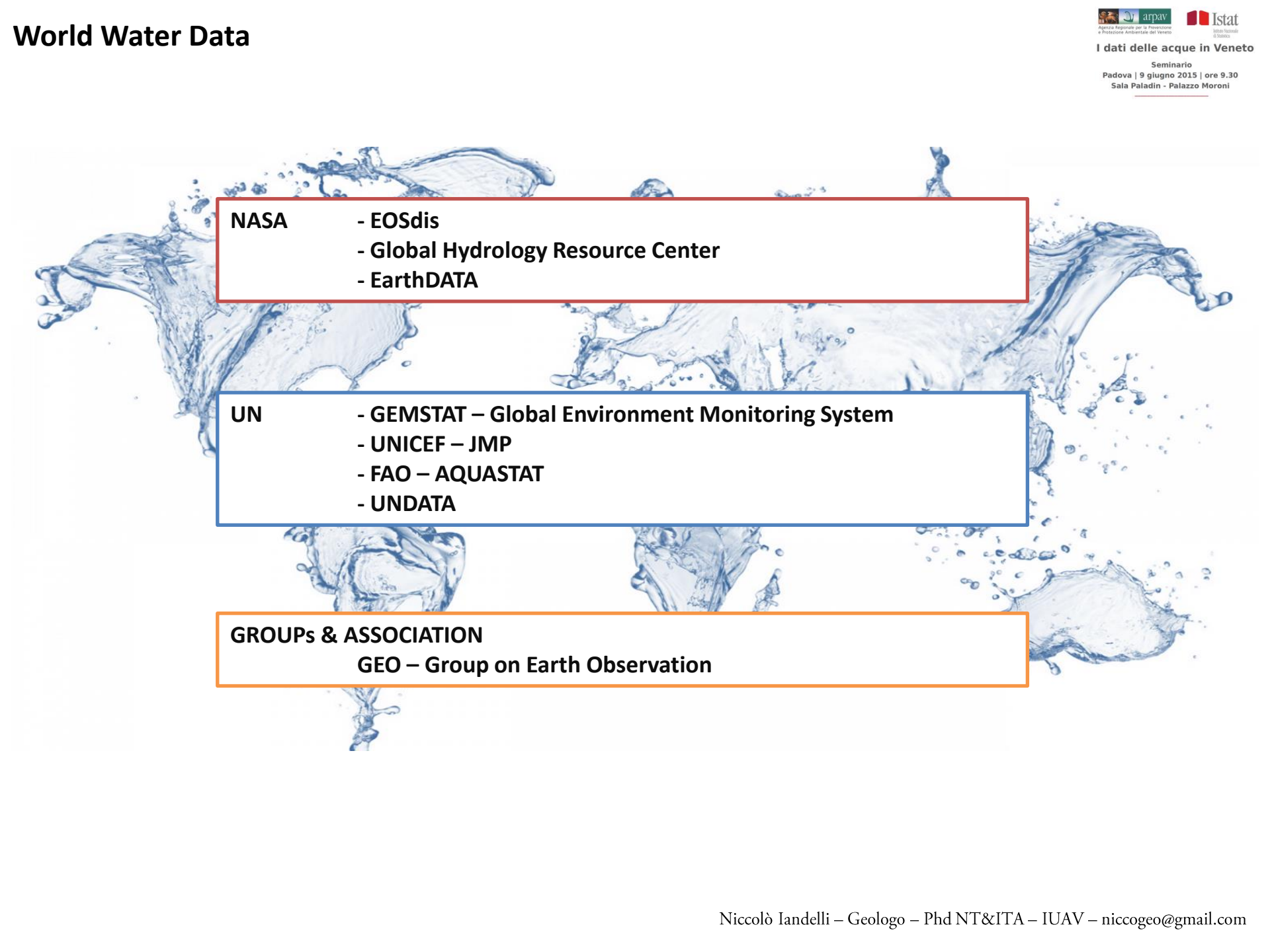


Tempo di selezione... **limitato !**



WORLD





NASA

- EOSdis
- Global Hydrology Resource Center
- EarthDATA

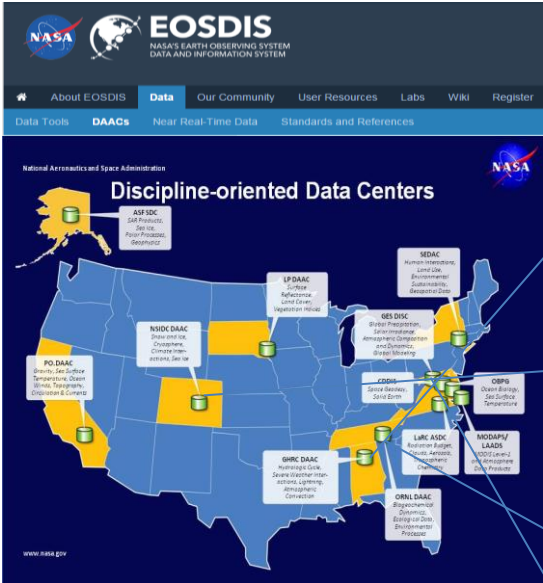
UN

- GEMSTAT – Global Environment Monitoring System
- UNICEF – JMP
- FAO – AQUASTAT
- UNDATA

GROUPs & ASSOCIATION

GEO – Group on Earth Observation

Earth Observing System
Data and Information System



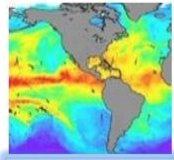
Catalogo **dati a copertura globale**
provenienti dai «DAACs – Distributed
Active Archive Centers».
I dati afferenti a diversi progetti
provengono da **piattaforme satellitari,**
aeree e reti di monitoraggio automatiche
e manuali.

NASA DATA CENTERS sul tema ACQUA

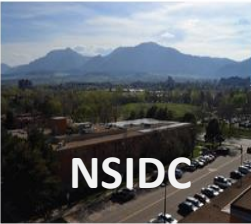


GHRC

- Global Hydrology Resource Center (GHRC)
 - Hydrologic Cycle
 - Severe Weather Interactions
 - Lightning
 - Atmospheric Convection

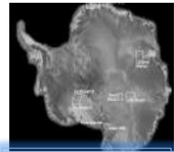


Get Data



NSIDC

- National Snow and Ice Data Center (NSIDC) DAAC
 - Snow
 - Sea Ice
 - Glaciers
 - Ice Sheets
 - Frozen Ground
 - Soil Moisture
 - Cryosphere



Get Data



ORNL

- Oak Ridge National Laboratory (ORNL) DAAC
 - Biogeochemical Dynamics
 - Ecological Data
 - Environmental Processes



Get Data



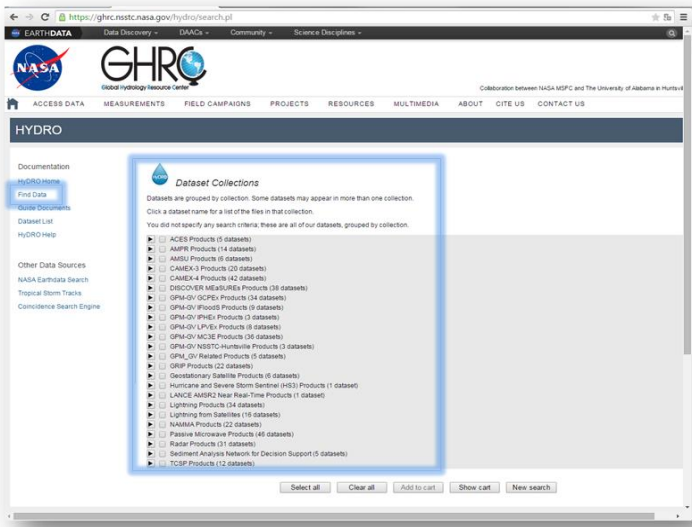
GES

- Goddard Earth Sciences Data and Information Services Center (GES DISC)
 - Atmospheric Composition and Dynamics
 - Global Precipitation
 - Water and Energy Cycle
 - Solar Irradiance
 - Global Modeling



Get Data

Link:
<https://earthdata.nasa.gov/about/daacs>



DATASET LIST (309) dataset

Ricerca personalizzata per:

- 1. Parametro
- 2. Strumentazione
- 3. Piattaforma
- 4. Progetto
- 5. Collezione
- 6. Dataset
- 7. Area di Interesse
- 8. Intervallo temporale

HyDRO - Search for Hydrology Data

Ricerca per parola chiave

Quick Search: Keyword (You may use Unix wildcards/ and ?) Context: Any field Go

Advanced Search

If you wish to select datasets based on more complex search criteria, complete some or all of the search criteria below. You may select multiple values (Mac) down while clicking on your selections.

Select only: ☐ Online datasets (only a recent portion may be online) ☐ Datasets with browse

Parameters: ABSORPTION, AEROSOL BACKSCATTER, AEROSOL EXTINCTION, AEROSOL FORWARD SCATTER, AEROSOL OPTICAL DEPTH/THICKNESS

Instruments: 2DC, 2DVD, ACCELEROMETER, ADMIRARI, AERI

Platforms: AEROSONDE, AIRCRAFT, ALTUS, AQUA, AVAPS

Projects: ACES, C3VP, CAMEX-1, CAMEX-2, CAMEX-3

Collections: ACES Products, AMPR Products, AMSU Products, CAMEX-3 Products, CAMEX-4 Products

Datasets: ACES Continuous Data, ACES Electric Field Mill, ACES Log Data, ACES Timing Data, ACES Triggered Data

Area of Interest: North, 90, West -180, 180, East, -90, South

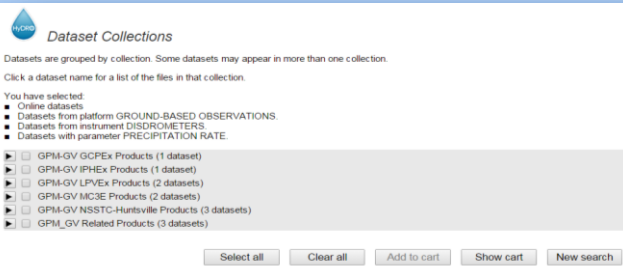
Date Range: From: yyyy-mm-dd or yyyy/ddd Thru: yyyy-mm-dd or yyyy/ddd

Ricerca

308 datasets meet these search criteria

Reset Criteria List Datasets Show chart

Link:
<https://ghrc.nsstc.nasa.gov/home/hydro>

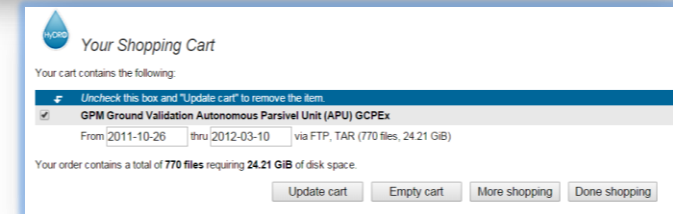
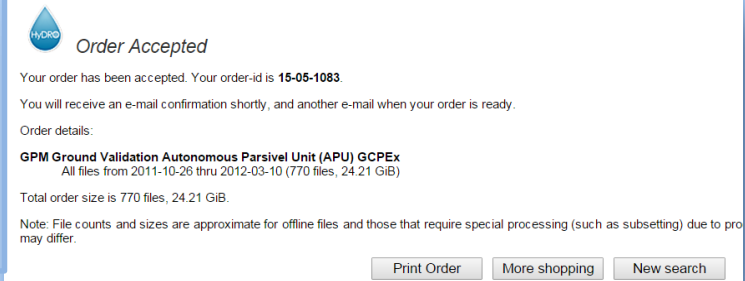


1 – Riepilogo della ricerca:

- Database online
- Piattaforma: Osservazioni a terra
- Disdrometri
- Intensità di precipitazione

2 – Elenco dei dataset che rispondono ai criteri di scelta, selezione o esplorazione dei dettagli.

- ### 3 – Conferma dell'Ordine
- Ordine ID (15-05-1083)
 - Dataset scelto (GPM...)
 - Intervallo temporale
 - Totale n° file e Quantità (770 files, 21 GB)



- ### 4 – Download
- Registrazione o log in
 - Download

NASA DATA ARE NOT COPYRIGHTED; however, when you publish our **DATA OR RESULTS DERIVED FROM THEM**, we **REQUEST** that you include an **ACKNOWLEDGMENT** within the text of the publication and reference list.

Many datasets require registration[...]Some datasets are restricted; that is, they can only be **delivered to certain groups.[...]**Anyone can place an order for **a restricted dataset**; however your **eligibility to receive the data** must be **verified** by our User Services Office prior to shipment. **A very few of our datasets are not available for FTP** staging. This is noted when you check out. In this case, **you must provide us with a mailing address for delivery.**



Link:

<https://ghrc.nsstc.nasa.gov/hydro/help/search.html>



Discover Earth Science Data
 Search NASA Earth Science data by keyword and filter by **time** or **space**.

Type any topic or dataset name

Temporal Spatial

Browse All Data See featured datasets or use categories to narrow your results.

Welcome to Earthdata Search
 Enter your search terms or click **Next** to take an introductory tour.
 End Tour Next

Discover Earth Science Data

Search NASA Earth Science data by keyword and filter by **time** or **space**.

Type any topic or dataset name

Temporal Spatial

Browse All Data See featured datasets or use categories to narrow your results.

Browse Datasets

Report a metadata problem

- Features
- Archive center
- Project
- Platform
- Instrument
- Sensor
- 2D Coordinate Name
- Processing level
- Category Keyword
- Topic Keyword
- Term Keyword

1199 Matching Datasets

Add datasets to your project to compare and retrieve their data. Learn More

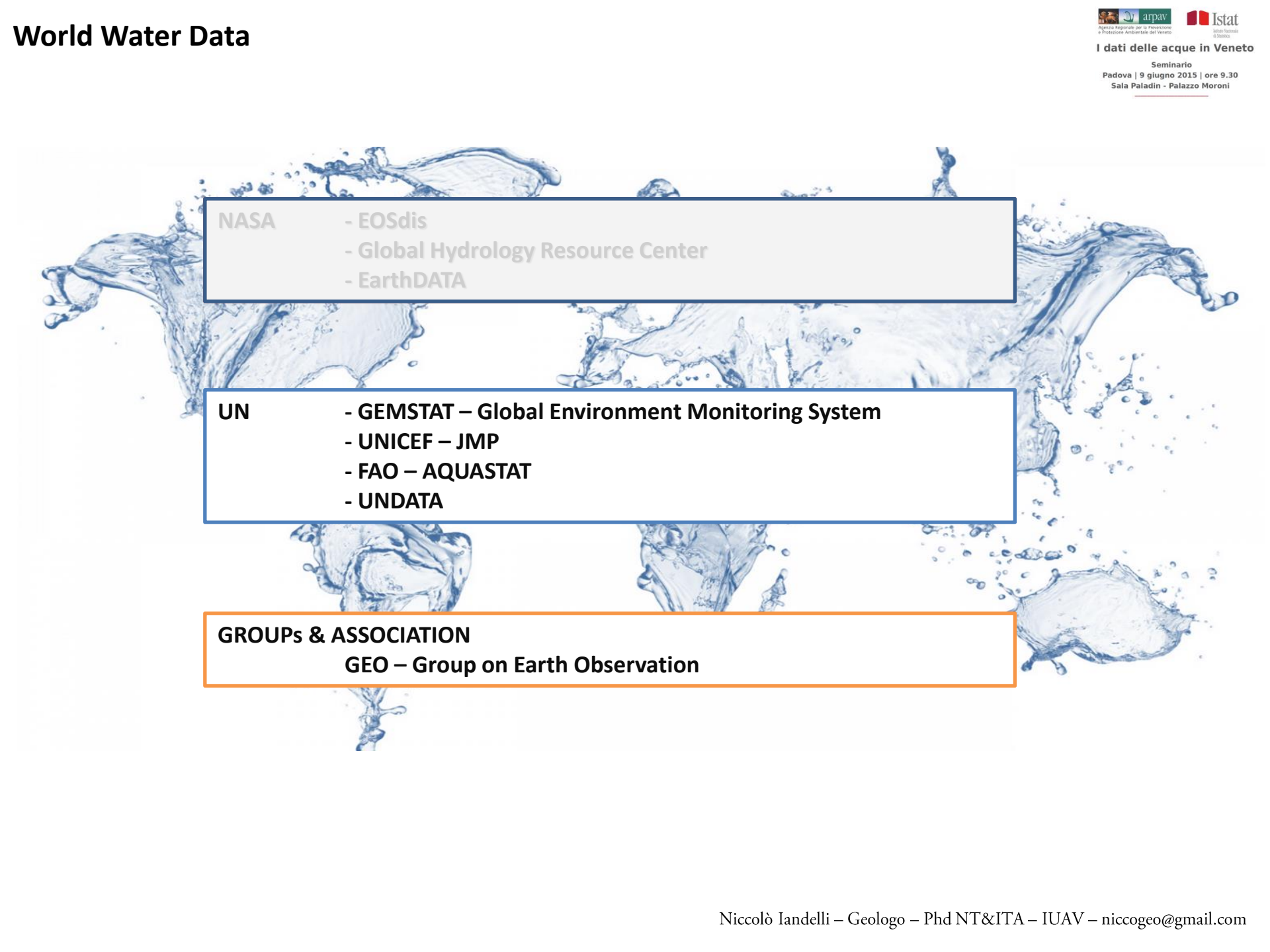
Search Time: 2.4s Report a metadata problem

