# A new global initiative: The Alliance for Freshwater Life



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# The Origins of our Alliance for Freshwater Life

Will Darwall, IUCN







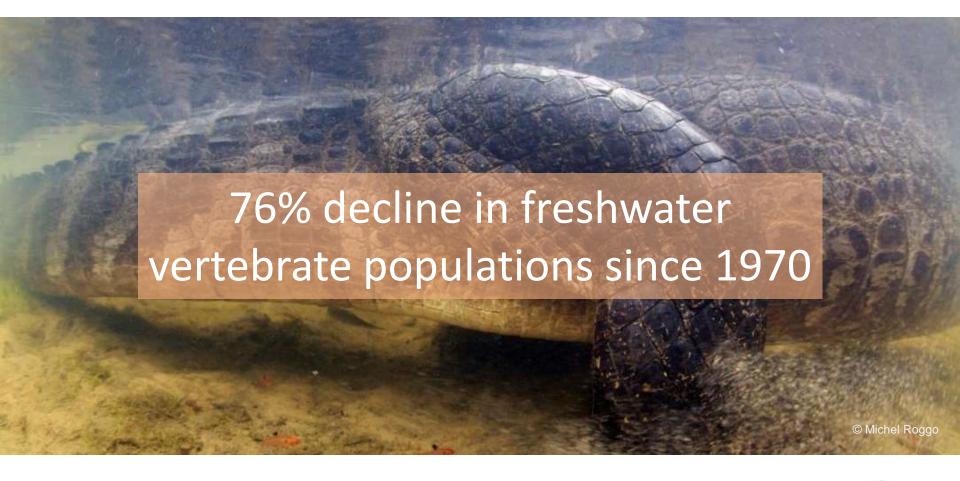






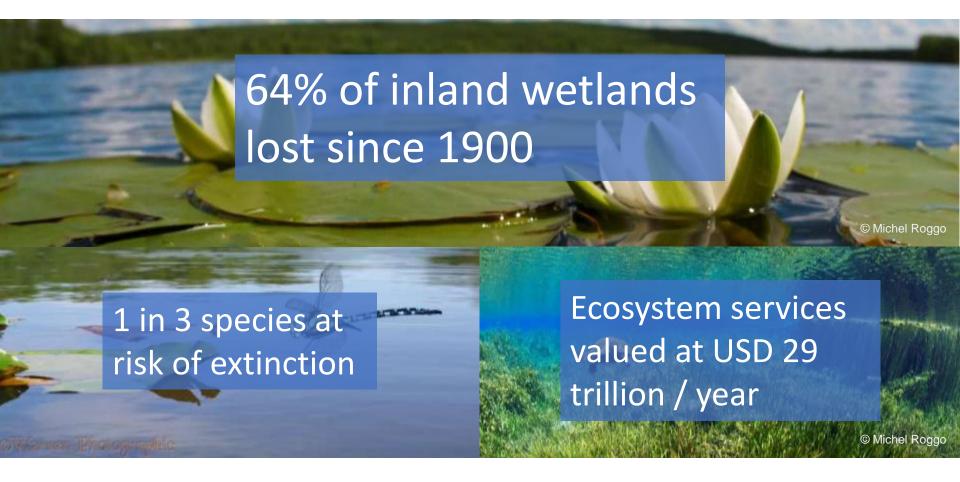










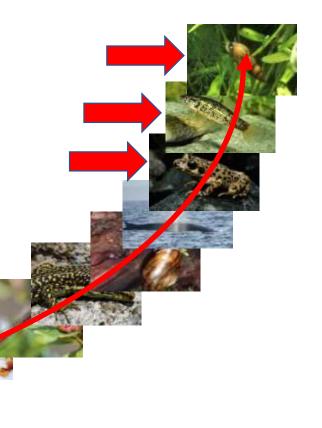






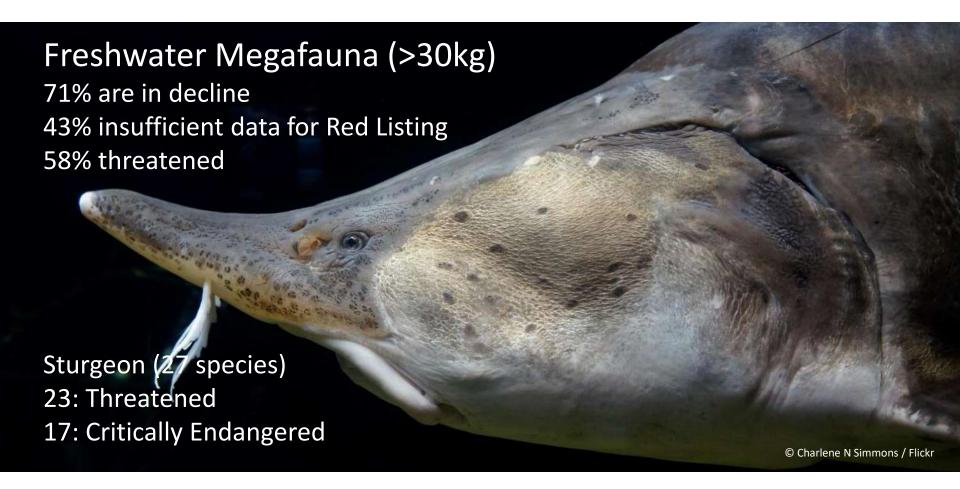
## **Focusing on Europe**

Taxonomic Group	% Endemic	% Threatened
FW Molluscs	88%	44%
FW Fishes	81%	37%
Amphibians	77%	23%

























**Chester 2010:** IUCN SSC/WI Freshwater Fish SG meeting, a new initiative is proposed to address the global crisis facing FW biodiversity

**Census of Marine Life** = potential model: 10 years; USD 650 million; 2,700 scientists; 540 expeditions; 6,000+ new spp.

**Montserrat**, Spain, 2011: Endorsed the idea for an *Alliance*; called for an international expert network

**Berlin, IGB**, November 2017: Formalised the *Alliance for Freshwater Life* 











#### Vision

A world where people better understand, value, and safeguard freshwater biodiversity

#### Mission

To halt and reverse the global decline of freshwater biodiversity through research, data synthesis, conservation, education, outreach, and policy-making





