

DA vast interconnected

watershed

The Amazon Basin is the greatest freshwater system in the world: It spans 7.2 million km² and houses 19% of global freshwater fish diversity. In this vast watershed is the most extensive tropical forest, a forest connected by a web of rivers and the fish that move between them.

Some of these fish, such as the dorado catfish, travel across the entire Amazon jungle from the Andes to the Atlantic Ocean and back. This is the longest freshwater migration in the world, demonstrating the intertwined links within the watershed.

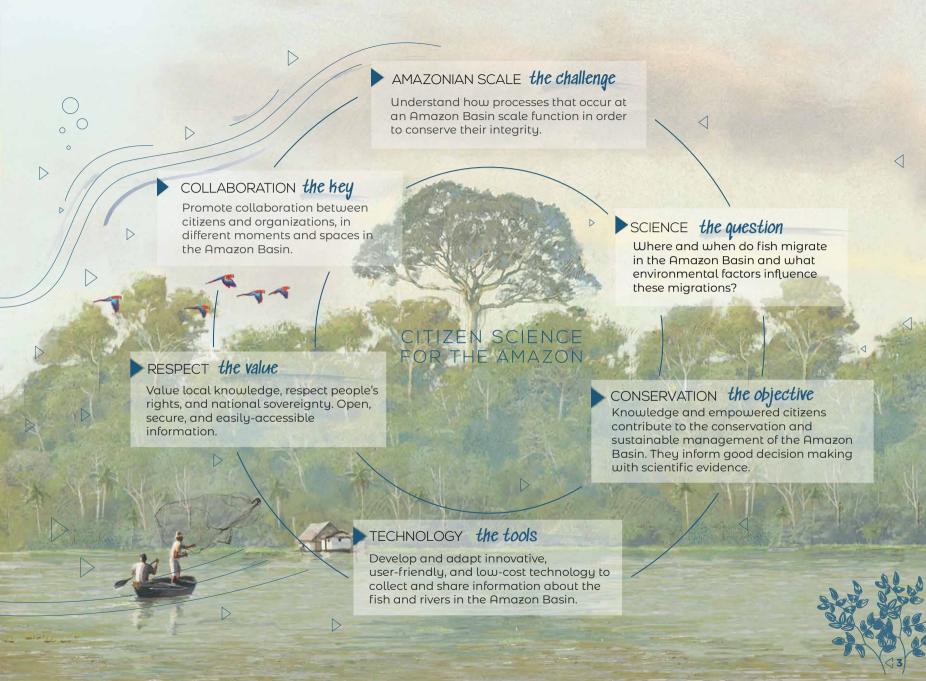
Rivers are central to the way Amazonian peoples understand and interact with the world, not only in their celebrations and worldviews, but also in their day-to-day routines. Their livelihoods and principal food source, fish, live in rivers. Migratory fish are particularly relevant as these represent 80% of commercial fish capture.

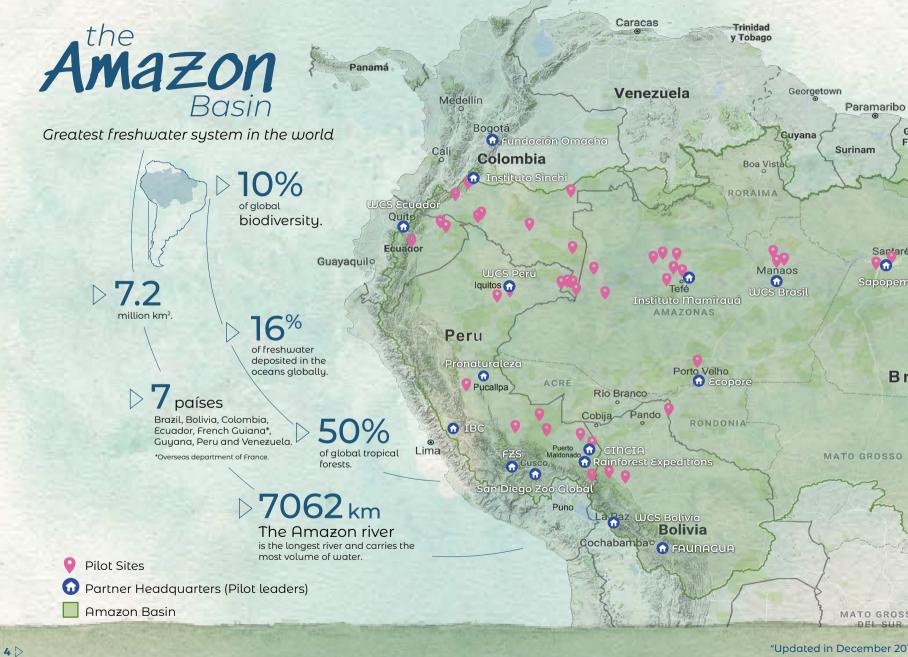
While there is vast traditional and scientific knowledge about the Amazon, we still have much to discover as far as the ecological and evolutionary processes occurring throughout the watershed, particularly as they relate to fish migration and climate change.

