



United Nations Environment Programme

Incorporation of climate change adaptation and mitigation measures to the integrated management of natural resources in priority watersheds of Panama

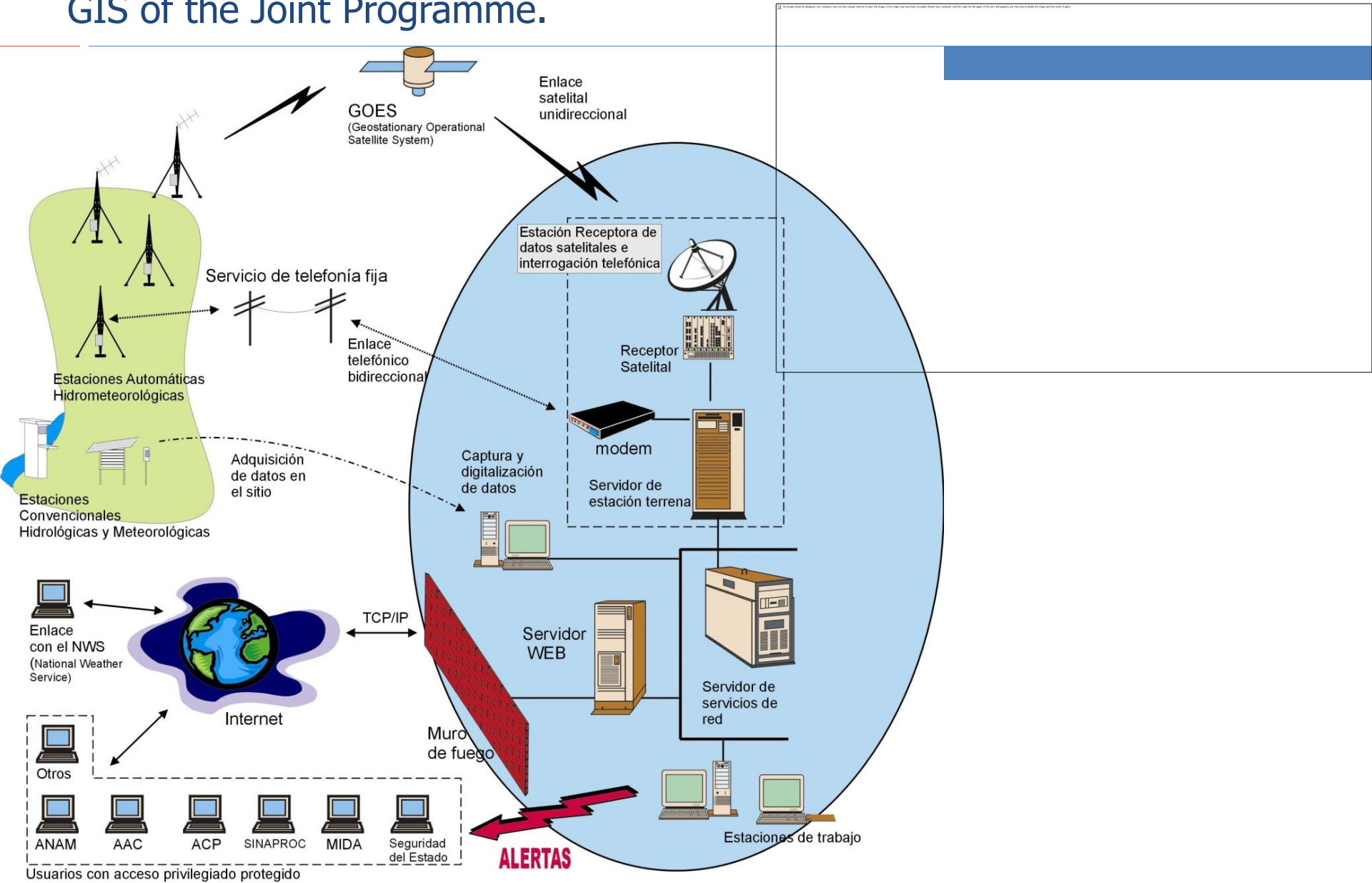


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Enhancing Latin American GIS&T Capacity for Innovation and Economic Development

Communication network of HIDROMET ETESA that can be used for the integration of the Climate Change Monitoring System, the EWS and the GIS of the Joint Programme.



