



**ESCAP/WMO Typhoon Committee**  
**8<sup>th</sup> IWS/2<sup>nd</sup> TRCG Forum on the main theme of**  
**“Forecasting, Warning and DRR Strategies in the Mitigation of Tropical Cyclone Impact in a**  
**Multi-hazard Environment”**  
**2 – 6 December 2013**  
**Macao Science Center, Macao, China**

**Provisional Programme**

**Day 1/ December 2 (Mon)**

<b>08:30 – 09 :00</b>	<b>Registration</b>
<b>09:00 – 09 :30</b>	<b>Opening Ceremony :</b> <b>Introductory Remark – Olavo Rasquinho, Secretary of TC</b> <b>Opening Address – Edwin Lai, Chair of TRCG, HKO</b> <b>Opening Address – Sangheon Lee, representative of HRFCO - Ministry of Land, Infrastructure and Transport</b> <b>Opening Address – Alf Ivar Blikberg, Representative of ESCAP</b> <b>Opening Address – Koji Kuroiwa, Representative of WMO</b> <b>Welcome Address - Fong Soi Kun, Director of SMG</b>
<b>09:30 – 09:40</b>	<b>Group Photo</b>
<b>09 :40 – 10:10</b>	<b>Tea Break</b>
<b>10:10 - 12 :30</b>	<b>Keynote Session 1 (Plenary) :</b>
<b>10:10 - 10:30</b>	<b>1. Bridging the Gap between Tropical Cyclone Research and Operation - Johnny Chan (School of Energy and Environment, City University of Hong Kong)</b>
<b>10:30 – 10:50</b>	<b>2. Ensemble Tropical Cyclone Activity Prediction using TIGGE Data - Munehiko Yamaguchi (ECMWF / JMA, Japan)</b>
<b>10:50 – 11:10</b>	<b>3. Recent Developments of JMA Operational NWP Systems and WGNE Intercomparison of Tropical Cyclone Track Forecast – Chiashi Muroi (JMA, Japan)</b>
<b>11:10 – 11:30</b>	<b>4. Extratropical Transition: Modern Forecasting and Communication Technique - Chris Fogarty (Canadian Hurricane Centre, Canada)</b>
<b>11:30 – 11:50</b>	<b>5. Extratropical Transition of Tropical Cyclones in the Western North Pacific Basin - Naoko Kitabatake (JMA, Japan)</b>

<b>11:50 - 12:10</b>	<b>6. Satellite-based Analyses in Tropical Cyclone Forecasting - Roger Edson (NWS, Guam, USA)</b>
<b>12:10 – 12:30</b>	<b>Q &amp; A</b>
<b>12:30 – 14:00</b>	<b>Lunch</b>
<b>14:00 – 18:00</b>	<b>Keynote Session 2 (Plenary)</b>
<b>14:00 – 14:20</b>	<b>7. New Development on PMP Estimation in China - Bingzhang Lin (NUIST, China)</b>
<b>14:20 – 14:40</b>	<b>8. Flood Forecasting and Warning Systems - Yoshiharu Matsumoto (CTI Engineering, Japan)</b>
<b>14:40 – 15:00</b>	<b>9. The Practical Use of Flood Information for Flood Damage Mitigation Ji-Youn Sung (HRFCO, Republic of Korea)</b>
<b>15:00 – 15:20</b>	<b>10. Storm Surge Disasters by Typhoons and Information for Disaster Risk Reduction - Nadao Kohno (JMA, Japan)</b>
<b>15:20 – 15:30</b>	<b>Q &amp; A</b>
<b>15:30 – 16:00</b>	<b>Tea Break</b>
<b>16:00 – 16:20</b>	<b>11. Practical Simulation of Tropical Cyclone Impacts for Forecasting, Emergency Planning and Disaster Risk Reduction- Bruce Harper (GHD Pty Ltd, Australia)</b>
<b>16:20 – 16:40</b>	<b>12. Socio-economic Impact of Tropical Cyclones making Landfall on the Korean Peninsula - Baek-Jo Kim (KMA, Republic of Korea)</b>
<b>16:40 – 17:00</b>	<b>13. Human Centric Disaster Management by a Multi-layer and Crowd Sourced GIS Mapping – Shim Jae Hyun (NDMI, Korea)</b>
<b>17:00 – 17:20</b>	<b>14. Tropical Cyclone Losses and Climate Change - John McAneney (Risk, Frontiers, Macquarie University, Australia)</b>
<b>17:20 – 17:40</b>	<b>15. Tropical Cyclone and Climate Change – Tom Knutson (NOAA, USA)</b>
<b>17:40 – 18:00</b>	<b>Q &amp; A</b>

