

# Ríos y canales del Antropoceno.

## Multifuncionalidad hidráulica y nuevas formas de gobernanza.

Francesco Vallerani, UNESCO Chair holder at Ca' Foscari University of Venice

11 Octubre 2022



UNESCO Chair | Water, Heritage and Sustainable Development

# WATER CULTURE SOCIETY

Communicating  
heritage, ancestral  
practices, and  
freshwater  
multifunctionality



Ca' Foscari  
University  
of Venice



THE NEW  
INSTITUTE  
Centre for Environmental  
Humanities (NICHE)  
at Ca' Foscari  
University of Venice



Civiltà dell'Acqua  
INTERNATIONAL CENTRE



- 1) Escenarios del Antropoceno y la hidrografía
- 2) Concepto de Hidrofilia
- 3) Ríos y canales como corredores multifuncionales
- 4) Evolución y gobernanza de los paisajes fluviales:  
el caso de la Terraferma de Venecia
- 5) Hacia una nueva sensibilidad





# 1) Escenarios del Antropoceno y la hidrografía



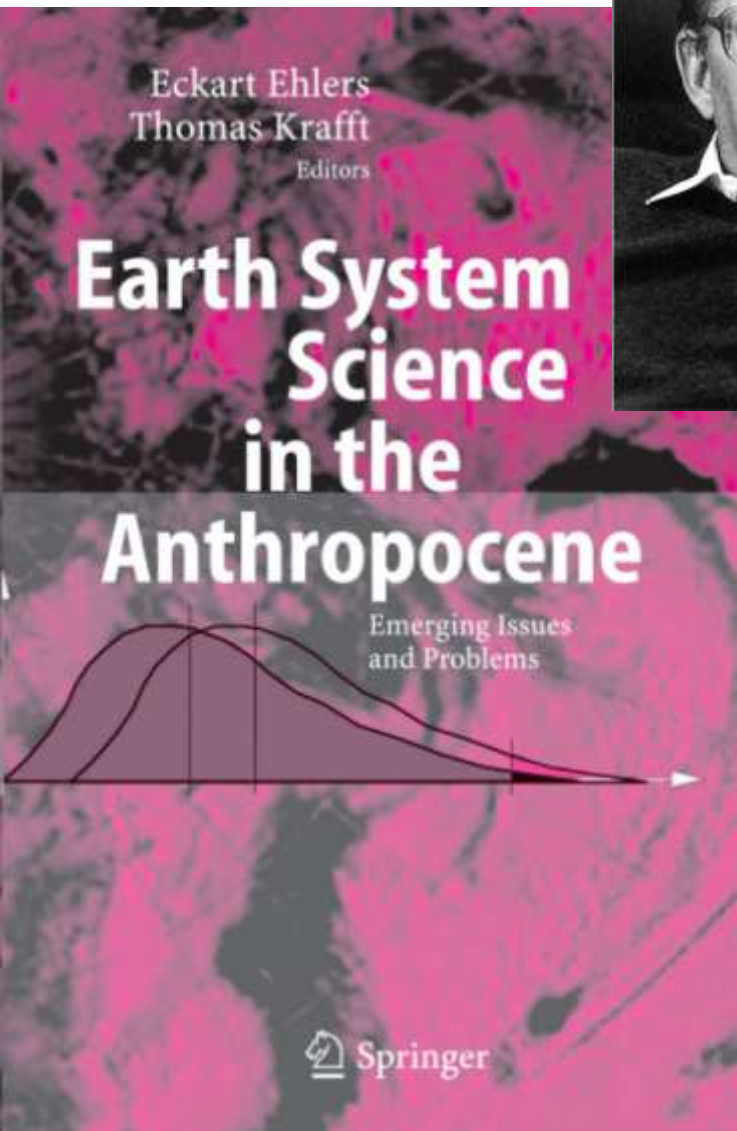
Rio Colorado



Rio Yangtzè







<https://www.redalyc.org/journal/279/27961130004/27961130004.pdf>

# El Antropoceno como diagnóstico y paradigma. Lecturas globales desde el Sur

---

**SVAMPA, Maristella**

El Antropoceno como diagnóstico y paradigma. Lecturas globales desde el Sur

Utopía y Praxis Latinoamericana, vol. 24, núm. 84, 2019

Universidad del Zulia, Venezuela

Disponible en: <https://www.redalyc.org/articulo.oa?id=27961130004>

DOI: <https://doi.org/10.5281/zenodo.2653161>



Esta obra está bajo una Licencia Creative Commons Atribución-NoComercial-CompartirIgual 4.0 Internacional.