- CAMEX-4 DC-8 NEVZOROV TOTAL CONDENSED WATER CONTENT SENSOR V1
 04Dec99 v1 - GRAC
 2001-09-18 to 2001-09-24 | 13 Granules
- LBA-ECO LC-02 Groundwater Levels, Catiuba Experimental Farm, Acre, Brazil: 1999-2004
 04s10.3334ORNL.DAAG1992 v1 - JPL
 1999-02-12 to 2004-12-22 | 1 GIG
- BOREAS TGB-01/TGB-03 Water Table and Peat Temperature Data over the NSA
 04s10.3334ORNL.DAAG1992 v1 - JPL
 1994-05-26 to 1995-10-23 | 1 GIG
- Indicators of Coastal Water Quality: Annual Chlorophyll-a Concentration 1998-2007
 02SIN_SEDAC_KOWL_AQUA_OA v1.0 - SEDAC
 1998-01-01 ongoing | Dataset only
- Indicators of Coastal Water Quality: Change in Chlorophyll-a Concentration 1998-2007
 02SIN_SEDAC_KOWL_COA_OA v1.0 - SEDAC
 1998-01-01 ongoing | Dataset only
- Indicators of Coastal Water Quality: Ancillary Data
 02SIN_SEDAC_KOWL_AND v1.0 - SEDAC
 1998-01-01 ongoing | Dataset only



Link:

<https://search.earthdata.nasa.gov/>



NASA

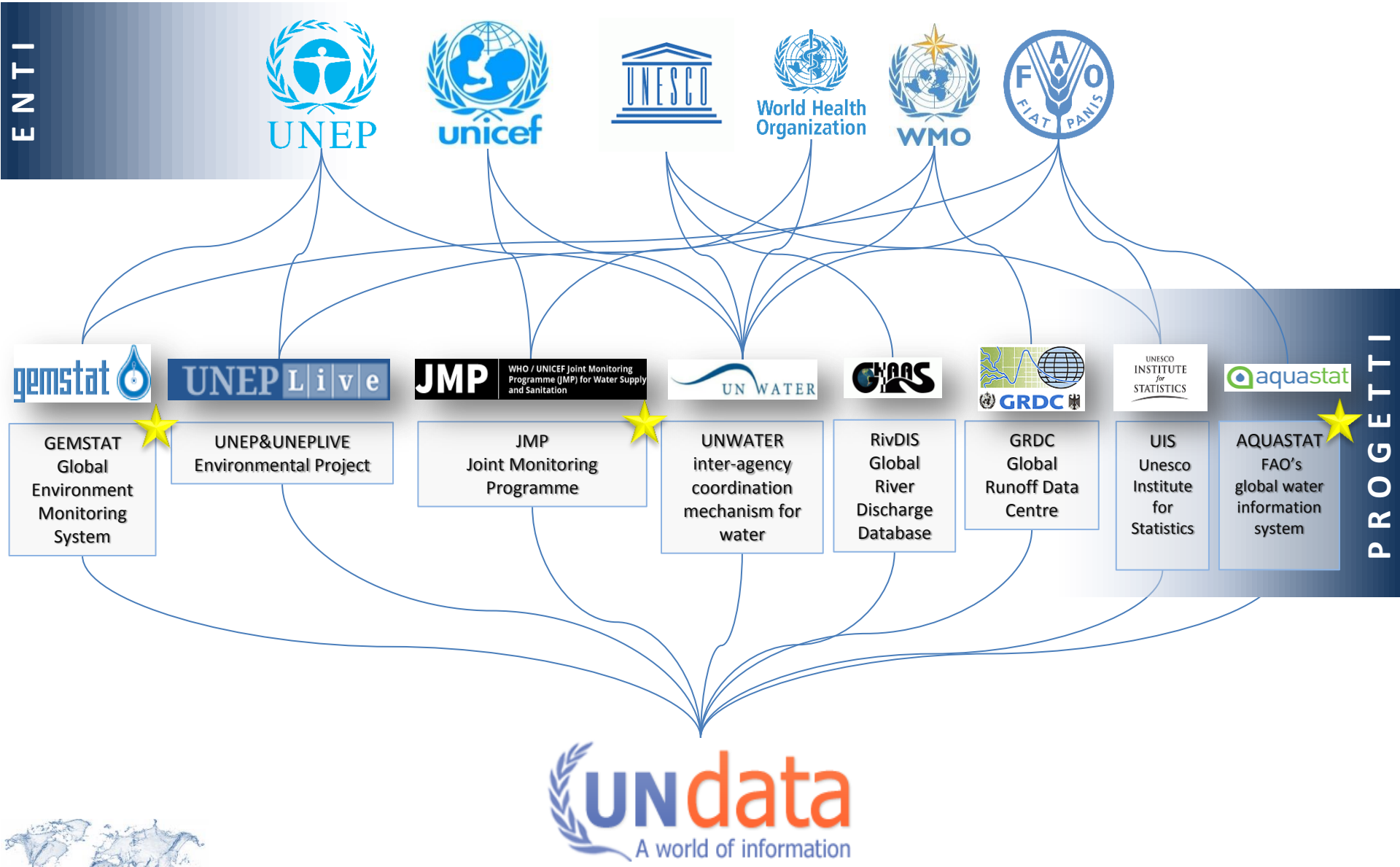
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GEMStat è stato progettato per condividere i dataset di **qualità delle acque superficiali** e **sotterranee** raccolti dal **sistema GEMS** Global Environment Monitoring System.



Visualizzazione on-the-fly: **mappe**, **grafici**, **tabelle** di dati o **scaricare** i dati in diversi formati

3.000 stazioni, quasi **quattro milioni** di record e oltre **100** parametri



Link:
<http://www.gemstat.org/>



Esempio di integrazione di reti di monitoraggio diverse sulla qualità.

- AQUASTAT Home
- Databases
- Countries, regions, river basins
- Climate info tool
- Water resources
- Water uses
- Irrigation water use
- Global map of irrigation areas
- Wastewater
- Maps and spatial data
- Tables
- Publications
- Glossary
- Did you know...?

New product!

Irrigation Area Visualizations!

All AQUASTAT products can be found using the left navigation menu. Shortcuts to our most popular programme areas containing country-level information are presented below for ease of use:

Main database

Main AQUASTAT country database 
[View the database symbols](#)

Country profiles

---- Select a Country ---

Fact sheets

---- Select a Country ---

Water resource sheets

---- Select a Country ---

Irrigated crop calendar

---- Select a Country ---

Sub-national irrigation

---- Select a Country ---

Dams database

---- Select a country ---

Global maps

Thematic maps

MDG water indicator

Millenium Development Goal Indica

Raccogliere, analizzare e diffondere informazioni sulle risorse idriche, usi dell'acqua e gestione dell'acqua in agricoltura, con particolare attenzione a: Africa, Asia, America Latina e Caraibi.

Region	Hydrological basins	Rivers
Africa *	GN  	GN 
Americas		
Central	GN 	GN 
Northern	GN 	GN 
Southern	GN 	GN 
Asia		
Central	GN 	GN 
Southern and Eastern	GN 	GN 
Western (Middle East)	GN 	GN 
Europe	GN 	GN 
Oceania		
Australia and New Zealand	GN 	GN 
World	GN	GN

Informazioni spaziali complete e regolarmente aggiornate a livello globale, regionale e nazionale.

**Maps in GeoNetwork:** GeoNetwork is an opensource depository that allows users to share geographically referenced thematic information between different organizations.

**Downloadable maps:** Maps of hydrological basins and rivers, downloadable in .png format.

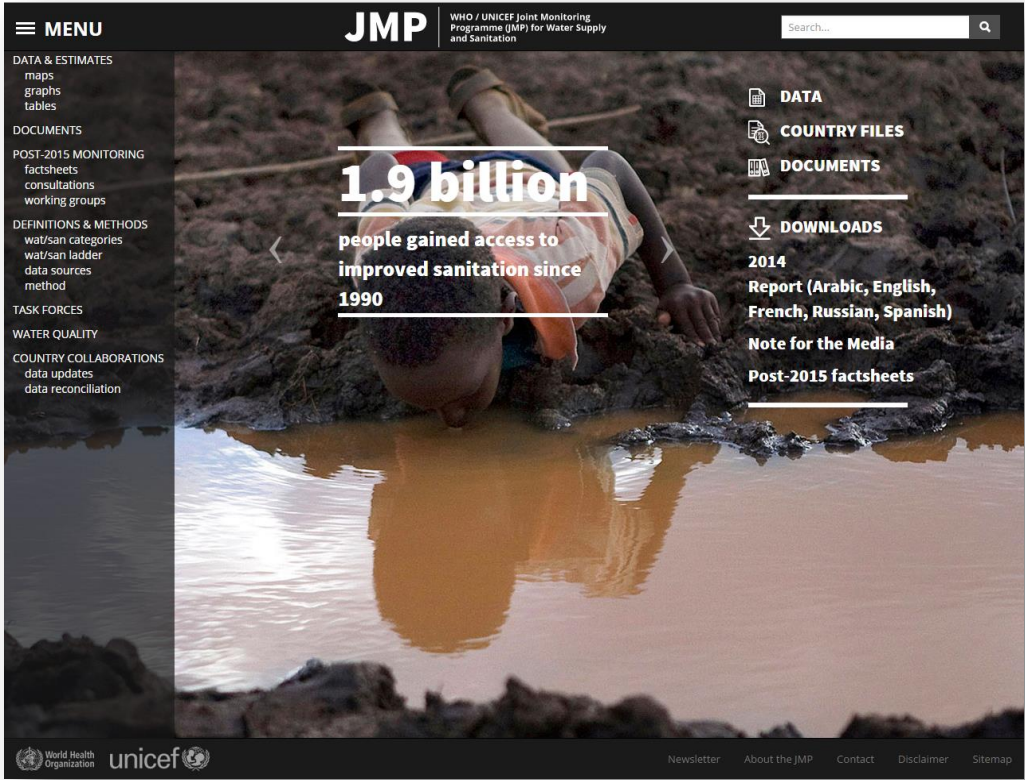
**Basins, rivers and dams in Google Earth:** A google .kml file, suitable for viewing basins, rivers and dams in Google Earth. Click on each point for information about each dam.



Link:
<http://www.fao.org/nr/water/aquastat/main/index.stm>



Contenuti geografici interoperabili



Il portale permette di realizzare **mappe**, **grafici** e **tabelle** in modo **interattivo**.

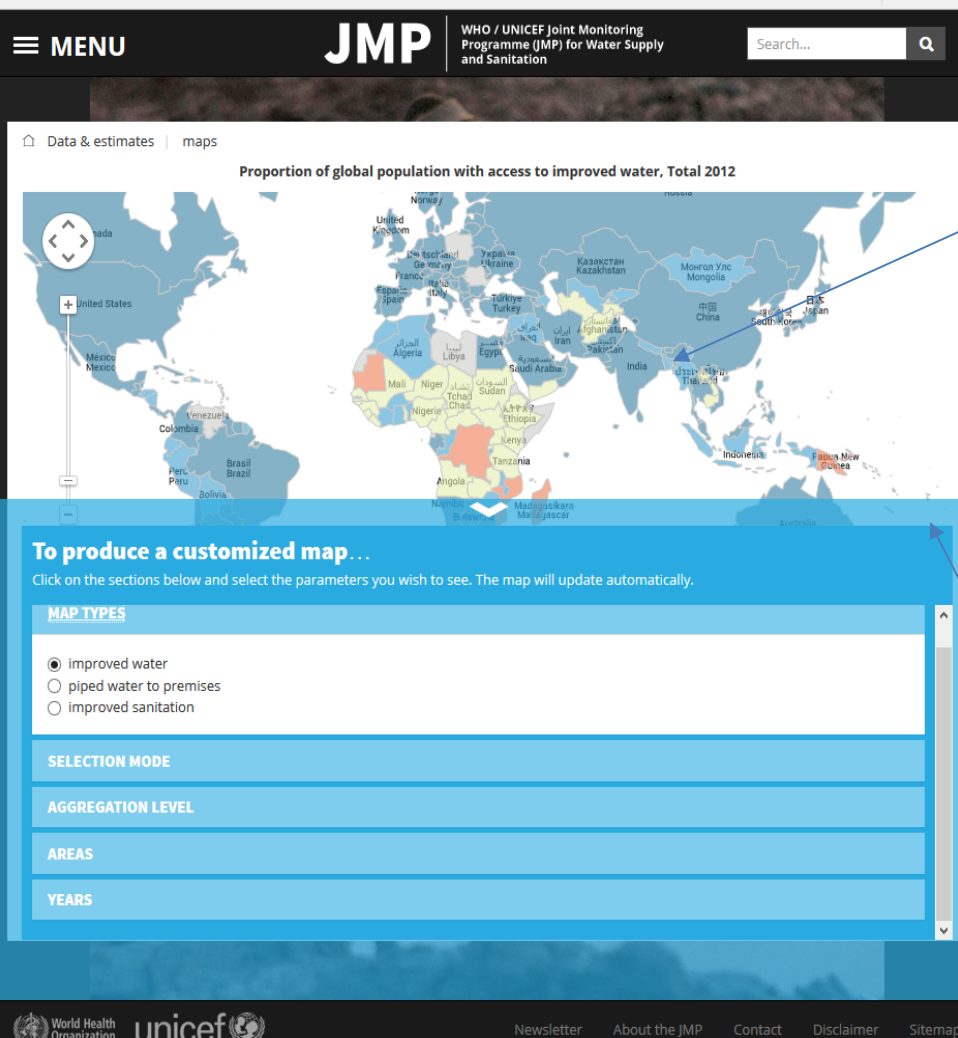
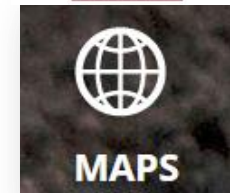


Joint Monitoring Programme for Water Supply and Sanification

[...]obiettivo di **accelerare l'accesso** universale, in modo **sostenibile**, ad **acqua potabile** e **servizi igienico-sanitari** di base entro il 2025[...] fonte attendibile di **dati globale**, **regionale** e **nazionale** [...] utilizzo da parte di governi, donatori, organizzazioni internazionali e la società civile

★ Esempio di facilità di accesso e User Experience. Efficacia della comunicazione del dato.

Link:
<http://www.wssinfo.org/>



Visualizzare la mappa

Elaborazione della mappa personalizzata:

- Tipologia di mappa
 - Miglioramento qualitativo
 - Miglioramento sanitario
 - Acqua corrente distribuita
- Modalità di selezione:
 - Per Nazione
 - Per Continente
 - Mondiale
- Livello di aggregazione:
 - Valore medio calcolato in base a diversi riferimenti.
- Area di interesse
 - Urbane
 - Non Urbane
- Anno di riferimento
 - Intervallo di riferimento temporale
- Esportazione

Link:

<http://www.wssinfo.org/>

World Water Data



Visualizzazione del grafico

Personalizzazione dei dati

- Tipologia
 - Water
 - Sanitation
 - Population
- Modalità di selezione
- Livello di aggregazione
- Area
- Anno
- Esportazione in:
 - *.SVG *.PNG *.PDF Link web



Link:

<http://www.wssinfo.org/>



MENU

JMP

WHO / UNICEF Joint Monitoring Programme (JMP) for Water Supply and Sanitation

Search...

COUNTRY	YEAR	DRINKING WATER			SANITATION FACILITIES		
		Urban Improved	Rural Improved	National Improved	Urban Improved	Rural Improved	National Improved
		Total Improved (%)	Total Improved (%)	Total Improved (%)	Total Improved (%)	Total Improved (%)	Total Improved (%)
Afghanistan	1990		2.8				
	2000	36.3	18.5	22.1	32.1	20.9	23.9
	2012	89.9	56.1	64.2	46.8	23.4	29.0
Albania	1990	100.0			94.7	70.7	79.4
	2000	99.8	94.1	96.5	94.9	75.9	83.8
	2012	97.3	93.8	95.7	95.3	86.3	91.2
Algeria	1990	90.7	87.5	92.0	90.4	76.8	98.6
	2000	93.1	83.8	89.4	98.6	82.2	92.2
							95.2
American Samoa							61.0
							61.5
							62.5
Andorra							100.0
							100.0
							100.0
Angola							29.2
							42.2
							60.1
Anguilla							92.0
							97.9
							74.7
Antigua and Barbuda							84.6
							86.5
							91.7
Argentina							97.2
							88.9
							90.5
Aruba							98.6
							98.2
							97.7
Australia							100.0
							100.0
							100.0
Austria							100.0
							100.0
							100.0
Azerbaijan							62.4

To produce a customized table...

