

VICEPRESIDENCIA CUARTA DEL GOBIERNO MINISTERIO PARA LA TRANSICIÓN ECOLÓGIC Y EL PETO DEMOCRÁFICO





The experience of Iberoamerican Meteorological Cooperation in the improvement of the provision of Weather and Climate Services

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- Iberoamerican Meterological Cooperation
 - National Meteorological and Hydrological Services (NMHS) cooperation: a key element for the provision of services to society.
- Iberoamerican NMHS cooperation
 - Advantages: common language and cultural heritage
 - Based on Conference of Iberoamerican NMHS
 Directors (CIMHET)
- CIMHET
 - Working and cooperation structure, with annual meetings, aimed to improve institutional and operative capacities and to share experiences
 - Action plan approved in annual meetings
 - Institutional strengthening and resources mobilization
 - Provision of Weather, Climate and Hydrologic services
 - Education and training
 - Participation of all Iberoamerican NMHS, including Spain and Portugal
 - Permanent Secretary in AEMET



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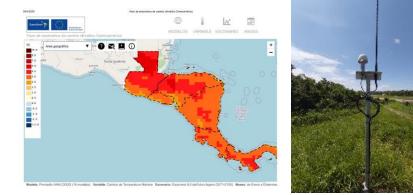
Recent activities in support for WCS provision

- Development of free Database Management System (MCH)
- Implementation of a Central America Lightning Detection Network
- Development of Downscaling Climate Change Scenarios for Central America
- NMHSs Staff Training
- Coordination with other Iberoamerican Networks



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Data Base Management - MCH

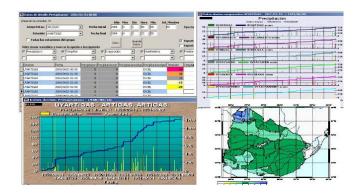
- Information system for Meteorological, Climatological and Hydrological data
- Products generation
- No huge hardware infrastructure requirements
- Open Software
- Transferred to WMO by CIMHET
 - Installed in several SMHN of Iberoamerica, Europe and Asia
 - Users Community. Continuous evolution of the system



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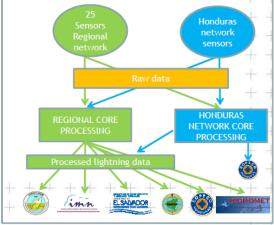






- Central America Lightning Detection Network
- Early Warning System component
- Regional Network
 - Agreement between all NMHS involved
 - 25 sensor distributed in all countries
 - A single Processing System in Hidromet-ETESA (Panamá)
 - Operating systems (6) in each NMHS
- Incorporates currently existing systems in the region (Honduras network)
- Operational since September 2019
- Funded by EU LAIF Project











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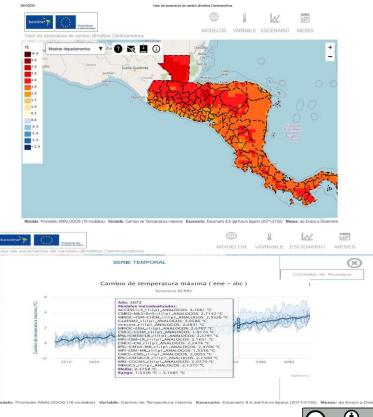
- Central America Downscaling Climatic Change Scenarios
- Regional Project
 - All NMHS of the region involved
 - Common methodology
 - Around 45 different projections for each parameter
 - Regional working group with NMHS experts
 - Visor web with results hosted by CRRH
- Reference to develop specific impact evaluation and adaptation needs on diffent sectors
- Users involvement
 - Users workshops in all countries
 - Parameters defined on workshops
- Completed in March 2020
- Funded by EU EUROCLIMA+ Project



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AEMET





Capacity Building

- Support for professional training
- Support from AECID facilities and Intercoonecta Training Program
- From 2003, more than 60 courses, mainly on-site, with more than 1.000 students (senior and junior NMHS Staff)
 - Technical training on weather forecast, remote sensing, climatology, climate change, droughts, marine meteorology, equipment maintenance, air quality
 - Management of the INMHSs
 - Promotion of horizontal cooperation. Expert networks









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Coordination between Iberoamerican Networks

- Iberoamerican networks
 - Weather and Climate Similar Conference of Iberoamerican Directors of NMHS
 - Water < CODIA

Conference of Iberoamerican Directors of Water

Climate Change **Fiece**Iberoamerican Network of Climate Change Offices

- Joint workshops
- Proposed activities on:
 - Promoting Virtual Regional Forecasting Centers
 - Generation of downscaling climatic change scenarios and its application to determine the future impacts on water resources and extreme events.
 - Recovering data
 - Economic evaluation of extreme hydrometeorological events
 - Projects for NMHS strengthening



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Summary



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- Importance of cooperation and coordination activities to improve NMHSs provision of Weather and Climate Services
- CIMHET became an ideal forum:
 - Regional focus
 - Dialogue with users. Projects oriented to users needs
 - All Ibero American NMHS included in CIMHET
 - Agile and proven solution for cooperation
 - Ability to implement or be part of projects
 - Allows interrelation with other networks and organizations
 - WMO involvement
 - Strategic alliances with International Cooperation Agencies, mainly the Spanish Agencies AECID and FIIAPP
 - Possibility of access to EU programs or other sources of funding





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