# Uso recreativo de canales históricos con barcos tradicionales







# EDO - European Drought Observatory



## Emergency Management Service

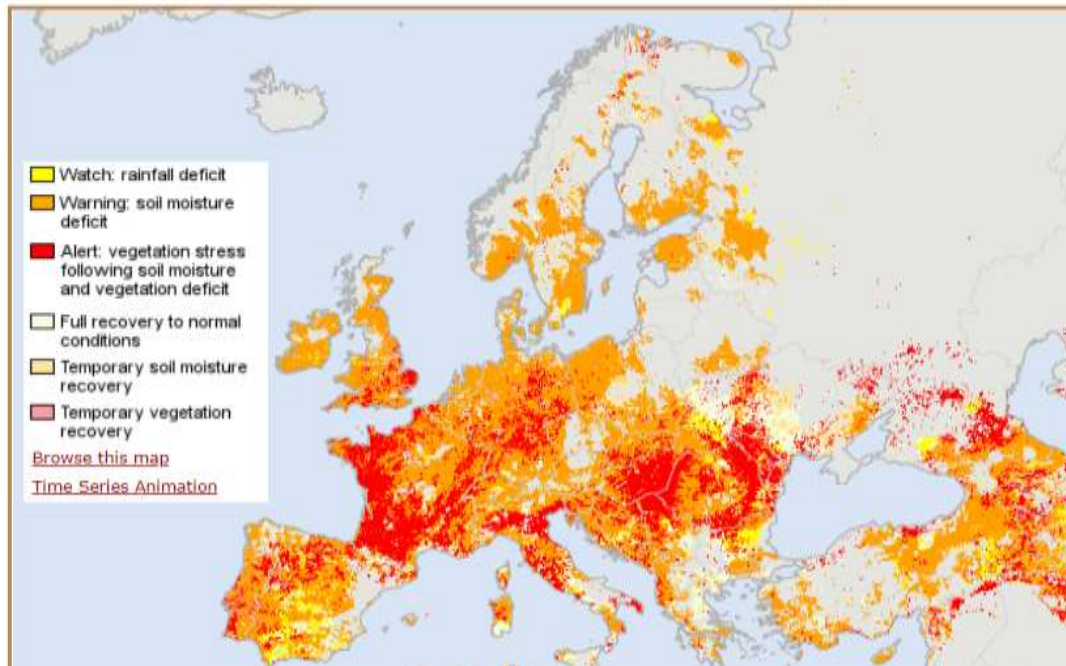
EC > Copernicus > Emergencies > Droughts > EDO > EDO Home

- EDO HOME
- CURRENT DROUGHTS
- MAPPING DROUGHT
- DROUGHT EVOLUTION
- REFERENCE DATA
- Global Drought Observatory

The EDO pages contain drought-relevant information such as [maps](#) of indicators derived from different data sources (e.g., [precipitation measurements](#), [satellite measurements](#), [modelled soil moisture content](#)). Different tools, like [Compare Layers](#), allow for displaying and analysing the information and [drought reports](#) give an overview of the situation in case of imminent droughts. You can download most drought data used in the European and [Global](#) Drought Observatories following this [link](#)-->

### ➔ Situation of Combined Drought Indicator in Europe - 2<sup>nd</sup> ten-day period of August 2022

According to the latest map of the **Combined Drought Indicator** **43%** of the EU territory is in **Warning** conditions and **21%** is in **Alert** conditions



- last REPORTS      related PROJECTS
- [Netherlands: August 2022](#)
  - [Europe: August 2022](#)
  - [East Africa: August 2022](#)
  - [Europe: July 2022](#)

➔ Factsheets  
List of factsheets of drought indicators provided by EDO and partner institutions



## Red hidrográfica secundaria





# We are a Global Water Movement

We have a plan to protect clean water in communities around the world.

[LEARN MORE](#)

[DONATE](#)

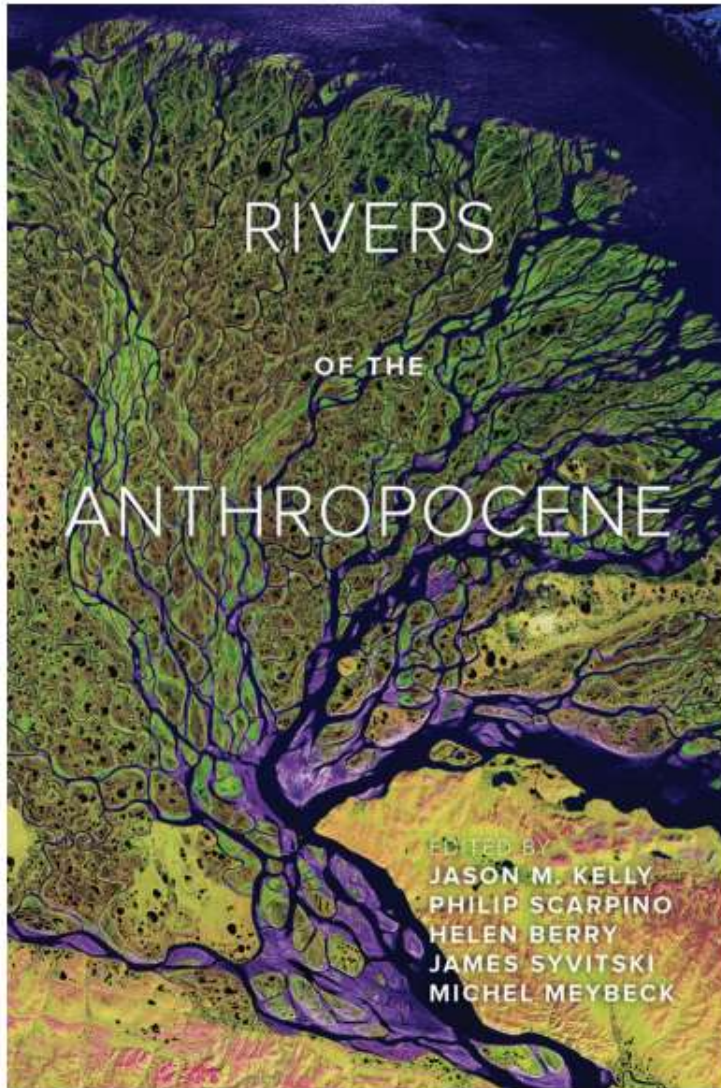
[GET INVOLVED](#)

## ANTHROPOLOGY OF THE ANTHROPOCENE

[Home](#) [An Anthropocene Primer](#) [About the Workshop](#)  
[Participants](#) [Library](#) [Contact](#) [Call for Particls](#)







This exciting volume presents the work and research of the Rivers of the Anthropocene Network, an international collaborative group of scientists, social scientists, humanists, artists, policy makers, and community organizers working to produce innovative transdisciplinary research on global freshwater systems. In an attempt to bridge disciplinary divides, the essays in this volume address the challenge in studying the intersection of biophysical and human sociocultural systems in the age of the Anthropocene, a new geological epoch of humans' own making. Featuring contributions from authors in a rich diversity of disciplines—from toxicology to archaeology to philosophy—this book is an excellent resource for students and scholars studying both freshwater systems and the Anthropocene.

