



WORLD
METEOROLOGICAL
ORGANIZATION

Extreme hydrometeorological events in the Americas – Regional cooperation

PAHO - Pan American Health Organization
Hurricane Season 2021 - Readiness Meeting

10 June 2021

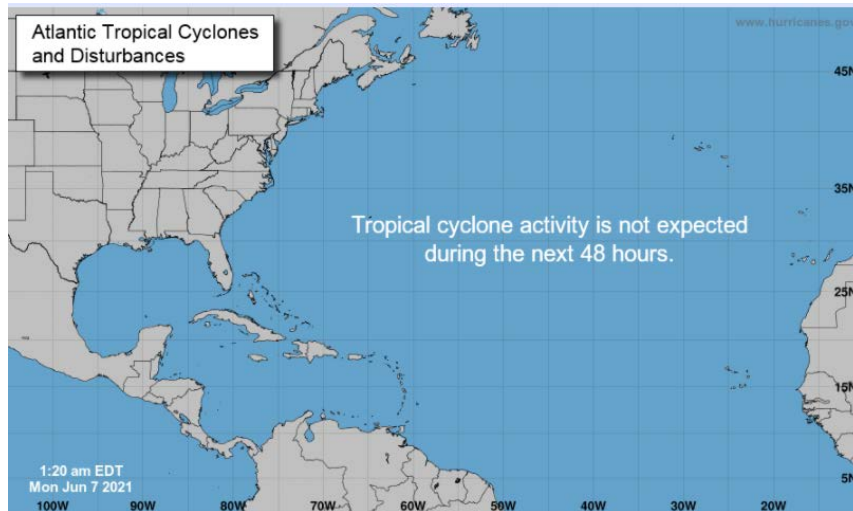
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Regional Cooperation

- The season is also prepared through the annual session of the WMO Hurricane Committee for North America, Central America and the Caribbean – regional coordination for data sharing, warnings, sharing experience and lessons learnt among the 28 Members
- Prominent partners such as CEPREDENAC and CDEMA participate and highlight their perspective and experience
- Last session of the Hurricane Committee was organised last month with participation of the Pan American Health Organization during the day dedicated to Social Sciences

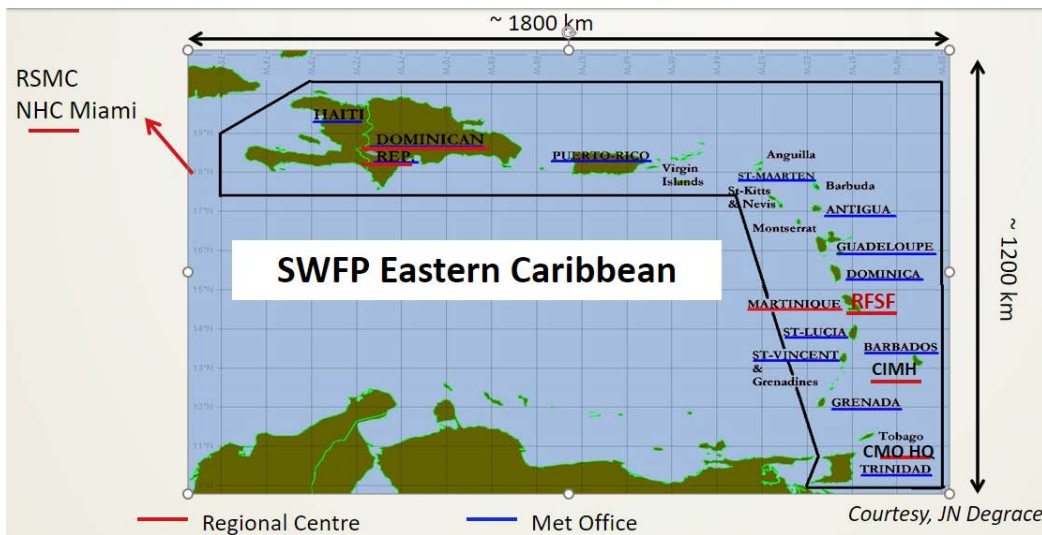
WMO Regional Specialized Meteorological Center for Tropical Cyclone forecasting: RSMC Miami – Hurricane Center



- Area of responsibility: North Atlantic Ocean, Caribbean Sea, Gulf of Mexico, North Pacific Ocean eastward from 140°W.