Click on the sections below and select the parameters you wish to see. The table will update automatically.

SHOW DATA FOR

PARAMETERS (COLUMNS)

VALUES (ROWS)

EXPORT

Update table

Export XLS

Export CSV

Visualizzare tabelle suddivise per nazione

Produrre tabelle personalizzate

Sceita di:

- World
- Countries
- Region

Parametri:

- Region Names,
- Population
- Water,
- Sanitation,

Area:

- Valori (in% rispetto alla popolazione)
- Anno di riferimento

Esportazione in:

- *.XLS
- *.CSV



Link:
<http://www.wssinfo.org/>



Data Glossary Metadata API More

water

Search

34 databases - 60 million records  Update calendar

Databases

Crime
 ○ UNODC Homicide Statistics 2012, UNODC

Education
 ○ UIS Data Centre, UNESCO UIS 

Updates

@undata 22 Apr

Also, thanks to @UNStats colleagues for updates to EnergyStats bit.ly/1t8QESs & NA Main Aggregates bit.ly/1JuMnxv databases

Country data services

Afghanistan

Albania

Algeria

Andorra



Monthly Bulletin of Statistics and other UNSD data resources

► Popular searches

► Feedback and reviews   



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United Nations Statistics Division

Version v0.14.6 Beta

"The **UN-system** has accumulated over the past **60 years** an impressive amount of information. UNdata, developed by the Statistics Division of DESA, is a **new powerful tool**, which will bring this **unique** and **authoritative set of data** not only to the desks of **decision makers** and **analysts**, but also to **journalists**, to **students** and to all **citizens** of the world."

DESA Under-Secretary General Sha Zukang

All **data** and **metadata** provided on UNdata's website are available **free of charge** and **may be copied freely, duplicated** and **further distributed** provided that UNdata is cited as the reference.



Link:

<http://data.un.org>



RISULTATO DI RICERCA CON PAROLA CHIAVE «WATER»

25 Databases

Metadati sul DB e info estese

Possibilità di anteprima del dato oppure esplorazione e visualizzazione

Inflow of surface and groundwaters

Source: Environment Statistics Database | United Nations Statistics Division

Displaying first 10 of 641 records.

Country or Area	Year	Value	Unit
Algeria	2008	307	million cubic metres
Algeria	2007	50	million cubic metres
Algeria	2006	50	million cubic metres
Algeria	2005	50	million cubic metres
Algeria	2004	50	million cubic metres
Algeria	2003	50	million cubic metres
Algeria	2002	50	million cubic metres
Algeria	2001	50	million cubic metres
Algeria	2000	50	million cubic metres
Andorra	2007	0	million cubic metres

[View data](#)

Link:

<http://data.un.org>



Statistics

Inflow of surface and groundwaters [Search glossaries](#)

Source: Environment Statistics Database | [United Nations Statistics Division](#)

[Download](#) [Explore](#) [Select columns](#) [Select sort order](#) [Select pivot column](#) [Link to this page](#)

441 records | Page 1 of 13

Select filters:

Country or Area (37)

- ☐ Algeria
- ☐ Andorra
- ☐ Azerbaijan
- ☐ Bahrain
- ☐ Belarus
- ☐ Belgium

Period (16)

- ☒ 1990
- ☐ 1995
- ☐ 1996
- ☐ 1997
- ☐ 1998
- ☐ 1999

[Apply Filters](#)

Country or Area	Year	Value	Unit
Algeria	2008	307	million cubic metres
Algeria	2007	50	million cubic metres
Algeria	2006	50	million cubic metres
Algeria	2005	50	million cubic metres
Algeria	2004	50	million cubic metres
Algeria	2003	50	million cubic metres
Algeria	2002	50	million cubic metres
Algeria	2001	50	million cubic metres
Algeria	2000	50	million cubic metres
Andorra	2007	0	million cubic metres
Andorra	2006	0	million cubic metres
Andorra	2005	0	million cubic metres
Andorra	2004	0	million cubic metres
Andorra	2003	0	million cubic metres
Andorra	2002	0	million cubic metres
Andorra	2001	0	million cubic metres
Andorra	2000	0	million cubic metres
Andorra	1999	0	million cubic metres
Andorra	1998	0	million cubic metres

Footnotes

1 - Data refer to surface water inflow.

Source

Environment Statistics Database

Source: [United Nations Statistics Division](#)

The Environment Statistics Database contains selected water and waste statistics by country. Statistics on water and waste are based on official statistics supplied by national statistical offices and/or ministries of environment (or equivalent institutions) in countries in response to the biennial UNSD/UNEP Questionnaire on Environment

FILTRI

- Per Area
- Per Periodo

STRUMENTI

- Selezione
- Ordinamento
- Link
- Pivot Table
- Download
 - XML
 - CSV

Link.
<http://data.un.org>

NASA

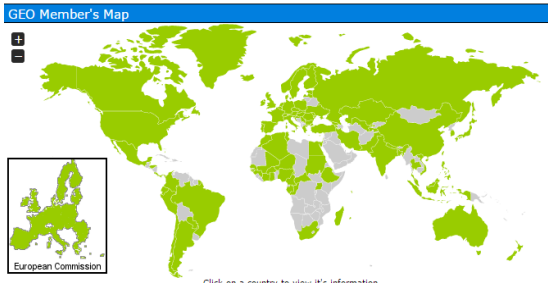
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- UNDATA

GROUPs & ASSOCIATION

GEO – Group on Earth Observation



GEO è una **PARTNERSHIP VOLONTARIA** di **GOVERNI** e **ORGANIZZAZIONI**

- 96 nazioni
- 87 organizzazioni internazionali



«[...]un futuro in cui le decisioni e le azioni a favore del genere umano siano realizzate attraverso un coordinamento globale e sostenute da osservazioni e informazioni provenienti dai sistemi di osservazione e monitoraggio della Terra.»

Link:
<http://www.earthobservations.org>





Selected Theme Is: Water X

- Agriculture
- Biodiversity
- Climate
- Disasters
- Ecosystems
- Energy
- Health
- Water
- Weather

– Data Access Conditions [?]

☒ Full And Open Datasets

☐ All Datasets

GROUP ON EARTH OBSERVATIONS

GEOSS Portal
Discover, Access, Contribute
Earth Observations, Information and Services

HOME VIDEO TUTORIAL SEND FEEDBACK SIGN-IN

SEARCH

Selected Theme Is: Water X

- Agriculture
- Biodiversity
- Climate
- Disasters
- Ecosystems
- Energy
- Health
- Water
- Weather

+ Country/Geography [?]
– Data Access Conditions [?]

CLEAR SEARCH

POPULAR SEARCHES

Precipitation Land Surface Temperature Land Cover Urbanization Sea Surface Temperature River Flow Observation Surface Atmospheric Condition Elevation Soil Moisture

EO NEWS

Taking Earth's temperature
Like thermometers in the sky, satellite instruments can measure the temperatures of Earth's surfaces. ESA's new GlobTemperature project is merging these data from a variety of spaceborne sensors to provide scientists with a one-stop shop for land, lake and ice temperature data.

What lies beneath?
A field campaign dedicated to SMOS and GOCE has revealed unexpected similarities in the missions' very different types of measurements. This surprising discovery could lead to a better understanding of what is happening deep under the Antarctic ice sheet.

TERMS AND CONDITIONS

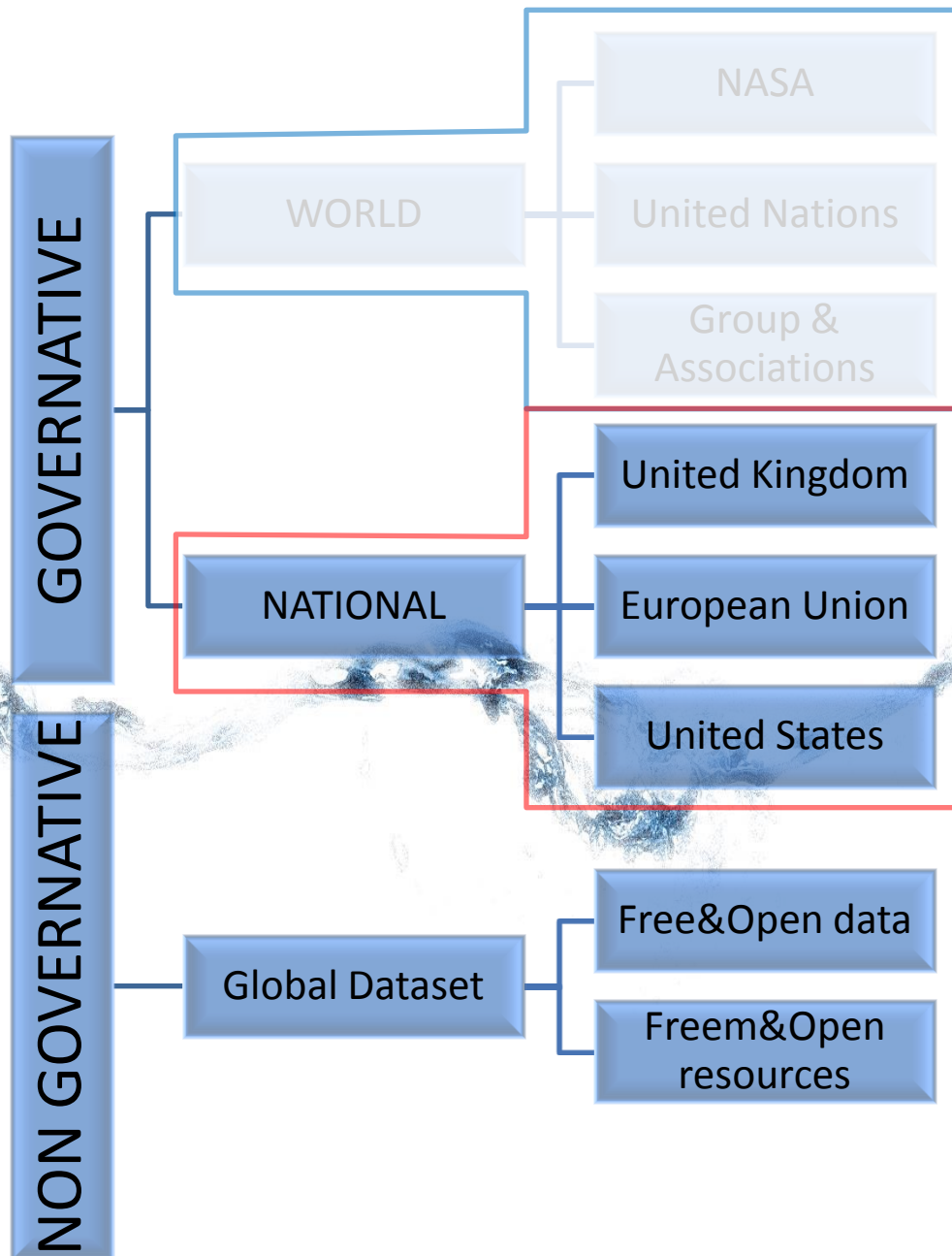


Link:
<http://www.earthobservations.org>

<http://www.earthobservations.org>

3 – METADATI DI DETTAGLIO e LINK AL DOWNLOAD

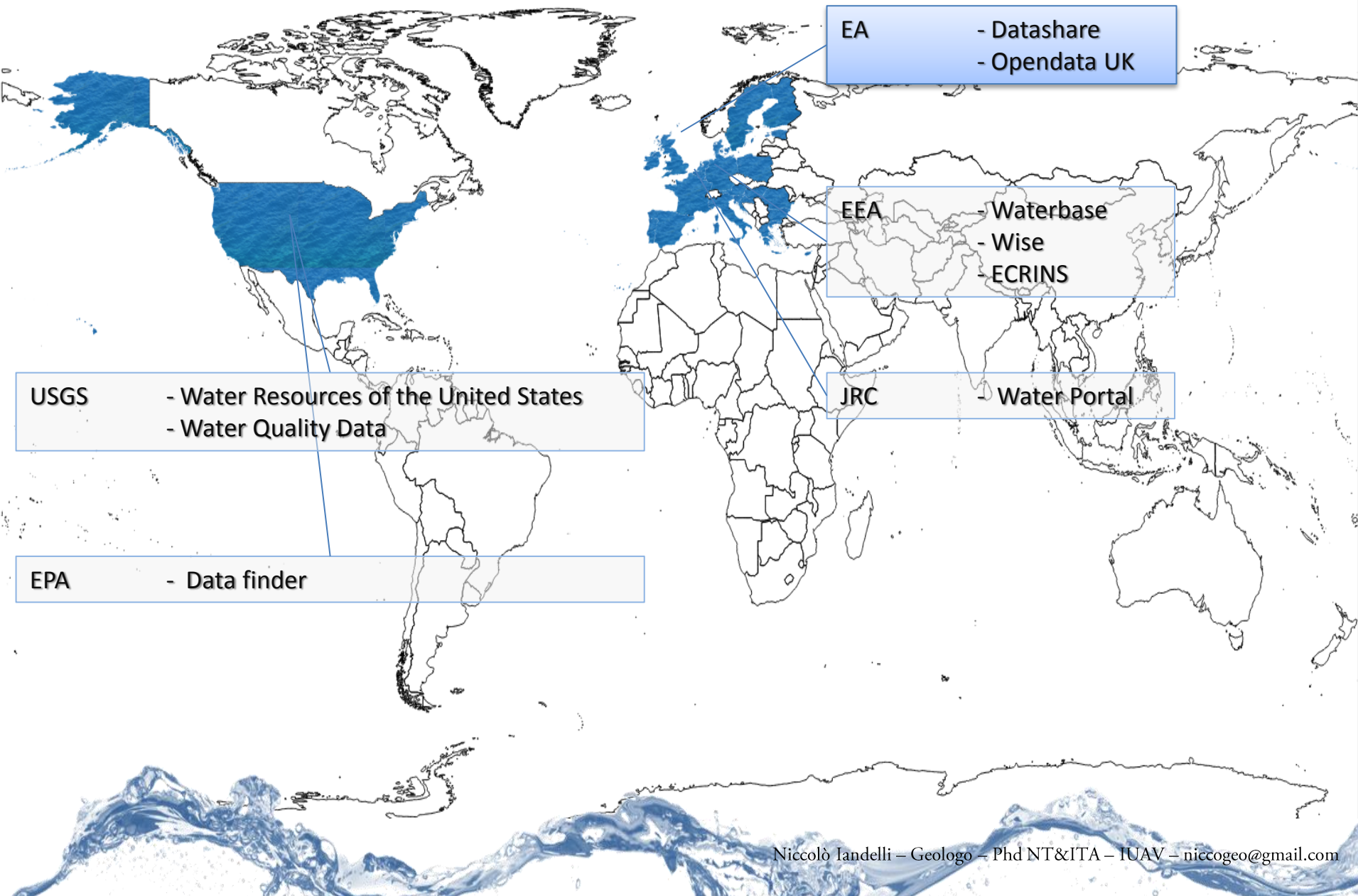
Niccolò Iandelli – Geologo – Phd NT&ITA – IUAV – niccogeo@gmail.com