A [free ebook version](#) of this title is available through Luminos, University of California Press's Open Access publishing program.

Visit [www.luminosoa.org](http://www.luminosoa.org) to learn more.



UNIVERSITY OF CALIFORNIA PRESS



Autorità Distrettuale  
del Fiume Po



REGIONE  
PIEMONTE

4 GIUGNO 2021

10.00 – 12.00 *diretta streaming* Sala Trasparenza - Palazzo Regione Piemonte  
dalle 12.30 *diretta streaming* lancio trackers sul Po - Murazzi

# STOP POLLUTION AND PLASTICS ALONG THE PO RIVER: A NEW GREEN DEAL

EU GREEN WEEK 2021 PARTNER EVENT

**ZERO** #EUGreenWeek  
**POLLUTION**  
for healthier people and planet

Con la gentile partecipazione di:



UNIVERSITÀ DEGLI STUDI DI MILANO



Aree protette  
Po piemontese





Un año después (2022)...un verano inolvidable...



# *Trash Free River Program*

Save The River volunteers have been cleaning up shoreline and boat slips for several years on both sides of the upper St. Lawrence River in an ongoing effort to make the St. Lawrence River “swimmable, fishable, and drinkable now and for generations to come”

[Learn more](#)





# SAVE OUR IRISH WATERS

**WATER  
HERITAGE  
DAY  
AUGUST 21**

**HERITAGE WEEK  
AUG 13-21, 2022**

**A DAY IN THE LIFE OF OUR  
RIVERS + WATERWAYS**

Save Our Irish Waters + Save the Boyne invite you to share 1-3 photos of your River, Well or Waterway including built heritage, ways humans love the river + wildlife!

Let's show that we appreciate the full value of Our Irish Waters for  
#HeritageWeek2022  
#WaterHeritageDay  
#Biodiversity  
@SavelrishWaters  
[www.SavetheBoyne.org](http://www.SavetheBoyne.org)



# Respect **the** River

Saving lives in Australian Rivers

AN INITIATIVE OF



SUPPORTED BY



[www.royallifesaving.com.au/respecttheriver](http://www.royallifesaving.com.au/respecttheriver)



## PROTÉGER LES FLEUVES, LES RIVIÈRES ET LES ÉCOSYSTÈMES AQUATIQUES

La préservation des fleuves et rivières en tant qu'écosystèmes, avec toute la biodiversité qui leur est associée, permet avant tout de maintenir leur dynamique, leur résilience... Une rivière en bonne santé possède en effet un potentiel d'évolution énorme, une forte capacité de régénération et offre gratuitement aux hommes ses « services écosystémiques ».

Seules quelques rivières d'Europe sont encore à l'état naturel. Elles doivent être protégées. Soit par divers moyens juridiques classiques (tels que Natura 2000 de l'UE, zones de conservation, parcs nationaux, etc.) ou par la création d'autres instruments «volontaires» ou structures.

Un autre élément important pour assurer la meilleure protection possible des cours d'eau est la mise en place d'un réseau de tous les acteurs et de toutes les campagnes d'actions le long du fleuve, ainsi qu'une stratégie de communication qui informe et motive les citoyens et les décideurs.

Voir [la carte](#) des grands combats citoyens et campagnes pour la sauvegarde des fleuves et rivières d'Europe (en cours et terminée).

