



UNITED NATIONS  
Office for Outer Space Affairs



United Nations/Germany International Conference on Earth Observation

# Global Solutions for the Challenges of Sustainable Development in Societies at Risk

26-28 May 2015, Bonn, Germany  
hosted by the UN-SPIDER Bonn Office

# Agenda

# TUESDAY, 26 MAY 2015

Time	Activity	Speakers
08:00 - 09:00	Registration of participants	
09:00 - 09:15	Welcome remarks	<b>Juan Carlos Villagran de Leon</b> , UN Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER), Head of UN-SPIDER Bonn Office <b>Margitta Wülker-Mirbach</b> , German Federal Ministry for Economic Affairs and Energy, Head of Division <b>Lord Mayor Jürgen Nimptsch</b> , City of Bonn  Moderated by <b>Christiane Lechtenbörger</b> , German Aerospace Center
09:15 - 10:15	Keynotes	<b>Simonetta Di Pippo</b> , UN Office for Outer Space Affairs, Director “UNOOSA and the post-2015 development agenda”  <b>Johann-Dietrich Wörner</b> , German Aerospace Center, Chairman of the Executive Board “Contributions of Earth observation to global solutions for the challenges of sustainable development”
10:15 - 10:45	Coffee break	
10:45 - 12:00	High level opening panel: Setting the agenda on the relevance of Earth observation	<b>Roberto Battiston</b> , Italian Space Agency, President <b>Michael K. Simpson</b> , Secure World Foundation, Director <b>Halldór Thorgeirsson</b> , UN Framework Convention on Climate Change, Director for Strategy <b>Pedro Basabe</b> , UN Office for Disaster Risk Reduction, Senior Programme Officer  Moderated by <b>Simonetta Di Pippo</b> and <b>Johann-Dietrich Wörner</b>
12:00 - 14:00	Group photo, lunch break, incl. VIP lunch, press conference	
14:00 - 14:45	Special talk	<b>Alexander Gerst</b> , ESA Astronaut “The Blue Dot perspective”

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## Session 1: The Sendai Framework for Disaster Risk Reduction 2015-2030 - Opportunities for Earth observation

*How can space-based information effectively contribute to the post2015 Framework for Disaster Risk Reduction and what are the expectations and needs of decision makers?*

14:45 - 15:45	Session 1: Plenary presentations	<p><b>Günter Strunz</b>, German Aerospace Center, Head of Department “The Sendai Framework for Disaster Risk Reduction – Opportunities for Earth observation”</p> <p><b>Pedro Basabe</b>, UN Office for Disaster Risk Reduction, Senior Programme Officer “The Sendai Framework for Disaster Risk Reduction: Priorities and roles of stakeholders”</p> <p><b>Juan Carlos de Villagran de Leon</b>, UN Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER), Head of UN-SPIDER Bonn Office “UN-SPIDER efforts in the context of the Sendai Framework for Disaster Risk Reduction”</p>
15:45 - 16:15	Coffee break	
16:15 - 18:00	Session 1: Parallel working groups	
	1.1: Earth observation to support the Sendai Framework for Disaster Risk Reduction 2015-2030	<p><b>Shunichi Koshimura</b>, Tohoku University, Japan “Advances of remote sensing for mapping disaster impact”</p> <p><b>Nataliia Kussul</b>, National Space Agency of Ukraine “Drought risk assessment in Ukraine using satellite data”</p>
	1.2: National information needs	<p><b>Axel Rottländer</b>, German Committee for Disaster Reduction “Collaboration of science and practitioners - Information as a key element for effective collaboration”</p> <p><b>Pema Thinley</b>, Department of Disaster Management, Bhutan “Disaster management in Bhutan: The demand for information”</p>
	1.3: The Sendai Framework on DRR Global Partnership on Earth observation	
18:30	Boat trip on Rhine River, hosted by the German Aerospace Center	