NATIONAL



National Water Data



USGS

- Water Resources of the United States
- Water Quality Data

EPA

- Data finder

EA

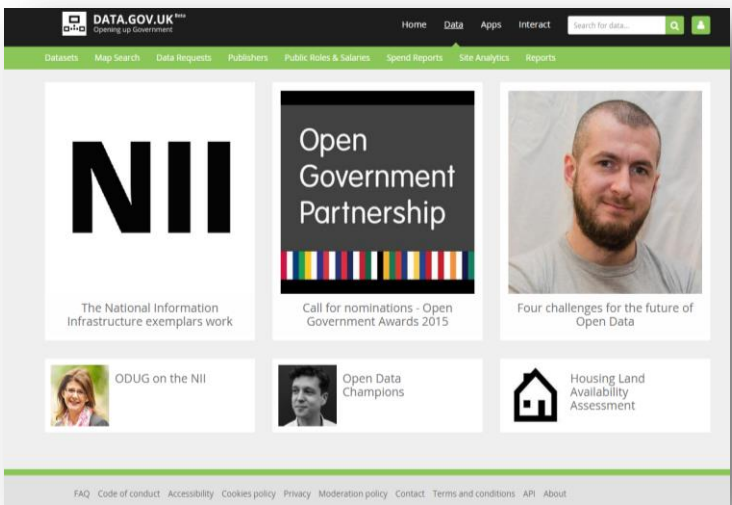
- Datashare
- Opendata UK

EEA

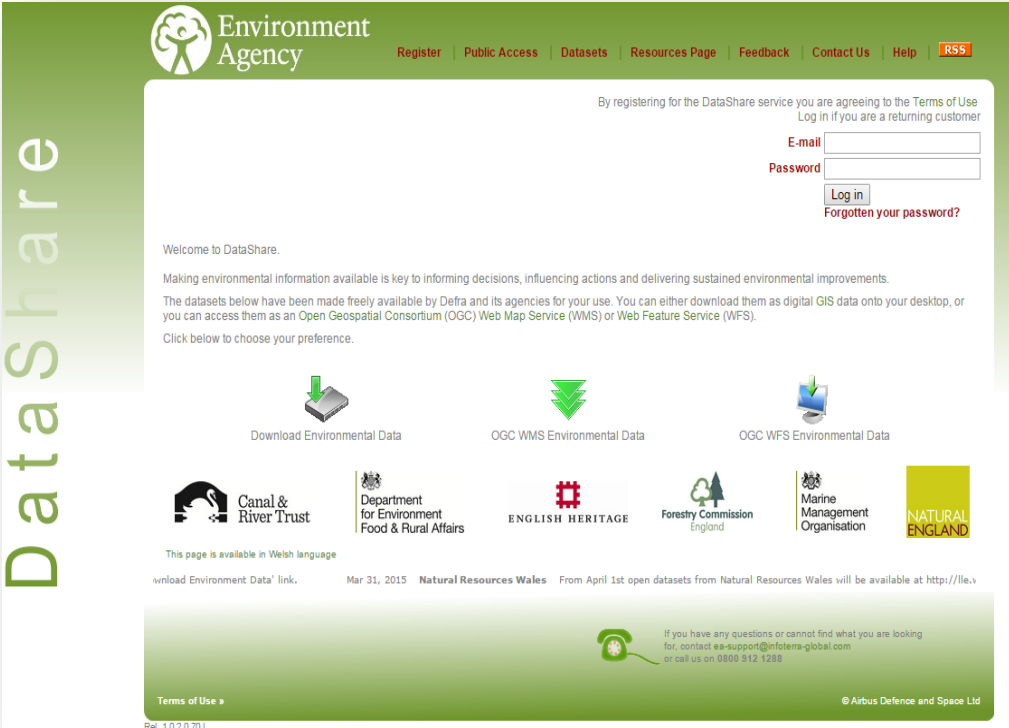
- Waterbase
- Wise
- ECRINS

JRC

- Water Portal



Rendere disponibili le informazioni ambientali è la chiave per supportare le decisioni, influenzare le azioni e garantire supporto al miglioramento della qualità dell'ambiente.



I set di dati sono resi disponibili gratuitamente per il vostro uso. È possibile scaricarli in formato GIS oppure si può accedere attraverso servizi web «Web Map Service (WMS)» o «Web Feature Service (WFS)» compatibili con gli standard OGC.

Link:
<http://www.geostore.com/environment-agency>





Scelta tra dati spaziali e non

Scelta del formato
Shapefile – Tab
– GML - Other

Link ai servizi web

Environment Agency

Home | Public Access | Datasets | Resources Page | Feedback | Contact Us | Help

Spatial Data | Non-Spatial Data

The spatial datasets below are available in a variety of digital [GIS](#) data formats. The data is freely available for you to download and use, subject to the terms and conditions of the Open Government Licence (OGL). For each dataset you would like to access please select the data format you require and click 'download'.

A number of datasets below are not available under the OGL and are subject to the terms and conditions of the specific licence provided. These data are freely available for non-commercial use only and require registration (indicating acceptance of the licence) prior to download. If you require access to these data please complete the [registration](#) details and select the 'Public (non-commercial)' user type.

Organisation	Layer	Licence	ShapeFile	Tab	GML	Other	
Canal and River Trust	Aqueduct	CRT Licence	☐	☐	☐	☐	Download
Point dataset depicting the location of Canal and River Trust aqueducts.							
Canal and River Trust	Bridges	CRT Licence	☐	☐	☐	☐	Download
Point dataset depicting the location of Canal and River Trust bridges and bridge abutments.							
Canal and River Trust	Canal Centreline	CRT Licence	☐	☐	☐	☐	Download
Line dataset representing the canal centreline split into pseudo 4km sections generally mapped against Ordnance Survey MasterMap.							

Your WMS URL (this will not work in a standard web browser, you will need to use OGC WMS compliant software):
<http://www.geostore.com/OGC/OGCInterface?SERVICE=WMS&UID=UDATAGOV2011&PASSWORD=datagov2011&INTERFACE=ENVIRONMENT&LC=2>

If you have any questions or cannot find what you are looking for, contact ea-support@infoterra-global.com or call us on 0800 912 1288

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Rel. 1.0.2.0.70 |

Link:
<http://www.geostore.com/environment-agency>



- [Aquifer Designation Map \(Bedrock Geology\)](#)
- [Aquifer Designation Map \(Superficial Deposits\)](#)
- [Areas Susceptible to Ground Water Flooding](#)
- [Discharges of Consented Red List Substances](#)
- [Flood Alert Areas](#)
- [Flood Risk Areas](#)
- [Flood Map](#)
- [Freshwater and Marine Biological Surveys for Diatoms England](#)
- [Freshwater and Marine Biological Surveys for Invertebrates England](#)
- [Freshwater and Marine Biological Surveys for Macrophytes England](#)
- [Groundwater Vulnerability](#)
- [Historic UK Water Quality Sampling Harmonised Monitoring Scheme Detailed Data](#)
- [Historic UK Water Quality Sampling Harmonised Monitoring Scheme Summary Data](#)
- [Hydrometric Monitoring Points](#)
- [WFD - Surface Water Classification Status and Objectives](#)

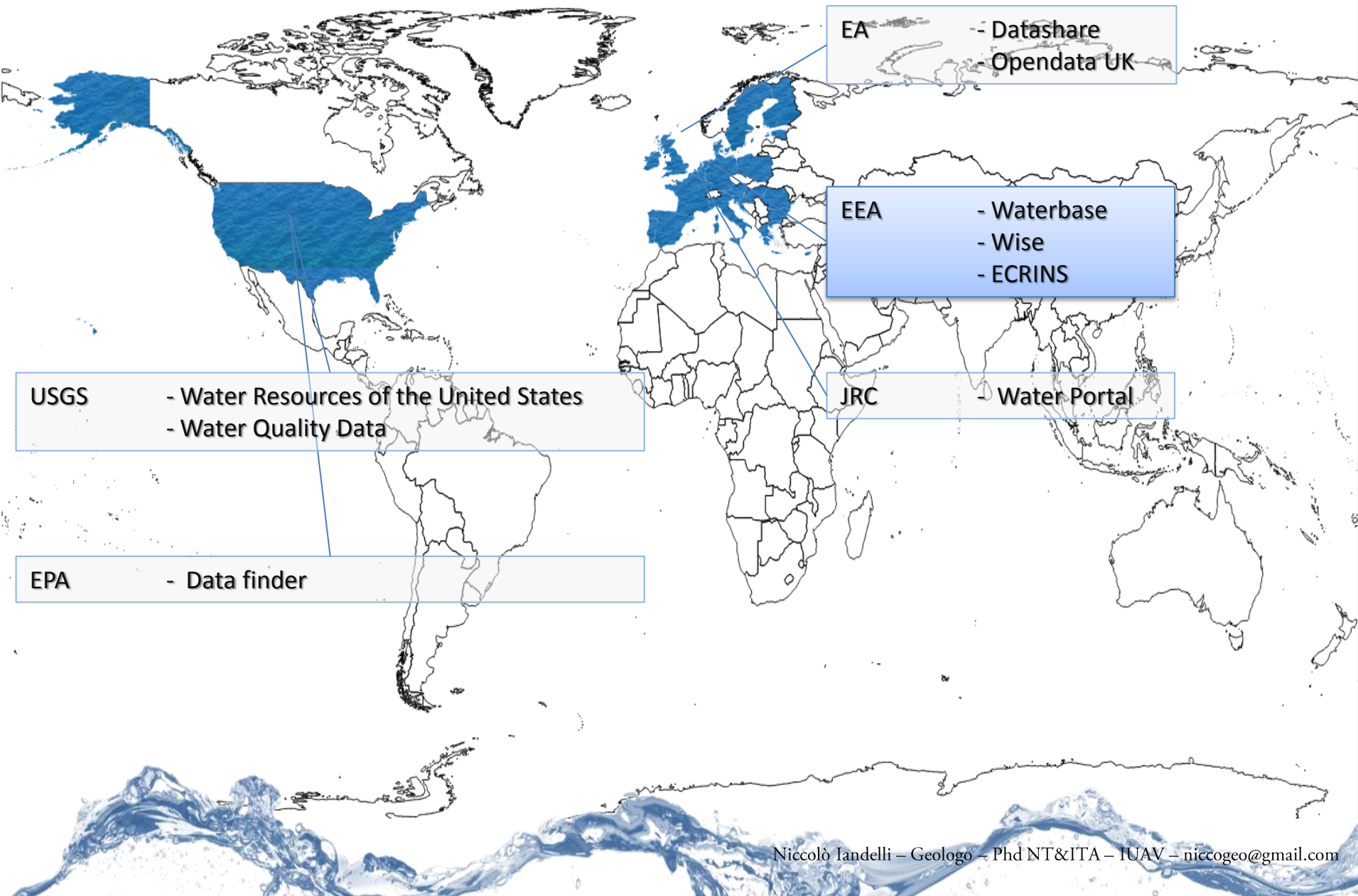
ALCUNI DATASET DI ESEMPIO

- Identificazione degli acquiferi con indicazione della litologia del substrato e dei depositi superficiali – SHAPEFILE – Viene riportato l’acquifero principale, il secondario e gli orizzonti improduttivi.
- Identificazione delle aree suscettibili di inondazione per innalzamento della falda – SHAPEFILE – Indicazione della tipologia dell’inondazione (con suddivisione in «acque pulite», «acque con depositi superficiali» e «Inondazioni da depositi superficiali»), indicazione % dell’area coperta.
- Dati dettagliati e serie storica dei punti di campionamento della qualità delle acque.
- Punti della rete di monitoraggio idrometrica
- Classificazione della qualità delle acque superficiali in risposta alla direttiva Europea sulle Acque- 2000/60/CE WFD – FILE CSV-

Download gratuito con registrazione obbligatoria

Link:
<http://www.geostore.com/environment-agency>

National Water Data



USGS
- Water Resources of the United States
- Water Quality Data

EPA
- Data finder

EA
- Datashare
- Opendata UK

EEA
- Waterbase
- Wise
- ECRINS

JRC
- Water Portal



URBAN WASTE WATER

<http://goo.gl/i8rRzt>

EMISSION to WATER

<http://goo.gl/BsWBMW>

LAKE

<http://goo.gl/ESCZo3>

RIVER

<http://goo.gl/drjdis>

GROUNDWATER

<http://goo.gl/kztmut>

QUANTITY

<http://goo.gl/st0F57>

Topics Data and maps Indicators Publications

You are here: Home / Data and maps / Datasets / Waterbase - Water Quantity

Waterbase - Water Quantity

Data Created 04 Jun 2014 Published 04 Jun 2014 Last modified 04 Jun 2014, 05:51 PM

Topics: Water

Waterbase is the generic name given to the EEA's databases on the status and quality of Europe's rivers, lakes, groundwater bodies and transitional, coastal and marine waters, and on the quantity of Europe's water resources

European data Additional information Metadata

Waterbase - Water Quantity (9 tables)
Dataset contains all time series related to water quantity data, reported by member and collaborating countries. Reported data have been assessed and processed by the ETC-ICM and the EEA. ***WARNING:*** Records, where errors and other quality issues and inconsistencies have been detected, have been removed from the dataset only in certain cases. The other "problematic" records are left in. Data tables contain special QA fields which are used to flag the particular quality issues detected in the individual records. The QA fields and flag codes are described in the QA documentation.

[+] Show table definition

- Waterbase_WaterQuantity_v9_mdb.zip (ZIP archive)
18.41 MB Download file
- Waterbase_WaterQuantity_v9_csv.zip (ZIP archive)
17.31 MB Download file

Additional information

THE EUROPEAN ENVIRONMENT STATE AND OUTLOOK 2015

Data and maps

Menu

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- Interactive data viewers
- External datasets catalogue
- Waterbase - Water Quantity**
- Maps and graphs
- Interactive maps
- Indicators

- 1 – Identificazione della risorsa
- 2 – Descrizione del dato, Additional Information, Metadati
- 3 – Download del dato File mdb, geodatabase o MSaccess file)
- 4 – Menu (Mappe interattive, catalogo altri dati, indicatori)



Link:
<http://goo.gl/Hk5ltP>



WATER INFORMATION SYSTEM FOR EUROPE

DATABASES

<http://goo.gl/ONZC6e>

GROUNDWATER BODIES

- Numbers & Statistics
- Chemical & quantitative status

SURFACE BODIES

- Numbers & Statistics
- Ecological and Chemical status
- Significant pressures
- Impacts on

European Environment Agency

WISE WFD Database

Data Created 12 Nov 2012 Published 12 Nov 2012 Last modified 06 May 2015, 07:18 PM

Topics: Water

The WISE-WFD database contains data from River Basin Management Plans reported by EU Members States according to article 13 of the Water Framework Directive. The full database is quite complex and not yet made available for public download. However, a number of aggregation queries have been made, these aggregation queries extract data from the database and present it as data tables that can be downloaded in Excel format. Most of the reported data are considered final, however, in some cases they are considered provisional by Member States. The aggregation tables are updated when the underlying WFD Database is updated with new or corrected data. It is therefore important to associate the use of any information in the tables with the date in which data was retrieved. The tables are organised for an access at various levels of overviews versus details - aggregated at country, river basin district (RBD) or in some cases even RBD-subunit level.

European data Metadata

Groundwater bodies

- Numbers and statistics of groundwater bodies Download file

Groundwater bodies

- Chemical and quantitative status of groundwater bodies Download file

Surface water bodies

- Numbers and statistics of surface water bodies Download file

Surface water bodies

- Ecological and chemical status of surface water bodies Download file

Surface water bodies

- Significant pressures affecting surface water bodies Download file

Surface water bodies

INTERACTIVE MAPS

European Environment Agency

Water quality monitoring station density

GIS Map Application

Topics: Water

The map shows the density of water quality monitoring stations, reported by EEA member countries via WISE SoE reporting. The density of river monitoring stations is represented per national River Basin District (RBD). Note that the set of monitoring stations used by Member States to assess the chemical and ecological status of river water bodies under the Water Framework Directive may not be the same set of stations used for the annual WISE SoE water quality reporting. Historical data since 1992 can be displayed using the time slider.

WISE SoE Stations density

Density of WISE SoE river monitoring stations by National River Basin District

Legend

- < 0.5 stations per 1000 sq km
- ≥ 0.5 < 1 stations per 1000 sq km
- ≥ 1 < 2 stations per 1000 sq km
- ≥ 2 < 4 stations per 1000 sq km
- ≥ 4 < 9 stations per 1000 sq km
- ≥ 9 stations per 1000 sq km
- No stations per RBD or No data

Map of Europe showing station density

Full screen mode

Formati: Spatialite – Shapefile - Csv

Link:

http://www.eea.europa.eu/data-and-maps/data/wise_wfd





WATER INFORMATION SYSTEM FOR EUROPE

EUROPEAN RIVER CATCHMENTS

Si tratta di un **sistema informativo geografico** dei sistemi idrografici europei con una **completa informazione topologica**.