### Nos projets et campagnes

#### LIVING RIVERS EUROPE



#### SOS LOIRE VIVANTE



#### RÉSERVE MAN & BIOSPHERE SOURCES LOIRE ALLIER ARDECHE

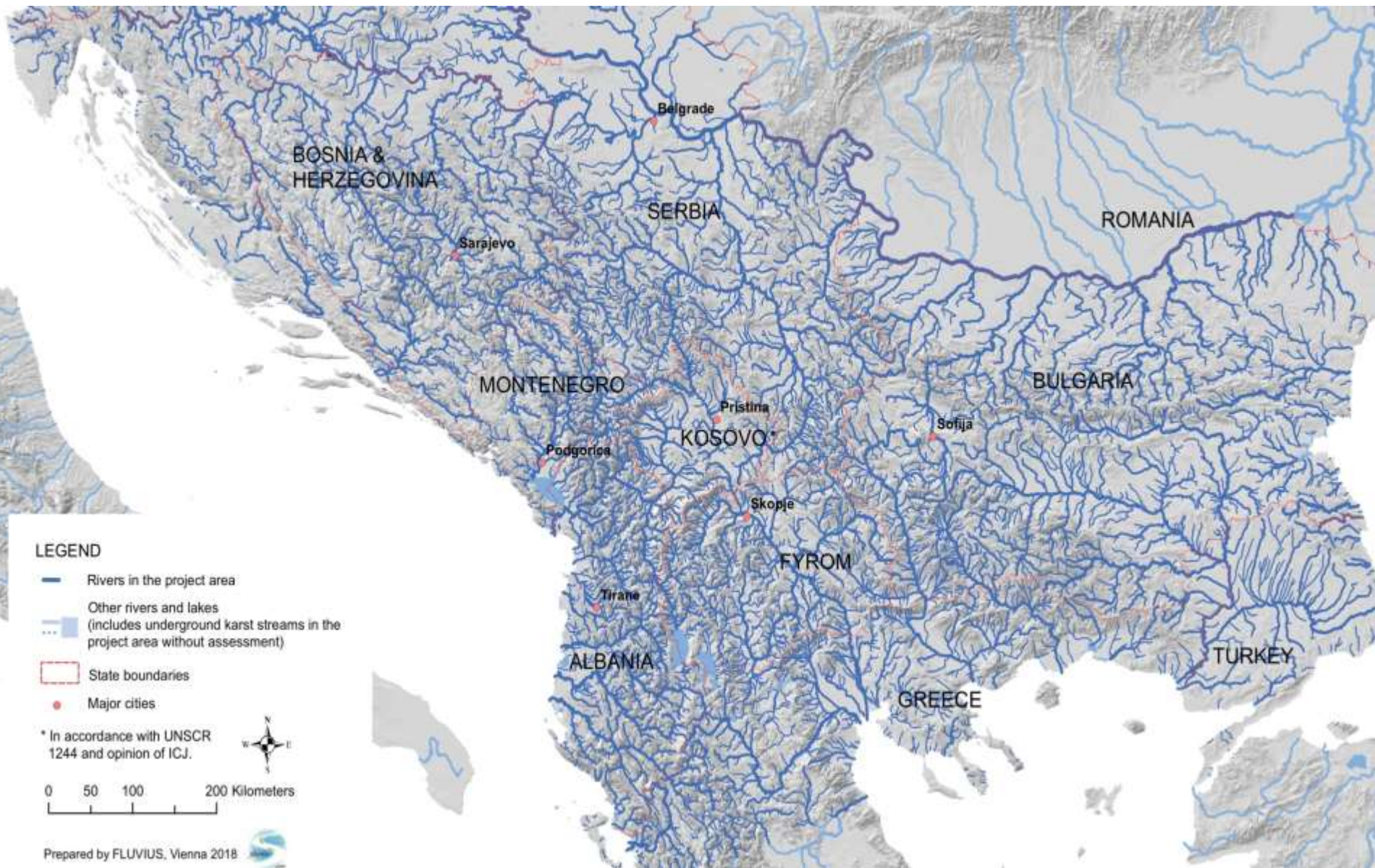


#### HAUTE VALLÉE DE LA LOIRE



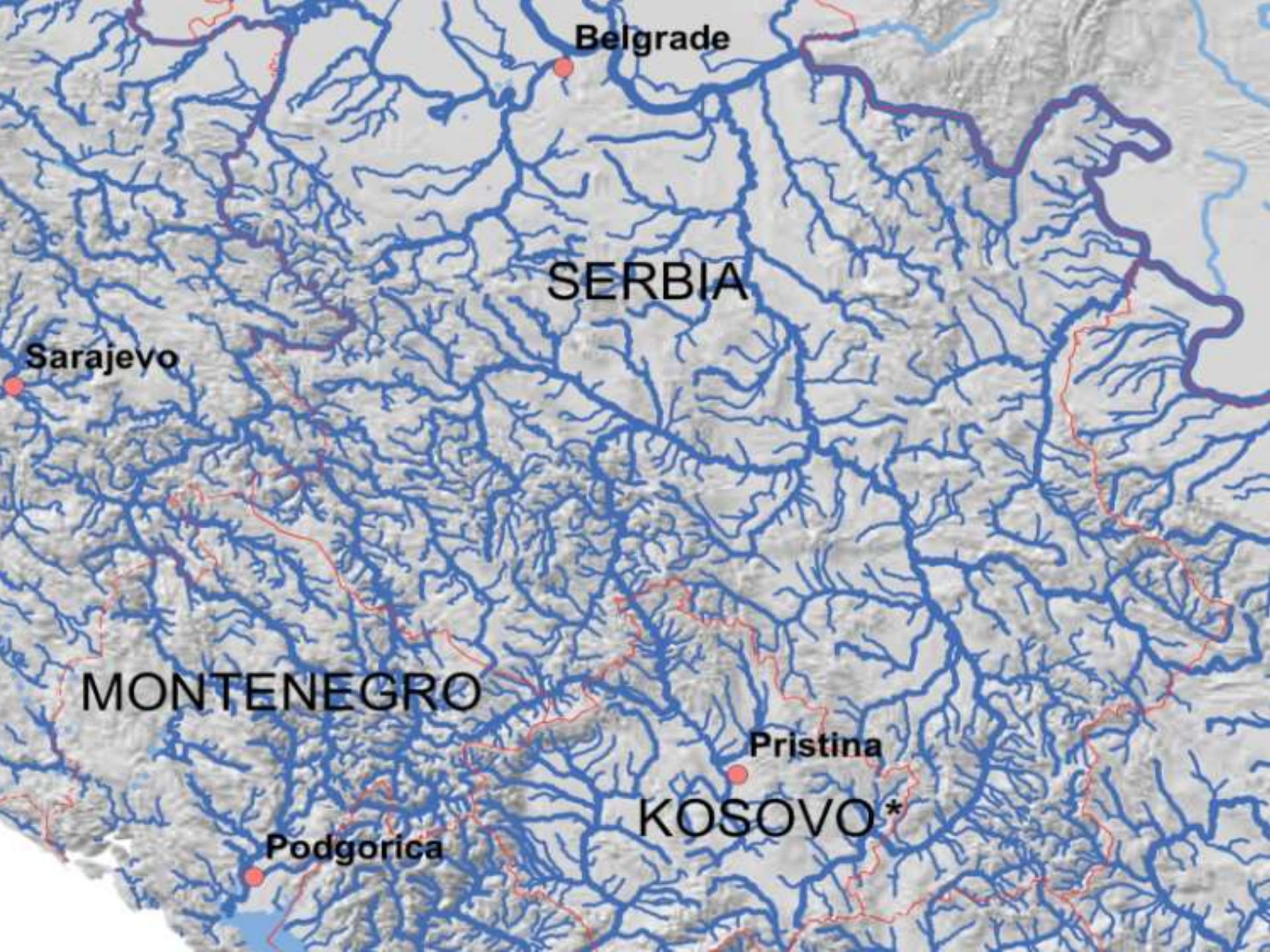