**Day 2/ December 3 (Tue)**

<b>09:00 - 13:00</b>	<b>Members Report (Parallel)</b>		
	<u><b>Meteorology</b></u>	<u><b>Hydrology</b></u>	<u><b>DRR</b></u>
<b>09:00</b>	<b>Cambodia</b>	<b>Cambodia</b>	<b>Cambodia</b>
<b>09:15</b>	<b>China</b>	<b>China</b>	<b>China</b>
<b>09:30</b>	<b>DRP Korea</b>	<b>DRP Korea</b>	<b>DRP Korea</b>
<b>09:45</b>	<b>Hong Kong, China</b>	<b>Hong Kong, China</b>	<b>Hong Kong, China</b>
<b>10:00</b>	<b>Japan</b>	<b>Japan</b>	<b>Japan</b>
<b>10:15</b>	<b>Lao PDR</b>	<b>Lao PDR</b>	<b>Lao PDR</b>
<b>10:30</b>	<b>Macao, China</b>	<b>Macao, China</b>	<b>Macao, China</b>
<b>10:45 -11:15</b>	<b>Tea Break</b>		
<b>11:15</b>	<b>Malaysia</b>	<b>Malaysia</b>	<b>Malaysia</b>
<b>11:30</b>	<b>Philippines</b>	<b>Philippines</b>	<b>Philippines</b>
<b>11:45</b>	<b>Republic of Korea</b>	<b>Republic of Korea</b>	<b>Republic of Korea</b>
<b>12:00</b>	<b>Singapore</b>	<b>Singapore</b>	<b>Singapore</b>
<b>12:15</b>	<b>Thailand</b>	<b>Thailand</b>	<b>Thailand</b>
<b>12:30</b>	<b>USA</b>	<b>USA</b>	<b>USA</b>
<b>12:45</b>	<b>Viet Nam</b>	<b>Viet Nam</b>	<b>Viet Nam</b>
<b>13:00 – 14:30</b>	<b>Lunch</b>		
<b>14:30 – 18:00</b>	<b>Keynote –Projects Session (Plenary)</b>		
<b>14:30 – 14:50</b>	1. <b>Typhoon Experiment on Structure and Intensity Changes in the Coastal Area (TEXSICA) – Xiaotu Lei (CMA, China)</b>		
<b>14:50 – 15:20</b>	2. <b>Synergized Standard Operating Procedures for Coastal Multi-Hazards Early Warning System (SSOP) - James Weyman (TC)</b>		
<b>15:20 – 15:40</b>	3. <b>Urban Flood Risk Management (UFRM) – Jinping Liu (TC)</b>		
<b>15:40 – 16:00</b>	4. <b>Severe Weather Forecast Demonstration Project (SWFDP) in SE Asia - Peter Chen (WMO)</b>		
<b>16:00 – 16:30</b>	<b>Tea Break</b>		
<b>16:30 – 18:00</b>	<b>Special Discussion Topic - Review of the impact and implications of Haiyan with highlights on the WMO and regional emergency response activities during the episode</b>		
<b>19:00</b>	<b>Welcome dinner</b>		

**Day 3/ December 4 (Wed)**

<b>09:00 – 10:30</b>	<b>Topical Discussion (Parallel in 4 – 5 breakout groups)</b>
<b>10:30 – 11:00</b>	<b>Tea Break</b>
<b>11:00 – 12:30</b>	<b>Wrap-up discussion on future R&amp;D work and capacity building - crossing-cutting projects and initiatives, resources and technical support, priority research areas, coordination and synergy (Plenary)</b>
<b>12:30 – 14:00</b>	<b>Lunch</b>
<b>14:00 – 17:30</b>	<b>Technical visit / local tour</b>

