



# How do you\* live with your river?

\*humans and non-human species

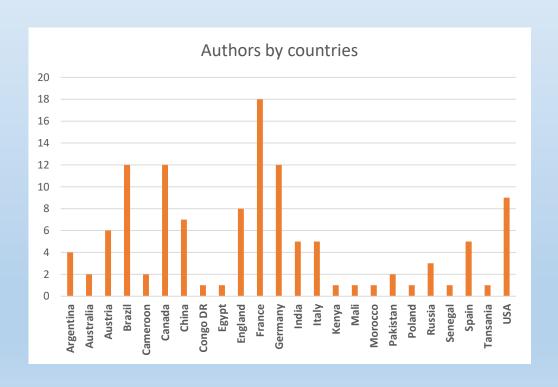
What supports, what menaces biocultural diversity?

What can we learn from biotic adaptations, traditional ecological knowledge, and cultural practices for sustainable river management?



# A book on River Culture at global scale:

→Transfer of biotic adaptive strategies, traditional ecological knowledge and innovative solutions into a sustainable riverscape management



- 125 authors from 24 countries, 42% female authors
- 36 chapters, > 900 pages
- 28 chapters on river case studies from 4 continents (Africa 6, Asia 7, Americas 6, Europe 9)
- 2 chapters on artist's perspectives, 1 chapter on gender equality
- 5 chapters on socioecological concepts and on riverscape management in the anthropocene

# Localization of the river case studies



12 The Mekong: Death of a River Culture?
Campbell, Ian
13 River Culture in China and India, a Comparative Perspective on its Origins,
Challenges, and Applications
Cao, Yixin, Vazhayil, Alvin M.
14 The Yangtze River: Harmony between Humans and Nature
Ding, Yuan, Xu, Ying, Ma, Zhiliang, Cao, Yixin
15 China's Grand Canal: An Eco-Cultural Community connecting Five River Systems
Zhang, Tinghao, Yu, Bing, Wan, Jinhong
16 Amur-Heilong River – A Free-Flowing Transboundary River between Mongolia, China and Russia
17 Healthy Delta, Healthy People: The Past, Present and Future of the Saskatchewan River Delta
18 The Lower Illinois River, USA: The Interaction of Floodplain Culture with Scientific Understanding
19 The Trinity River in Texas – Muddy and Emblematic
Klaver, Irene, J., Hoeinghaus, David J., Grossman, Jacob W., Frith, Aaron J., Atkinson, Samuel F., Kennedy, James H.
20 The Várzeas of the Brazilian Amazon River: Living with the Flood Pulse
Junk, Wolfgang J., Schöngart, Jochen, Piedade, Maria T.F., Soares, Gercilia M.,
Wittmann, Florian
21 The Pantanal: How long will there be Life in the Rhythm of the Waters?
Wantzen, Karl M., Girard, Pierre, Roque, Fabio O., Nunes da Cunha, Cátia, Chiaravalloti, Rafael M., Nunes, André V., Bortolotto, leda M., Guerra, Angélica, Pauliquevis Carolina, Friedlander, Mario, Penha, Jerry

#### 22 Bio- and Cultural Diversity in The Middle Paraná River

Blettler, Martín, Espínola, Luis A., Berros, Valeria

#### 23 The Rhine - An Important Biocultural Axis for Europe

Wantzen, Karl M., Schmitt, Laurent, Wirbelauer, Eckhard

### 24 River Restoration on Catchment Scale in the Metropolitan Region and Post-Mining Landscape of the Emscher Catchment, Germany

Gerner, Nadine V., Sommerhäuser, Mario M., Heldt, Sonja, Sutcliffe, Robynne, Stein, Ulf, Tröltzsch, Jenny

#### 25 The Isar River: Social Pride as a Driver of River Restoration

Zingraff-Hamed, Aude, Lupp, Gerd, Bäumler, Klaus, Huang, Joshua, Pauleit, Stephan

