



## Training Workshop on Multi-Hazard Early Warning Systems with focus on Institutional Partnership and Coordination

**March 22-25, 2010**

**Radisson Europa Hotel and Conference Center**

**San José, Costa Rica**

[http://www.wmo.int/pages/prog/drr/events/MHEWSCostaRica/index\\_en.html](http://www.wmo.int/pages/prog/drr/events/MHEWSCostaRica/index_en.html)

### AGENDA

<b>Early Registration</b> <i>Room Zurqui III, Radisson Europa Hotel - Sunday 21 March from 3:00 - 6:30 pm</i>	
<b>Day 1 – March 22</b>	
0730 – 0900	Registration
<b>Session 1: Opening and introduction</b> <b>Room: Zurqui III</b> <b>Chair:</b> <i>Ing. Luz Graciela de Calzadilla, Vice-President of WMO Regional Association IV (North and Central America and the Caribbean) and Permanent Representative of Panama with WMO</i>	
0900 – 1030	<ul style="list-style-type: none"> <li>• <u>Welcome address and opening session</u> <ul style="list-style-type: none"> <li>- Opening statement by <i>Ing. Luz Graciela de Calzadilla</i>,</li> <li>- His Excellency <i>Mr. Jorge Rodríguez</i>, Minister, Ministerio del Ambiente, Energía y Telecomunicaciones, Costa Rica</li> <li>- <i>Ing. Vanesa Rosales</i>, President, National Risk Prevention and Emergency Management Commission, Costa Rica</li> <li>- <i>Dr. Maryam Golnaraghi</i> - WMO Statement</li> </ul> </li> <li>• <u>Background and objectives of the training workshop on Multi-Hazard Early Warning Systems</u> – <i>Maryam Golnaraghi (WMO)</i></li> </ul>
1030 – 1045	Group photo
1045 – 1115	Coffee break
<b>Session 2: Presentations of good practices in multi-hazard early warning systems</b> <b>Room: Zurqui III</b> In this session, experts from National Disaster Risk Management Agencies and National Meteorological and Hydrological Services from five countries, which have been identified as good practices, will deliver presentations and lead discussion sessions on their respective national early warning systems with focus on institutional partnerships and cooperation. <b>Facilitator:</b> <i>Maryam Golnaraghi</i>	
1115 – 1245	<ul style="list-style-type: none"> <li>• <u>“Early Warning System For Tropical Cyclones in the Republic of Cuba”</u> <ul style="list-style-type: none"> <li>- <i>Mr Miguel Angel Puig Gonzalez</i> - National Civil Defense</li> <li>- <i>Dr Tomas Gutierrez Perez and Dr José Rubiera Torres</i> - Instituto de Meteorologia</li> </ul> </li> </ul>
1245 – 1400	Lunch
1400 – 1530	<ul style="list-style-type: none"> <li>• <u>“The French Vigilance System”</u> <ul style="list-style-type: none"> <li>- <i>Mr Jean-Noel Degrace</i> - Météo-France / Martinique</li> </ul> </li> </ul>