#### RIVIÈRES SAUVAGES





Riesgos hidráulicos en las periferias del mundo occidental: el caso de los Balcanes





Belgrade

SERBIA

Sarajevo

MONTENEGRO

Pristina

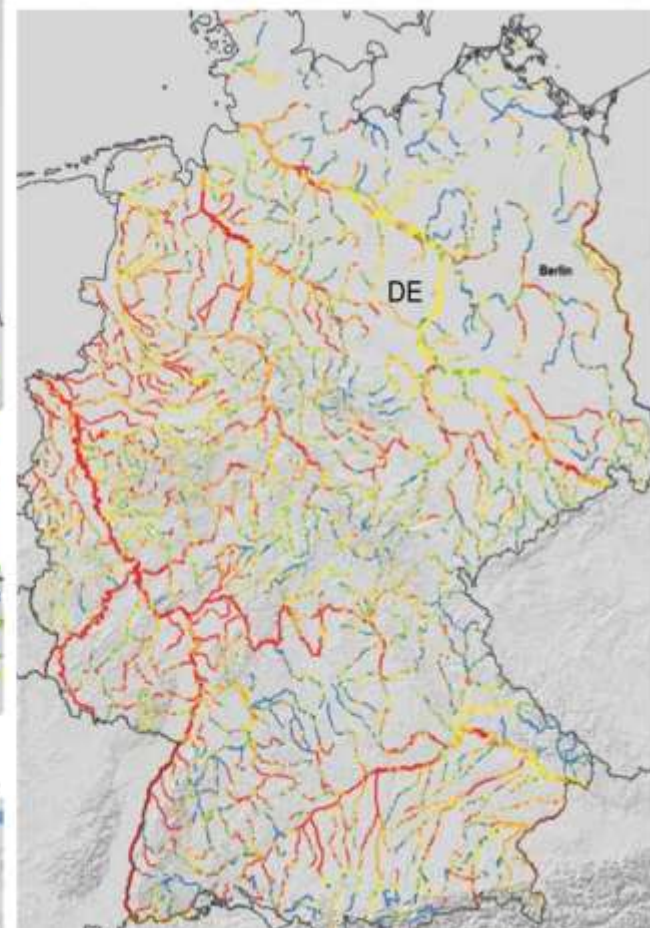
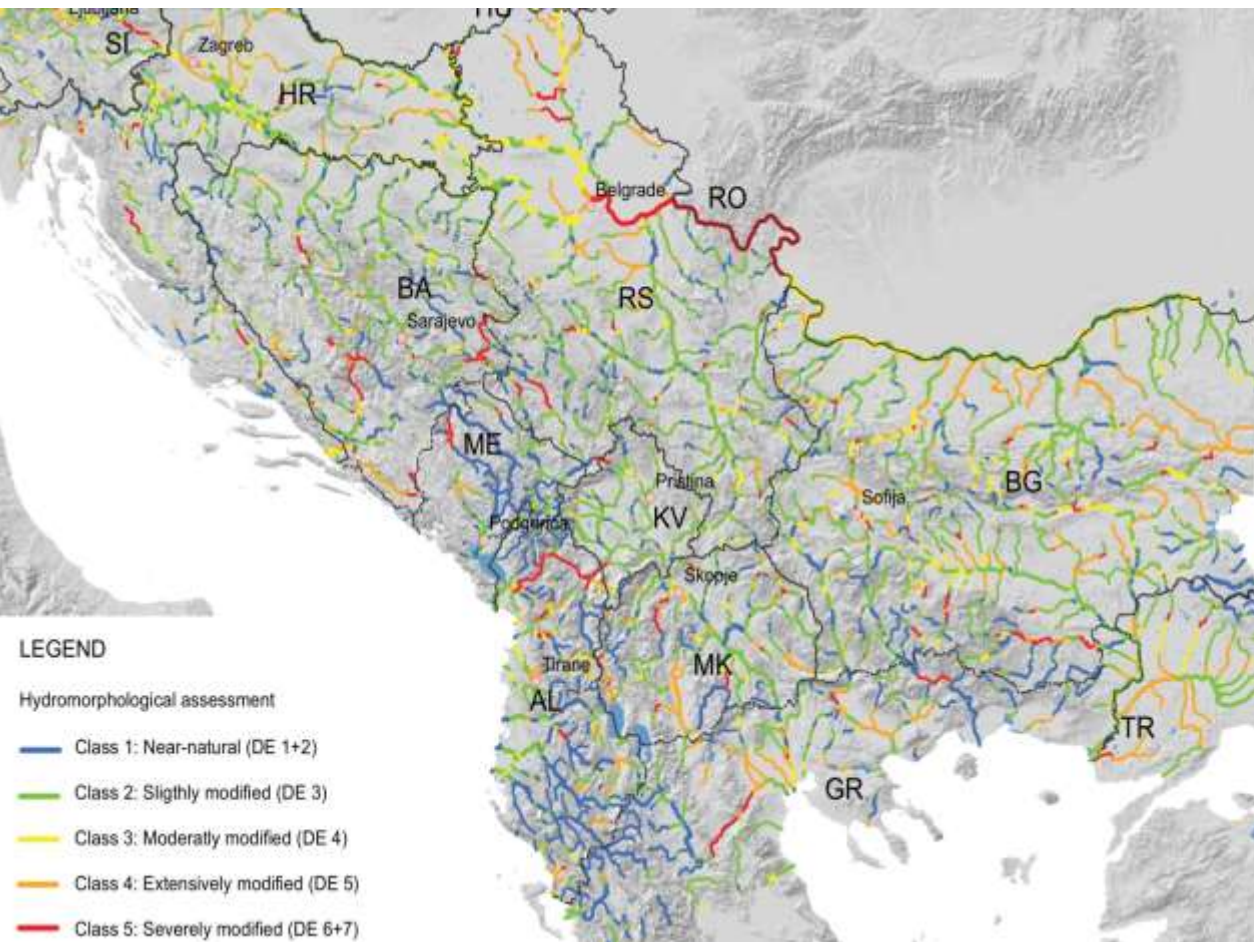
KOSOVO \*

