



Research infra-structures: the case for integrating freshwater biodiversity data

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 @aaik



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Taking freshwater biodiversity into account in water policy

- Data – solid scientific foundation for policy
- Baseline data – halting biodiversity loss
- Data on connectivity of freshwater environments

ENVIRONMENTAL POLICY

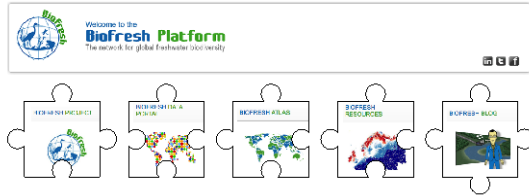
EPA Science Report Signals Start Of Wetlands Battle

Science 343, 3 Jan. 14, p. 15

2010



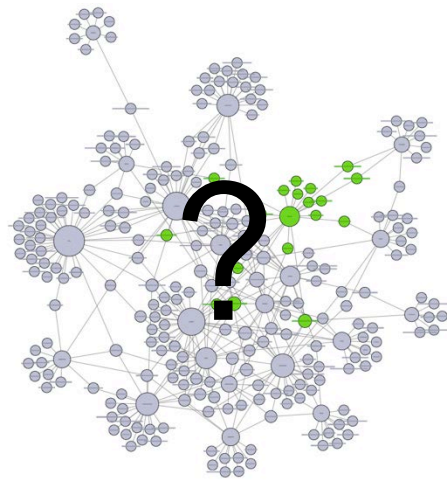
2014



Vines et al. (2014) *The Availability of Research Data Declines Rapidly with Article Age*. *Current Biology* 24, 1-4.

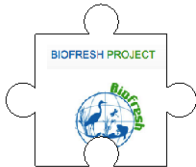
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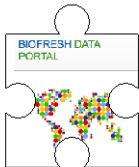
<http://datadryad.org/pages/integrated-journals>

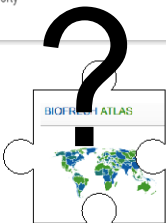


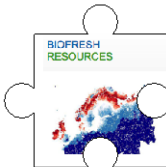
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The network for global freshwater biodiversity

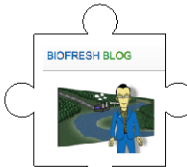
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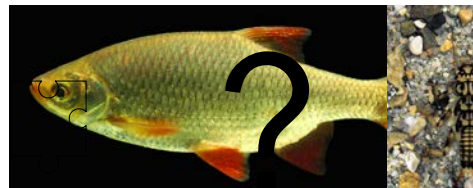
 BIOFRESH PROJECT

