



RA IV¹ Expert Team on Research and Modelling

Webinar Series:

“Updates on Research, modelling and AI for weather forecasting in North America, Central America, and the Caribbean”

Wednesday October 29th, 15h00-17h00 UTC
09h00-11h00 Costa Rica; 10h00-12h00 Colombia; 11h00-13h00 Barbados;

ZOOM Platform with subtitles in English and Spanish

Register here: <https://forms.office.com/e/FZzrgJ1S6Q>

Session title	Updates on Research, modelling and AI for weather forecasting in North America, Central America, and the Caribbean
Date and Time	Wednesday October 29th, 09h00-11h00 Costa Rica; 10h00-11h00 Colombia; 11h00-13h00 Barbados; 15h00-17h00 UTC
Motivation	As part of the planning of the activities of the new RA IV Expert team on research and Modelling (RA IV ET-REM), the need of mapping and update current efforts on research and modelling for weather forecasting including advances on artificial intelligence was identified. Recent developments have been presented in different meetings, with evidence of the rapid evolution of this technology and its applications, but also an increasing spread of initiatives. Considering the mandate of the RA IV ET-REM and the need to better inform about this progress to all members in the region, this webinar was proposed to provide an overview of the state of the art of AI on weather forecasting, the upfront challenges for the National Meteorological and Hydrological Services (NMHSs), and identify points of synergy and collaboration with the research community. These findings will be highly valuable for the ongoing work of the RA IV ET-REM and the benefit of all members from the RA IV: North America, Central America and the Caribbean.
Key objectives	1. To share with the audience the progress on AI for weather forecasting and the upfront challenges and opportunities for NMHS. 2. To share the progress on numerical modelling for extreme events. 3. To map key experts and research institutions working on Research,

¹ Regional Association IV comprises member States from North America, Central America, and the Caribbean



	modelling and AI for weather forecasting in the region.
Expected audience.	Directors, operational forecasters, technical staff of National meteorological and Hydrological Centers, regional centers and, scientists and AI experts from the region



Agenda

Updates on Research, modelling and AI for weather forecasting in North America, Central America, and the Caribbean		
Date and time: Wednesday October 29th, 09h00-11h00 Costa Rica; 10h00-11h00; Colombia; 11h00-13h00 Barbados; 15h00-17h00 UTC Moderator: Rodney Martinez, WMO Representative for North America, Central America, and the Caribbean		
Time UTC	Topic/questions to the panelists	Presenter/panelist:
1400-1410	Introduction and Opening Remarks	Dr. Arlene Laing and Dr. Jorge Zavala Co-chairs RA IV ET-REM
1410-1425	Updates of the WMO Task Team on Artificial Intelligence for Weather (TT-AI4Wx)	Dr. Jørn Kristiansen Director Development Centre for Weather Forecasting. Agency official Norwegian Meteorological
1425-1440	Machined-learned forecast models AIFS and AIFS ensemble system	Dr. Simon Lang, Senior Scientist, ECMWF
1440-1450	Participation of the private sector in the development of AI solutions	Pedro Mario Cruz e Silva NVIDIA
1450-1500	Interactive survey	WMO Secretariat
1500-1515	WMO AI for Nowcasting Pilot Project (AINPP)	Daniel Vila Espigo WMO
1515-1530	Participation of the private sector in the development of AI solutions	Cesar Beneti Tomorrow.io
1530-1545	Key messages from the Latin America High Performance Computing Conference in Jamaica	Mr. Jonathan Zoetrum Senior Scientist at Curacao Meteorological Service
1545-1600	Q&A from the audience and closing remarks	Dr. Arlene Laing and Dr. Jorge Zavala Co-chairs RA IV ET-REM



		Mr. Rodney Martínez WMO Representative for North America, Central America, and the Caribbean
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