Podgorica

## Contexto geográfico definido como “Europe Blue Heart”

- Existe una geomorfología ideal para la construcción de presas
- Todos están de acuerdo que se trata de energía limpia
- Dimensiones aproximadas de la red hidrográfica:
  - Cerca de 80 mil kilómetros lineales de ríos y arroyos
  - Elevado valor ecosistémico de más de 70% de esos ríos
  - Es decir valor patrimonial de hidrografía no modificada por la ingeniería hidráulica
  - ¡Río libre! no más eslógan ambientalista, sino una valiosa realidad a defender





Solo el 12% de los ríos europeos pueden considerarse 'libres'

<https://www.balkanrivers.net/en>



Save the Blue Heart of Europe - A campaign for the protection of Balkan Rivers



## Next Webinar: Legal Tools to Protect Rivers from Hydropower Development!

🕒 04/09/2021

HELP NOW

NEWSLETTER





# River Connectivity

The health of the world's rivers is **severely threatened**.  
But there is still hope if we take action.

A project by CIRF and Wetlands International Europe

Rivers are complex systems whose dynamics shape life on Earth as we know it. They are home to a wide range of freshwater species. They transport sediments and nutrients. They form wetlands, deltas, and floodplains which nurture flora, fauna, and human communities and protect us from floods, droughts, and other natural disasters. They collect water from the atmosphere and land and replenish groundwater systems, which are key for our survival.

To provide these essential ecosystem services, rivers must be able to flow freely, moving unobstructed in multiple directions. However, only a small fraction of the world's rivers can still do so: a myriad of human-made works fragment, deviate, constrict, and regulate river flow, dramatically impacting natural functions and surrounding ecosystems.

## 2) Concepto de Hidrofilia



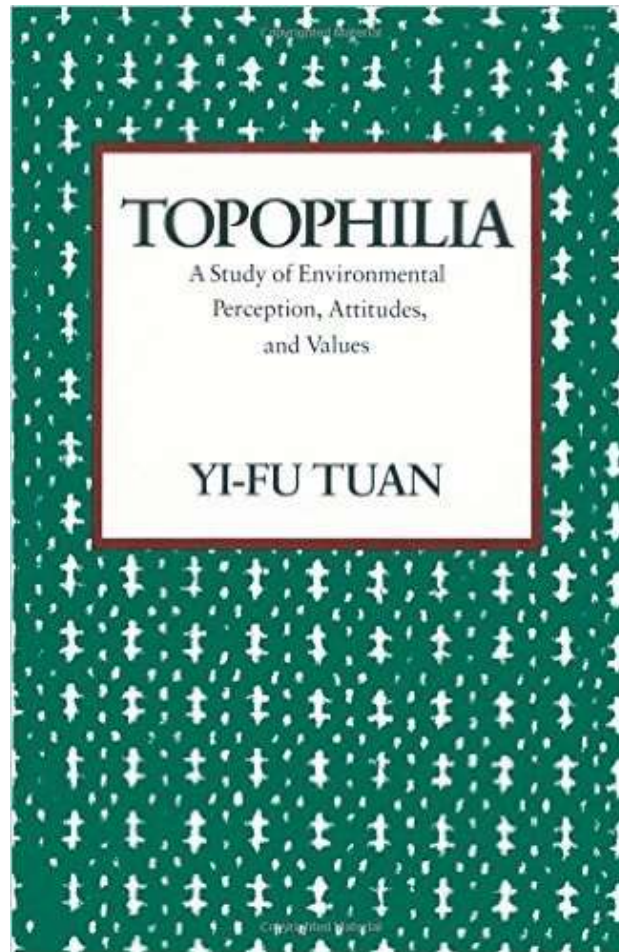


- Enfoque de la geografía humanista:
  - Múltiplos trayectos temáticos
  - Rica polifonía conceptual capaz de analizar la complejidad del real
  - Herramienta teórica para interpretar los conflictos ambientales
  - Interés en las emociones y percepciones

