



World Meteorological Organization

Working together in weather, climate and water

Brainstorming Session on Meteorological Services for Improved Humanitarian Emergency Contingency Planning and Response

By

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17 April 2009

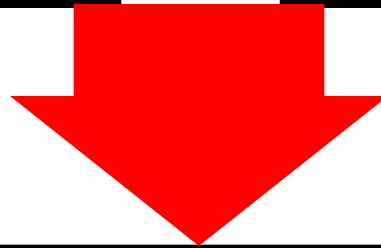


DRR Programme

Strategic Foundation

**Hyogo
Framework
for Action**
2005-2015

**WMO
Strategic Plan
2008-2011**



**WMO Strategic Goals
in Disaster Risk Reduction**



DRR Strategic Goals - Key Words

Approved by CG - XV

1. Analyzing and providing **hazard information** for risk assessment
 2. Strengthening and sustainability of **multi-hazard early warning systems**
 3. Delivery of timely and understandable warnings and specialized forecasts -- **driven by user requirements**
 4. Strengthening WMO/NMHS **cooperation and partnerships** with disaster risk reduction organizations
 5. **Public outreach** campaigns
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WMO Action Plan for Disaster Risk Reduction

Approved by CG - XV

To implement DRR priorities through regional and national projects, with following end results:

1. **Modernized** NMHSs and observing networks.
2. Strengthened national operational **multi-hazard early warning systems**.
3. Strengthened **hazard analysis** and hydro-meteorological risk assessment capacities.
4. Strengthened NMHSs **cooperation and partnerships** with civil protection and disaster risk management agencies.
5. **Trained management and staff** of NMHS
6. **Enhanced** ministerial and public **awareness**



National Disaster Risk Management Framework

Derived from **Hyogo Framework for Action 2005-2015**

New Paradigm in Disaster Risk Management (DRM)

Planning, Legislation and Organizational Coordination and Cooperation (National to Local)

Risk Identification

hazard databases, analysis and modeling of changing hazard trends(historical and forward looking)

Exposed assets & vulnerability

Risk quantification

2

Risk Reduction

PREPAREDNESS:
early warning systems and link to emergency planning /response

1

MITIGATION AND PREVENTION:
Medium to long term sectoral planning (e.g. building resilient infrastructure)

Risk Transfer

CAT insurance & bonds
Weather Risk Management
Other emerging products

Information and Knowledge Sharing
Education and training



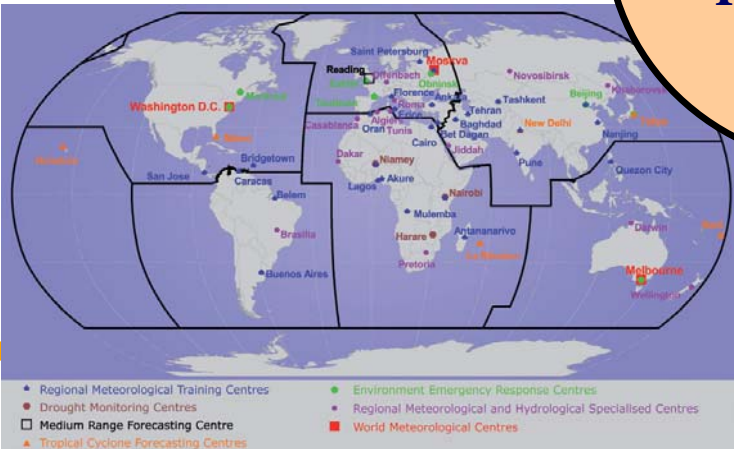
WMO Coordinated Network Operated by the National Meteorological and Hydrological Services

Global Observing System



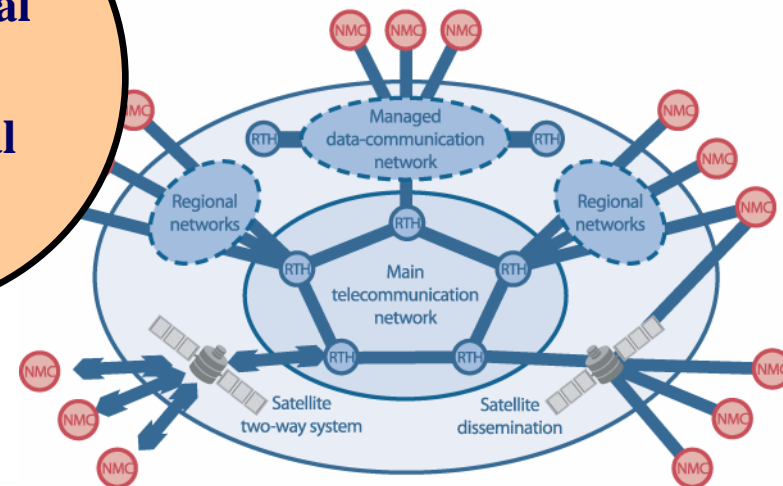
Coordinated Satellite System

Global Data Processing and Forecasting System



- Regional Meteorological Training Centres
- Drought Monitoring Centres
- Medium Range Forecasting Centre
- ▲ Tropical Cyclone Forecasting Centres
- Environment, Emergency Response Centres
- Regional Meteorological and Hydrological Specialised Centres
- World Meteorological Centres

National Meteorological & Hydrological Services



Global Telecommunication System



Leveraging WMO networks to improve DRR management at national level

WMO leverages global, regional, national cooperation with national development to ensure development and availability of technical capacities at the national level.



