Role of the NMHSs in Support of DRR-Related Activities in The Field of Insurance

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13 – 14 October 2014
Ankara, Turkey
Global

Number of reported deaths by decade by hazard type (1971–2010)

Université Catholique de Louvain - Brussels - Belgium

WMO/CRED Analysis using EM-DAT data
Global

Reported economic losses by decade by hazard type (1971–2010)
(in US$ billion, adjusted to 2012)

Université Catholique de Louvain - Brussels - Belgium
Insured losses vs Uninsured Losses 1970-2013

The chart shows the comparison between insured losses and uninsured losses from 1970 to 2013, measured in USD billions at 2013 prices. The x-axis represents the years from 1970 to 2010, while the y-axis indicates the losses ranging from 0 to 450 in increments of 50.

- Insured losses: Represented by blue bars.
- Uninsured losses: Represented by green bars.
- 10-year average insured losses: Represented by a blue line.
- 10-year average total economic losses: Represented by a red line.

Economic loss = insured + uninsured losses

Source: Swiss Re Economic Research & Consulting
Weather, Hydrological and Climate Services for Comprehensive Risk Management Decision Making

Governance and Institutional Framework
(Multi-sector, Multi-level, Multi-Hazard)

Risk Assessment
- Hazard databases
- Hazard statistics
- Climate forecasting and trend analysis
- Exposed assets & vulnerability
- Risk analysis tools

Risk Reduction
- PREPAREDNESS: early warning systems, emergency planning
- PREVENTION and MITIGATION: Sectoral Risk Management, Medium to long term planning (e.g. zoning, infrastructure, agriculture…)

Risk Transfer
- CAT insurance & bonds
- Weather-indexed insurance and derivatives
- Other emerging products

Information and Knowledge Sharing
Education and training
Why is DRR and Climate Adaptation Important?
WMO DRR Crosscutting Programme

To leverage expertise, resources and capacities of WMO Members, technical programmes and operational network and to build alliances with the UN and other partners to support capacity development for disaster risk reduction decision-making at all levels.
Strengthening Services through Linking Knowledge and guidelines to Capacity Development Projects

Identification and documentation of good practices
(Policy, institutional, technical operations, products and services, etc.)

Coordinated National and Regional Projects

Monitoring, Evaluation and Feedback

Operationalization and Capacity Development

Members, RAs, DRR partners and Regional centers

Development of guidelines, standards, tools, methodologies and training programmes

Knowledge Development

Technical Commissions, Programmes and Technical Partners

Coordination National and Regional Projects
DRR Implementation Approach

Thematic Guidelines and good practices

- Thematic Expert Advisory Groups (Users, partners, WMO Members) to guide the overall approach
  - Expert Advisory Group on MHEWS
  - Expert Advisory Group on Hazard/Risk Assessment
  - Expert Advisory Group on Financial Risk Transfer
  - Task Team for provision of Met/Hydro and Climate Services for Humanitarian Planning, Preparedness and response

- Systematic engagement of WMO technical commissions/programmes and Members

- Leveraging with other partners’
User-Driven Expert Advisory Groups (EAG) to guide WMO DRR Work Plan Implementation

EAG Multi-Hazard Early Warning Systems

EAG Hazard / Risk Analysis
Weather / Water / Climate

EAG Disaster Risk Financing

EAG Humanitarian Preparedness

Others… TBD
WMO DRR Expert Advisory Group on Climate Services Disaster Risk Financing (EAG- CSDRF)

Members

Countries
Malawi, China, Russian Federation, Ethiopia, Australia, United Kingdom, United States of America

WMO Technical Commissions and Programmes
CAgM, WWRP, WCRP

Organizations: UNEP-FI, WFP, Willis Research Network, CIMH, CSIRO, UNISDR, Munich Re, UNFCCC, World Bank, IFAD, Swiss Re, OASIS, University of Kentucky and Geneva Association (Insurance)  Spell out and name focal points / members
EAG- CSDRF – Deliverables (2015-2016)

- “WMO Guidelines on Requirements for meteorological and climate services for disaster risk financing and Insurance” (2015 – Early 2016)
Outcomes of the First Meeting of the WMO Expert Advisory Group on Financial Risk Transfer (EAG-DRF I)

13-14 December 2011

http://www.wmo.int/pages/prog/drr/events/EAG-FRT/FRT1/index_en.html
Outcomes of the First Meeting of the EAG-DRF I

- Need for **training of the stakeholders in the financial sector** (public and private) on the **scientific understanding and technical developments** with forecasting and analyzing changing patterns of extreme events linked to climate variability and change and related impacts.
- There is a need for **historical meteorological and hydrological data extending to 30 years or greater**. It was emphasized that in many countries especially Least Developed Countries (LDC) and developing countries there is a significant need for data rescue and quality management programmes.
- **Access to timely weather and water data and information during the insurance contract period** would be critical for portfolio management and contract settlement. It was expressed that in many countries the time to obtain meteorological data is often too long to manage portfolios and settle contracts.
- Need for **modeling, Meteorological forecasts (0 – 14 days) and climate model outputs (with up to one year timeframe)** are fundamental for the design, development of insurance contracts, claims adjustments and settlements. There is a greater need for customized model outputs, analysis and various scenarios with confidence levels to service the insurance sector.
- Need for **documentation of good practices and lessons learned from NMHS and regional centers** that are servicing these markets (from both the user and provider perspectives).
WMO Contribution to the

Third World Conference on Disaster Risk Reduction (WCDRR-III)

Sendai City, Miyagi Prefecture, Japan
14 to 18 March 2015
Preparations for WMO engagement at WCDRR-III

- **High-level Dialogue / Official Plenary Session**

- **Ministerial Roundtables**
  - International Cooperation for a Post-2015 Framework for DRR
  - Inclusive Disaster Risk Management: Governments, Communities and Groups Acting Together
  - Risk Sensitive Investment: Public-Private Partnerships
  - Mobilizing Women's Leadership in DRR
Preparations for WMO engagement at WCDRR-III (3/4) – Multi-stakeholder Segment

- **36 Working Sessions**
  
  WMO is member of the organizing team (confirmed by UNISDR) for:
  
  - Risk Identification and Early Warning
  - Integrated Water Resources Management (IWRM / IFRM)
  - Applying Science & Technology to DRR Decision-making

- **Ignite Stage, Study Tours, Excursions**
Preparations for WMO engagement at WCDRR-III (4/4) – Public Forum

- **Symposium / Side event on MHEWS and Services**
  - One **full day**
  - Supported by Japan, interest also from Germany and Philippines

- **Special Exhibition**
  - WMO together with JMA and other partners (e.g. Philippines) to provide a demonstration exhibition on forecasting & early warning

- **Contributions to One-UN booth**
  - Brochures and other material to be distributed
Thank you for your attention