Perceived gaps for capacity building

- Early Warning:
 - ▣ GIS for pre and post disaster management (including the use of satellite imagery)
 - ▣ GIS for visual presentation of scenarios (current scenarios are textual... no spatialization)

Alerta emergente (pre- desastre)

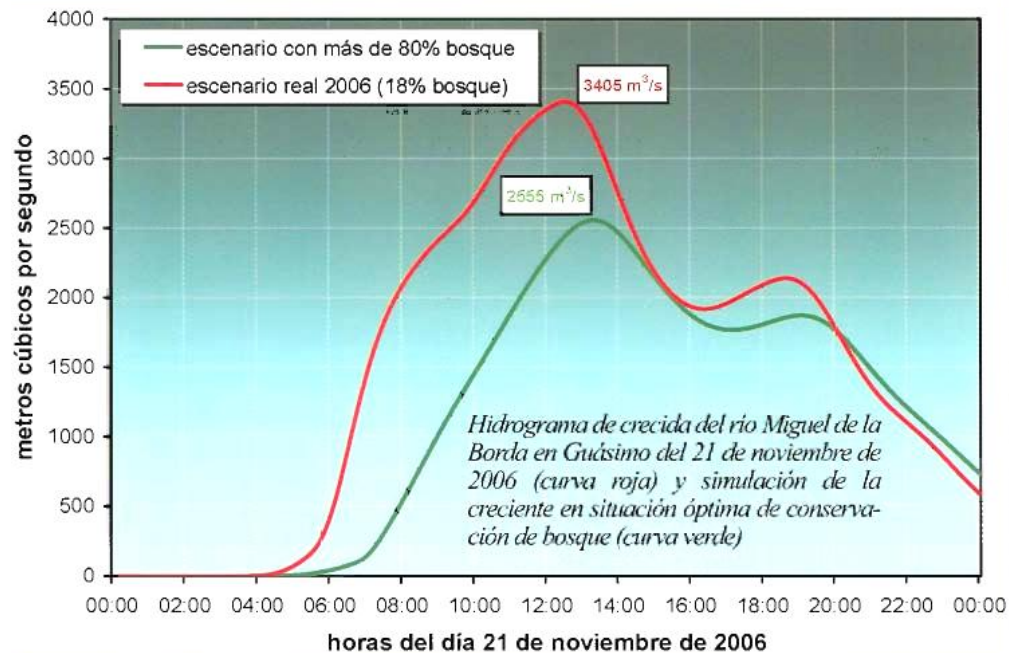
- Modelamiento espacial: escenarios
 - ▣ *Qué ocurre si...?*
 - ▣ *Cuenca del río Miguel de la Borda Panamá)*



Alerta emergente: modelamiento espacial

- Uso de la teledetección (2):
 - ▣ Alimenta modelos espaciales e hidrológicos (SIG-HECRas)
 - ▣ Deriva información para concienciar a decisores:

**Relación
deforestación-
inundaciones**



SIG y post-desastre: evaluar, priorizar y planificar

- Uso de mapas para evaluaciones iniciales de:
 - ▣ Áreas afectadas (extensión, magnitud)
 - ▣ Priorización
 - ▣ Planificación
 - ▣ Monitoreo



ANGUSTIA. Carlos Saavedra descansa al lado de la vivienda en donde las aguas arrastraron a una niña de nueve meses.

- Assessments:
 - ▣ Construction of environmental indicators
 - ▣ Downscaling of scenarios, what if...
 - ▣ The TEEB, Green Economy: to support valuation of ecosystem services
 - ▣ Ecosystem-based integrated assessments.
 - ▣ Urban assessments: policy options.
- Others: to support integration of Env & Economic Accounting



**United Nations Environment Programme
Regional Office for Latin America and the
Caribbean**

**www.pnuma.org
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