Through the Citizen Science for the Amazon project, we aim to understand fish migrations and the environmental factors that influence them. This information is key to assure sustainable fishing and the conservation of the Amazon aquatic ecosystems.

CITIZEN SCIENCE FOR THE AMAZON

Citizen science is a unique opportunity to take up the challenge of the Amazon spatial scale. More than 30 organizations from Bolivia, Brazil, Colombia, Ecuador, France, Peru, and the United States are working together to connect and empower people and organizations throughout the Amazon Basin. Together, we collect and share information about the most important fish species in the Amazon. In this way, we, citizens and scientists together, produce knowledge that contributes to the sustainable management of fisheries and the conservation of priority aquatic ecosystems.





Suayana AMAPÁ Macapá Belén São Luís Fortaleza MARANHÃO CEARÁ RIO GRANDE PARA PIAUL PERNAMBUCO azil ALAGOAS Aracaju TOCANTINS SERGIPE BAHÍA GOIAS Brasilia Golania MINAS GERAIS Belo Horizonte ESTADO

PEOPLE Our commitment



Size: 33 million people live in the Amazon Basin.

Diversity: 384 indigenous groups and nations.

Valuable traditional knowledge.

RIVERS Fundamental for Amazonian life

Waters: for human use and consumption.

Transport: connect people, towns, and cities.

Food: fish and other aquatic species.

Ecosystems: key for the connectivity and functioning of the Amazon.

Culture: worldview, knowledge and traditions.

FISH

The greatest global diversity

Diversity: 2400+ species = 19% of global freshwater fish diversity

Food and economic security: Source of protein and livelihoods for Amazonian peoples.

Migratory fish: represent 80% of the commercial fisheries in the Amazon.



A free database and app for mobile devices that allows one to record and share information about fish in the Amazon Basin. Developed by the Cornell Lab of Ornithology in collaboration with the Wildlife Conservation Society and project partners.



Designed for:

Citizens: families, fishers, tourists, students, and any person with the will to collaborate.

Organizations: of civil society, educational and scientific organizations, businesses, and government.



With Ictio you can record:

- Species

- Date
- Number of individuals
- Market price

- Weight (Kg)

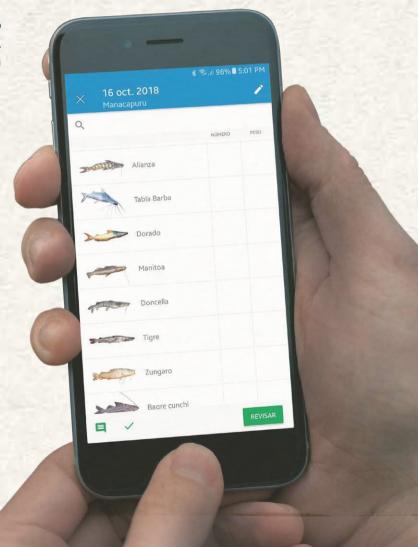
- Photographs

- Location

We prioritize **20 fish species** based on relevance to fishers' day to day lives.



▷ Available for Android in GooglePlay or at: www.ictio.org



AguaKit AMAZÓNICA

Low-cost water and climate monitoring in the Amazon Basin



A monitoring tool consisting of modular water level and quality sensors, weather stations, as well as web and mobile phone apps for the collection, management, and sharing of data. Uses open access platforms to create a low-cost alternative for water and climate monitoring.

We research the environmental factors that correlate with fish migration in the Amazon Basin at a regional scale. Led by Florida International University, project partners are collaborating to implement a water and climate monitoring network, and in that way collecting data in places where there currently are no monitoring programs.

With AguaKit you can record:

- 1
- Water level.
- 2

Water quality: temperature, pH, conductivity, and dissolved oxygen.

3

Weather conditions: air temperature, precipitation, atmospheric pressure, relative humidity, radiation.



Contact: aguakitamazonica@gmail.com



Modular sensor system



Mobile applications



Information management platform