- Provides analysis and forecasting of Tropical Cyclones (TC) and related hazards (winds, rain, storm surges) to the 28 Members of the Hurricane Committee
- In close coordination with the members, issues TC watches and warnings in the Region

Severe Weather Forecasting – Centers in the Caribbean



- Any time of the year: severe weather not related to tropical cyclone wind watch or warning: heavy rain, strong winds, rough seas/long swell
- Regional Forecast Support Facility (RFSF) in Martinique, Caribbean Institute for Meteorology & Hydrology (CIMH), Caribbean Meteorological Organization (CMO) HQ
- Strong coordination with RSMC Hurricane Center Miami

- Key objectives

1. Raise operational capacity of NMHSs to produce effective severe weather alerts and warnings for their countries
2. Strengthen role of Regional Centres in their service to participating countries/territories
3. Ensure that every threat of severe weather is anticipated timely and efficiently

Flash Flood Guidance System - FFGS



- Different Flash Flood Guidance Systems cover the Region
 - Central America - the only FFGS for which landslide products are developed
 - Haiti and Dominican Republic
 - Northwest South America

- Key objectives

1. Enhance the capacity of National Meteorological and Hydrological Services (NMHSs) to issue effective flash flood warnings and alerts;
2. Enhance collaboration between NMHSs and Emergency Management Agencies;
3. Foster regional development and collaboration;
4. Generate flash flood early warning products by using state-of-the-art hydrometeorological forecasting models.

Sharing our learning beyond region

Impact-based forecasting and warning services - IBFWS

Move from

What the weather will *BE*
- 50 mm in 24 h
- 35 knots wind



Towards

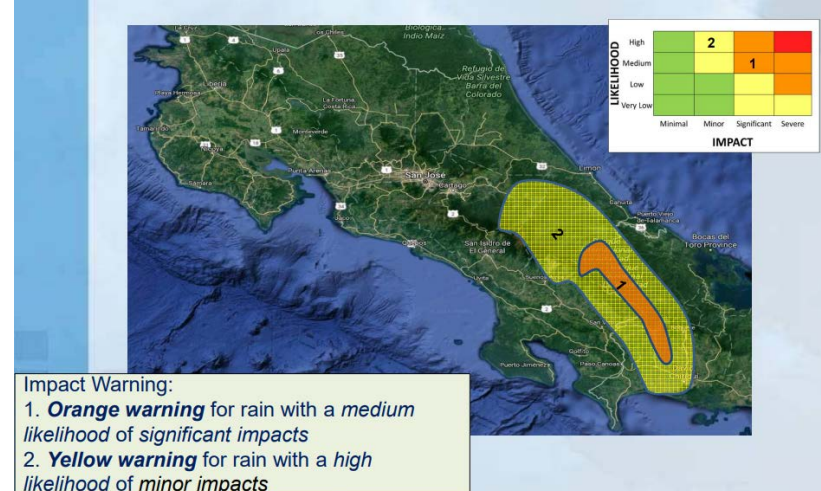
What the weather will *DO*
Roads flooded
- Communities cut off



Move from

To an Impact-based Early
Warning Forecast System

Warning:
Heavy rain of more than 100 mm in 24 hours is expected



- WMO Guidelines on Multi-hazard Impact-based Forecast and Warning Services (WMO No. 1150) Part II to be published in 2021.

Sharing our learning beyond region

Tropical cyclone Outlook – Seasonal forecast in the South West Indian Ocean – miniforum with humanitarian agencies. To be expanded to other regions

Humanitarian Networks and Partnerships Week (HNPW 2020 and 2021)

- UNOCHA-WMO-European Commission: [Tropical Cyclone impact estimation for humanitarian preparedness and response: Joining the dots](#)
 - operational meteorologists, hydrologists with practitioners from disaster risk management and humanitarian agencies.
 - positive dialogue between the scientific and humanitarian communities, resulting in an increased understanding of each other's work
- Record breaking 2020 Atlantic Hurricane season.
 - Interventions from colleagues from the NHC, Honduras and Nicaragua, in partnership with UNOCHA to tell the story of 2020 from both the regional and national perspectives.



WMO OMM

World Meteorological Organization
Organisation météorologique mondiale

— Thank you —
— Gracias —
— Merci —