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DIRECTORATE OF RESEARCH & SERVICES
SUB-DIRECTORATE FOR RESEARCH AND SERVICES
HYDRAULIC RESEARCH DIVISION
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Report
Regional Training on Satellite Monitoring in the Amazon Basin

Brasilia, 1–5 September 2025

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Introduction

This report provides a comprehensive overview of Suriname's participation in the Regional Training on Satellite Monitoring in the Amazon Basin, held in Brasilia from 1 to 5 September 2025. It summarizes the key insights, networking opportunities, and recommendations relevant to Suriname. The document is intended for knowledge sharing within our institutions and to strengthen regional and international cooperation.

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Executive Summary

The regional training on satellite monitoring in the Amazon Basin provided Suriname with valuable insights and practical applications for water management and climate adaptation. Satellite data enables accurate and cost-efficient ***monitoring of water levels and sediment flows***, strengthening both policy-making and operational implementation.

Key added value:
• More efficient and accurate use of modern technology.
• Access to knowledge and data through regional cooperation within **ACTO.**
• Improved international positioning and reporting for Suriname.

Introduction

This report provides an overview of Suriname's participation in the regional training on satellite monitoring in the Amazon Basin. The training was organized under the **Strategic Action Program (SAP)** of the **Amazon Cooperation Treaty Organization (ACTO)**, with support from the **Global Environment Facility (GEF)** and the **United Nations Environment Programme (UNEP)**. The objective of this document is to summarize the main insights, networking opportunities, and recommendations relevant to Suriname.

Objectives of the Training

• Strengthen **regional cooperation** in water management, climate, and hydrology within the Amazon region.
• Build technical capacity in satellite monitoring of water levels and sediment transport.
• Contribute to the establishment and consolidation of the Regional Network of Hydrological Service Authorities.
• Increase national expertise in Suriname through the integration of new knowledge and technologies.
• Promote knowledge-sharing within Suriname by encouraging participants to share insights with colleagues and institutions.

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Added Value for the Ministry

• **Strengthening hydrological knowledge:** The knowledge gained on satellite monitoring improves understanding of water management, flood risks, and climate adaptation.
• **More efficient use of modern technology:** Satellite data allows for remote monitoring, reducing costs and improving data accuracy.
• **Regional cooperation and knowledge exchange:** Access to expertise and data from other Amazon countries enhances national water management.
• **International positioning and reporting:** Supports Suriname in meeting international obligations and strengthens its position in multilateral forums.

