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

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THE AMAZON

6% OF THE TERRESTRIAL SURFACE OF THE PLANET
approx. 7.5 Million km²

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 m³ 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

CONSIDERING CLIMATE CHANGE

STRATEGIC ACTION PROGRAM
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.
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 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).

BOLIVIA - BRAZIL - PERU
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.

BOLIVIA - COLOMBIA - PERU
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 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 densas, nativas y poco alteradas
Forest: high density forest area and continuous crown cover, forming canopies, native and little change

No Bosque: áreas con distintas características de la fraseología vegetal forestal y actividad humana
No Forest: areas with different features from the forests phytosociology and human activity

Deforestación 2000-2014: Área deforestada entre el periodo de 2000 y 2014

Nubes / Sin Información: zonas no observadas o sin información debido a la presencia de cubierta de nubes
Clouds / No Information: areas without information or unobserved due to the presence of cloud cover

Hidrografía: Cualquier presencia de agua superficial 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

Sistema de Coordenadas Geográficas
Datum WGS84

OTCA
Organización de Tratados de Cooperación Amazonía

FUNDAMazonía
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.
Thank you