 BIOFRESH DATA PORTAL

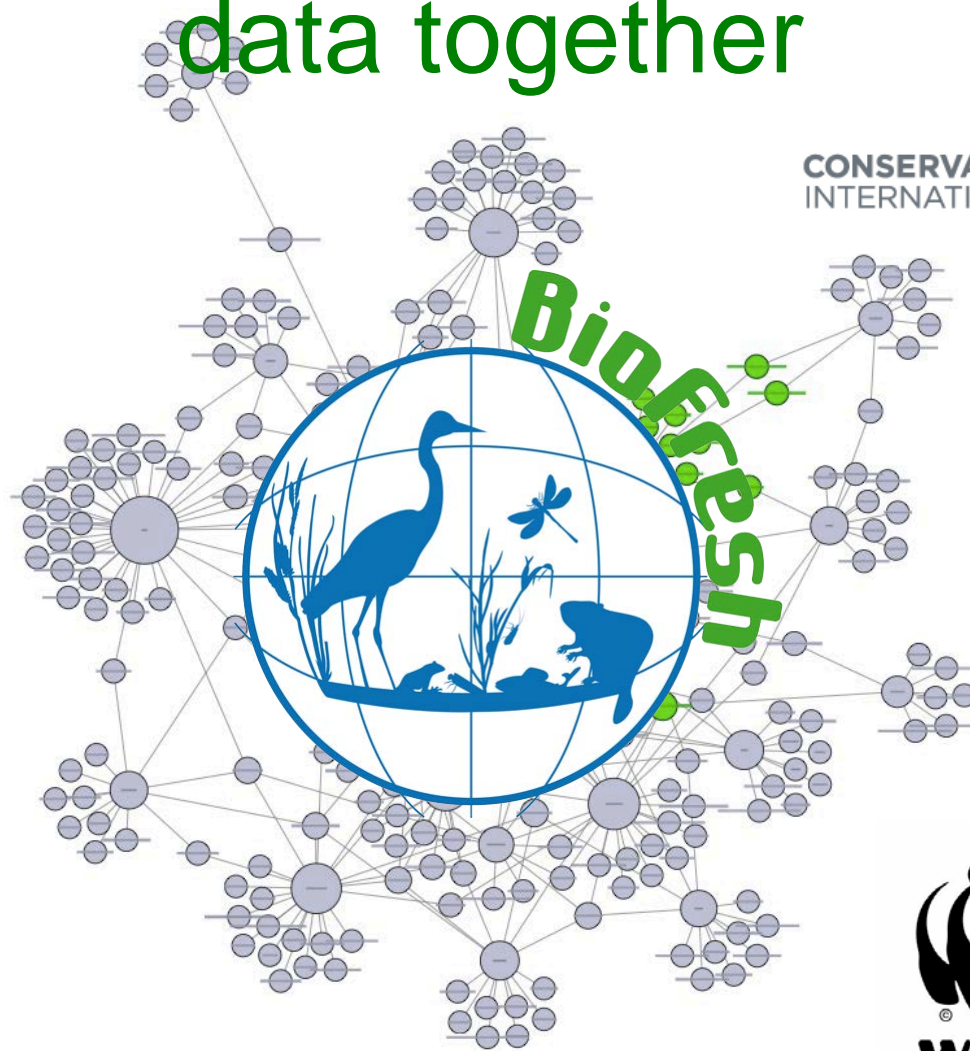
 BIOFRESH ATLAS

 BIOFRESH RESOURCES

 BIOFRESH BLOG



BioFresh: bringing expertise and data together



www.freshwaterbiodiversity.eu



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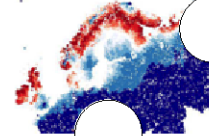
BIOFRESH DATA
PORTAL



BIOFRESH ATLAS



BIOFRESH
RESOURCES



BIOFRESH BLOG





Welcome to the
BioFresh
The network for global

HOME

DATA PORTAL HOME

SPECIES

REGISTER



Global Freshwater Biodiversity Atlas

The gateway to freshwater biodiversity maps

HOME

ATLAS HOME PAGE

ABOUT

ABOUT THE ATLAS

EXPLORE

CONTENT AND SEARCH

MAPS

MAP INTERFACE

CONTRIBUTE

HOW TO PUBLISH MAPS

MANUALS

FIND HELP HERE

A A A Logout

Searching datasets, species

The data portal offers searches

- Information on datasets (metadata): search containing a specific keyword. – Go to [dataset](#)
- Information on species: search species via information and conservation status. – Go to [species](#)
- Species occurrence data: visualise and BioFresh network. – Go to [occurrence search](#)

Introduction to the data portal

Introduction to
by Paul Jepson

Press to

Prezi

A collaborative global freshwater

The aim of this data portal, which we are building, is to collect their data(base) and to provide tools for the community.

Advertise and/or publish your data on freshwater biodiversity

In order to reach the above mentioned goal, we want to integrate a large amount of databases in the metadatabase and the occurrence database. We would appreciate your support by a) documenting your database in the metadatabase, b) submitting/publishing data or by c) producing a data paper. Have a look [here](#) for more details.

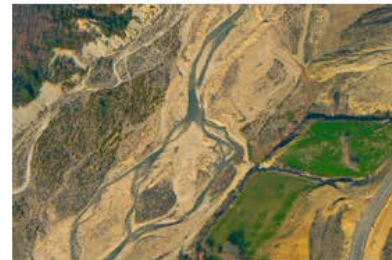


EXPLORE



Browse through Atlas chapters or search for topics

MAPS



View spatial data sets in the mapping interface

CONTRIBUTE



Publish your freshwater biodiversity related maps

Edited and developed by



Welcome to the Global Freshwater Biodiversity Atlas!

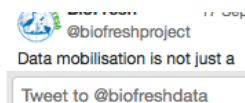
The Atlas is a product of **collaboration** by numerous **scientists, organisations and projects** active in freshwater biodiversity research and conservation. Our **map collection** is **continuously growing**. Please visit us again!