<http://goo.gl/i3fhmf>

European Environment Agency

TopicsData and mapsIndicatorsPublicationsMediaAbout EEA

European catchments and Rivers network system (Ecrins)

Version 1, Jun. 2012 - Ecrins is acronym for European catchments and Rivers network system. It is a geographical information system of the European hydrographical systems with a full topological information. Ecrins is a composite system made from the CCM developed by the JRC, Corine land cover, WFD reporting elements, etc. It is organised from a layer of 181,071 "functional elementary catchments (FECs)" which average size is ~62 km2, fully connected with explicit identifier (ID) relationships and upstream area. Catchments are grouped as sub-basins, river basin districts (actual and functional to meet hydrographical continuity). The catchments are as well organised according to their sea shore of emptying to meet Marine Strategy delineations. Catchments are drained by 1,348,163 river segments, sorted as "main drains" (connecting together the FECs) and secondary drains (internal to a FEC). river segments mimic the natural drainage, however fulfilling the topological constraint of "0,1 or 2 upstreams, single or 0 downstream". Each segment is populated with distance to the sea, to ease further processing. They are connected to elementary catchments and nodes documented with altitude. Segments are as well documented with a "dummy river code", fully populated that earmark each segment with the most distant to the outlet in each drainage basin and, everywhere this has been possible, with a "true river" ID based on river naming. A layer of lakes and dams has been elaborated. Lakes polygons (70,847) are taken from Corine Land cover, WFD Art. 13 and in some cases, from CCM "water layer". Lakes inlets and outlets are set with the segment ID and where relevant, the dams making the lake is documented. All lakes which depths and volume was found have been updated. Version 1.0 here presented still contain some topological errors (e.g. incorrect segment branching), because inaccurate geometry. They are noted and a correction procedure is underway.

THE EUROPEAN ENVIRONMENT STATE AND OUTLOOK 2015

Data and maps

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European data centres

Data visualisation

Data services

Follow us

European data

GIS data

Additional information

Metadata

Gazetteer

Personal Geodatabase file (Access)

Download file

Spatialite file

Download file

Ancillary data

Personal Geodatabase file (Access)

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Usage feedback

Before downloading this dataset, please give us some feedback about the usage of this dataset. This will help us improving our online services. One question only.

In which sectors/topics you intend to use this dataset?

Economic sectors

☐ Agriculture

☐ Demography

☐ Energy

☐ Environment

☒ Education

☐ Forestry

☐ Health

☐ Physical planning

☐ Research

☐ Tourism

☐ Transport

Download data

Cancel

Skip

Il download è gratuito con una richiesta di feedback

RIVERS

LAKES

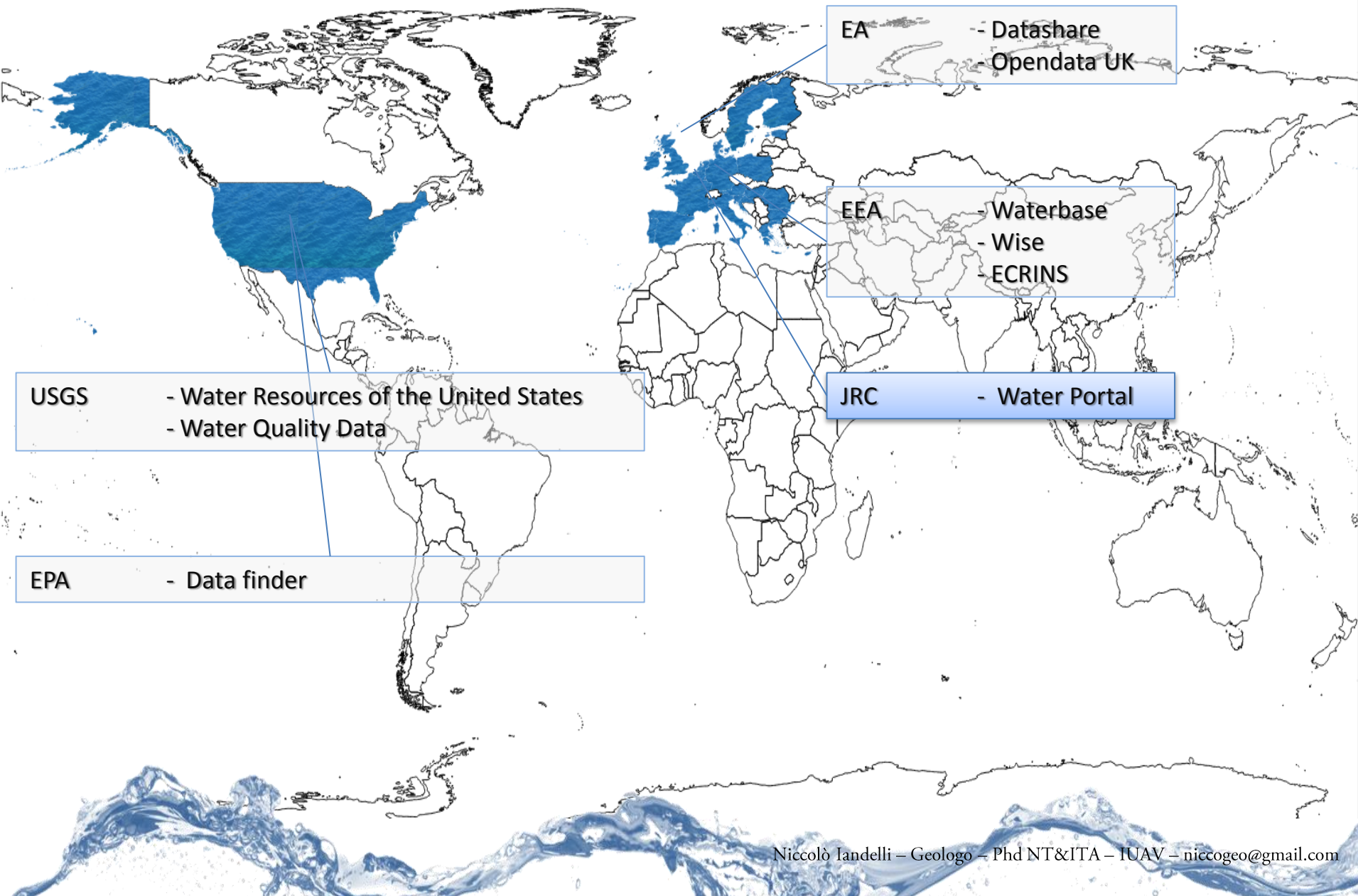
AGGREGATION CATCHMENTS

Link:

<http://www.eea.europa.eu/data-and-maps/data/european-catchments-and-rivers-network>

Formati: Spatialite – geodb mdb

National Water Data







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JRC Activities Portals

JOINT RESEARCH CENTRE

European Commission > JRC Science Hub > JRC Water Portal

Max Extent

Zoom

Map

Actions



WMS

Title

Layer Name

Abstract

1

Water Economics

Water Indicators

Water Quality

Water Quantity

Water Use

Water Exploitation Index

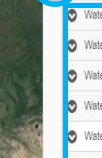
Global streamflow characteristics

Irrigation

Water Portal

The JRC water portal serves as the gateway to JRC's products on freshwater and marine water resources, providing access to water data, publications, and maps, as well as to water projects and events. The portal brings together the products on freshwater resources, FATE, Water & Ecosystems, Water & Development, GMS, EMIS, EFAS, SLPAS, Droughts-EDO & GFDs

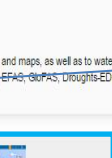
2



STATISTICAL TOOLS

Calculate statistics (average, sum, min and max value) for NUTS0, NUTS1, and River Basin Districts

Open the statistical tool



WEB MAP

Full Screen web Map

Open the webmap

- Water Economics
- Water Quality
- Water Use
- Global Streamflow

Water Indicator
Water Quantity
Water Exploitation Index

Define parameters:

Select the input Layer:

River Basin Districts

Choose the statistic type:

Average

Choose the layer to use for the statistic:

Annual water abstraction manufacturing industry 2030

Preview the selected layer: (Ind2030)

Calculate Statistics

Clear

Dato Raster: *.TIFF + *.TFW

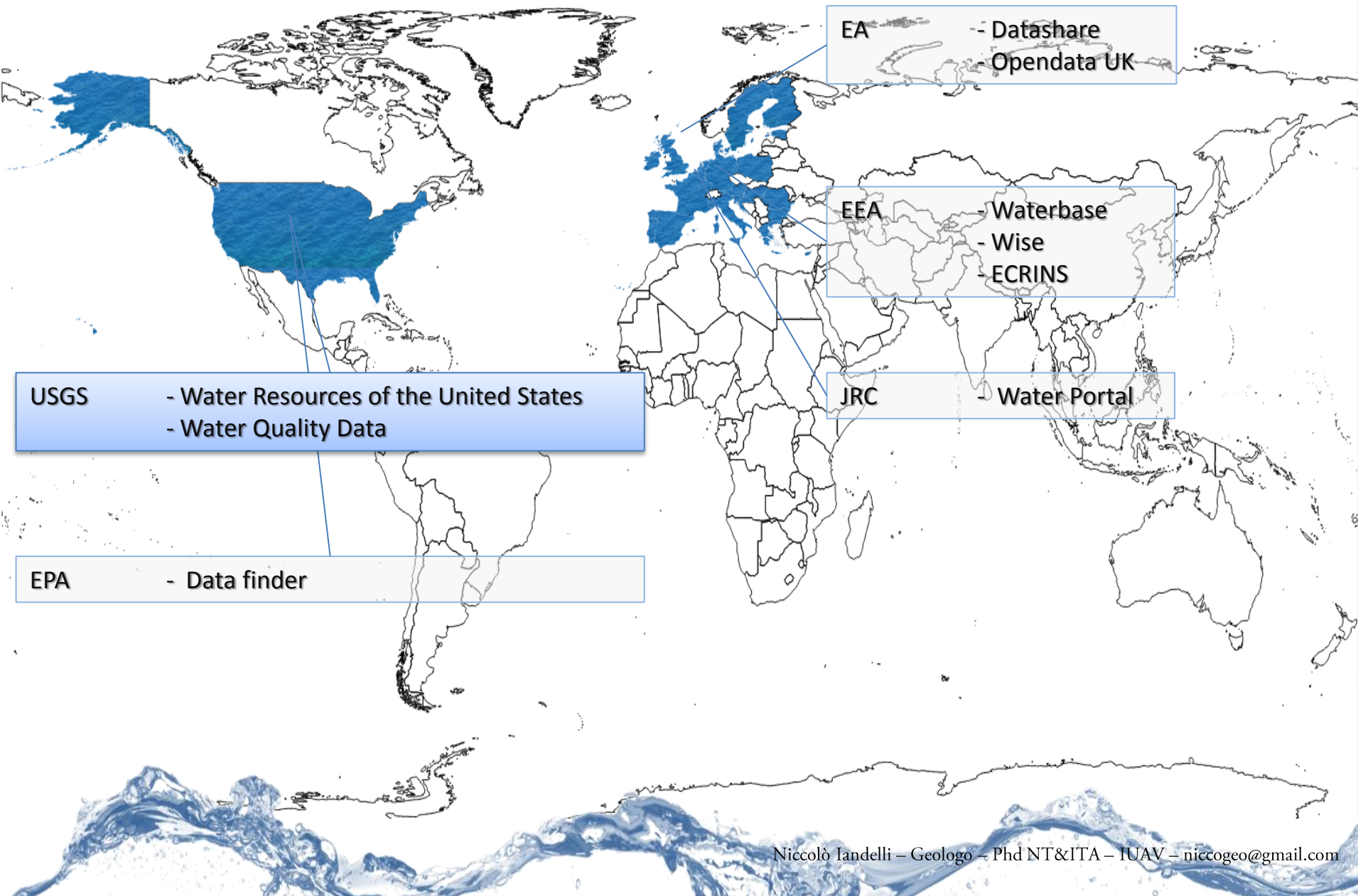


Link:

http://www.eea.europa.eu/data-and-maps/data/wise_wfd

Niccolò Iandelli – Geologo – Phd NT&ITA – IUAV – niccogeo@gmail.com

National Water Data



USGS
- Water Resources of the United States
- Water Quality Data

EPA
- Data finder

EA
- Datashare
- Opendata UK

EEA
- Waterbase
- Wise
- ECRINS

JRC
- Water Portal



Data
Maps/GIS
Publications
.....
Software
Techniques
...

BOX REALTIME
Water watch

Streams, Lake, Reservoir

Quality of Water
Resources

L'obiettivo è di
raccogliere e
diffondere
informazioni
affidabili,
imparziali, e
tempestive che
sono necessarie
per comprendere
le risorse idriche
della nazione.

Groundwater,
Aquifers and Wells

Water Use



Link:
<http://www.usgs.gov/water/>





National Water Quality Monitoring Council

Working together for clean water

Water Quality Portal

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). It serves data collected by over 400 state, federal, tribal, and local agencies.

DOWNLOAD DATA

Download water-quality data in Excel, CSV, TSV, and KML formats.

HOW TO USE THE WQP

User Guide
Web Services Guide
FAQs
Upload Data

NATIONAL RESULTS COVERAGE

Water-quality data in your state.

ABOUT THE WQP

What is the WQP?
Contributing organizations
Other Water Quality Portals
Contact us

Link al modulo per la selezione e il download dei dati

Come usare il portale

Dati a copertura nazionale

Info e metadati

Contact us



Il modulo permette la selezione per:

LOCATION – PARAMETERS – DATA
SOURCE - CSV – XLS – KML



National Water Quality Monitoring Council

Working together for clean water

Water Quality Data

WQP Home Download Data How to Use the WQP National Results Coverage About the WQP

LOCATION

Place:

Country:

State:

County:

Point Location:

Within:

Radius of:

Latitude:

Longitude:

Use my location

SITE PARAMETERS

Site Type:

Organization ID:

Site ID:

WQID:

SAMPLING PARAMETERS

Sample Station:

Characteristic Group:

Characteristic:

Parameter Code:

Date Range - From: To:

DATA SOURCE

Select database:

Select data:

☒ Sites only

☐ Physical/Chemical results only

☒ Comprehensive

☐ Not specified

☐ US State 2007+

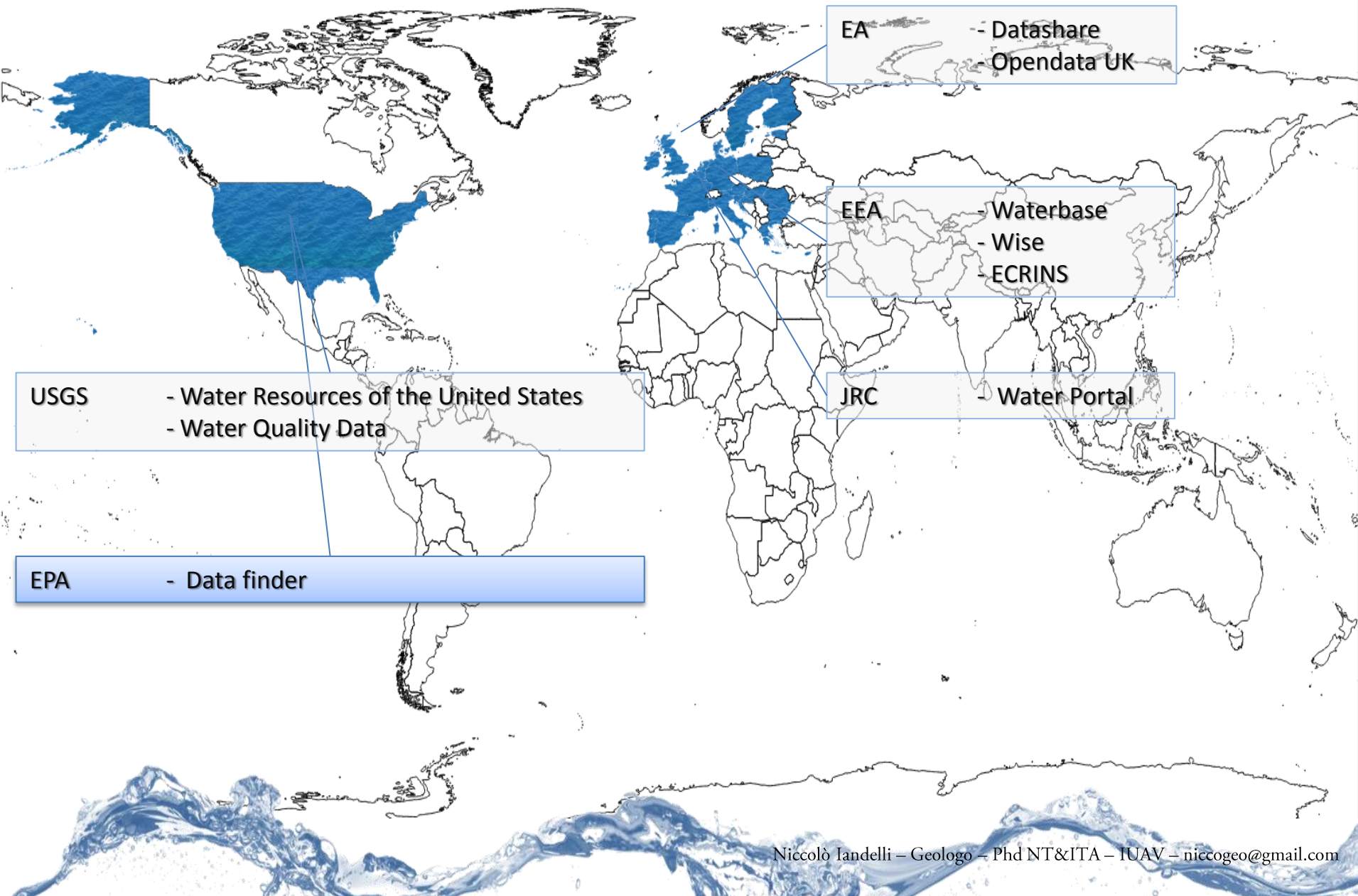
☐ KML (requires Google Maps to be installed on the client)

Contact us



Link:
<http://www.waterqualitydata.us/>

National Water Data





EPA United States Environmental Protection Agency

LEARN THE ISSUES SCIENCE & TECHNOLOGY LAWS & REGULATIONS ABOUT EPA

Data Finder

This site provides access to EPA's data sources organized by subject as well as links to EPA's Public Data JSON file, EPA's Public Excel file, and EPA's Environmental Dataset Gateway. Please tell us what EPA data you want most to understand your data needs. You can visit EPA's Developer Central website to see how you can use EPA's data and services.

