

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

**Strategic priorities of the Caribbean region in DRR and  
Meteorology/Hydrology/Climate and Tsunami early warning  
systems related issues and regional reflections on the outcomes  
of the assessments and consultations**

REGIONAL TRANSITION TO  
WMO INTEGRATED GLOBAL OBSERVING SYSTEM (WIGOS)

# Present Observing Systems

- Observing systems are organized as multiple systems.
- They are designed to meet the need for monitoring the state and composition of the atmosphere, land and ocean on global, regional and national scales.
- National Meteorological Hydrological Services continue to be the principal owners/operators and major users of data and information generated by the existing observing systems.
- However, the user community is also represented by a growing diversity of stakeholders and decision makers, including national agencies, academia, non-governmental organizations, public and private sectors and other societal areas.
- An increasingly complex society and sophisticated user community, coupled with increased knowledge of the planet as an integrated system and the changing Earth's climate has resulted in greater vulnerability of nations to extreme weather events and climate change.

# Reasons for Change

- While the aim of observational programmes is to improve and sustain environmental observations, it has been recognized that the current efforts in some regions are still limited, for example, by the following:
  - Uncertainty about continuity of observations;
  - Large spatial and temporal gaps in specific data sets;
  - Lack of relevant processing systems to transform data into useful information;
  - Insufficient long term data archiving;
  - Eroding technical and organizational infrastructure;
  - Inadequate user involvement;
  - Lack of access to data and associated benefits;
  - Inadequate data integration and interoperability;
  - Insufficient coordination and data sharing.



# WIGOS

- It is expected that WIGOS will provide the opportunity to better utilize existing and emerging observation capabilities, thus facilitating accomplishment of required changes. In particular, it is expected that WIGOS will:
  - Develop strategies to guarantee systems interoperability, including meeting documented standards for data quality of observing systems and instruments;
  - Evaluate existing and emerging capabilities before developing, acquiring, and/or deploying new observing systems or sensors, and in the design of cost-effective composite observing systems;
  - Develop strategies to satisfy observational requirements of WMO Programmes and international partners through the WMO Rolling Requirements Review Process;
  - Develop a strategy for the production, editing and management of metadata, including instrumentation/platform and data discovery;
  - Promote exploitation of existing platforms and employment of the multi-sensor platform concept to the maximum possible extent; and
  - Coordinate the response to requirements, plans and activities with all WMO technical commissions, regional associations and Programmes.

# WIGOS – Regional Implementation

- The Management Group of the WMO Regional Association IV (North and Central America and the Caribbean), created a Task Team to develop an Operation and Implementation Plan and a Demonstration Project for the Regional implementation of WIGOS.
- The Task Team is charge with:
  - Review the evolving WIGOS requirements and strategies to complete an RA IV WIGOS Implementation Plan including an Operations plan which will be the basis to manage future regionally coordinated observation requirements and operations
  - Develop and guide regional implementation of RADAR data as an initial phase of WIGOS in RA IV
  - Seek funding for projects through the WMO Resource Mobilization Office, through direct contact with donor countries and through other avenues
  - Development Regional WIGOS observing requirements for input to the CBS Rolling Review Requirement (RRR) process.
  - Develop a regional instrument calibration strategy.





Thank you