Supported by



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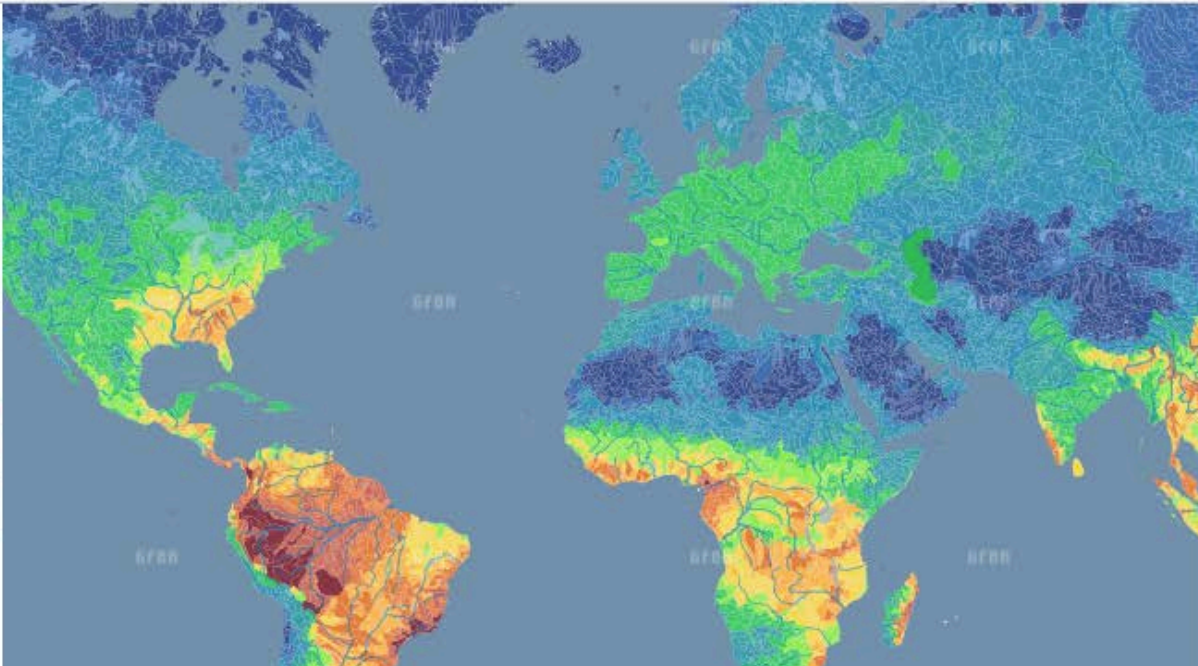
NAVIGATION

Map

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MAP LAYERS

LAYER CAPTION

Global freshwater amphibian species richness mapped to HydroBASIN catchments (level 6)

LEGEND

Total number of freshwater amphibian species

- 0
- 1
- 2 - 5
- 6 - 10
- 11 - 20
- 21 - 30
- 31 - 40
- 41 - 50
- 51 - 75
- 76 - 100