#### Research



to coordinate and support efforts that examine the status, trends, and drivers of change in freshwater biodiversity





to compile, manage, synthesise and provide access to freshwater biodiversity data

#### Conservation



to inform, support, connect and implement conservation efforts throughout the world

#### Education & Outreach



to raise the profile of freshwater biodiversity worldwide through education and public engagement





to engage with policy-makers and provide scientific evidence needed to make informed decisions related to the conservation of freshwater biodiversity







# AQUATIC CONSERVA POLICY, PRACTIC Marine and Freshwater The Alliance

View this journal online at wileyon

# AFL LAUNCH PAPER NOW AVAIL AND VIEWING!

POLICY, PRACTICE AND STANDARDS

# The Alliance for Freshwater Life: A global call to unite efforts for freshwater biodiversity science and conservation

William Darwall, Vanessa Bremerich, Aaike De Wever, Anthony I. Dell, Jörg Freyhof, Mark O. Gessner, Hans-Peter Grossart, Ian Harrison, Ken Irvine, Sonja C. Jähnig, Jonathan M. Jeschke, Jessica J. Lee, Cai Lu, Aleksandra M. Lewandowska, Michael T. Monaghan, Jens C. Nejstgaard, Harmony Patricio, Astrid Schmidt-Kloiber, Simon N. Stuart, Michael Thieme, Klement Tockner, Eren Turak, Olaf Weyl

