



UNITED NATIONS  
Office for Outer Space Affairs



Federal Ministry  
for Economic Affairs  
and Energy



# United Nations/Germany Expert Meeting Space-Based Information for Flood and Drought Risk Reduction 5-6 June 2014 Bonn, Germany



Images: NASA

## Programme of Activities

with the support of



**THURSDAY, 5 June 2014**

TIME	ACTIVITY	Lead / Moderation
8:30 - 09:00	<b>Registration of Participants</b>	
09:00 – 09:30	<p><b>OPENING REMARKS</b></p> <p>Simonetta di Pippo, United Nations Office for Outer Space Affairs (OOSA)            Margitta Wülker-Mirbach, Federal Ministry for Economic Affairs and Energy (BMWi)            Stefan Voigt, German Aerospace Center (DLR)            Ray Williamson, Secure World Foundation (SWF)</p>	Moderator: UN-SPIDER
09:30 - 10:30	<p><b>SESSION 1: Space technologies for disaster risk reduction – keynotes</b></p> <ul style="list-style-type: none"> <li>• <b>Keynote:</b> Earth observation contributions to flood and drought risk assessment (Stefan Voigt, DLR)</li> <li>• <b>Keynote:</b> Bridging the gap: Satellite data, information, and disaster management (Ray Williamson, SWF)</li> <li>• <b>Keynote:</b> UN-SPIDER’s efforts in floods and droughts risk management (Juan Carlos Villagrán de León, UN-SPIDER)</li> </ul>	
10:30 – 11:00	<b>Coffee break</b>	
11:00 – 11:30	<p><b>SESSION 1 (cont.): Space technologies for disaster risk reduction – regional examples</b></p> <ul style="list-style-type: none"> <li>• <b>Presentation:</b> Preparedness strategies, local administration and the role of space-based data in reduction of flood risk in Bangladesh (AKM Monowar H. Akhand, Joint Secretary, Ministry of Public Administration, Dhaka, Bangladesh)</li> <li>• <b>Presentation:</b> Disaster risk reduction dynamics and adoption of Earth observation applications for disaster risk reduction in Africa (Byron Anangwe, RCMRD, Kenya)</li> </ul>	Moderator: UN-SPIDER
11:30 – 12:30	<p><b>DISCUSSION SESSION 1:</b></p> <p><b>Group 1:</b> Potential uses and limitations of Earth observation for hazard assessment  <b>Group 2:</b> Potential use and limitations of Earth observation for vulnerability assessment  <b>Group 3:</b> Potential use and limitations of Earth observation to assess changes in risk over time</p>	All participants <b>Moderator Group 1:</b> Francis Danquah Ohemeng, Ghana Irrigation Development Authority, Ghana <b>Moderator Group 2:</b> Daniel Asare-Kyei, UNU-EHS <b>Moderator Group 3:</b> Nabil Kawas, National Autonomous University of Honduras

<p><b>12:30 – 13:00</b></p>	<p><b>Plenary Session: Group presentations</b></p>	<p><b>Rapporteur Group 1:</b> Barabara Theilen-Willige, Bureau of Applied Geoscientific Remote Sensing and GIS</p> <p><b>Rapporteur Group 2:</b> John Ayoade Shamonda, Nigeria Hydrological Services Agency/ Federal Ministry of Water Resources in Nigeria</p> <p><b>Rapporteur Group 3:</b> Jesus Gonzales, INAOE/CRECTEALC, Mexico</p>
<p><b>13:00 - 14:00</b></p>	<p><b>Lunch Break</b></p>	
<p><b>14:00 - 15:00</b></p>	<p><b>SESSION 2: Flood risk reduction</b></p> <p>Space-based information for flood hazard assessment, vulnerability analysis, and risk assessment – lessons learned, potential and limitations</p> <ul style="list-style-type: none"> <li>• <b>Presentation:</b> Assessment of coping capacities relating to the 2013 floods in Germany (Sebastian Pisi, DKKV)</li> <li>• <b>Presentation:</b> Combining automated satellite based flood mapping and exposure mapping for flood risk assessment and management (André Twele, Franz Hummel, DLR)</li> <li>• <b>Presentation:</b> Application of Space Technology for Disaster Management in Pakistan (Wazir Khan, Pakistan)</li> </ul>	<p>Moderator: UN-SPIDER</p>
<p><b>15:00 - 15:30</b></p>	<p><b>Coffee Break</b></p>	
<p><b>15:30 - 17:00</b></p>	<p><b>DISCUSSION SESSION 2:</b></p> <p><b>Group 1:</b> Lessons learned from past floods on the use of geospatial information (e.g. in Central Europe 2002 and 2013, in Bangladesh or in the Niger Basin)</p> <p><b>Group 2:</b> Enhancing the use of the UN-SPIDER Knowledge Portal to support flood risk assessment.</p> <p><b>Group 3:</b> Improvement of flood risk management through the use of space based information – methodologies and recommendations</p>	<p>All participants</p> <p><b>Moderator Group 1:</b> Jörg Szarzynski, UNU-EHS</p> <p><b>Moderator Group 2:</b> Marc Kleemann, con terra GmbH, Germany</p> <p><b>Moderator Group 3:</b> Franz Hummel, DLR, Germany</p>

