

UN-SPIDER Bonn International Conference

Space-based Solutions for Disaster Management in Africa: Challenges, Applications, Partnerships

6 – 8 November 2019
UN Campus, Bonn, Germany

Wednesday, 6 November 2019

08:30 – 09:00	Registration (AAH building)
09:00 – 09:30	Opening and Welcome Remarks <ul style="list-style-type: none"> • Welcome Remarks Reinhard Limbach, Deputy Mayor, City of Bonn • Welcome Remarks Juan Carlos Villagran, United Nations Office for Outer Space Affairs (UNOOSA) • Welcome Remarks Karin Holm-Müller, Vice Rector, University of Bonn • Welcome Remarks Gerd Kraft, German Aerospace Center (DLR)
AAH Lower Conference Room	
09:30 – 10:00	Keynote <ul style="list-style-type: none"> • Enhancing the Use of Space-Based Information in Disaster Management in Africa Juan Carlos Villagran de Leon, UNOOSA/UN-SPIDER Klaus Greve, Center for Remote Sensing of Land Surfaces, University of Bonn
AAH Lower Conference Room	
10:00 – 10:30	Keynote <ul style="list-style-type: none"> • Space Technologies for Sustainable Development in Africa Tidiane Ouattara, GMES & AFRICA
10:30 – 11:00	Coffee break (in front of the AAH lower-level conference room)
11:00 – 12:30	Introductory Presentation <ul style="list-style-type: none"> • Africa from Space and Space Technologies for Africa Vanessa Keuck, DLR
AAH Lower Conference Room	Panel 1 – Space Technologies for Disaster Management in Africa Moderator: Joachim Post, DLR <ul style="list-style-type: none"> • Tidiane Ouattara GMES & AFRICA Programme

	<ul style="list-style-type: none"> • Solomon Tessema Ethiopian Space Science and Technology Institute (ESSTI) • Halilu Ahmad Shaba or Godstime James, tbc National Space Research and Development Agency (NASRDA), Nigeria • Morwapula Mashalane South African Space Agency (SANSA) • Wafa Talhaoui National Centre for Mapping and Remote Sensing (CNCT), Tunisia
12:30 – 14:00	Light lunch provided in area in front of the AAH lower-level conference room
14:00 – 15:30	<p><i>Parallel sessions 1 and 2</i></p> <p>Session 1 – Solutions – Recent Initiatives in Africa</p> <ul style="list-style-type: none"> • The GREAT Team in Ghana Victor Addabor, National Disaster Management Organization (NADMO), Ghana • Confronting Droughts in Ethiopia with Space-Based Technologies Berhan Gessese, Ethiopian Space Science and Technology Institute (ESSTI) • Forecast-based Financing (FbF): Modelling Drought in Madagascar for Early Action Michael Kühn, Deutsche Welthungerhilfe • UNCCD Drought Toolbox Daniel Tsegai and Jeroen Van Dalen, United Nations Convention to Combat Desertification (UNCCD) • The Tunisian Experience in Management of Floods Risk Wafa Talhaoui, National Center of Cartography and Remote Sensing (CNCT), Tunisia <p>Q & A</p>
14:00 – 15:30	<p>Session 2 – Solutions – Capacity-building in Innovative Solutions for Disaster Management</p> <ul style="list-style-type: none"> • Capacity Building in Geomatics Applied to Agriculture and Environment. An ERASMUS+ project in Tunisia Alexandru Badea, Romanian Space Agency (ROSA) • FANFAR – Operational Flood Forecasting and Alerts in West Africa Aytor Naranjo, isardSAT • EO College – An Online Learning Platform for all Topics Related to Earth Observation, Remote Sensing and Image Processing Robert Eckardt, EO College, University of Jena • African Regional Centres for Space Science and Technology Education Bolarinwa Balogun, African Regional Centre for Space Science and Technology Education in English (ARCSSTE-E)

AAH
Lower
Conference
Room

Room LEU
2105

	<ul style="list-style-type: none"> • From Hazard Assessment to Understanding of Disaster Risk Yvonne Walz, United Nations University Institute for Environment and Human Security (UNU-EHS) <p>Q & A</p>
15:30 – 16:00	Coffee break (in front of the AAH lower-level conference room)
16:00 – 17:30	<p><i>Parallel sessions 3 and 4</i></p> <p>Session 3 – Partnerships and Initiatives Supporting Disaster Management in Africa</p> <ul style="list-style-type: none"> • Satellite-based Emergency Mapping: Cooperation in the Era of Clouds and Big Data Stefan Voigt, German Aerospace Center (DLR) • International Charter Space and Major Disasters Jens Danzeglocke (DLR), International Charter Space and Major Disasters • Copernicus Emergency Management Service Francoise Villette, European Commission (EC) • Applications in Disaster Management: A Point of View from the Space Industry Ciro Farinelli, Airbus • Flood Protection Programme in Viet Nam: Benefits and Challenges of Earth Observation for Disaster Risk Management in Development Cooperation Olaf Neussner, GIZ <p>Q & A</p> <p>Session 4 – Advances in Space Technology Applications</p> <ul style="list-style-type: none"> • Tsunami Confirmation Using Space Technologies Mario Castro Lera, Deep Blue Globe • SWEET CubeSat Constellation Ahmed Nasr Farid, Telespazio-VEGA • Towards Open Geospatial Information and Services Athina Trakas, Open Geospatial Consortium (OGC) • Radar Interferometry to Map Landslides and Mass Movements Norma Davila, UNOOSA/UN-SPIDER Visiting Scientist, Autonomous University of the State of Mexico (UAEM) • Belarusian Earth Observation System and its Capabilities in Supporting Disaster Management Nadzeya Zalataya, UE Geoinformation Systems <p>Q & A</p>
AAH Lower Conference Room	
Room LEU 2105	