First published: 13 August 2018; DOI: https://doi.org/10.1002/aqc.2958







## The Challenges

# Martha Rojas-Urrego, Secretary General, Ramsar Convention







#### Research

## Michael T Monaghan, IGB





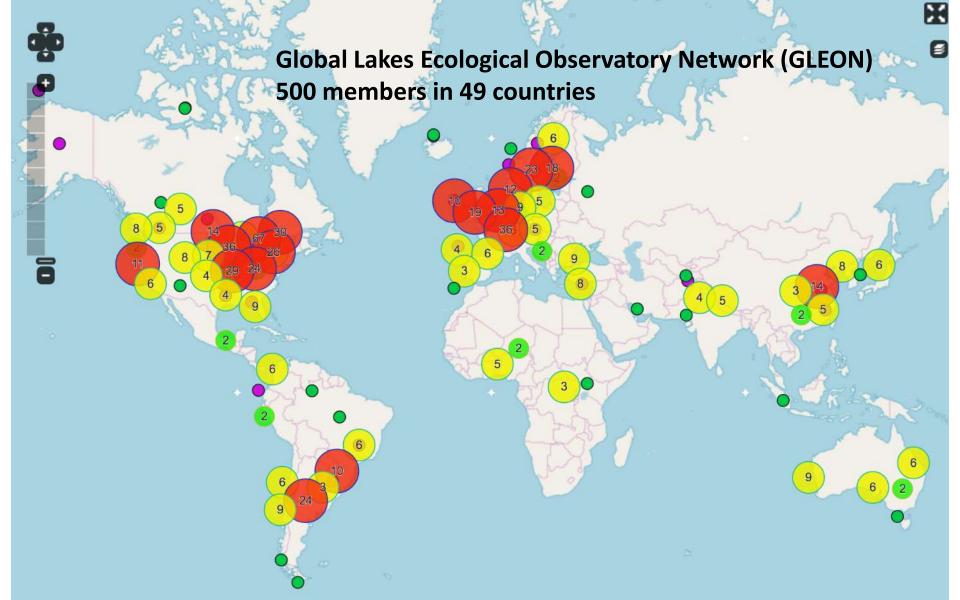
#### Research

**Objectives:** to coordinate and support efforts that examine the status, trends, and drivers of change in freshwater biodiversity

- Coordinate research efforts
  - transnational access to infrastructure and data
- Align FW Biodiversity research to other initiative (SGDs, IPBES)
- Provide mentor system for poorly represented/funded areas
- Propose and draft calls for funding in FW Biodiversity research







# ecology & evolution

Article Published: 17 February 2017

# Cross-realm assessment of climate change impacts on species' abundance trends

Diana E. Bowler, Christian Hof, Peter Haase, Ingrid Kröncke, Oliver Schweiger, Rita Adrian, Léon Baert, Hans-Günther Bauer, Theo Blick, Rob W. Brooker, Wouter Dekoninck, Sami Domisch, Reiner Eckmann, Frederik Hendrickx, Thomas Hickler, Stefan Klotz, Alexandra Kraberg, Ingolf Kühn, Silvia Matesanz, Angelika Meschede, Hermann Neumann, Robert O'Hara, David J. Russell, Anne F. Sell, Moritz Sonnewald, Stefan Stoll, Andrea Sundermann, Oliver Tackenberg, Michael Türkay, Fernando Valladares, Kok van Herk, Roel van Klink, Rikjan Vermeulen, Karin Voigtländer, Rüdiger Wagner, Erik Welk, Martin Wiemers, Karen H. Wiltshire & Katrin Böhning-Gaese - Show fewer authors

Nature Ecology & Evolution 1, Article number: 0067 (2017) Download Citation ±







# Alliance for Freshwater Life





#### **Data**

## Ingrid Timboe, AGWA





### TMI, IDK or SMH: Data in the Anthropocene







## **Shifting Baselines**

• We traditionally make management decisions based on reference conditions.

- Climate change fundamentally alters the reliability of this data for predicting future states.
- Deep uncertainty about the future means that decisions cannot come from data alone.





#### **Lost in Translation**

Lack of awareness does not stem from a lack of data

- Water language is the language of engineers
  - Quantity, quality, frequency, timing, duration, etc.





#### **Lost in Translation**

If we want people to care about freshwater ecosystems we need to speak their language, not ours





# Research for data's sake is not good research

- Who is your data designed for?
  - Is it relevant to their needs? To their field and socio-cultural context?
  - Can they access, understand, and take action?
- For these reasons, end users MUST be active research participants and leaders, not passive recipients of "our" knowledge





### Mexico's National Water Reserves Program



 WWF-Mex and CONAGUA sponsored project to establish a national system of water reserves

 In collaboration with water users, rural communities, academic institutions, NGOs, and the federal government





# Mexico's National Water Reserves Program



 Demonstrates that water reserves ensure a healthy functioning of the water cycle, as well as the environmental services they provide

 Build capacity for implementation of e-flows backed by official national guidelines throughout the country





#### Conservation

# Michele Thieme, WWF





#### **Conservation**

**Objectives:** to inform, support, connect, and implement freshwater biodiversity conservation

The Alliance proposes to initially focus on the following activities:

