

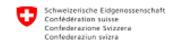


## Tackling Climate Change Impacts on Aquatic Ecosystems: From the Andean Glaciers – to the Amazon Delta

Maria Apostolova Amazon Cooperation Treaty Organization

























#### TRANSBOUNDARY COOPERATION

- Political Dialogue
- Knowledge And Information Exchange
- Regional Cooperation



#### **WORK TOPICS**

- Water
- Forest
- Biodiversity
- Indigenous peoples
- health
- Infrastructure
- Energy
- Transportation
- Climate change

1978

The Amazon Cooperation Treaty
(ACT) was signed in
July 3, 1978

1998

The Amazon Cooperation Treaty
Organization (ACTO) was created
in 1998

2002

Permanent Secretariat of ACTO, inaugurated in 2002, in Brasília, Brazil

### Consensus on priority transboundary issues in the Amazon basin



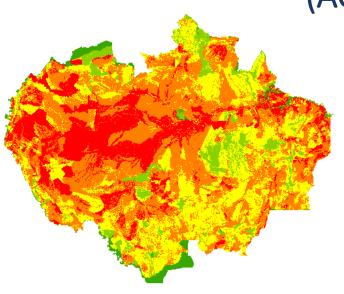
### **NIVELES DE VULNERABILIDAD**

Color	Nível	Valor
	Muy alta	5
	Alta	4
	Media	3
	Baja	2
	Muy Baja	1

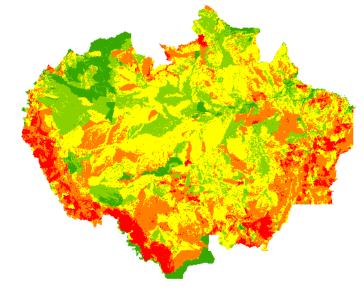
Y SENSIBILIDAD

### Atlas of Hydroclimatic Vulnerability



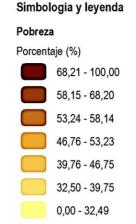






### Flood Vulnerability

 The occurrence of disasters reaches 50% in the Andean Amazon and 51% in the Brazilian Amazon.



#### **Drought Vulnerability**

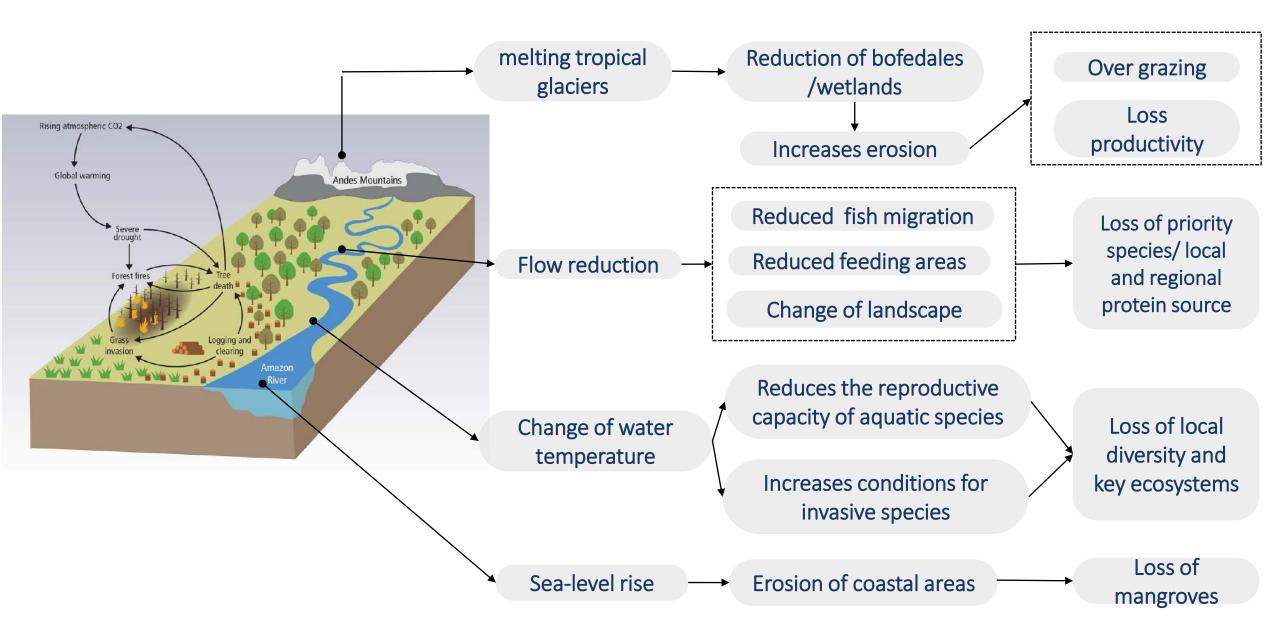
- 19% of disasters in the Region are associated with drought, increasing to 46% in the Brazilian Amazon.
- •The greatest impact of droughts is in the livestock sector with 58% and in crops and forests with 6%.