Meteorological Services for Improved Humanitarian Emergency Planning & Response

**Focus: Support humanitarian
Emergency planning and
response based on operational
utilization of meteorological
information available through
NMHS and GDPFS.**



Meteorological Services for Improved Humanitarian Emergency Planning & Response

- Building on experiences of WMO- UN DHA in 1990s
 - UN Humanitarian Reform
 - Expressed need/interest by humanitarian agencies
 - for operational access to meteorological, hydrological and climate information
 - GDPFS, WMO Information System
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Operational Task Team to Facilitate Project development

- WMO has established an Operational Task Team to facilitate project development (March 2009)
 - Through its Expert Commission on Basic Systems (CBS)
 - Task Team Membership
 - Operational experts from WMO operational network (6)
 - Operational experts from humanitarian agencies (6)
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Terms of Reference (2009-2010)

(See background document)

- 1) Review and document the needs and requirements of the international humanitarian agencies for:
 - (a) Meteorological services and information for their operational procedures
 - (b) Dissemination mechanisms,
 - (c) Training needs with regards to the effective utilization of meteorological services and information;
 - 2) Review the institutional mechanisms and the documented procedures established through PWS in 1995 and their outcomes;
 - 3) Develop an implementation plan to facilitate the provision of meteorological assistance and information to humanitarian agencies
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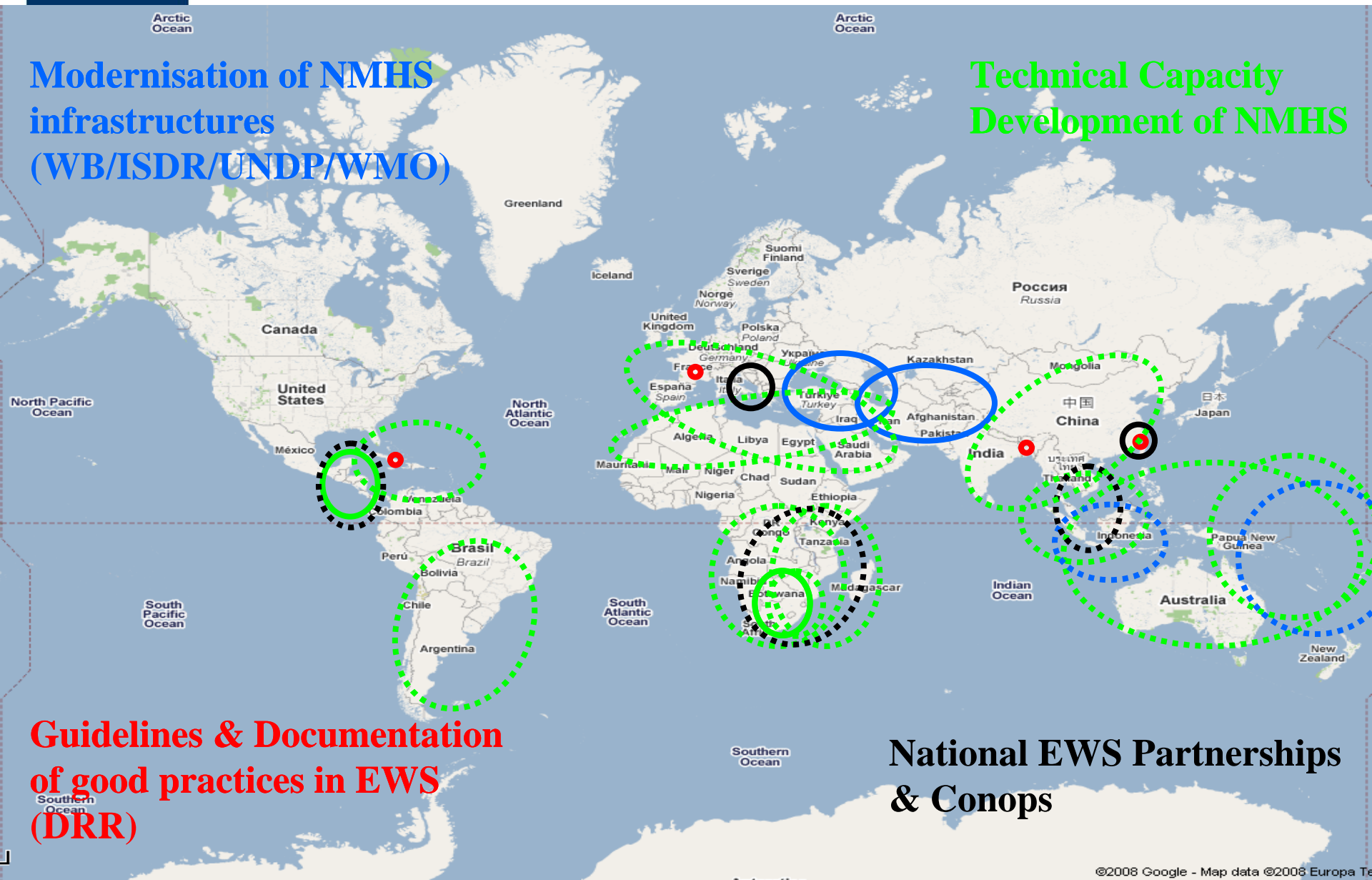
Future opportunities for piloting can be realized through existing projects

Modernisation of NMHS infrastructures (WB/ISDR/UNDP/WMO)

Technical Capacity Development of NMHS

Guidelines & Documentation of good practices in EWS (DRR)

National EWS Partnerships & Conops





First Step: Brainstorming Meeting

April 17, 2009 (WMO Headquarters)

- Goals of this meeting are to:
 - Engage the Humanitarian agencies in the project
 - Preliminary discussions on Humanitarian partners' :
 - decision processes, and timing in emergency planning and response
 - needs and requirements for meteorological information (contents, timing, format, distribution mechanisms)
 - Nominations of humanitarian operational experts for the project task team
 - Development of a preliminary report on the needs and requirements of the humanitarian agencies to be submitted to the task team for initiation of their work
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Thank You