1530 – 1600	Coffee break
1600 – 1730	<ul style="list-style-type: none"> <li>• <b>“Multi-Hazard Early Warning System in Italy”</b></li> <li>- Dr Paola Pagliara - Italian Civil Protection</li> <li>- Dr Sergio Pasquini - Italian Meteorological Service</li> </ul>
1800 - 2000	Cocktail Room: Zurqui IV
<b>Day 2 – March 23</b>	
0800 – 0900 <b>Room: Zurqui II</b>	<ul style="list-style-type: none"> <li>• <b>First Coordination meeting of the Drafting Committee</b> (<i>Chair of Drafting Committee: Mr-Lynn Maximuk</i>) <i>Chair of the Drafting Committee, facilitators and rapporteurs of the working groups, members of WMO Task Team on DRR for RA IV and WMO Secretariat.</i></li> </ul>
<b>Session 2: (Continued)</b>	
0900 – 1030	<ul style="list-style-type: none"> <li>• <b>“Shanghai Multi-Hazard Early Warning system”</b></li> <li>- Mr Haizhen Mu – Deputy Director, Shanghai Meteorological Bureau, China Meteorological Administration</li> <li>- Mr Lei Zhang – Deputy Director, Shanghai Food and Drug Administration</li> </ul>
1030 – 1100	Coffee break
1100 – 1230	<ul style="list-style-type: none"> <li>• <b>“Multi-Hazard Early Warning System in the United States of America“</b></li> <li>- Mr. Nick Crossly – Director of County Emergency Management and Homeland Security and President of the International Association of Emergency Managers</li> <li>- Mr. Lynn P Maximuk, Director, NOAA National Weather Service Central Region</li> <li>- H James Keeney, Regional Warning Coordination Meteorologist, NOAA National Weather Service, Central Region Headquarters</li> </ul>
1230 – 1400	Lunch Special Talk by Finland
<b>Session 3: Regional Initiatives in Disaster Risk Reduction and Early Warning Systems</b> <b>Room: Zurqui III</b> <b>Chair: Mr Sadi Laporte, Instituto Costarricense de Electricidad, Costa Rica</b>	
1400 – 1530	<ul style="list-style-type: none"> <li>• <b>Panel 1: Discussion on National Disaster Risk reduction platforms and regional coordination mechanisms in Central America and the Caribbean</b></li> <li>- Mr Ivan Morales, Executive Secretary, CEPREDENAC</li> <li>- Ms Andria Grosvenor, Technical Manager, Preparedness and Country Support, CDEMA</li> <li>- Mr Pablo Gonzalez, Chief of Risk Management and Climate Change Adaptation Section, OAS</li> <li>- Mr. Julio Garcia, Regional Office for the Americans, UN-ISDR</li> </ul>
1530 – 1600	Coffee break
1600 – 1730	<ul style="list-style-type: none"> <li>• <b>Panel 2: Discussion on Risk Assessment and the Central America Probabilistic Risk Assessment Programme (CAPRA) and Global Risk identification programme (GRIP)</b></li> <li><i>Moderator: Dr. Oscar Lücke Sánchez, Head of Disaster Risk Prevention and Mitigation, National Risk Prevention and Emergency Management Commission</i></li> <li>- Dr. Eric Alfaro, Professor, Center for Geophysical Studies, University of Costa Rica</li> <li>- Dr. Carlos Villacis, Global Risk Identification Program Coordinator, UNDP</li> <li>- Ing. Benjamín Huerta, Risk Management expert, ERN, Mexico</li> </ul>
<b>Day 3 – March 24</b>	
<b>Session 3: (Continued)</b>	
0900 – 1100	<ul style="list-style-type: none"> <li>• <b>Panel 3: Discussion on Technical Capacity Development in Early Warning Systems</b></li> <li>- WMO technical capacity development for meteorological, hydrological and climate-related hazards – Ms. Haleh Kootval (WMO)</li> </ul>

	<ul style="list-style-type: none"> <li>- <i>Inter-governmental Coordination Group for Tsunami Warning System, Ms Judy Thomas (Barbados) on behalf of UNESCO-IOC</i></li> <li>- <i>WMO Regional Association IV Hurricane Committee and its contributions to early warning systems, Dr José Rubiera-Torres</i></li> <li>- <i>Development in Meteorological Services in the Caribbean, Dr David Farrel</i></li> <li>- <i>Importance of climate services to support early warning systems, Ms. Abigail Alvarado, CIIFEN</i></li> </ul>		
1100 – 1130	Coffee break		
1130 – 1300	<ul style="list-style-type: none"> <li>• <b><u>Panel 4: Discussion on Early Warning Systems and link to humanitarian contingency planning and assistance</u></b></li> <li>- <i>Nelson Castaño, Coordinator of Disaster Risk Management for the Americas, IFRC</i></li> <li>- <i>Mr. Elbyn Ramirez, Manager of SATCA Project, WFP</i></li> <li>- <i>Mr Ian King, Disaster Risk Reduction Advisor, UNDP Barbados and the OECS</i></li> </ul>		
1300 – 1400	Lunch Special Talk by the USA		
<p align="center"><b>Session 4: Review and analysis of national early warning systems capacities, gaps and needs in Central America and the Caribbean</b></p> <p>In this session, the participants will be divided into three working groups to discuss and analyze their national early warning systems institutional partnerships, cooperation and coordination, gaps, needs and priorities for strengthening of end-to-end early warning systems in their countries. The expected outcomes of these working groups are recommendations for (i) the development of national early warning systems strategies, institutional capacities and coordination mechanisms (ii) concrete regional cooperation activities to support EWS development. A list of the participants in each working group will be posted at the Workshop.</p>			
1400 – 1430 Room: Zurqui III	<ul style="list-style-type: none"> <li>• <b><u>Goals and expected outcomes of the working groups – Maryam Golnaraghi (WMO)</u></b></li> </ul>		
1430 – 1800  1600 – 1630 Coffee break	<p align="center"><b><u>Working Group A</u></b> <b><u>Room: Zurqui II</u></b></p> <p><i>Interpretation: English / Spanish</i> <i>Facilitator: Dr José Rubiera Torres</i> <i>Rapporteurs: Ing. Luz Graciela de Calzadilla, Armando E. Guzmán, Mr Luis Corrales</i> <i>Secretariat Support staff: Ian Bell and Oscar Arango</i></p>	<p align="center"><b><u>Working Group B</u></b> <b><u>Room: Zurqui IV</u></b></p> <p><i>Interpretation: English</i> <i>Facilitator: Dr. Sergio Pasquini, Dr. Paola Pagliara</i> <i>Rapporteurs: Mr. Trevor Basden, Ms. Andria Grosvenor, Mr. Ian King, Mr H James Keeney</i> <i>Secretariat Support staff: James Douris and Francisco Villalpando</i></p>	<p align="center"><b><u>Working Group C</u></b> <b><u>Room: Zurqui III</u></b></p> <p><i>Interpretation: English / French / Spanish</i> <i>Facilitator: Mr. Jean-Noel Degrace</i> <i>Rapporteurs: Dr Tomas Gutierrez Perez, Mr Carlos Manuel Paulino Cardenas, Mr. Alexandre Vacher</i> <i>Secretariat Support staff: Charles Baubion</i></p>
1800 – 1830 Room: Zurqui II	<ul style="list-style-type: none"> <li>• <b><u>Second meeting of the Drafting Committee to consolidate the outcomes of the working groups and prepare presentations for discussions on Day 4</u></b> <i>Chair of the Drafting Committee, facilitators and rapporteurs of the working groups, members of WMO Task Team on DRR for RA IV and WMO Secretariat.</i></li> </ul>		
<b>Day 4 – March 25</b>			
0800 – 0900 Room: Zurqui II	<ul style="list-style-type: none"> <li>• <b><u>Third meeting of the Drafting Committee - Chair of the Drafting Committee, facilitators and rapporteurs of the working groups, members of WMO Task Team on DRR for RA IV and WMO Secretariat.</u></b></li> </ul>		
<b>Session 4 (Continued):</b>			
0900 - 1030	<p align="center"><b><u>Working Group A</u></b> <b><u>Room: Zurqui II</u></b></p>	<p align="center"><b><u>Working Group B</u></b> <b><u>Room: Zurqui IV</u></b></p>	<p align="center"><b><u>Working Group C</u></b> <b><u>Room: Zurqui III</u></b></p>
1030 – 1100	Coffee break		

