

A French Long Term Ecological Research Basin: The Rhone Basin



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ILTER: definition

→ Environmental Observatories in which science helps to prevent and solve environmental and social problems → anthropoecosystems

→ Places for interdisciplinary effort to:

- detect changes,
- understand the basis and impacts on socio-ecological systems,
- come up with tenable solutions

by:

- analysing the ecological patterns,
- understanding processes and phenomena over long temporal and large spatial pattern

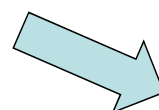


<http://www.cern.ac.cn/0index/index.asp>



<http://www.ilternet.edu/>

<http://www.lter-europe.net/>



<http://ilternet.edu/>

An Observatory of the Rhone Basin hydrosystems

→ 4 research axes

Fluxes, shapes, habitats, biocenosis

What are the relationships between physical habitats, hydrology, river dynamics and biodiversity? What are the management actions and their consequences on environment?

Opinion of citizens about remediation decisions or of pollution consequences

Social studies of the river and governing

Pollutant fluxes, ecotoxicology, ecosystems

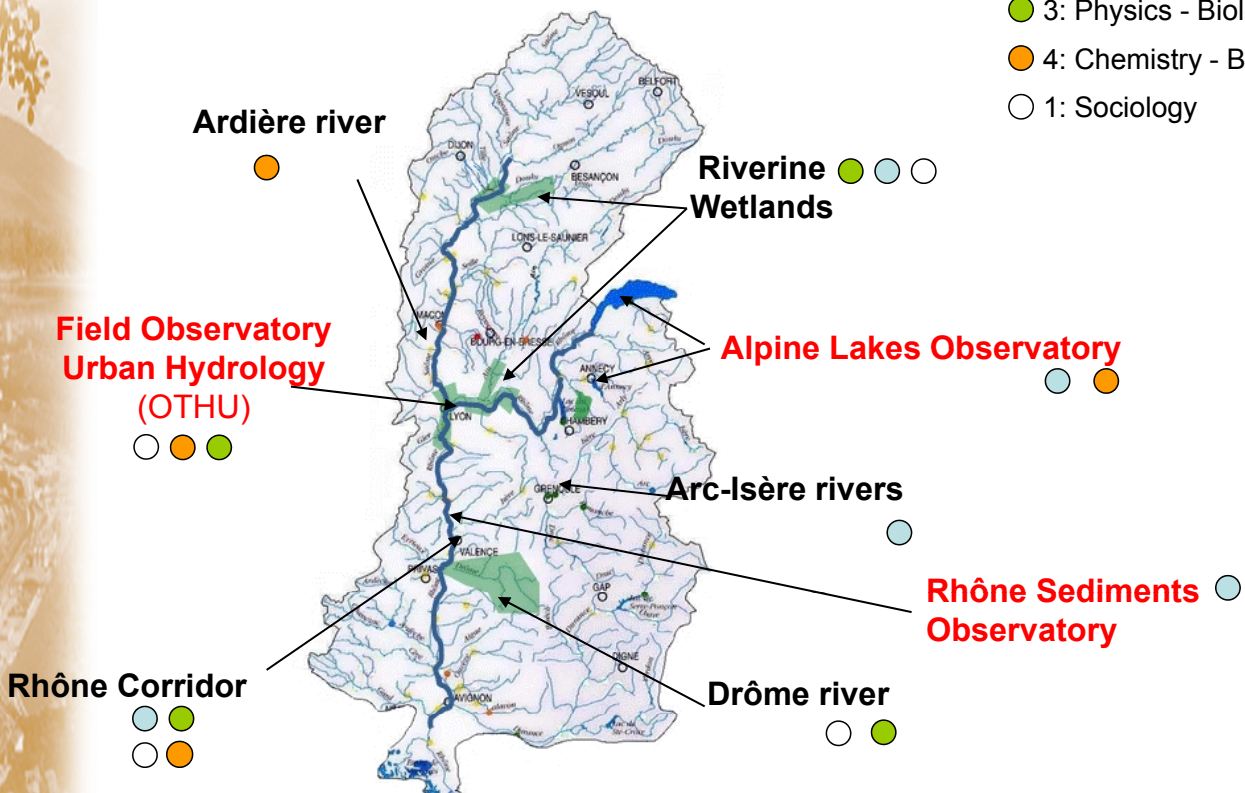
Climate Changes and water resources

How climate change impact water resources? (changes in the relationship rains-rivers flow, hydrological events, flooding risks)

How cocktails of contaminants impair aquatic environments and biodiversity? How assessing environmental risks?

A geographic location of scientific questions: the working sites

- 2: CC and resources
- 3: Physics - Biology
- 4: Chemistry - Biology
- 1: Sociology



LTER Rhone Basin: some data

A scientific network

- 14 Public Institutes or Universities
- 188 scientist involved (= 83 full time)



Connected with managers and stakeholders (governmental and paragonovernmental)

National and Regional partnership

Global budget: from 1.7 to 3M€/year

Data and metadata management : an archiving tool
(GeoRepertoire) shared between the Institutes and freely accessible.

Scientific production and transfert to managers (report 2006 – 2009)

Academic production:

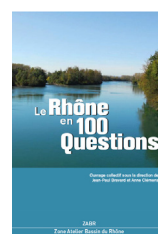
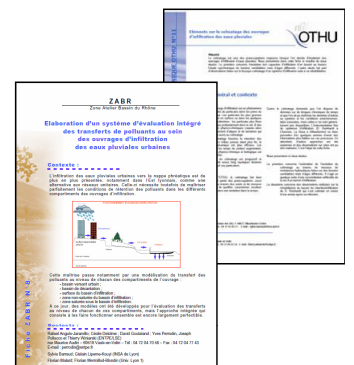
- 272 publications (216 in international reviews)
- 43 PhD examined (40 in process)

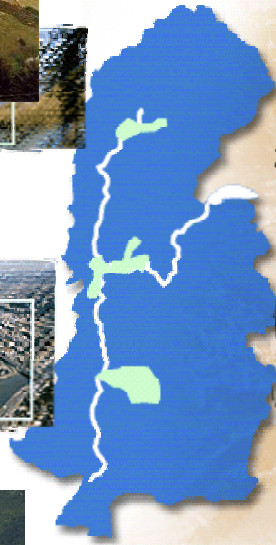


International Congresses: 2

From Science to Managers and Public:

- * **Workshops:** 3 to 4/years (scientists, managers, stakeholders)
- * **Books and technical notes editing**
- « 100 Questions about the Rhone »
(Le Rhône en 100 questions) - 6000 ex.





ZABR

Zone Atelier Bassin du Rhône