- Evolución de las percepciones colectivas del agua como oportunidad para fomentar:
  - El recupero de los significados simbólicos y culturales
  - Papel estratégico de los paisajes del agua en la planificación territorial
  - Un cambio importante de paradigma en las opciones técnicas



# Yi-Fu Tuan: relaciones emocionales entre el ser humano y los lugares





# Aguas emocionales: en busca del sentido de los lugares acuáticos





## Blue space: The importance of water for preference, affect, and restorativeness ratings of natural and built scenes

Mathew White <sup>a</sup>  , Amanda Smith <sup>a</sup>, Kelly Humphries <sup>a</sup>, Sabine Pahl <sup>a</sup>, Deborah Snelling <sup>b</sup>, Michael Depledge <sup>c</sup>

 [Show more](#)

<https://doi.org/10.1016/j.jenvp.2010.04.004>

[Get rights and content](#)

### Abstract

Although theorists have suggested that aquatic environments or “blue space” might have particular restorative potential, to date there is little systematic empirical research on this issue. Indeed the presence of water has, unintentionally, been a confounding factor in research comparing people’s reactions to built and natural environments. Whereas aquatic features (rivers, lakes, coasts) are frequently present in visual stimuli representing natural environments they are rarely incorporated in stimuli portraying built environments. As many towns are, for good reason, located near water this is a potentially significant oversight. The current research collated a set of 120 photographs of natural and built scenes, half of which contained “aquatic” elements. Proportions of “aquatic”/“green”/“built” environments in each scene (e.g. 1/3rd, 2/3rds) were also standardised. Two studies investigated preferences

## Paisajes acuáticos y beneficios psicológicos (Blue Space)

(a hotel room with the view), graphs. As predicted, both with higher preferences, greater se without water. Effect sizes were consistently large. Intriguingly, images of “built” environments containing water were generally rated just as positively as natural “green” space. We propose a number of avenues for further research including exploration of the mechanisms underlying these effects.











# Alto rio Pisuerga (Cervera de Pisuerga)



### 3) Los canales como corredores multifuncionales





# Cultural ecosystem services provided by landscapes: Assessment of heritage values and identity

Anna Tengberg <sup>a</sup>  , Susanne Fredholm <sup>a</sup>, Ingegard Eliasson <sup>a</sup>, Igor Knez <sup>b</sup>, Katarina Saltzman <sup>a</sup>, Ola Wetterberg <sup>a</sup>

 [Show more](#)

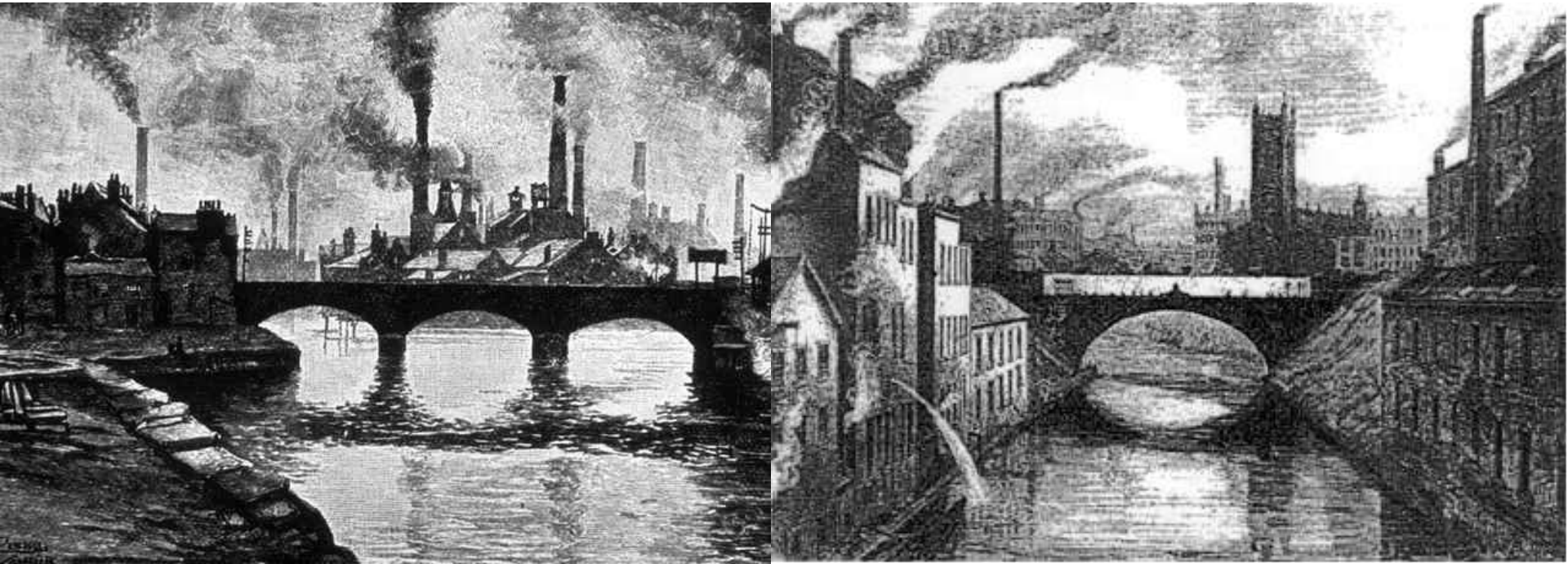
<https://doi.org/10.1016/j.ecoser.2012.07.006>

[Get rights and conte](#)

## Abstract

This [paper](#) aims to provide a conceptual analysis of cultural [ecosystem](#) services and how they are linked to the [concepts](#) of [landscape](#), [heritage](#) and [identity](#). It discusses how these cultural [ecosystem services](#) can be assessed and integrated into [spatial and physical planning](#). The paper presents two [case studies](#) to [shed light](#) on the assessment process. A case study from [Sweden](#) combines an analysis of [ecosystem services](#) with methods for documenting [cultural heritage](#) values in landscapes. A second case study from the Arafura–Timor [Seas](#) combines an analysis of cultural [ecosystem services](#) with methods for assessment of [priority environmental concern](#) at the seascape scale.