Increase of 3 to 4 °C in temperature is expected toward the XXI century (2080-2100)

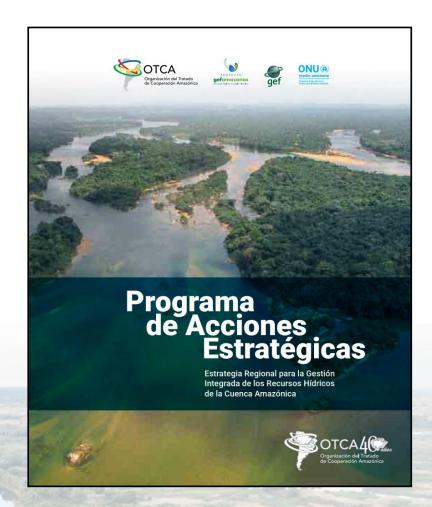
Sin información

## Climate change impacts on Amazon aquatic ecosystems: from Glaciers (source) to the delta Amazon (sea)



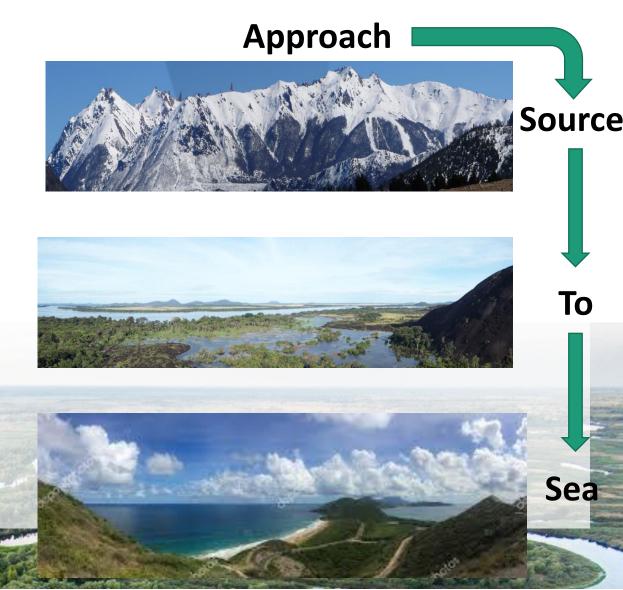
# Strategic Action Program for Transboundary Water Management in the Amazon (SAP)

- The SAP is the first Regional Strategy in the Amazon to address Integrated Water Resources Management in the context of climate variability and change.
- Developed as part of a regional initiative of the 8 Amazonian countries, supported by ACTO in partnership with UNEP/GEF, the Program was endorsed in 2017.
- •The SAP guides coordinated actions across the countries along 3 strategic lines: Strengthening IWRM, Adaptation to Climate Change and Knowledge Management.

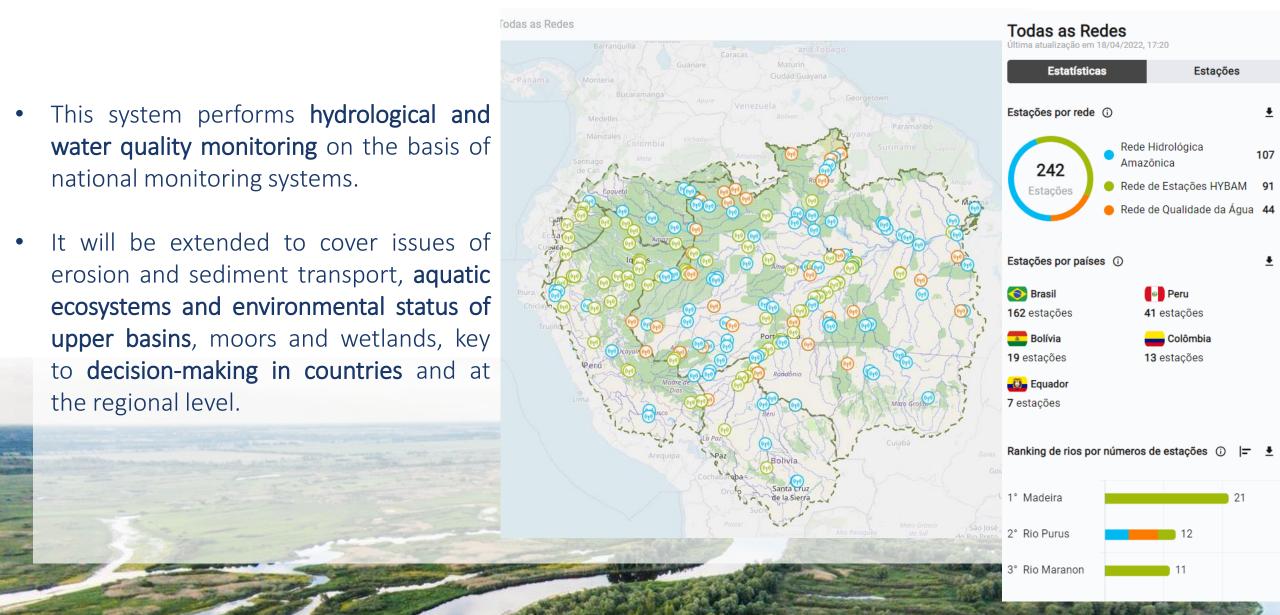


# Strategic Action Program for Transboundary Water Management in the Amazon (SAP) – Implementation

- Water security in the cities of La Paz and El Alto (Bolivia) through alternatives for water supply and efficient use of water resources impacted by melting glaciers.
- Nature-based solutions for enhancing coastal ecosystems and mangrove services affected by sea level rise and human interventions (Suriname).
- Regional mapping and monitoring of the Amazon aquatic ecosystems most vulnerable to climate change and human impacts.



## ORA – AMAZON NETWORKS MODULE – REGIONAL WATER RESOURCES MONITORING SYSTEMS



## AMAZON REGIONAL OBSERVATORY – ORA Extreme Event Situation Room - ACTO



### Thank you



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