This site is part of EPA's coordinated Open Data efforts as described in White House Executive Order 13542 and the associated "Open Data Policy - Managing Information as an Asset" Memorandum Open Data Policy (M-13-13).

Air | Climate Change | Health Risks | Pollutants & Contaminants | Waste | Water
View All Topics | View All Data Sources

Air

- Air Pollution
- Air Quality
- Climate Change
- More air topics

Climate Change

Health Risks

- Exposure
- Health Assessment
- Toxicity
- More health risk topics

Pollutants and Contaminants

- Air Pollutants
- Drinking Water Contaminants
- More pollutant & contaminants topics

Waste

- Hazardous Waste
- Liquid Waste
- More waste topics

Water

- Drinking Water
- Surface Waters
- Watersheds
- More water topics

DATA.GOV
EMPOWERING PEOPLE

Visit EPA's Developer Central website

Quick Finder A-Z Topic Index All Topics

Air	Hazardous Waste	Soils & Land
Air Quality	Health Assessment	Spills
Chemicals	Health Effects	Surface Water
Cleanup	Health Risk	Waters
Climate Change	Monitoring	Watersheds
	Pesticides	Waste

Basic Information

Data and Developer Forum

Other Environmental Data Finders

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- CAMB CLIMATICI
- RISCHI SANITARI
- INQUINANTI
- RIFIUTI
- ACQUA

- View Alphabetical List
- Water
- Drinking Water
 - Ground Water
 - Surface Water
 - Estuaries
 - Lakes
 - Oceans
 - Rivers
 - Wastewater
 - Publicly Owned Treatment Works
 - Water Pollution
 - Water Pollution
 - Point Sources of Water Pollution
 - Watersheds

Link:
<http://http://www.epa.gov/datafinder/>



Water: Data

- Water Home
- Drinking Water
- Education & Training
- Grants & Funding
- Laws & Regulations
- Our Waters
- Pollution Prevention & Control
- Resources & Performance
- Science & Technology
 - Analytical Methods & Laboratories
 - Applications & Databases
 - Climate Change & Water Contaminants of Emerging Concern
 - Drinking Water Monitoring & Assessment
 - Research & Risk Assessment
 - Surface Water Standards & Guidance
 - Wastewater Technology
- Water Infrastructure

You are here: [Water](#) » [Science & Technology](#) » [Applications & Databases](#) » [Technical Downloads](#)

Geospatial Data Downloads

- Description
- Current State Geospatial Data
- National Geospatial Datasets
 - ATTAINS Program
 - 303(d) Listed Impaired Waters
 - 305(b) Waters As Assessed
 - 2002 Impaired Waters Baseline
 - Watershed Boundaries for the 2002 Impaired Waters
 - Impaired Waters with TMDLs
- BEACH Program
 - Beaches NHDPlus Indexed Dataset
- Water Quality Standards Program
 - 303(c) Water Quality Standards

Description

Geospatial data for EPA's Office of Water Programs, Total Maximum Daily Loads (TMDLs) are available and data services. EPA provides WATERS geospatial Systems (GIS) compatible shapefiles and geodatabases.

Link:
<http://www.epa.gov/datafinder/>

ATTAINS Program Data

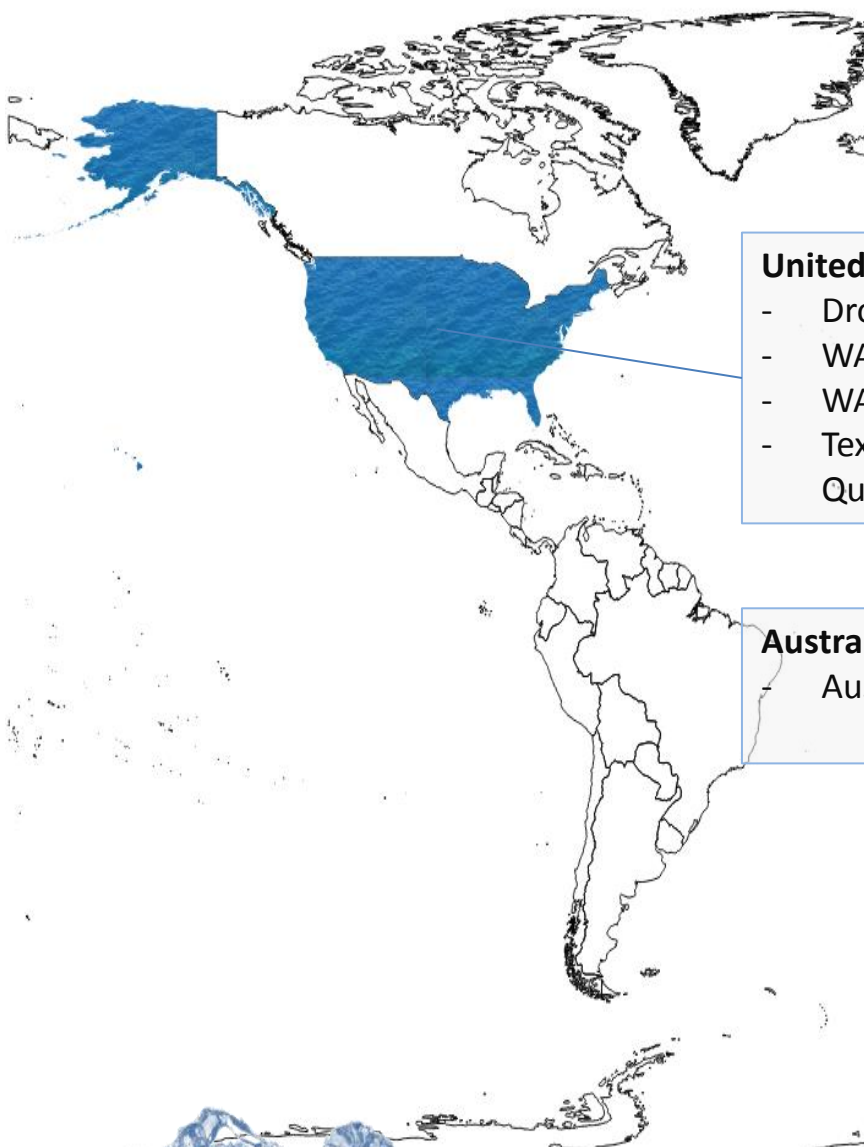
303(d) Listed Impaired Waters NHDPlus Indexed Dataset with Program Attributes

Download	Shapefiles (153 MB) OGC GeoPackage (171 MB) ESRI 10.x File Geodatabase (98.9 MB) Attributes Only (Excel, 9 MB)	SHAPEFILE OGC ESRI 10x ATTRIBUTE xls
Extracted on August 4, 2014 Changelog (Excel)(20 K)		
Metadata	Spatial and attribute metadata is located at the EPA Environmental Dataset Gateway .	
Additional Information	For this dataset as of 2014, Reach Address Database events have been indexed to NHDPlus v2.1 EXIT Disclaimer hydrology (previous versions utilized NHDPlus v1.0 hydrology). Fact Sheet (pdf)(2 pp, 473K) [Pending update to fact sheets: Users should now obtain state-level geospatial data at EPA's Environmental Dataset Gateway (EDG) Clip N Ship Site .] 303(d) Listed Impaired Waters by Causes of Impairment and Probable Sources Field Descriptions (Word)(1 pp, 20K) Pollution Category summary document (pdf)(21 pp, 604K)	

METADATA & INFO

FOCUS ON





United States

- Drought Monitor
- WATER DATA FOR THE NATION
- WATERWATCH
- Texas Commission on Environmental Quality

Australia

Australian ground water explorer





USGS Home
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Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Home Geographic Area: United States GO

Click for News Bulletins

USGS Water Data for the Nation

Search for Sites With Data

Current Conditions
Sites with real-time or recent surface-water, groundwater, or water-quality data.

Site Information
Descriptive site information for all sites with links to all available water data for individual sites.

Map of all sites with links to all available water data for individual sites.

Frequent Searches By Data Category

Surface Water
Water flow and levels in streams and lakes.

Groundwater
Water levels in wells.

Water Quality
Chemical and physical data for streams, lakes, springs, wells and other sites.

Water Use
Water use information.

- 1,5 milioni di punti di misura
- 50 Stati (US)
- Columbia District
- Puerto Rico
- Virgin Islands
- Guam
- American Samoa
- Commonwealth of Northern Mariana Islands

- Quantity
- Quality
- Distribution
- Movement of surface and groundwater waters
- Dissemination

National Water Information System (NWIS)



Link:
<http://http://waterdata.usgs.gov/nwis/>



	DESCRIPTION	SURFACE WATER	GROUND WATER	WATER QUALITY	WATER USE
CURRENT CONDITION	Rete di monitoraggio automatico – Intervallo di misura 15-60 minuti. Trasmissione ogni ora. Dati «Approvati» o «Provvisori»	9797	1559	1822	Dati di utilizzo dell'acqua nazionale sono segnalati per fonte (acque superficiali o sotterranee, fresco e salino, e totale), e la categoria per gli Stati Uniti nel suo complesso. I dati di utilizzo dell'acqua presentati qui sono le migliori stime attuali, e potrebbero essere stati rivisti da pubblicazioni precedenti.
HISTORICAL OBSERVATIONS	Serie storica della rete di monitoraggio dati disponibili dal 1 ottobre 2007	11887	2769	1822	
DAILY DATA	Sintesi giornaliera- Media, Mediana, Massimo/Minimo altri dati derivati	26827	6870	12523	
STATISTICS - DAILY	Calcolate a partire dai dati medi giornalieri approvati.	25549	3347	5145	
STATISTICS - MONTHLY					
STATISTICS - ANNUAL					
PEAK-FLOW DATA	Picco di Deflusso istantaneo annuale e altezza del battente	28667	-	-	
FIELD MEASUREMENTS	Misure manuali	68073 Portata e Livello	856114 Livello pozzi	397389 Campionamenti e analisi lab	http://waterdata.usgs.gov/nwis/wu



LIVELLO DI SICCAITA'

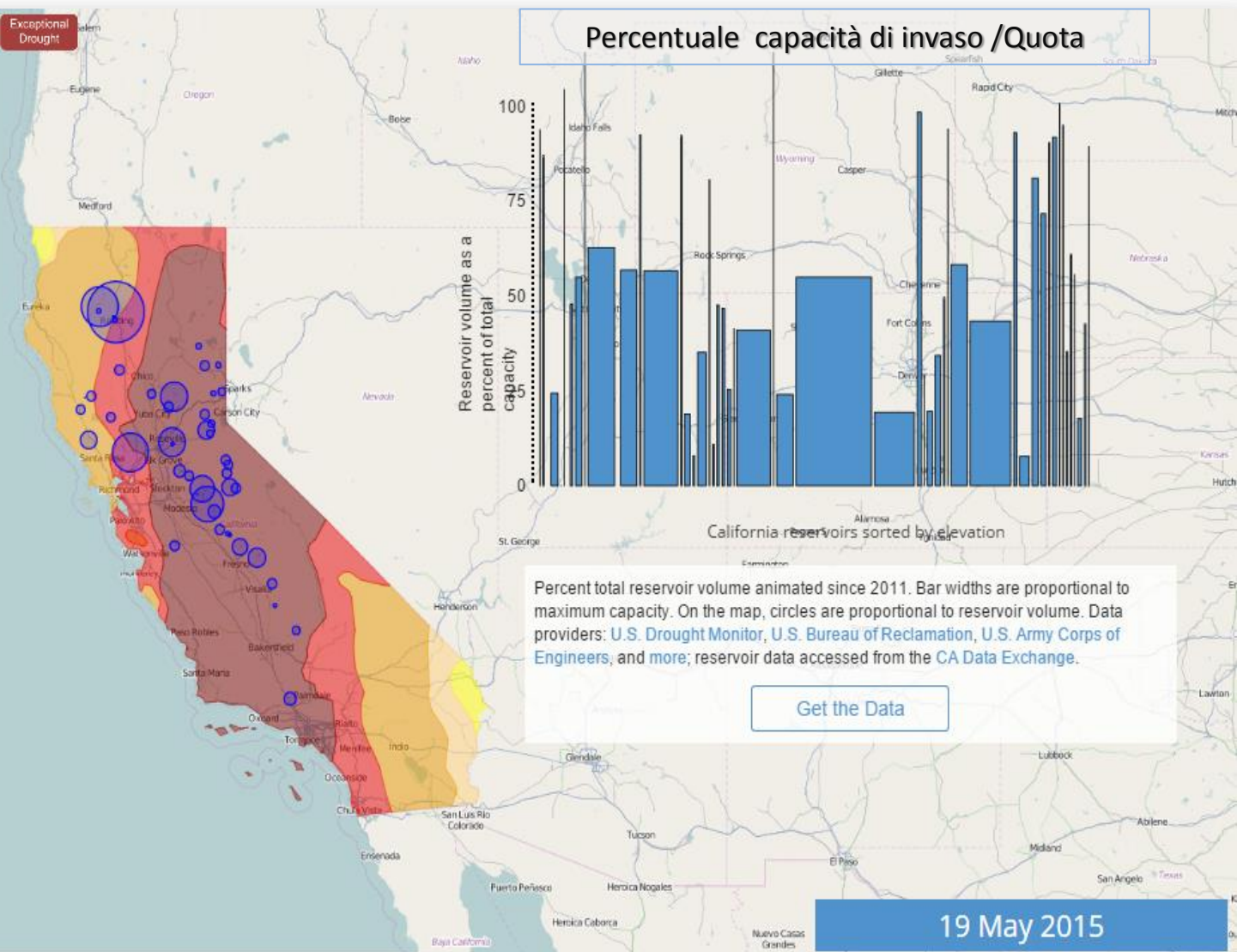
- No Drought
- Abnormally Dry
- Moderate Drought
- Severe Drought
- Extreme Drought
- Exceptional Drought

U.S. Drought Monitor

Reservoir Storage

Drought reduces snowpack and results in decreased reservoir volume.

Here, the effect of drought on 56 of California's more than 700 reservoirs is shown through time.



Percent total reservoir volume animated since 2011. Bar widths are proportional to maximum capacity. On the map, circles are proportional to reservoir volume. Data providers: U.S. Drought Monitor, U.S. Bureau of Reclamation, U.S. Army Corps of Engineers, and more; reservoir data accessed from the CA Data Exchange.

Get the Data

19 May 2015



Link:
http://http://cida.usgs.gov/ca_drought/

Data di riferimento - Dal 18 Gennaio 2011 , ogni 21 gg.



USGS

IMPIEGO ESCLUSIVO DI OPENDATA

INTERVALLO TEMPORALE DI RIFERIMENTO

I LINK INTERNI PORTANO
DIRETTAMENTE ALLA RISORSA

I DATI DI ORIGINE E I METODI DI
ELABORAZIONE:

- DATI SULLA SICCAITA'
- DATI SULLE RISERVE IDRICHE
- DATI NEVOSI
- DATI DI PORTATA



Link:

http://cida.usgs.gov/ca_drought/

California drought, vizualized with open data

http://cida.usgs.gov/ca_drought

Time period

2011-present weekly data representation

Data sources and methods

Dataset sources and methods used are briefly described on the page below. Follow links indicated below to access public data repositories. To access the specific datasets visualized at http://cida.usgs.gov/ca_drought, follow this link <https://github.com/USGS-CIDA/CIDA-Viz> and access repositories (e.g., reservoir datasets are found in ca_reservoir folder), or use the links below.