<p><b>17:00 - 17:30</b></p>	<p><b>Plenary Session: Group presentations</b></p>	<p><b>Rapporteur Group 1:</b> Olivier Eyenga Lomeka, UN-OCHA, Niger <b>Rapporteur Group 2:</b> John Ayoade Shamonda, Nigeria Hydrological Services Agency/ Federal Ministry of Water Resources in Nigeria <b>Rapporteur Group 3:</b> Julio Castillo, Mexican Space Agency</p>
<p><b>17:30</b></p>	<p><b>End of the First Day of the Expert Meeting</b></p>	

**FRIDAY, 6 June 201**

TIME	ACTIVITY	Lead/Moderator
08:30 – 09:30	<p><b>SESSION 3: Drought risk reduction</b>                      Space-based information for drought hazard assessment, vulnerability analysis, and risk assessment – lessons learned, potential and limitations</p> <p><b>Presentation:</b> Role of E-Learning in Knowledge Promotion and Capacity Building for Monitoring and Assessment of Natural Disasters: A case study for Drought Monitoring (Jeiran Amiraslani, Iranian Space Agency)</p> <p><b>Presentation:</b> African Risk Capacity (ARC) &amp; World Food Program (Peter Hoefsloot, ARC, Netherlands)</p> <p><b>Presentation:</b> United States Southern Command Technology Approaches for Enabling Multi-National Activities (John M. Ferrell, US SOUTHCOM/US Army)</p>	Moderator: UN-SPIDER
09:30 - 10:00	<b>Coffee Break</b>	
10:00 - 12:00	<p><b>DISCUSSION SESSION 3:</b></p> <p><b>Group 1:</b> Lessons learned from the use of Earth observation in recent droughts (e.g. Horn of Africa, Asia, Latin America)</p> <p><b>Group 2:</b> Enhancing the functionality of the UN-SPIDER Knowledge Portal to support drought risk assessment</p> <p><b>Group 3:</b> Improvement of drought risk management through the use of space based information – methodologies and recommendations</p>	All participants  <b>Moderator Group 1:</b> Juan Carlos Villagrán de León, UN-SPIDER <b>Moderator Group 2:</b> Robert Backhaus, DLR <b>Moderator Group 3:</b> Abd-Alla Gad, National Authority for Remote Sensing and Space Sciences, Egypt
12:00 - 12:30	<p><b>Plenary Session: Group presentations</b></p>	<p><b>Rapporteur Group 1:</b>                      Donia Khalafalla, Ministry of Agriculture and Irrigation, Sudan</p> <p><b>Rapporteur Group 2:</b>                      Markus Enenkel, Vienna University of Technology</p> <p><b>Rapporteur Group 3:</b>                      Byron Anangwe, RCMRD, Kenya</p>
12:30 - 14:00	<b>Lunch Break</b>	

<p><b>14:00-14:15</b></p>	<p><b>SESSION 4: The way forward</b> Feeding the use of space based information into the Post-2015 process, especially the framework for disaster risk reduction (HFA2)</p> <p><b>Presentation:</b> WCDRR process and preparatory plans for post 2015 DRR framework (Luna Abu-Swaireh, UN-ISDR)</p>	<p>Moderator: UN-SPIDER</p>
<p><b>14:15 - 15:15</b></p>	<p><b>DISCUSSION SESSION 4:</b></p> <p><b>Group 1:</b> Elements to contribute to the World Conference on Disaster Risk Reduction in Sendai, Japan, in March 2015, especially to the Post 2015 framework for disaster risk reduction (HFA2) with a focus on the use of space technologies</p> <p><b>Group 2:</b> Strategies to increase cooperation/coordination/communication among key initiatives and key players at the international level (UN-SPIDER, GEO, GEOSS, CEOS, Copernicus, Space agencies, RSOs...)</p> <p><b>Group 3:</b> Strategies to increase synergies among government agencies at the national level on the generation and use of space-based information in disaster risk reduction</p>	<p>All participants</p> <p><b>Moderator Group 1:</b> Alexander Fekete, Cologne University of Applied Sciences</p> <p><b>Moderator Group 2:</b> Annette Zijderfeld, Deltares</p> <p><b>Moderator Group 3:</b> Jesus Gonzales, INAOE/CRETEALC</p>
<p><b>15:15 – 15:45</b></p>	<p><b>Plenary Session: Group presentations</b></p>	<p><b>Rapporteur Group 1:</b> Olusola Sokefun, Lagos State University, Lagos</p> <p><b>Rapporteur Group 2:</b> Abd-Alla Gad, National Authority for Remote Sensing and Space Sciences, Egypt</p> <p><b>Rapporteur Group 3:</b> Bingunath Ingirige, Centre for Disaster Resilience, University of Salford</p>
<p><b>15:45 - 16:00</b></p>	<p><b>Wrap up and Closing Remarks</b></p>	<p>UN-SPIDER (Juan Carlos Villagrán de León, Luc St. Pierre)</p>
<p><b>16:00 - 16:30</b></p>	<p><b>Coffee Break and Networking</b></p>	
<p><b>16:30</b></p>	<p><b>End of the Expert Meeting</b></p>	