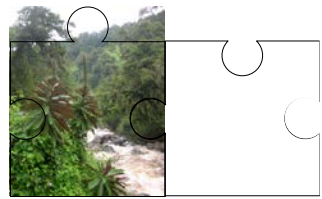
OVERVIEW MAP

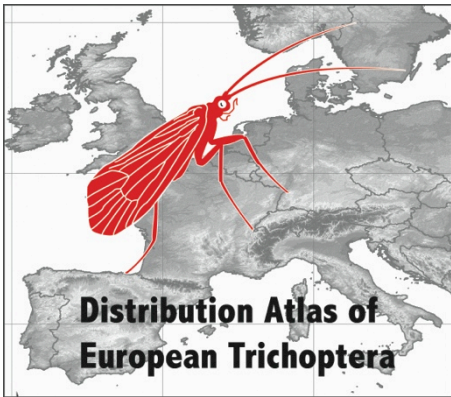


theories pass,
the frog remains

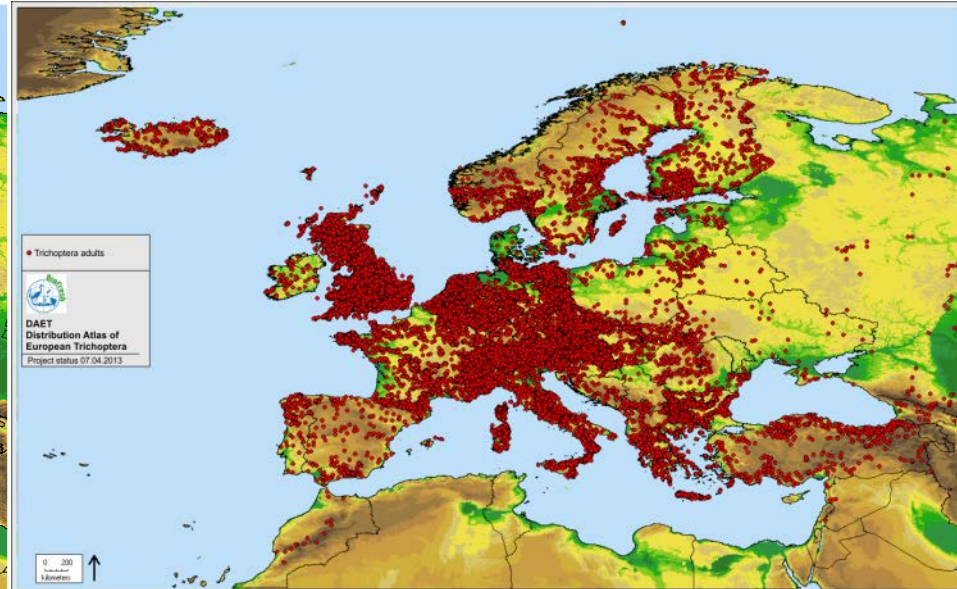
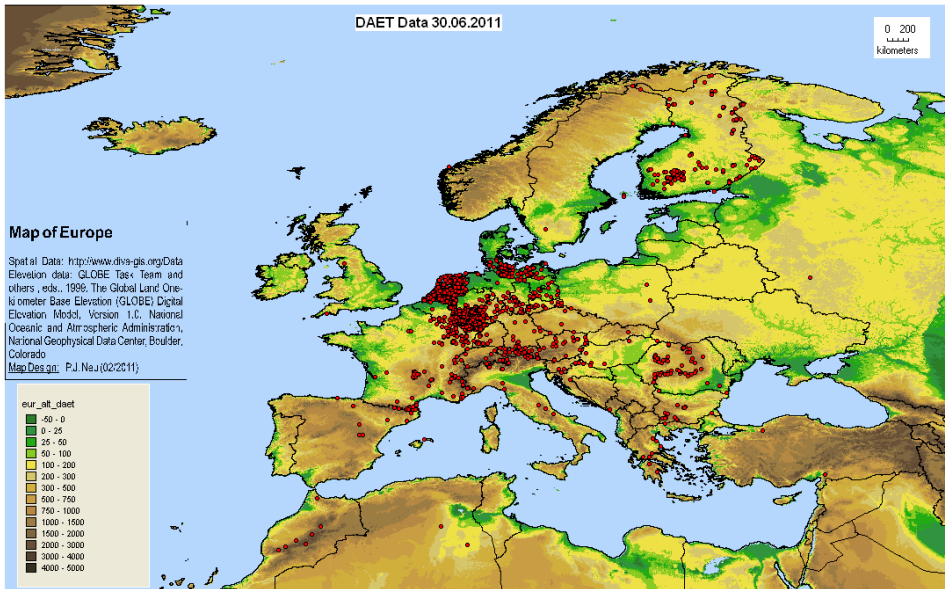
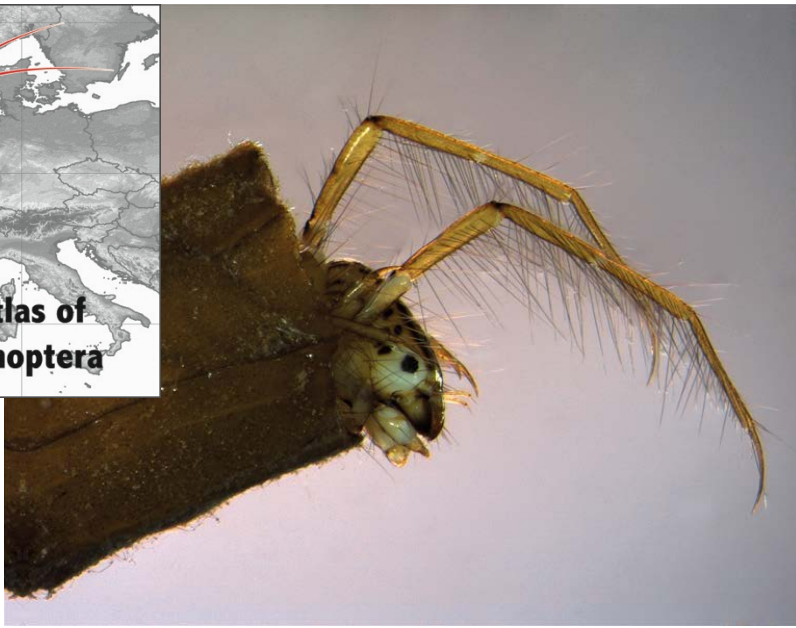
~ Jean Rostand