Drought data

- Data are plotted for the conterminous U.S. and for the State of California in the background map of the site.
- Site data and shapetiles from U.S. Drought Monitor: <http://droughtatlas.unl.edu/Services/DroughtMonitor/Timeseries/>
- Dataset and detailed methods can be found at https://github.com/USGS-CIDA/CIDA-Viz/tree/master/ca_drought

Reservoir data

- Reservoir capacities (State of California jurisdiction): <http://www.water.ca.gov/damsafety/docs/Jurisdictional2014.pdf>
- Reservoir capacities (Federal jurisdiction): <http://www.water.ca.gov/damsafety/docs/Federal2010.pdf>
- Reservoir time series data: <http://oeco.water.ca.gov/cgi-progs/queryDaily>. Reservoirs with daily observational data in the State of California are visualized; weekly averaged reservoir storage as a percent of total storage capacity is plotted through time.
- Reservoir area: Map depicts change in water area at Trinity Lake and Shasta Lake is based on Landsat satellite imagery collected on August 8, 2011, and August 16, 2014. Imagery were processed using algorithms presented in Xu (2007): http://info.asprs.org/publications/pers/2007journal/december/2007_dec_1381-1391.pdf. Map produced by Dr. Jamon Van Den Hoek (jamon.vandenhoeck@nasa.gov) at the NASA Goddard Space Flight Center.
- Datasets and detailed methods can be found at https://github.com/USGS-CIDA/CIDA-Viz/tree/master/ca_reservoir

Snow data

- Snow water equivalent data from US Department of Agriculture, Conservation Service SNOTEL: <http://www.wcc.nrcs.usda.gov/snow/>
- Retrieved all data from Snotel sites with monthly data from 2010 to 2014
- Averaged each month for all sites to get monthly average snow in water equivalent
- Dataset and detailed methods can be found at https://github.com/USGS-CIDA/CIDA-Viz/tree/master/ca_snow

Discharge data

- Unregulated stream sites in California identified from U.S. Geological Survey GAGESII dataset: http://water.usgs.gov/GIS/metadata/usgswrd/XML/gagesII_Sept2011.xml
- Current and historical discharge data from U.S. Geological Survey NWIS dataset: <http://waterdata.usgs.gov/nwis/sw>
- Log-transformed current discharge data are plotted against log-transformed mean discharge since 1980 for the day of year visualized, after the methods employed by and described at U.S. Geological Survey Water Watch: <http://waterwatch.usgs.gov/>.
- Datasets and detailed methods can be found at https://github.com/USGS-CIDA/CIDA-Viz/tree/master/ca_discharge

Focus On



U.S. Droughth monitor

USGS



HomeMaps And DataSupplemental InfoAbout USDMUSDM NewsUpdate Bookmarks

United States Drought Monitor

Maps And Data

Maps and Data

Weekly Comparisons

Compare two U.S. Drought Monitor weeks side by side.

Map Archive

View any map format for a selected week.

Change Maps

View a series of change maps for a selected week.

Data Tables

View the U.S. Drought Monitor data in tabular format for a selected area.

Population Data

Animations

View and animated series of maps or download animated GIF files.

GIS Data

Get GIS data files for each week including shapefiles, kmz, wms and more.

Metadata

Information about the GIS data and other U.S. Drought Monitor data file formats.

Maps and Data Services

Information on how to obtain U.S. Drought Monitor maps and data or display them on a website.

FSA Eligibility Tool

See which counties in the U.S. are eligible for drought relief payments from the Farm

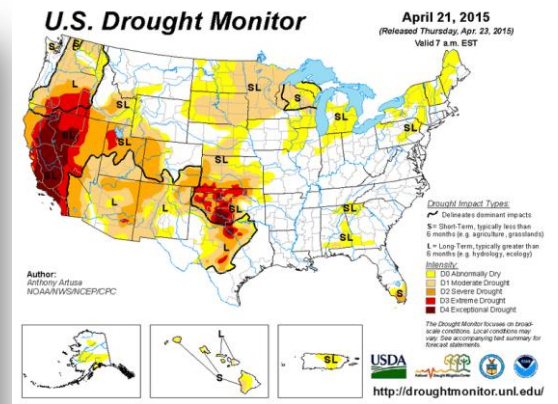
Data

Download all Drought Monitor shapefiles for 2015

Date	KMZ	Shapefiles	GML	WMS	Statistics			
2015-05-26	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-05-19	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-05-12	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-05-05	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-04-28	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-04-21	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-04-14	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-04-07	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-03-31	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-03-24	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-03-17	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-03-10	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-03-03	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-02-24	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-02-17	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-02-10	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-02-03	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-01-27	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-01-20	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-01-13	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County
2015-01-06	KMZ	SHP	Impacts	GML	WMS	U.S.	State	County

The National Drought Mitigation Center | 3310 Holdrege Street | P.O. Box 830988 | Lincoln
phone: (402) 472-8707 | fax: (402) 472-2946 | [Contact Us](#)

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Sistema di monitoraggio della siccità attivo dal 1999, con creazione di mappe di siccità settimanali. Il portale mette a disposizione una sezione dedicata alla metodologia di elaborazione dei dati e una sezione dedicata ai rimborsi per gli agricoltori

Link:

<http://http://droughtmonitor.unl.edu//>



WaterWatch

Search WaterWatch ...

Home

Current Streamflow

Flood

Drought

Past Flow/Runoff

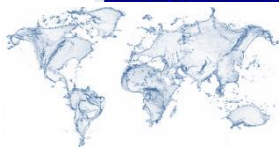
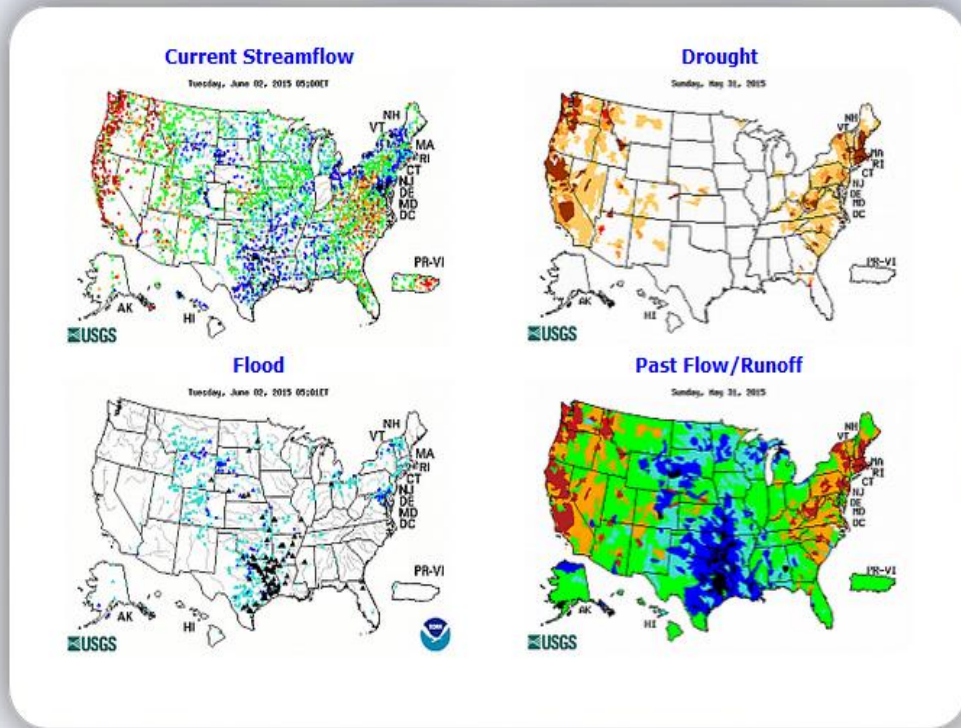
Animation

Toolkit

Annual Summaries

Additional
Information

About WaterWatch



Link:
<http://http://waterwatch.usgs.gov/>



USGS

WaterWatch

Real-Time

Home

Current Streamflow

Flood

Drought

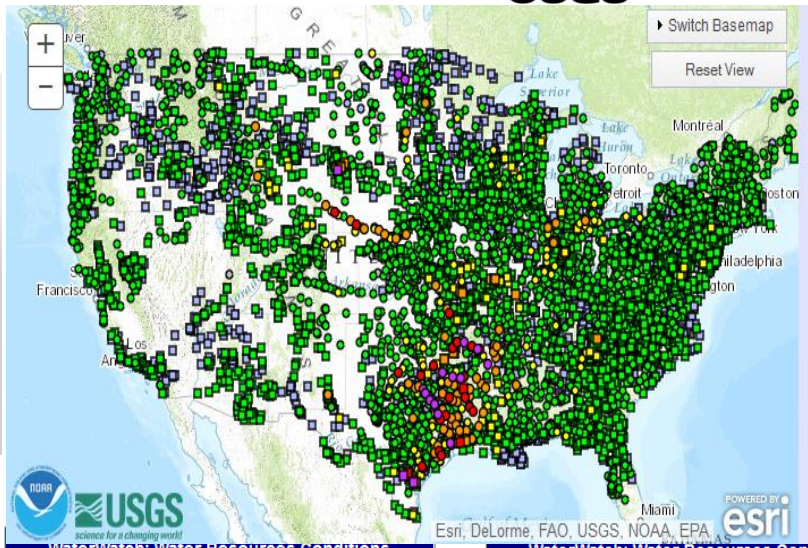
Daily Streamflow

7-day Average Streamflow

14-day Average Streamflow

28-day Average Streamflow

Monthly Average Streamflow



7250 total gauges

Show all locations in flood (126)

- 17 Gauges: Major Flooding
- 27 Gauges: Moderate Flooding
- 82 Gauges: Minor Flooding
- 155 Gauges: Near Flood Stage
- 4792 Gauges: No Flooding
- 1911 Flood Category Not Defined
- 2 At or Below Low Water Threshold
- 245 Gauges: Observations Are Not Current
- 19 Gauges: Out of Service

WaterWatch: Water Resources Conditions

Summary Hydrograph Peak Forecast

USGS 07316000 Red River near Gainesville, TX

Discharge: 67300 cfs

Stage: 32.29 ft

Date: 2015-06-02 03:30:00

Flood stage: 25 ft

Percentile: 99.13 %

Class: Above flood stage

% normal(median): 8088.94%

% normal(mean): 2110.92%

powered by USGS WaterWatch

WaterWatch: Water Resources Conditions

Summary Hydrograph Peak Forecast

USGS 07388000 Red River near Gainesville, TX

Additional Information:

- WaterAlert email and text message alerts
- Subscribe WaterAlert for this site

WaterWatch: Water Resources Conditions

Summary Hydrograph Peak Forecast

07316000 Red River near Gainesville, TX

Additional Information:

- Discharge-based version of this graph
- USGS Peak Streamflow
- Subscribe WaterAlert for this site

WaterWatch: Water Resources Conditions

Summary Hydrograph Peak Forecast

RED RIVER NEAR GAINESVILLE

Graph Created (H HAW Jun 2 2015) | Observed | Forecast (based on 10 AM Jun 2)

RESOCONTO

Link:
<http://http://waterwatch.usgs.gov/>

IDROGRAMMA

MASSIME PIENE

PREVISIONE

Focus On



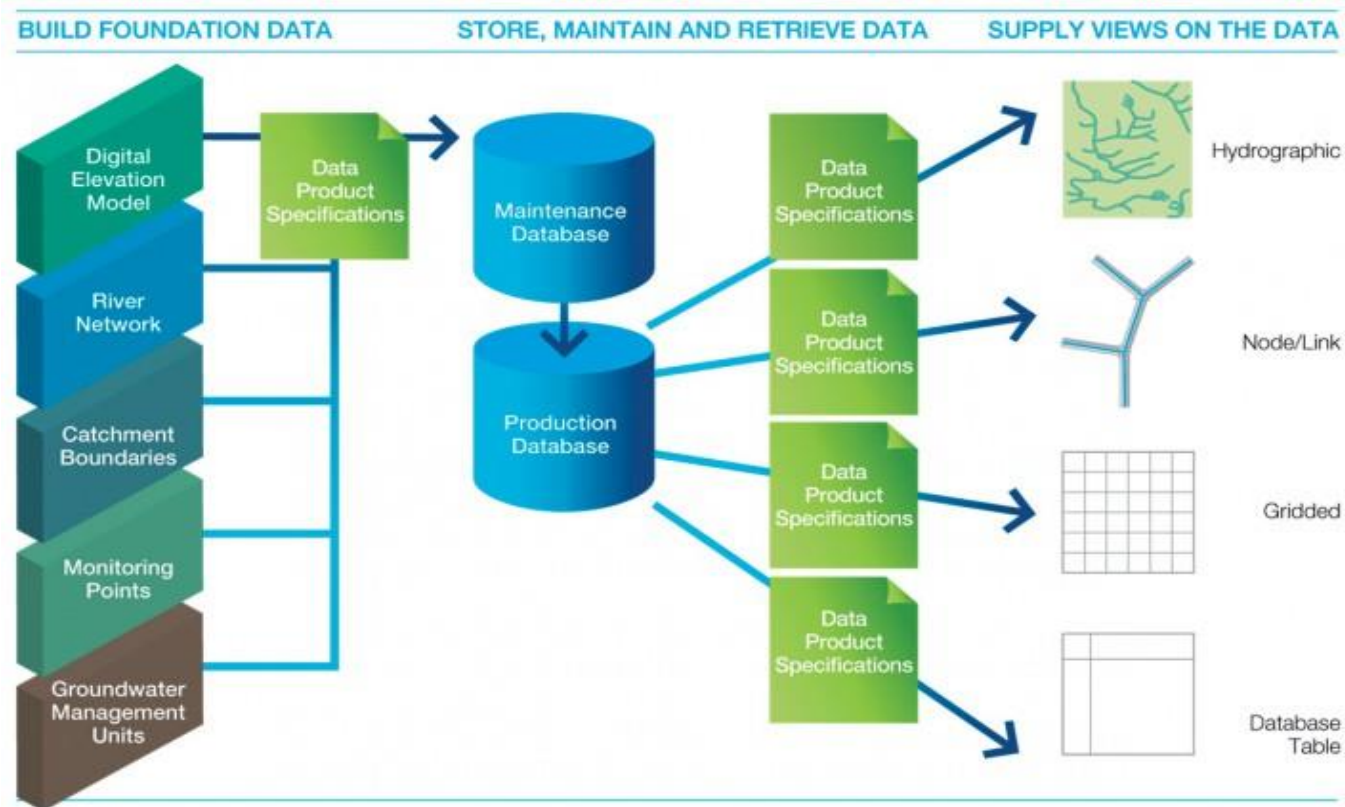
GEOFABRIC

Australian Gov. Bureau of
Meteorology



I dati delle acque in Veneto

Seminario
Padova | 9 giugno 2015 | ore 9.30
Sala Paladin - Palazzo Moroni



DOWNLOAD

- ESRI GEODbB
- WMS
- WFS
- Toolset for ARCGIS



Link:

<http://www.bom.gov.au/water/geofabric/download.shtml>



Quick Search

Layers

Bores

General

All Bores

By Purpose

By Status

Availability of bore data

Construction log

Hydrostratigraphy log

Lithology log

Screened hydrogeologic unit

Water level

3D hydrogeology models

Landscape characteristics

River region

Groundwater management areas

Sedimentary basins

Surface geology

Elevation

Context

Places

State and Territory borders

Roads

Inland water

Legend

Search

Map of Australia with a red dot in the south-east.