- Expert Network: to share and disseminate information and technology
- Blueprint for Action & Protected Area gap analysis: to develop a global "Blueprint for Action" identifying important freshwater ecosystems or sites & gaps in protection
- **Conservation Action**: action in those ecosystems or sites prioritised through the Blueprint for Action
- Funding Platform: to showcase projects for site-based conservation action of freshwater species and ecosystems

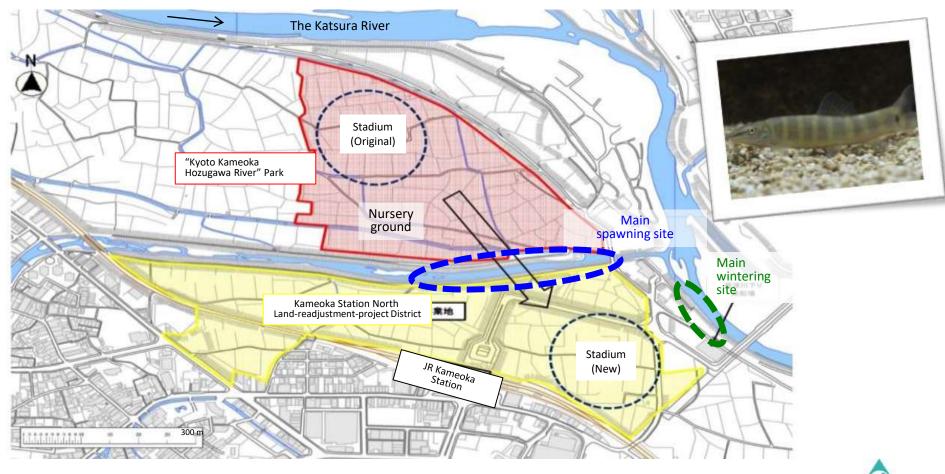




















# Alliance for Freshwater Life



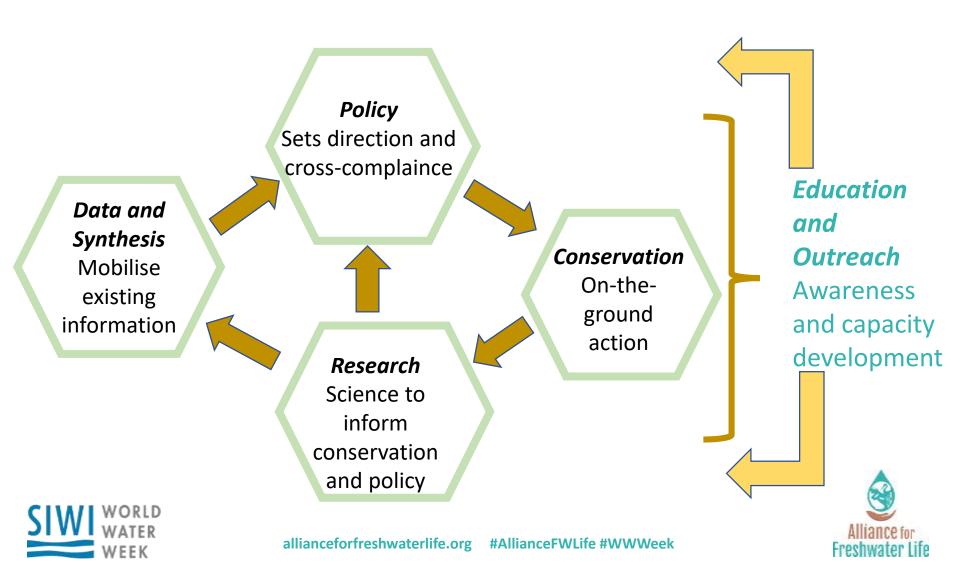


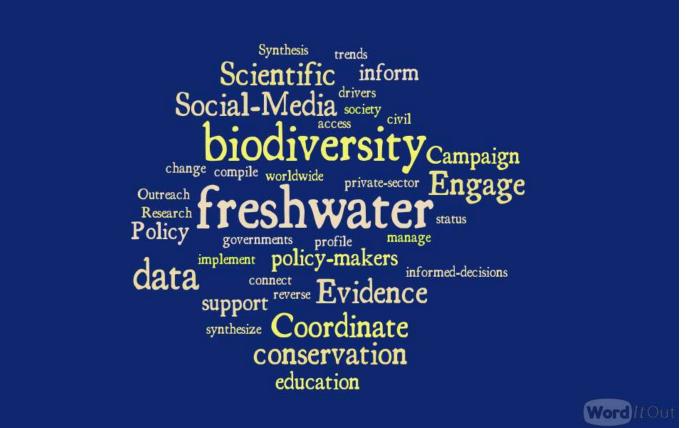
#### **Outreach**

# Ken Irvine, IHE Delft













#### **Publications**

#### **AFL Outreach**

POLICY, PRACTICE AND STANDARDS

WILEY

The Alliance for Freshwater Life: A global call to unite efforts for freshwater biodiversity science and conservation