### 26 The Danube: On the Environmental History, Present, and Future of a Great European Quality in Hydrosystems River

Schmid, Martin, Haidvogl, Gertrud, Friedrich, Thomas, Funk, Andrea, Schmalfuss, Lisa, Schmidt-Kloiber, Astrid, Hein, Thomas

#### 27 The Seine, the River dedicated to Paris

Lestel, Laurence, Meybeck, Michel, Carré, Catherine, Belliard, Jérôme

#### 28 The Loire - A Cultural and Environmental Exception in Europe

Wantzen, Karl M., Berton, Jean-Pierre, Boisneau, Catherine, Greulich, Sabine,

Marmiroli, Bruno, Rodrigues, Stéphane

#### 29 Dordogne: The First UNESCO Biosphere Reserve Covering an Entire River Basin

Michau, Raphaël, Guerri, Olivier, Brun, Alexandre, Quetier, Justine

#### 30 Nature-Human-River Relationships at the Ebro River and its Delta (Spain)

Mariano, Mercè, Abella, Susanna, Araujo, Rafael, Ibisate, Askoa, Ollero, Alfredo

# 31 The Waterways of Venice as an 'Extended Museum': New Opportunities for Cultural, Social and Environmental Regeneration of a Forgotten Water Heritage

Eulisse, Eriberto, Vallerani, Francesco, Visentin, Francesco

### 32 Ecohydrology and River Culture: Synergies for the Enhancement of River and Catchment Sustainability

Zalewski, Maciej, Wantzen, Karl M.

### 33 Damming and Sediment Legacies of Great Rivers: Global Challenges and Management Approaches

Kondolf, G. Matt, Schmitt, Rafael J.P.

### 34 Community-Based Conservation Initiatives in India: A Participative Movement driven by River Culture

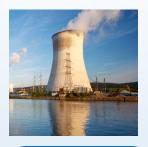
Vazhayil, Alvin M., Wantzen, Karl M.

## 35 The River/Lake Chief System in China: A New Policy to Improve Environmental Quality in Hydrosystems

Cao, Yixin, Wantzen, Karl M.

#### 36 Rivers: An Artist's Perspective

Irland, Basia



Reset values in river ecosystem management



Political management at the river basin scale

The River Culture
Concept:
learn from the river
to live with the river

Adapt human activities to the rhythm of the river



Ecosystemscale bionics: Copy biotic strategies

Transform traditional / cultural uses into modern management







### **River Culture**

Life as a dance to the rhythm of the waters

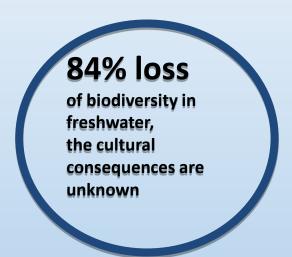
SHORT SUMMARY
Back to life in the rhythm of the waters

The global crises of biodiversity and cultural diversity are interdependent, especially so in rivers. While we know that 84% of the freshwater fauna has disappeared between 1970 and 2014, the loss in cultural diversity connected to the river and its floodplain (e.g., spiritual linkages, traditional use forms, adapted architecture, etc.) is as yet unknown.

This book makes a first attempt to deal with biological and cultural diversities altogether, depicting the bio-cultural diversities, historical human-river relationships, threats, and practical examples of how to mitigate the crisis in riverscapes. More than 120 authors present interdisciplinary studies from river systems all over the world, and explore overarching issues on river management in the Anthropocene.

Modern societies increasingly re-integrate the river into their lifestyle, driven by citizens' movements and/or by governments

Practitioners and scientists in landscape and urban planning, ecologists, sociologists, NGOs and governments are invited to disseminate the positive examples presented here, to document their own work, and to contribute to a more harmonious and peaceful life in riverscapes.





'Since wars begin in the minds of men and women it is in the minds of men and women that the defences of peace must be constructed' This book will soon be available as free download @ UNESCO publishing, the site for download will be soon communicated to all WAMU-net members.

Wantzen, K.M. (ed., 2022): *River Culture – Life as a dance to the rhythm of the waters*. UNESCO publishing, Paris, 902 pp, ISBN 978-92-3-100540-4