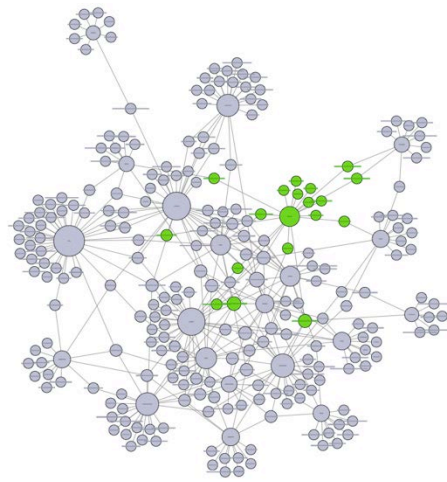








Caddisflies [E],
 Köcherfliege [D],
 ver d'eau [F]
 kokerjuffer [N]







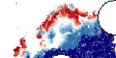
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**Research infra-structures:
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freshwater biodiversity data**

Matthias Obst @



Are we ready to build a Hubble telescope to study biodiversity?

Virtual research infrastructure and interoperability systems

Data repositories and information systems

Data generating infrastructures



LifeWatch, DataONE

PESI, WORMS, OBIS, GBIF, GeneBank, Pangea

ILTER, GenomicObservatories, NHM's, BON's, EarthObservatories, etc



Nick Davidson, Dec. 2011

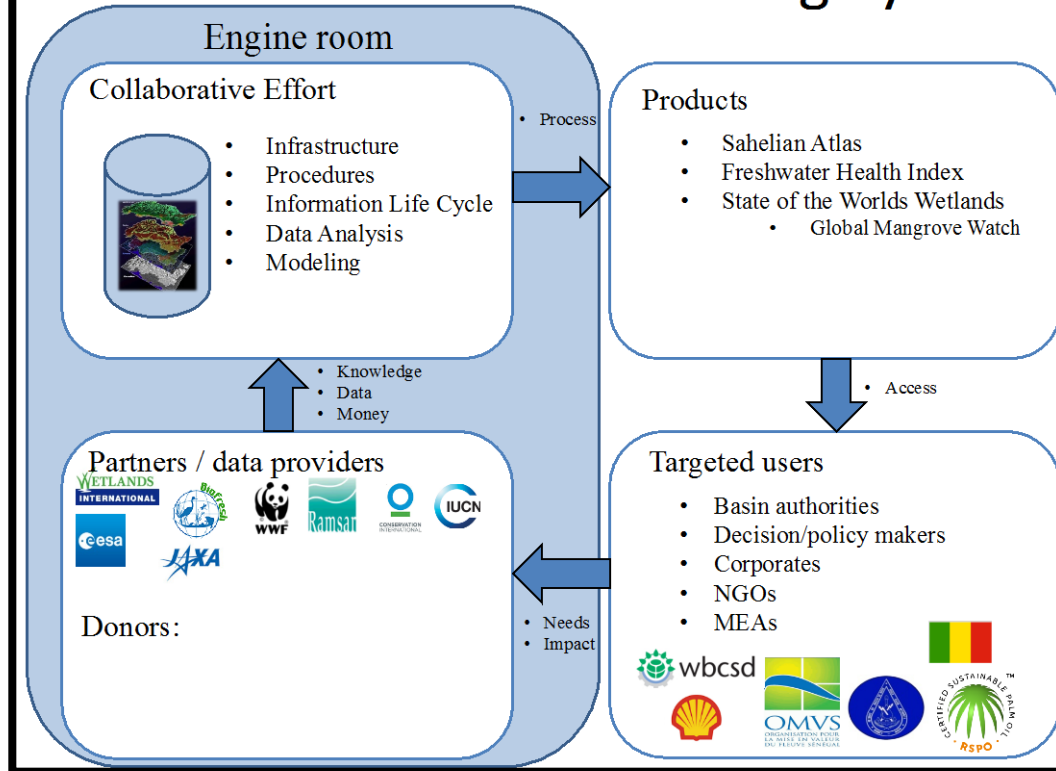
The State of the World's Wetlands and their ecosystem services

1st Edition 2015



Stephan Flink & Lammert
Hilarides, Dec. 2013

Global Wetlands Observing System





Thanks!



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Data contributors and partners

Coordination and data WP-leads: **Astrid Schmidt-Kloiber**, **Nicolas Bailly**, Klement Tockner, Koen Martens

Platform development: Jörg Strackbein

Metadatabase development: Robert Vogl

Atlas development: **Vanessa Bremerich**

Data portal development: **Michel Kapel**, **Bos Debusscher**

...