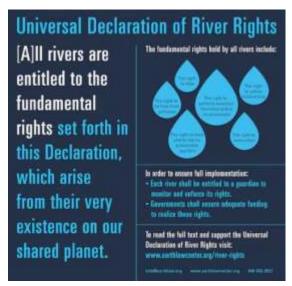




Actions &

https://undp-biodiversity.exposure.co/fair-share

#### **Inspiration and awareness**



https://www.earthlawcenter.org/ri
ver-rights/





# Vanesa Rodríguez Osuna, CUNY Advanced Science Research Center and Sequa gGmbH





The Intergovermental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)



Science-Policy: What can we learn from the IPBES process that is relevant for this Alliance?











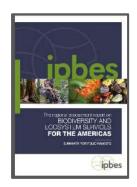






# The Intergovermental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)

- Examples of key findings of IPBES: The Americas Regional Assessment
- Positive policy outcomes of IPBES that can inspire the Alliance for Freshwater Life



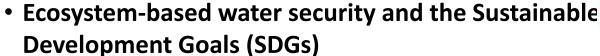
https://www.ipbes.net/assessment-reports/americas





#### Scientists provide input to the High Level Panel on Water





- Key issues
- Calls-to-Action





#### Ecotygrology & Hydrobiology

Australia unime 35 July 2018 In Press, Uncornected Press (5)



#### development goals

Durter J. Viccornaty \* \* 2 St. Venns Radiguez Caura. \* \* Selbrery U. Cali \* Aris Brader \* \* Stant E. Burn. \*, Falto Girsi, \* \*, Jorge Cartek,mend \*, Partelly Green \*, had black any \* \* \* 1 (. Richard Leuton) \*, Patel J. Maccoballe

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- a. Advanced Science Research Center at The Graduate Center, CURY, United States
- b. The City College of New York, CUNY, United States
- c. The intergovernmental Science-Policy Rafform on Biodivernity and Ecosystem Servicus (IPDES): Americas Regional Assessment, Germany 4. Australian Bloom technologistists trainerally, Australia
- e. Sastainable Water Feture Programme, Australia
- a. Conservation International, United States
- h. International Union for Conservation of Nature (IUCN) WCFA Insolwater Specialist Group, Switzerland
- 1 FUIDN-SSC Freshwater Conservation Subcommittee, Switzerland
- GED BOM Freshwater Biodiversity Observation Network IFW BOM. Germany
- k. Morgan State University, United States
- 1 CUMY Institute for Sustainable Otios ICISCL Hunter College, CUMY, United States
- in 1865500-845. The Notherlands
- a. University of Miscowin, Madison, United States
- University of Maryland, United States
- p. National Socio-Environmental Symbols Center, United States
- g. World Water and Climate Foundation, Canada
- r Institute for Advanced Studies Kisseg (ASK), Hungary
- s. Suntainable Water Future Programme and National University of Public Service, Hungary
- t UMESCO International Hydrological Programme & UMESCO-IHE Delit, Formerly, The Netherlands
- a. UM Modd Water Assessment Programme (WMAP), Italy.





#### **Contact**

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# World Café Discussion Period (25 mins)

#### Please join one of our five pillars for discussion:

- Research
- Data
- Conservation
- Outreach
- Policy





## **Questions to consider:**

- How can you contribute?
- How can we improve on this?
- What ideas should we be drawing on and emulating?
- What have we missed?





# Wrap up and Conclusion

- What were the key takeaways from your group discussion?
- How can we move forward together as an Alliance?





# Thank you for joining us!

- Visit our website at http://allianceforfreshwaterlife.org
- Follow us on Twitter @AFL\_org
- Tweet us your suggestions using the hashtag #AllianceFWLife
- Reach us via email at info@allianceforfreshwaterlife.org