**Day 4/ December 5 (Thu)**

<b>09:00 – 12:30</b>	<b>WGM, WGH, WGDRR and TRCG meetings (Parallel)</b> <ul style="list-style-type: none"><li>• <b>AOP 2013 Review and AOP 2014, including Budget and New Priority Projects</b></li><li>• <b>Cross-cutting initiatives and issues</b></li><li>• <b>Preparation of WGs reports with conclusions and recommendations, including summary of Members Reports to be submitted to the 46<sup>th</sup> TC Session</b></li></ul>
<b>12:30 – 14:00</b>	<b>Lunch</b>
<b>14:00 – 17:30</b>	<b>WGM, WGH, WGDRR and TRCG meetings (Parallel) – Cont'd</b> <ul style="list-style-type: none"><li>• <b>AOP 2013 Review and AOP 2014, including Budget and New Priority Projects</b></li><li>• <b>Cross-cutting initiatives and issues</b></li><li>• <b>Preparation of WGs reports with conclusions and recommendations, including summary of Members Reports to be submitted to the 46<sup>th</sup> TC Session</b></li></ul>

**Day 5/ December 6 (Fri)**

<b>09:00 – 10:30</b>	<b>Plenary Session : Reports of WGM and WGH</b>
<b>10:30 – 11:00</b>	<b>Tea Break</b>
<b>11:00 – 12:30</b>	<b>Plenary Session : Report of WGDRR and TRCG</b>
<b>12:30 – 14:00</b>	<b>Lunch</b>
<b>14:00 – 15:30</b>	<b>Plenary Session : Discussion of Strategic Plan Review and AOP</b>

<b>15:30 – 16:00</b>	<b>Tea Break</b>
<b>16:00 – 17:30</b>	<b>Plenary Session : Discussion of Strategic Plan Review and AOP (cont'd)</b> <b>Other Business</b> <b>Closing</b>

**Day 6/ December 7 (Sat)**

<b>09:30 – 12:30</b>	<b>Post-IWS AWG Meeting (for AWG members only).</b>
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**Acronym Used in the Provisional Programme**

<b>CMA</b>	<b>China Meteorological Administration</b>
<b>ECMWF</b>	<b>European Centre for Medium-Range Weather Forecasts</b>
<b>ESCAP</b>	<b>Economic and Social Commission for Asia and the Pacific</b>
<b>HRFCO</b>	<b>Han River Flood Control Office</b>
<b>ICHARM</b>	<b>International Centre for Water Hazard and Risk Management</b>
<b>IWTC</b>	<b>International Workshop on Tropical Cyclones</b>
<b>JMA</b>	<b>Japan Meteorological Agency</b>
<b>KMA</b>	<b>Korea Meteorological Administration</b>
<b>NOAA</b>	<b>National Oceanic and Atmospheric Administration</b>
<b>NDMI</b>	<b>National Disaster Management Institute</b>
<b>NUIST</b>	<b>National University of Information Science &amp; Technology</b>
<b>PMP</b>	<b>Probable Maximum Precipitation</b>
<b>PWRI</b>	<b>Public Works Research Institute</b>
<b>SMG</b>	<b>Macao Meteorological and Geophysical Bureau</b>
<b>SSOP</b>	<b>Synergized Standard Operating Procedures for Coastal Multi-Hazards Early Warning System</b>
<b>TC</b>	<b>Typhoon Committee</b>
<b>TCS</b>	<b>Typhoon Committee Secretariat</b>
<b>TEXSICA</b>	<b>Typhoon Experiment on Structure and Intensity Changes in the Coastal Area</b>
<b>TRCG</b>	<b>Training and Research Coordination Group</b>
<b>WGDRR</b>	<b>Working Group on Disaster Risk Reduction</b>
<b>WGH</b>	<b>Working Group on Hydrology</b>
<b>WGM</b>	<b>Working Group on Meteorology</b>
<b>WGNE</b>	<b>Working Group on Numerical Experimentation</b>
<b>WMO</b>	<b>World Meteorological Organization</b>