## Day 4 – March 25 (continued)

### Session 5: Review of the outcomes of the working groups

Room: Zurqui III

**Chair:** Mr. Lynn Maximuk (Chair of the Drafting Committee)

1100 – 1300	<ul style="list-style-type: none"> <li>• <u>Presentations and discussion on priorities of action, recommendations</u> <i>The outcomes of each working group presented by the rapporteurs of each working group:</i> <ul style="list-style-type: none"> <li>○ <u>Working Group A</u></li> <li>○ <u>Working Group B</u></li> <li>○ <u>Working Group C</u></li> </ul> </li> </ul>
1300 – 1430	<p>Lunch Special Talk by Spain</p>
1430 – 1645	<u>Session 5 (Continued) : Discussions on priorities of action, recommendations and final conclusions for way forward – Mr Lynn Maximuk</u>
1645 – 1700	<ul style="list-style-type: none"> <li>• <u>Official Closing of the workshop by Ing. Luz Graciela de Calzadilla, Vice-President of WMO Regional Association IV (North and Central America and the Caribbean)</u></li> </ul>
1700 – 1800 <b>Room:</b> <b>Zurqui II</b>	<ul style="list-style-type: none"> <li>• <u>Final meeting of the Drafting Committee to incorporate final recommendations in the final MHEWS Workshop document</u></li> </ul>
1730 - 1930	<p style="text-align: center;"><b>Special session: Multi-Hazard Early Warning System for Haiti</b> <b>Room: Zurqui III</b></p> <p><i>This session will address operational and coordination aspects for the implementation of meteorological forecasts and warnings for the 2010 Rainy and Hurricane Seasons as well as a discussion of the longer-term Multi-Hazard EWS development for Haiti.</i></p> <p><b>Chair:</b> Mr. Jean-Noel Degrace, Director, Martinique Regional Office, Météo-France</p> <ul style="list-style-type: none"> <li>- Ing. Ronald Semelfort, Directeur, Centre National de Météorologie Haiti</li> <li>- Mr Abel Nazaire, Deputy Coordinator, Direction de la Protection Civile, Haiti</li> <li>- "Mise à jour sur les efforts du Canada – Services météo ", Mr Abdoulaye Harou, Acting Director Aviation and Defence Services, Meteorological Service of Canada (MSC)</li> <li>- "Urgent assistance for Haiti," Peter Chen, Chief, Global Data Processing and Forecasting Services, WMO</li> </ul> <p style="text-align: center;"><i>With French/Spanish/English interpretation - All participants are welcomed</i></p>