

World Meteorological Organization

Working together in weather, climate and water

Technical Cooperation Workshop for Development of the Caribbean Regional Cooperation Programme in Multi-Hazard Early Warning System

Working Group B

Session 3: Outcomes

Operational cooperation of the NMHS and DRM agencies and service delivery for MHEWS



Outline

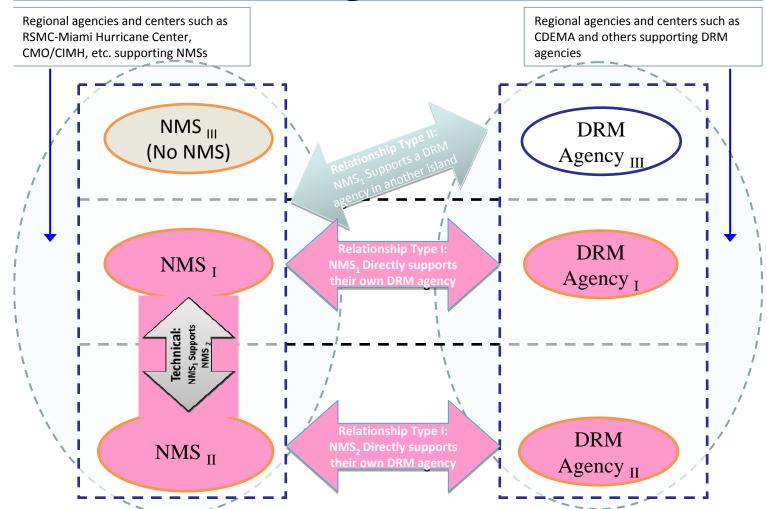
- Relationship Type II review
- Operational cooperation of the NMHS and DRM agencies: Needs and Gaps
- Revision and Prioritization of Doc 4 Section 4.3.1
- Prioritization and Revision of Doc 4 - section 5.2



Different relationships between Disaster Management Agencies and Meteorological Services

Antigua & B. **Bahamas Barbados** Belize Cavman Cuba Curação Dominican Rep. Guadeloupe Guyana Haiti Jamaica **Martinique** St Lucia Suriname Trinidad & T. Aruba **Dominica** Grenada St Marteen

St Vincent & G.





Operational Coordination: Needs and Gaps

- Need capacity development for implementation of QMS system that documents the relationship between the Meteorological Services and DRM agency
 - Need for formal documentation (MoU, SOPs, etc) of relationship type II (Meteorological service supporting another Meteorological Service)
 - Need for formal documentation (MoU, SOPs, etc) of relationships among DRM agencies and technical services (e.g. Meteorological / Hydrological Services)
- Need for national government to facilitate a framework (e.g. legislation) for EWS stakeholder relationships (Political Buy-in)



Operational Coordination: Needs and Gaps (continued)

- Need for a more formalized sharing of hydrometeorological data & information through defining protocols of data and information exchange (e.g. MoU, SOPs) among EWS stakeholders
- DRM agencies expressed a need for better understanding of products and services available from meteorological and hydrological services
- Need for strengthening a user focused product development mechanism for the Meteorological Services



Operational Coordination: Needs and Gaps (continued)

- Need for strengthening mechanism for near real-time and real-time coordination and collaboration between the Meteorological Service and Disaster risk Management agency
- Need for specialized training for:
 - Disaster managers on interpretation and use of hyrometeorolgical tools and products
 - Meteorologists to present hazard information to media and public
 - Meteorologists on disaster management processes and needs
 - Meteorologists on use of new technologies and methods



Revision and Prioritization of Section 4.3.1

- 1. Enhancing of relationships and cooperation and coordination mechanisms to improve understanding of Meteorological and Hydrological Services and DRM agencies respective capacities, needs and challenges with regards to MHEWS through:
 - multi-EWS stakeholder workshops and trainings at national and regional level
 - MoUs, SOPs etc;
- 2. Strengthening of communication protocols (e.g. CAP) among EWS stakeholders, including DRM agencies and Meteorological Services;
- 3. Strengthening of the operational EWS through systematic post event evaluations of EWS stakeholder interactions
- 4. Enhancing feedback mechanisms by conducting coordinated multi-EWS stakeholder drills and exercises, especially for relationship type II.



Prioritization and Revision (Doc 4 - section 5.2): Dissemination Mechanisms

- 1. Full redundancy at national level and back-up systems through regional arrangements to ensure continuity
- Use of harmonized and documented (e.g. MoU, SOP)
 protocols and systems between Meteorological Services,
 DRM agencies and EWS stakeholders that enable end to end
 efficiency and control
- 3. Capacities for web site management in the Meteorological Services or at national and regional approach
- 4. Use of alternative media for dissemination of warnings (e.g. SMS, social networking such as Facebook, Twitter)



Prioritization and Revision of Doc 4 - section 5.2: Communication

- 1. Improve relationship with the media through bilateral training
- 2. Use of specific production system dedicated to TV/Radio broadcasting
- 3. Use of TV/Radio automated interrupt mechanism for communication of warnings and alert messages to the public



Thank You