



World Meteorological Organization

Working together in weather, climate and water

Risk Analysis, Data Management and Exchange

Technical Workshop for Development of the Caribbean Regional Cooperation Programme in Multi-Hazard Early Warning System
(Barbados, 2-5 November 2010)

Group C



Challenges

- Some countries have no Meteorological Services
 - There are differences in vulnerabilities as well as priorities with regard to hazards among the islands
-



Data Management and exchange

Gaps and needs

- Gaps in data availability and coverage
 - Need for information about status of data availability and metadata
 - Need for structured mechanisms through specific agreements (at country/territory and regional levels) for standardized data sharing and exchange
 - Need to upgrade and harmonize software for data management and archiving
 - Need for development of a hazards database (past storms, land slides etc.)
-



Data Management and exchange

Gaps and needs

- Need for data rescue methodologies and tools
 - Need for data quality control mechanism and methodologies
 - Need to extend data management and sharing to wider variety of data (e.g. rainfall accumulation radar data, coastal marine observations)
-



Data Management and exchange

Recommendations

- To make an inventory of meteorological, hydrological, and hazard data available in the Region (including metadata and how to access it)
 - To develop agreements for data exchange at national and regional levels
 - To identify the institution responsible for the comprehensive database for hazard information in the small islands and to support it in this regard
 - To strengthen collaborative relationships among institutions which manage meteorological and hydrological data at national and regional levels.
-



Data Management and exchange

Recommendations

- To improve data coverage and resolution
 - To organize training workshops on data rescue (methodology, software etc) through regional cooperation and the relevant WMO programme
 - To strengthen the role of regional centres with regard data management and exchange
-



Hazard Analysis and Information

Gaps and Needs

- Need to update hazards information in support of sustainability in risk assessment
 - Need for downscaling of hazard mapping information (flash floods, land slides e.t.c.)
 - Need to exchange hazard information from island to island especially in the case of type 2 relationships
 - Need to enhance the capacities for risk modeling
-



Hazard Analysis and Information

Recommendations

- To provide access to modeling facilities through regional cooperation and centres focusing on flooding, coastal inundation (storm surge, tsunami and damaging waves) and land slides.
 - To develop a programme for acquisition of high resolution database for topography and bathymetry.
 - To organize training for NMHSs and DRM agencies on software and methodologies for hazard and risk modeling
-



-
- Thank you
-