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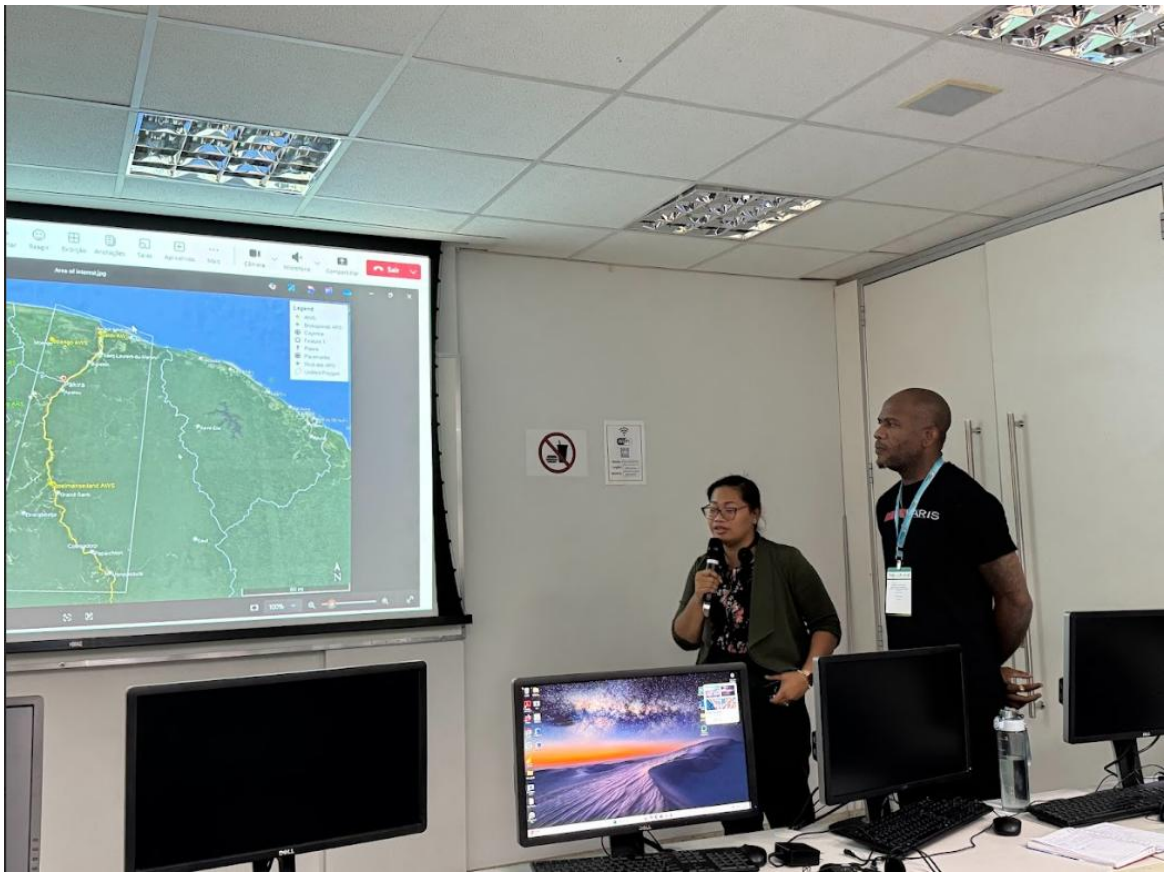
Networking Opportunities during the Training

• **Amazon Cooperation Treaty Organization (ACTO/OTCA):** Direct interaction with the Secretariat, including the Executive Director and regional coordinators.
• **National Water Authority of Brazil (ANA Brasil):** Exchange of experiences and strategies in ***hydrological monitoring*** and Amazon water management.
• **Institut de Recherche pour le Développement (IRD – France):** Access to scientific expertise and methodologies in satellite monitoring.
• **Regional partners from Amazon countries:** Exchange of best practices and joint approaches to water management and climate adaptation.
• **International organizations and financiers (GEF, UNEP):** Strategic contacts for future funding, technical support, and cooperation.



Representing Suriname

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Key Learnings

• Understanding the use of satellite monitoring for ***water levels and sediment transport***.
• The importance of **regional cooperation** among ACTO member states.*(Bolivia, Brasil, Columbia, Equdor, Guyana, Peru, Suriname and Venezuela)*
• The link between **political decision-making** and **technical implementation**.
• The establishment of the Regional Network of Meteorological and Hydrological Service Authorities.
• Practical applications of satellite data in Suriname, including water management and infrastructure planning.
• The importance of internal knowledge sharing and institutional capacity building.

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Conclusions

The training confirmed that **satellite monitoring** is a powerful tool for tracking ***hydrological parameters***. The knowledge and networks acquired are directly applicable in Suriname and provide opportunities to strengthen national capacity. It also highlighted that regional cooperation across the Amazon Basin is crucial for effective and sustainable water management. The creation of the **Regional Network of Hydrological Service Authorities** represents an important step toward structured collaboration.

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Recommendations

• Integrate satellite monitoring as a structural component of Suriname's hydrological and meteorological programs.
• Actively engage in the Regional Network of Hydrological Service Authorities and promote data exchange.
• Organize **internal training sessions** and knowledge-sharing within relevant institutions.
• Embed satellite monitoring into national policy documents on water management, spatial planning, and climate adaptation.
• Strengthen Suriname's visibility in international forums and leverage participation for access to funding (GEF, UNEP, ACTO).

Course Trainers and Trainees, ACTO and ANA Members