Thursday 7 November 2019

<p>09:00 – 09:30 AAH Lower Conference Room</p>	<p><i>Short plenary session with lightning presentations (3 min) to introduce the activities of the day. During this second day of the conference, participants will be introduced to GIS solutions for mapping natural hazards with space-based information, which they will be given the opportunity to try.</i></p>
<p>A laptop will be required to participate in these hands-on sessions.</p>	
<p>09:30 – 10:30 Rooms: LEU 2112</p>	<p>Applications I – Hands-on sessions on:</p> <ul style="list-style-type: none"> • Sentinel Hub EO Browser (QGIS 3.4 or newer is recommended but not required to follow this session) Grega Milcinski, Sinergise
<p>LEU 2705</p>	<ul style="list-style-type: none"> • UNEP-DHI Flood and Drought Portal for Drought Assessments Bertrand Richaud, DHI
<p>LEU 2516</p>	<ul style="list-style-type: none"> • ESA Hydrology TEP for Flood Forecasting Aytor Naranjo and Melissande Machefer, isardSAT
<p>AAH Lower-level conference room</p>	<ul style="list-style-type: none"> • Use of Digital Elevation Data for Storm Surge Coastal Flood Modelling (QGIS 3.4 or newer is required to follow this session) Nora Meyer zu Erpen, Airbus
<p>10:30 – 11:00</p>	<p>Coffee break (in front of the AAH lower-level conference room)</p>
<p>11:00 – 12:30</p>	<p>Applications I - Sessions continue</p>
<p>12:30 – 14:00</p>	<p>Light lunch provided in area in front of the AAH lower-level conference room</p>
<p>14:00 – 15:30</p>	<p>Applications II - Hands-on sessions on:</p>
<p>AAH Lower-level conference room</p>	<ul style="list-style-type: none"> • Using the Free Radar Software Suite SARbian for Flood Mapping John Truckenbrodt, EO College, University of Jena
<p>LEU 2112</p>	<ul style="list-style-type: none"> • Analyzing Drought with the Copernicus Global Drought Observatory (GDO), and UN-SPIDER Recommended Practices on Drought Monitoring (R-Studio is required to be able to follow this session) Carmelo Cammalleri, European Commission, and Adrian Strauch and Jonas Schreier, ZFL, University of Bonn
<p>LEU 2705</p>	<ul style="list-style-type: none"> • UN-SPIDER Recommended Practices on Flood Mapping (QGIS 3.4 or newer and SNAP is required to be able to follow this session) Norma Davila and Ronja Lappe, UNOOSA/UN-SPIDER
<p>LEU 2516</p>	<ul style="list-style-type: none"> • Automated Burned Area Monitoring, and UN-SPIDER Recommended Practices on Burn Severity Mapping (QGIS 3.4 or newer and/or a Google Earth Engine account is required to be able to follow this session) Jonas Franke, Remote Sensing Solutions GmbH, and Valerie Graw, ZFL, University of Bonn
<p>15:30 – 16:00</p>	<p>Coffee break (in front of the AAH lower conference room)</p>

16:00 – 17:30	Applications II - Sessions continue
Morning or afternoon	Parallel activities for decision-makers from Africa
Friday, 8 November 2019	
09:00 – 09:30	Summary of hands-on sessions
09:30 – 10:00	Innovative Solutions for Disaster Management in Africa
AAH Lower-level Conference Room	<ul style="list-style-type: none"> • UN-SPIDER Technical Advisory Support Coen Bussink, UNOOSA/UN-SPIDER • Earth Observation for Disaster Management in Africa: RCMRD Denis Macharia, Regional Centre for Mapping of Resources for Development(RCMRD)
10:00 – 10:30	Coffee break (in front of the AAH lower-level conference room)
10:30 – 12:00	Summary and the Way Forward
AAH Lower-level Conference Room	<p>Panel 2 – Challenges in the Use of Space-Based Information for Disaster Management in Africa</p> <p>Moderator: UN-SPIDER and ZFL</p> <ul style="list-style-type: none"> • African Union Commission Aboubakar Diane • Cameroon Sylvain Mayo, Civil Protection Department, Ministry of Territorial Administration • Ghana Eric Nana Agyemang-Prempeh, National Disaster Management Agency • South Africa Dechlan Pillay, National Disaster Management Centre • Sudan Nora Khojali, Ministry of Agriculture and Forests • Tunisia Sarhan Khalifa, National Office of Civil Protection
12:00 – 12:30	Discussion - Conclusions
12:30 – 13:00	Closing Remarks: Summary and the Way Forward
13:00	Conference ends
Afternoon	Bilateral meetings between UNOOSA/UN-SPIDER and participants from Africa

Further information & concept note: www.un-spider.org/news-and-events/events/bonn-conference-2019