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Severe Weather Forecast Demonstration Project (SWFDP) for RA III South America



WMO OMM

World Meteorological Organization

Organisation météorologique mondiale

Overview of Presentation

- About the SWFDP (the “Project”)
- Technical Planning Workshop – Ascension 2-3 Oct 2017
 - Recommendations
 - General plan ("roadmap") for the preparation of the Project
- Update on Activities

About the SWFDP

- The SWFDP Vision is to enable NMHSs in developing countries to implement and maintain reliable and effective routine forecasting and severe weather warning programmes through enhanced use of NWP products and delivery of timely and authoritative forecasts and early warnings ...” Cg-15 (2007) & Cg-16 (2011)
- Uses a cascading forecasting process
 - Global scale information are made available to the Regional Specialized Meteorological Centers (RSMCs) or network of centers
 - Regional Centres integrate and synthesize these to provide daily guidance to the NMHSs o generate warnings for their areas of responsibilities

About the SWFDP (continued)

- Regular Training in NWP and EPS as well as in PWS and verification processes are integral part of the project
- The WMO Strategy for Service Delivery (Cg-17, 2015) promote the use the move to
 - impact-based forecasts and Risk-based warnings

About the SWFDP (continued)

- The SWFDP Project Steering Group recommends evaluating all opportunities to combine this project with the existing activities of other programmes and Technical Commissions related to hazardous weather events, such as the Flash Flood Guidance System planned for the Northwest South America.



Technical Planning Workshop

- Held October 2-3, 2017 following the meeting of the RA III WG on Infrastructure
- Organized in response to the request of RA III to WMO, based on the recommendation of the Initial Planning Meeting for the Establishment of a Flash Floods Guidance System (FFGS) for South America.
- Reviewed current operating environment of NMSs in RA III.
- Agreed to a number of Recommendations to the PRs of RA III (see next slides).
- Plan for the development of a SWFDP for RA III.



Technical Planning Workshop

Recommendations

- Implement *elements* of the SWFDP in RA III (an adapted version) to:
 - Improve coordination and communication among the NMSs in the Region.
 - Share information and specialized knowledge in relation to numerical weather prediction, meteorological satellites and radars, AMDAR and other tools.

Recommendations (continued)

- The Project must be developed to reflect the needs of the participating countries
 - sharing existing weather forecasting tools in the Region
 - the Project should include *elements* such as:
 - probabilistic forecasts
 - very short-term forecasting (nowcasting) tools
 - verification
 - capacity development
 - a mechanism to facilitate sharing of hydrometeorological warnings in South America
 - improving communications among NMSs, especially in case of extreme transboundary phenomena

Recommendations (continued)

- Action must be taken to strengthen Global Centres support to the Region
 - sharing high-resolution digital data
 - enabling post-processing and calibration
 - strengthen data assimilation capabilities
- Include CPTec in the Project and strengthen links with universities (e.g., University of Buenos Aires).

Recommendations (continued)

- The implementation of the Project should be planned at the Regional level and implemented through sub-regional components that will be defined by the experts (Work Team)

Next Steps

- Establish a Work Team, with composition based on the participants of the Technical Planning Workshop, to develop the Project in coordination with the RA III Working Groups on Hydrology and Infrastructure
 - provide short presentation to CIMHET in Curaçao (7 to 9 March 2018) on the October 2017 Workshop held in Asuncion and seek to immediately formalize the Task Team
 - prepare the draft Implementation Plan for consideration of AR-III in their 17th Session in November 2018
- The President of RA III (currently vacant) to request the WMO Secretary-General to take the necessary steps to mobilize the necessary resources to carry out the actions detailed above.

Update on Activities

- Still waiting for:
 - The establishment of the Task Team
 - The President of RA-III (this position is currently vacant) to send letter to WMO SG to formally request SWFDP implementation in RA-III
- Funding source for the Implementation of SWFDP not identified yet

Thank you

FFGS

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For more information
please visit:

<http://www.wmo.int/ffgs>

<http://www.hrcwater.org>

<http://www.wmo.int/pages/prog/www/swfdp/>

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