94.17118, -41.11788

Selection Size: 28

Current Scale: 27,856,764

SEARCH RESULTS

Explorer Site Id	State/Territory	Bore Depth (m)	Status	Drilled Date	Aggregated Bore Purpose	Aggregated Bore Status	HGU Name	Screened HGU	Construction Log	Lithology Log	Hydrostratigraphy Log	Water
573700326	SA	16	Unknown	16/12/1987	Unknown	Unknown	Unknown	false	false	false	true	fa
573700331	SA	12	Unknown	16/12/1987	Unknown	Unknown	Unknown	false	false	false	true	fa
573700011	SA	46.63	Decommissioned	28/02/1927	Stock and Domestic	Non-functional	Unknown	false	true	true	false	fa
573700324	SA	11	Unknown	16/12/1987	Unknown	Unknown	Unknown	false	false	false	true	fa
573700187	SA	80	Unknown	09/10/1991	Unknown	Unknown	Unknown	false	false	false	true	fa
573700327	SA	18	Unknown	16/12/1987	Unknown	Unknown	Unknown	false	false	false	true	fa

Page 1 of 2 | 20 Items per page

Link:

<http://www.bom.gov.au/jsp/weave/ngis.html?max=true>

826345 Pozzi

Niccolò Iandelli – Geologo – Phd NT&ITA – IUAV – niccogeo@gmail.com



Search Results (780)

SEARCH RESULTS

Pan Zoom Remove Refine Export Detailed Results

Explorer Site Id	State/Territory	Bore Depth (m)	Status	Drilled Date	Aggregated Bore Purpose	Aggregated Bore Status	HGU Name
GW018221.1.1	NSW	1.5	Unknown	01/01/1959	Irrigation	Unknown	Unknown
GW801932.1.1	NSW	0.2	Functional	07/04/2003	Water Supply	Functional	Unknown
GW042860.1.1							
GW017705.1.1							
GW803558.1.1							
GW062634.1.1							

Results

Bore (1) Construction log Lithology log

Export

Explorer Site Id	Bore ID
GW803558.1.1	GW803558.1.1

Results

Bore (1) Construction log (3) Lithology log (7)

Export

Explorer Site Id	Depth From (m)	Depth To (m)	Top Elevation (m AHD)	Bottom Elevation (m AHD)
GW803558.1.1	0	3	881.03	878.03
GW803558.1.1	1.5	3	879.53	878.03
GW803558.1.1	0	3	881.03	878.03

- Agency
- Bore
- Construction log
- Construction material
- Construction type
- Coordinates and elevation
- Coordinates and elevation method
- Drilling method
- Groundwater management area
- Groundwater management area type
- Height datum
- Hydrostratigraphy log
- Lithology log
- Property
- Purpose
- Reference elevation description
- Status
- Variable
- Variable units

Download

Location: Northern Territory

Type: Shapefile

Shapefile

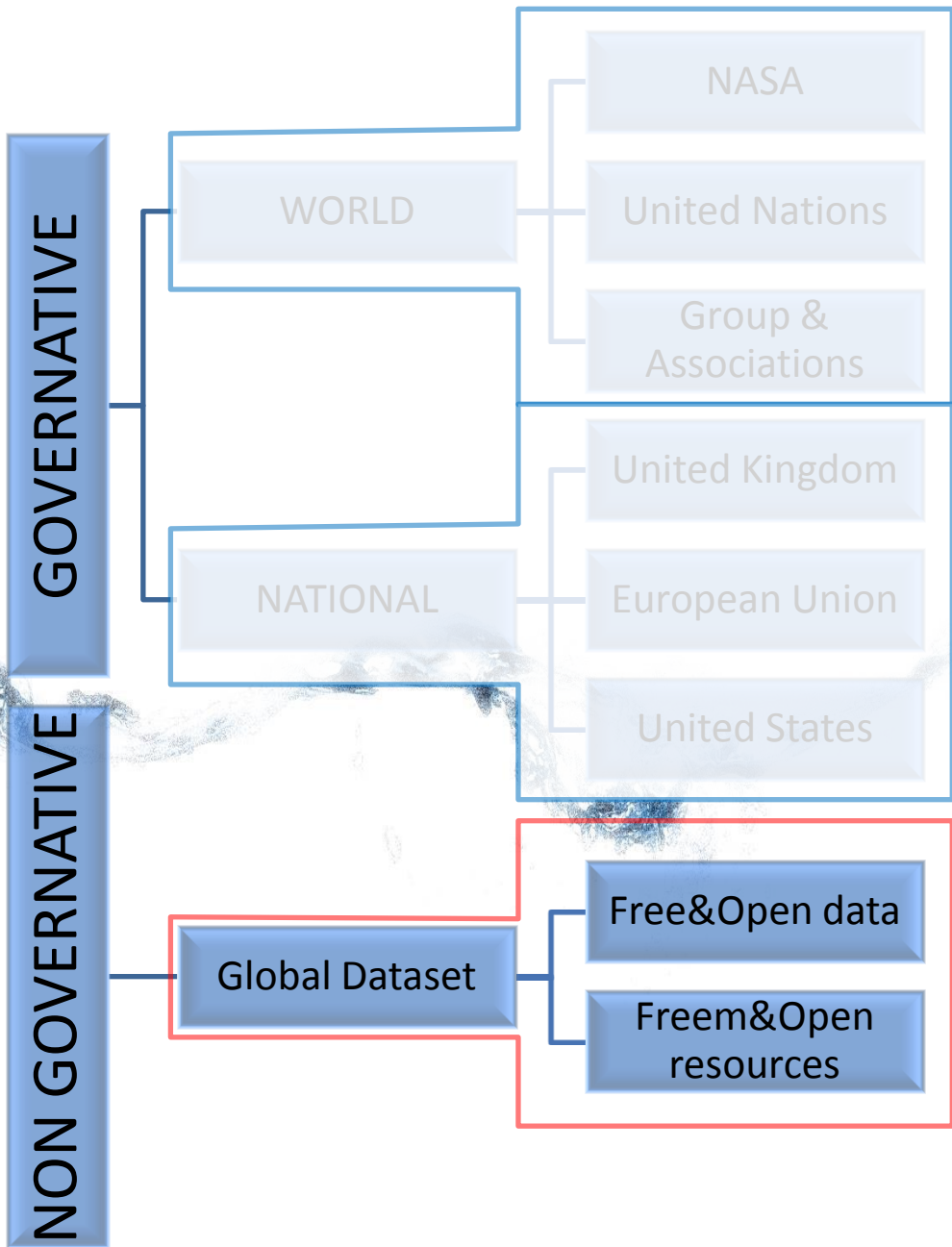
KML

File Geodatabase

OK Zoom To Cancel

Link:

<http://www.bom.gov.au/waterdata/>



INTERNATIONAL FOUNDATION:

- Open Water Foundation
- World Resources Institute

GENERAL OPENDATA:

- Open Data Monitor

RESOURCES:

- OpenWaters SW
- Water-Switch-on
- The nymph DAIAD
- CKAN Open-source data portal platform



[f](#) [in](#)

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Open data. Open software. Open decisions.

About OWF

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Using your project, grant, and donation funding for positive social impact.

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Open source software tools for water resources

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Contact Us:
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Address:
320 E. Vine Drive, Suite 315 / Fort Collins, CO 80524

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 - Water Resources
 - Social Enterprise



Link:
<http://openwaterfoundation.org>



Organizzazione di ricerca globale che comprende più di 50 paesi.



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RESOURCES
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Enter a term 🔍

🏠 → Maps & Data

MAPS & DATA

Charts & Graphs

Data Visualizations

Data sets

Maps

Presentations

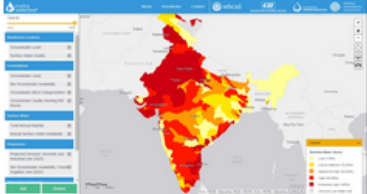
Videos

MAPS & DATA

WRI produces **maps, charts, data sets, infographics, and other visual resources** as part of our commitment to turn “information into action.” These products are based on our data and research, which are held to traditional **academic standards of excellence**, including objectivity and rigor.

Browse our full library of visual resources, or search by type, topic, or geography via the *Advanced Search* option.

FEATURED MAPS & DATA



India Water Tool

MAP

The India Water Tool Version 2 (IWT 2.0) is an online tool for companies and other users to understand their water-related risks and prioritize actions toward sustainable water management.

Read More ➔



Link:
<http://www.wri.org>

OPEN DATA MONITOR

VISUALISATIONS

DATA CATALOGUES

ABOUT

ALERT MONITOR



European
Data Catalogues
Visualisations

- Dashboard ●
- Open licenses ○
- Total vs open ○
- Unique publishers ○

COMPLEXITY LEVEL

- Basic ○
- Advanced ○
- Expert ○

 Pending Catalogues

HARVESTED DATA CATALOGUES

70

From 226 Planned Catalogues

COUNTRIES HARVESTED

18

From 28 European Member Countries

OPEN LICENSES

23%

In 202,474 distributions with a license attached

MACHINE-READABLE

17%

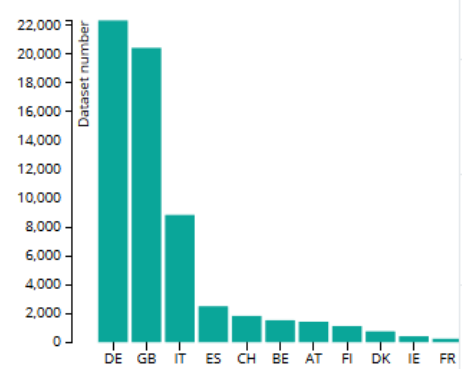
Found in 381,735 distributions harvested

DATASETS HARVESTED ⓘ

163,823

TOTAL SIZE

0.52 TB



Distributions ⓘ

Total distribution

381,735

Distribution maximum size

37.8 MB

Distributions with a license attached

202,474

53%

Distributions with an open license

88,603

23%

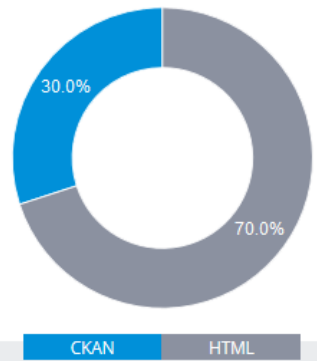
Distributions machine-readable

66,747

17%

Software platform in the harvested catalogues

The OpenDataMonitor platform provides information and statistics on European open data catalogues, harvested through two methods. The first, CKAN, is currently the most widely used open source data management system. In addition, for those catalogues that are not built on an open source management system, HTML scraping procedures are being used to extract information from websites. We are also exploring the feasibility of working with other publishing platforms to improve the coverage of data.



Link:

<http://www.opendatamonitor.eu>

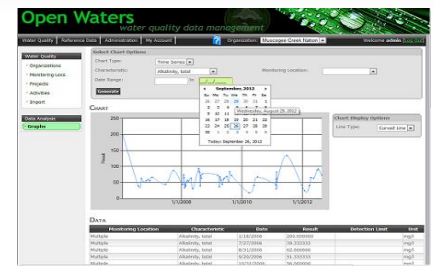
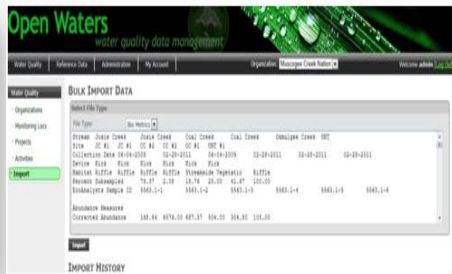
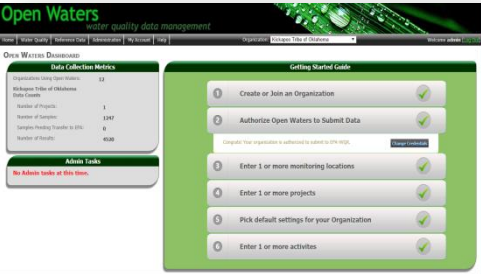


Free Open Source Water Quality Data Management

Open Waters is a free, open source water quality data management system intended for government agencies to manage water quality data. Use the links on the right to get the latest version of the software.

Important Links

- ▶ Installation Package (v1.7)
- ▶ Installation/User's Guide (v1.7)
- ▶ Source Code (v.1.7)
- ▶ Change Log



Gestire una vasta gamma di dati sulla qualità dell'acqua: siti di monitoraggio, progetti, campioni e risultati. Supporta campioni prelevati sul campo, analisi chimiche, la valutazione degli habitat, monitoraggio biologico, e metriche / indici.

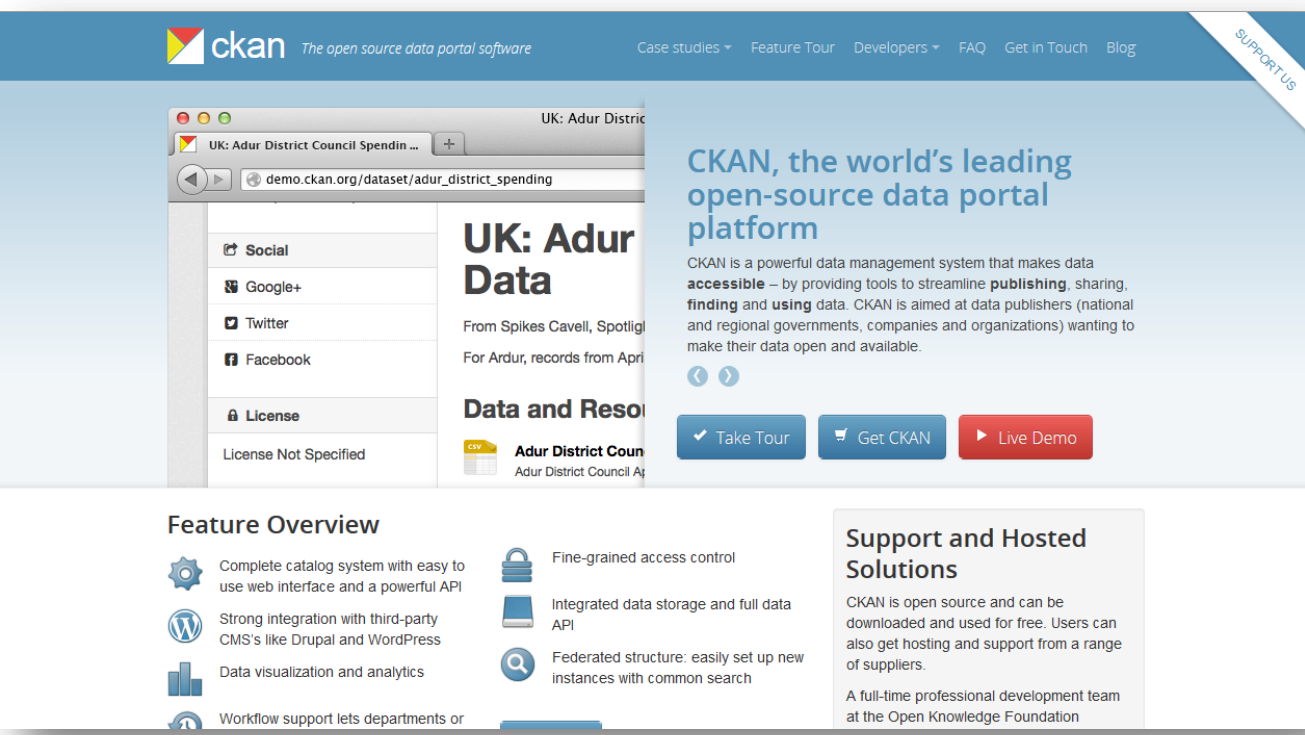
Sincronizzazione automatica bidirezionale con il sistema WQX di EPA (Environmental Protection Agency US)

Visualizzazione e gestione di dati geospaziali

Importazione di file CSV e EXCEL di grandi dimensioni
Esportazione dei dati
Creazione di grafici
Personalizzazione interfaccia



Link:
<http://open-environment.org/openwaters.html>



Il codice base di CKAN viene mantenuto dalla Open Knowledge Foundation. Il sistema è usato da varie pubbliche amministrazioni nell'ambito della loro strategia di pubblicazione di dati aperti, come:

- data.gov.uk in Gran Bretagna,
- Data.gov negli USA
- Provincia Autonoma di Trento Regione Piemonte
- Regione Emilia-Romagna

Comprehensive Knowledge Archive Network (CKAN)

Sistema open source e basato sul web per l'immagazzinamento, la catalogazione e la distribuzione di dati, quali ad esempio fogli di calcolo o contenuti di database.



Informazioni spaziali complete e regolarmente **aggiornate** a **livello globale, regionale e nazionale. FAO**

L'obiettivo è di **raccogliere** e **diffondere** **informazioni affidabili, imparziali, e tempestive** che sono necessarie per **comprendere** le **risorse** idriche della nazione.
USGS

*"The **UN-system** has accumulated over the past **60 years** an **impressive amount of information**. Undata is a **new powerful tool** which will bring this **unique and authoritative set of data** not only to the desks of **decision makers** and **analysts**, but also to **journalists**, to **students** and to all **citizens** of the world."* - **United Nation**

Rendere disponibili le informazioni ambientali è la chiave per **supportare** le **decisioni**, **influenzare** le **azioni** e **garantire supporto** al **miglioramento** della **qualità dell'ambiente**.
DATA.GOV.UK

Open data-Open software-Open decisions.
OpenWaterFoundation

«[...]un futuro in cui le **decisioni** e le **azioni** a favore del genere umano siano realizzate attraverso un **coordinamento** globale e **sostenute** da **osservazioni** e **informazioni** provenienti dai **sistemi di osservazione** e **monitoraggio** della Terra." – **GEO group**

[...] **maps, charts, data sets, infographics**, and other visual resources **as part** of our commitment **to turn "information into action."** [...] Our approach involves **three** essential **steps**: **Count It, Change It, and Scale It.** - **WRI**



I DATI DELLE ACQUE NEL MONDO

Panoramica della disponibilità internazionale



GRAZIE PER L'ATTENZIONE