# Irwell river in Manchester





# Proceso de gentrificación urbana y especulación inmobiliaria



Precioso frente fluvial en Florencia: del imaginario pictórico...





... al sentido de vulnerabilidad y riesgo



Después de la seguridad hidráulica vuelve la hidrofilia





# Río Manzanares en Madrid







#### 4) La evolución de los paisajes fluviales: el caso de la Terraferma de Venecia



# Llanura veneciana





# Mapas históricos y la importancia del gobierno secular de las aguas

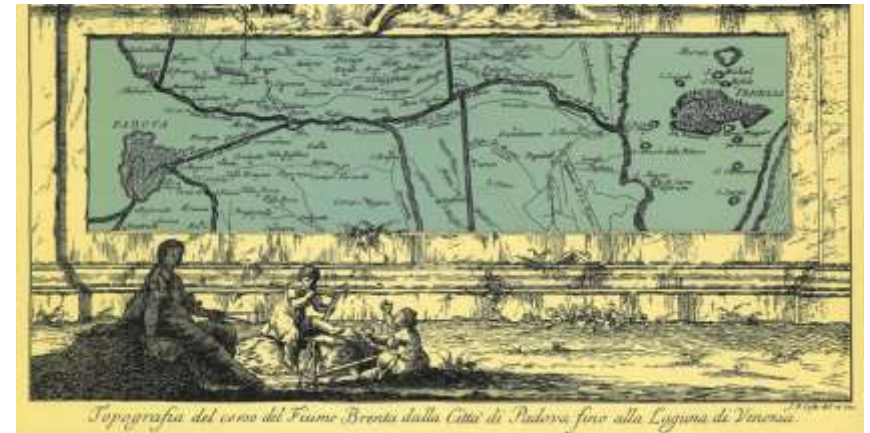
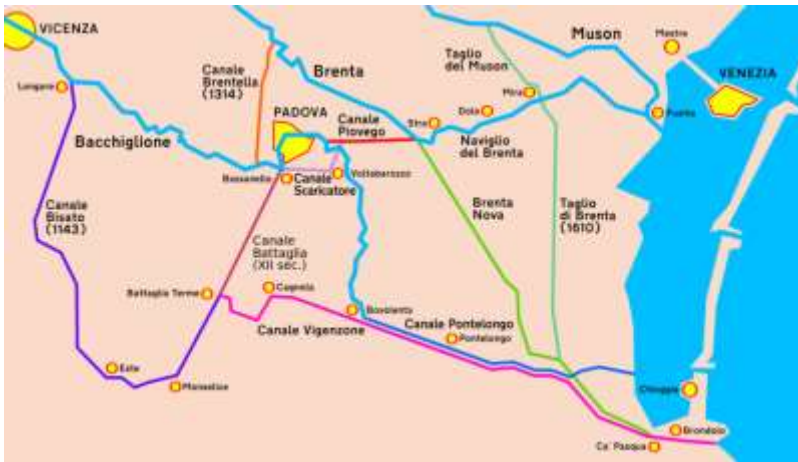


# Ingeniería hidráulica veneciana





# Padua y sus canales artificiales



# Elogios de la cotidianidad fluvial





## Pintura flamenca y escenarios fluviales



## Canales navegables como sujeto pictórico





# Viaje de Venecia a la villa de campo



# Nuevos “technoscapes” hidráulicos a partir del final del siglo XIX





El geógrafo Eugenio Turri habla de “alluvione cementizia” (inundación de cemento)



# Inundaciones con fuerte transporte de sedimentos sólidos





# Degradación preocupante de la calidad de algunos ríos en Veneto



Valor icónico de los puentes y afecto durable para el río





## Pueblos fluviales “di riviera”



## 5) Hacia una nueva sensibilidad





- Nuevas percepciones colectivas:
  - Paisajes fluviales como patrimonio cultural
  - Obligar a los políticos locales a cumplir con los requisitos de la Directiva Marco del Agua 2000/60
  - Fomentar adecuadas estrategias de conocimiento tanto de los paisajes del agua como de las necesidades de sus habitantes

- Con la nueva sensibilización hidráulica se afirman:
  - Proceso de re-emocionalización
  - Más cuidadosa y consciente gestión de las relaciones entre la sociedad y el medio ambiente
  - Territorialidad hidráulica como red de lugares 'vividos'



Teaching and research

Environment and Climate Change

Equality, diversity and inclusion

Students

Staff and faculty

**UNESCO Chair**

# UNESCO Chair

## Water, Heritage and Sustainable Development





**WATER  
MUSEUMS**  
GLOBAL NETWORK



[About](#)

[Network](#)

[Activities ▾](#)

[Stories](#)

[Media ▾](#)

[Campaigns ▾](#)

[Partner](#)

[Contact Us](#)





Gracias por su atención

