



# WATER AND CLIMATE MEETING OF THE GREAT RIVERS OF THE WORLD: THE AMAZON RIVER

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BOLIVIA



BRASIL



COLOMBIA



ECUADOR



GUYANA



PERÚ



SURINAME



VENEZUELA

# THE AMAZON



6% OF THE TERRESTRIAL;  
SURFACE OF THE  
PLANET

approx. 7.5 Million km<sup>2</sup>



LARGEST TROPICAL FOREST AND  
MEGADIVERSE REGION IN THE  
WORLD

40.000 Plant species identified



20% OF ALL FRESH WATER DISCHARGED  
INTO THE OCEANS COMES FROM THE  
AMAZON BASIN

220.000 m<sup>3</sup> per second



40 MILLION INHABITANTS

385 indigenous peoples,  
86 languages, 650 dialects and  
71 references of non-contacted  
indigenous peoples





# THE AMAZON



## The Amazon forest:

- Giant consumer of heat, absorbing half of the solar energy by means of water evaporation in its foliage.
- Carbon sink, accumulating an enormous amount of carbon dioxide that can easily be released into the atmosphere by deforestation and forest fires.
- Volume of water discharged in the Atlantic Ocean is sufficient to affect some of the major ocean flows, which are the basis of regulation of the global climate system.

Key role for the global climate balance



The Amazon Cooperation Treaty - 39 years of South-South cooperation experience

The Organization was established in 1998 - most important socio-environmental bloc of countries in the Americas

Permanent forum for cooperation, exchange and knowledge

Amazonian Strategic Cooperation Agenda



# REGIONAL COOPERATION



- A. Comprehensive management of natural resources and biodiversity
- B. Productive systems and ecosystem services/environmental functions
- C. Comprehensive management of the territory and empowerment of local communities
- D. Capacity building and exchange of experiences.



# MANAGEMENT OF TRANSBOUNDARY WATER RESOURCES

## SHARED VISION

8.700 Opinion surveys  
8 National Visions

## TRANSBOUNDARY DIAGNOSTIC

9 PRIORITY PROBLEMS  
AGREED

## STRATEGIC ACTION PROGRAM

CONSIDERING CLIMATE CHANGE



# 9 REGIONAL TRANSBOUNDARY ISSUES

WATER POLLUTION

DEFORESTATION

LOSS OF BIODIVERSITY

EXTREME HYDROCLIMATIC EVENTS

# 9 REGIONAL TRANSBOUNDARY ISSUES

EROSION AND SEDIMENT TRANSPORT

LAND USE CHANGE

LOSS OF GLACIERS

LARGE INFRASTRUCTURE WORKS

WATER GOVERNANCE





# 3 STRATEGIC LINES OF ACTION

- I. **Strengthening IWRM:** water quality, groundwater use and protection, deforestation, biodiversity, erosion, land use.
- II. **Adaptation to Climate Change and Variability:** monitoring and early warning systems, protection of coastal zones and glaciers.
- III. **Knowledge Management:** regional information platform, rainwater collection and agro-technologies, cultural activities.



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# MANAGEMENT OF TRANSBOUNDARY WATER RESOURCES

## HYDROCLIMATIC VULNERABILITY ATLAS

Assessment of vulnerability to extreme hydro-climatic phenomena: susceptibility and adaptive capacity / 5 levels of vulnerability.

## INTEGRATED INFORMATION SYSTEM

Technological platform facilitating information management, access to official national and regional data on IWRM and inter-institutional coordination

## CONSIDERING CLIMATE CHANGE





# TRINATIONAL EARLY WARNING SYSTEM

## Adaptation in the MAP Region

- Trinational integrated database - supporting risk and vulnerability assessment and decision-making.
- Ecological risk index - mapping environmental stressors and risk areas.
- Trinational field expedition and verification.
- Early warning and communication system - based on TerraMA2 platform (INPE/Brazil).

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# REGIONAL HYDROMET NETWORK PILOT PROJECT

- Regional basic monitoring network project - 73 monitoring points / pilot project - 6 points.
- Technical capacity building and coordination in hydro-sedimentology, data collection platforms, extreme events.
- Information exchange for effective WR monitoring.
- South-South Cooperation / ANA Brazil-ABC financing.

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## MONITORING FOREST COVER IN THE AMAZON REGION

- Development and implementation of forest cover monitoring systems in the Amazon
- Strengthening existing regional coordination platforms for forest management;
- Combating deforestation and containing the advances of global warming.

7 Observation Rooms providing national data for Regional Maps of Amazonian Deforestation: 2000 -2010, 2010 - 2013, 2013 -2014.