# WEDNESDAY, 27 MAY 2015

Time	Activity	Speakers
09:00 - 09:20	Session 1: Working group presentations	
	<b>Session 2: Current capabilities and future potentials of Earth observation to support climate change agreements</b> <i>How can space-based information effectively contribute to climate change agreements, especially considering adaptation as well as loss and damage and what are the expectations and needs of decision makers?</i>	
09:20 - 10:40	Session 2: Plenary presentations	<b>Florin Vladu, UN Framework Convention on Climate Change, Manager Science and Review Adaptation</b> “Systematic observations of the climate system under the UNFCCC: An overview”  <b>Kenneth Holmlund, Global Climate Observing System, Chair</b> “GCOS and the role of Satellite Data in Climate Monitoring”  <b>Hansjörg Dittus, German Aerospace Center, Member of the Executive Board</b> “Implementation of reliable control mechanisms from space to ensure the adherence of climate change agreements”
10:40 - 11:10	Coffee break	
11:10 - 12:30	Session 2: Parallel working groups	
	2.1: Systematic observation and monitoring for climate change mitigation	<b>Laras Toersilowati, National Institute of Aeronautics and Space (LAPAN), Indonesia</b> “Impact of land use and land cover changes on the urban climate and environment studied with satellite observation, GIS, WRF model, and atmospheric database management”
	2.2: Systematic observation and monitoring for climate change adaptation and Loss & Damage	<b>Durairaju Kumaran Raju, Geoscience Consulting Pte Ltd, Singapore</b> “Vulnerability and risk assessment - A pilot study for central region of Singapore”  <b>Francis Ohemeng, Ghana Irrigation Development Authority</b> “Technology and irrigation answers climate change: The irrigation sub-sector contribution to climate change adaptation measures in Ghana”
	2.3: Extreme climatic events	<b>Shirish Ravan, UN Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER), Head of UN-SPIDER Beijing Office</b> “Climate change and disaster risk reduction: Space technology initiatives, challenges and opportunities”  <b>Julio Castillo, Mexican Space Agency</b> “Remote sensing applications for the mitigation of floods in Mexico”
12:30 - 14:00	Lunch Break	
14:00 - 14:30	Session 2: Working group presentations	

Time	Activity	Speakers
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### Session 3: Global Development Agenda and national needs

*How can Space-based information effectively contribute to the forthcoming Sustainable Development Goals and what are the expectations and needs of decision makers?*

14:30 - 15:30	Session 3: Plenary presentations	<p><b>Niklas Hedman</b>, UN Office for Outer Space Affairs, Chief of the Committee Services and Legal Affairs Section  “Global Space Governance: The role of COPUOS and UN-Space”</p>
		<p><b>Thomas Kemper</b>, EU Joint Research Centre, Scientific Officer  “The need for fine scale global human settlement mapping and monitoring”</p>
		<p><b>Bettina Menne</b>, World Health Organization, Programme Manager  “Space-based information for public health and decision making”</p>

15:30 - 16:00 Coffee Break

### Session 4: Solutions to address these challenges

*How can the private and public sectors as well as the research community and the UN be involved in the use of Earth observation to address challenges in the contexts of sustainable development, climate change and disaster risk reduction?*

16:00 - 18:00	Session 4: Plenary presentations	<p><b>Nilesh Mistry</b>, Digital Globe  “Seeing a better world”</p>
		<p><b>Thomas Häusler</b>, GAF AG  “Contribution of EO to the monitoring of deforestation and degradation in the context of REDD”</p>
		<p><b>Stefano Natali</b>, SISTEMA GmbH  “The MEA system as support tool for global sustainable development challenges”</p>
		<p><b>Karin Schenk</b>, EOMAP GmbH  “Harmonized multi-resolution water quality monitoring services for inland and coastal waters”</p>
		<p><b>Peter Zeil</b>, European Commission Copernicus Management Services Unit  “Providing operational solutions in a sustainable manner – who does what best?”</p>

19:00 Reception hosted by the City of Bonn, Old City Hall

# THURSDAY, 28 MAY 2015

Time	Activity	Remarks/Speakers
<b>Special session: Joint UN-Space - Bonn Conference High-Level Panel on Space-based information for development</b> <i>How can the international community promote the use of Space-based applications to address the post2015 Development Frameworks?</i>		
09:00 – 10:30	High-level panel discussions	<b>Kenneth Holmlund</b> , Global Climate Observing System, Chair <b>Peter Breger</b> , European Commission Copernicus Services, Deputy Head of Unit <b>Jakob Rhyner</b> , UN University, Vice Rector <b>Elizabet Paunovic</b> , World Health Organization, Head of Bonn Office  Introduction and moderation by <b>Simonetta Di Pippo</b>
10:30 - 11:00	Coffee break	
<b>Session 5: Enhancing resilience: The role of Space mechanisms</b> <i>How can regional and international mechanisms contribute to sustainable development?</i>		
11:00 - 12:30	Session 5: Plenary presentations	<b>Françoise Villette</b> , European Commission, Copernicus Emergency Management Service Manager “Copernicus Emergency Management Service”  <b>Jens Danzeglocke</b> , International Charter Space and Major Disasters “The International Charter ‘Space and Major Disasters’: An international initiative providing space-based information for disaster response”  <b>Luc St-Pierre</b> , UN Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER), UN-SPIDER Programme Coordinator “How UN-SPIDER contributes to sustainable development”  <b>Stefan Voigt</b> , German Aerospace Center, German Remote Sensing Data Center “The DLR Center for Satellite Based Crisis Information”  <b>Suju Li</b> , National Disaster Reduction Centre of China “Exchanging the practice of using Earth Observation for Disaster Risk Reduction in China”
12:30 - 14:00	Lunch	
14:00 - 14:30	Summary	
14:30 - 16:50	Extended coffee break: Open space for networking, hosted by DigitalGlobe	
16:50 - 17:00	Closing ceremony	