7 National forest cover monitoring plans.

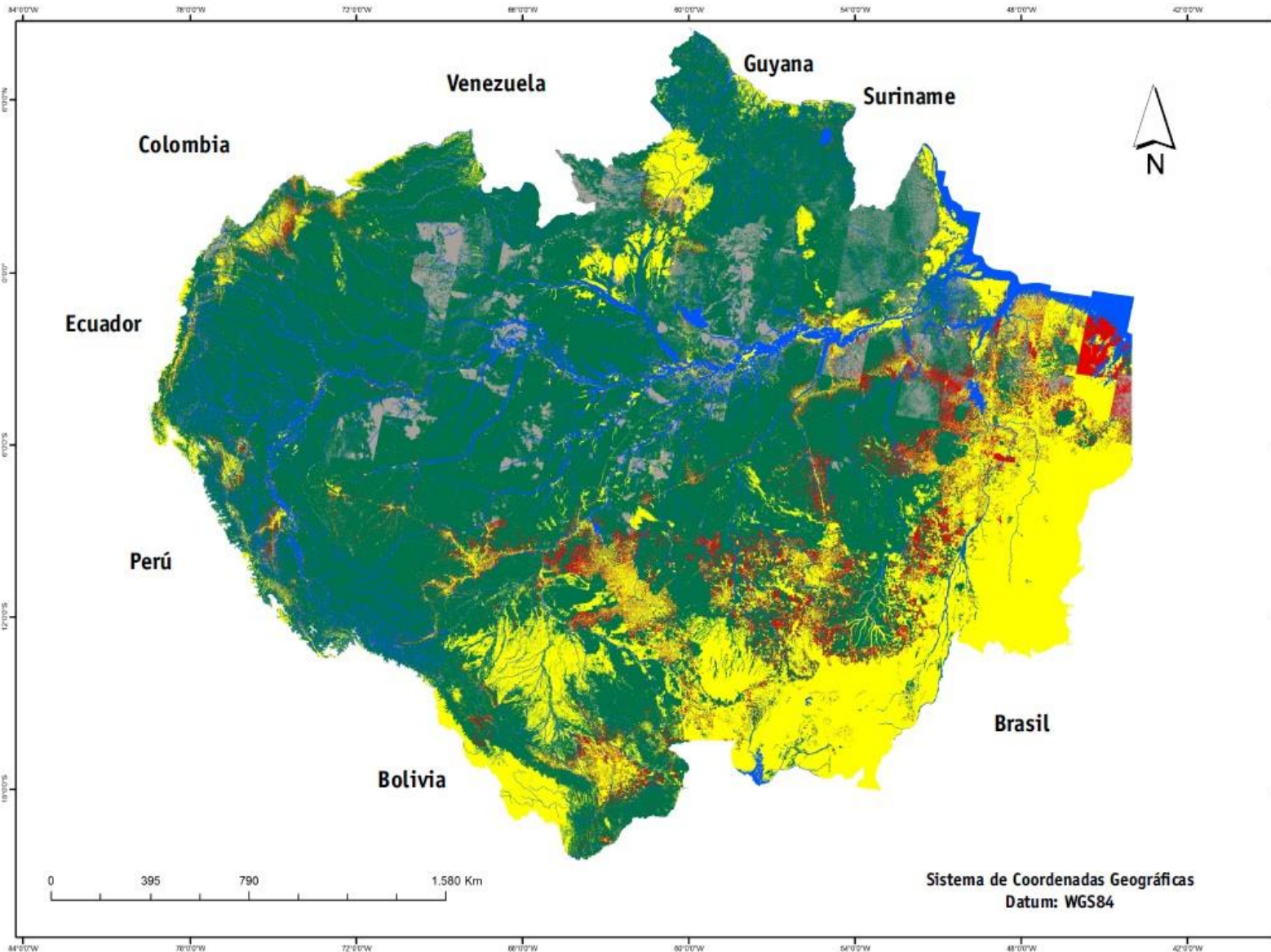
# MAPA DE DEFORESTACIÓN DE LA AMAZONIA REGIONAL - 2014

## AMAZON REGION DEFORESTATION MAP

### LEYENDA LEGEND

-  **Bosque:** área con alta densidad forestal y cubierta de copa continua, formando dosel, nativa poco alterada  
*Forest: high density forest area and continuous crown cover, forming canopy, native and little change*
-  **No Bosque:** áreas con distintas características de la fisionomía vegetal forestal y actividad humana  
*No Forest: areas with different features from the forests physiognomy and human activity*
-  **Deforestación 2000-2014:** Área deforestada entre el periodo de 2000 y 2014  
*Deforestation 2000-2014: deforested area between 2000 and 2014*
-  **Nubes / Sin Información:** zonas no observadas o sin información debido a la presencia de cobertura de nubes  
*Clouds / No information: areas without information or unobserved due to the presence of cloud cover*
-  **Hidrografía:** Cualquier presencia de aguas superficiales en el área, incluyendo mares, lagos, ríos, lagunas y bahías  
*Hydrography: Any presence of surface water in the area, including seas, lakes, rivers, lagoons and bays*


### MAPA DE UBICACIÓN América del Sur Localization Map - South America



Sistema de Coordenadas Geográficas  
Datum: WGS84







Achieve sustainable development in the Amazon Region balancing the use, protection and conservation of its resources, with equitable conditions that ensure integral and sustainable development to face the challenges of climate change.

A vibrant blue and yellow macaw is shown in flight, its wings spread wide against a blurred green background. The bird's body is primarily blue, with a bright yellow patch on its face and a yellow beak. Its wings and tail feathers are dark, almost black. The text "Thank you" is overlaid in white, with a vertical white bar to its left.

Thank you