

2nd AfriGEOSS Symposium

Delivering Earth Observations for Policy and Sustainable Societal Impact in Africa

13 – 15 June 2017, Sunyani, Ghana

Symposium Objectives:

- Demonstrate use of Earth Observations in implementing African policies (such as Agenda 2063, African Space Policy, etc.) for sustainable development, including the three GEO priority engagement areas (SDGs, Climate, Disasters);
- Promote and build synergies with on-going and planned Earth observations initiatives at national, regional (e.g. GMES & Africa, SERVIR, UNGGIM-Africa) and international level (such as GEO activities);
- Reinforce dialogue on Earth observations priorities in Africa;
- Engage with end users, understanding needs and mechanisms to deliver user driven Earth observations solutions;
- Raise awareness on value of Earth observations, the Group on Earth Observation and AfriGEOSS activities;
- Review implementation of the 2016 Symposium Outcomes and contributions to the GEO 2017 – 2019 Work Programme;

Pre-Symposium Events

- 5 – 6 June: AfriGEOSS Software Carpentry Training, Accra
- 7 – 8 June: Introduction to Google Earth Engine Training, Accra
- 11 – 12 June: Sentinel Data Access and Processing Tools Training, Sunyani
- 12-June, 09h00 – 12h30: AfriGEOSS Steering Committee Meeting, Sunyani (Closed)

Day 1: Tuesday, 13 June 2017

Time	Speaker	Topic
08:30 – 09h00	Registration	
Session 1: Implementing AfriGEOSS		
09:00 – 09:30	<p><i>Meet and Greet</i></p> <ul style="list-style-type: none"> • A Mlisa, GEO Secretariat • H. Mudau (DST, South Africa) <p>Expected outcomes:</p> <ul style="list-style-type: none"> • Meet the Symposium participants; • Review of progress in implementing AfriGEOSS 2012 - current; 	<p><i>Moderators: Lebo Mabotja Mmboneni Muofhe, DST, South Africa</i></p> <p>AfriGEOSS journey so far 2016 Symposium, Caucus & SC Recommendations</p>

09:30 – 10:30	<p><i>Country Profiles- National EO Landscape</i></p> <ul style="list-style-type: none"> • Ghislain Moussavou, AGEOS • Mamadou Tounkara, NMO • Foster Mensah, CERSGIS • Halilu Shaba, NARSDA • Amadou Dieye, CSE • Humbulani Mudau, DST 	<p><i>Moderator: Mmboneni Muofhe, DST, South Africa</i></p> <p>Gabon Guinea Ghana Nigeria Senegal South Africa</p>
10:30 – 11:00	<i>Refreshment Break - networking / visit exhibition</i>	
Session 2: Opening Ceremony		
11:00 – 12:35	<i>Welcome and Keynote Address</i>	<i>Full programme attached</i>
12:35 – 13:00	<i>Official opening of Exhibition Symposium Photograph</i>	
13:00 – 14:00	<i>Lunch – networking / visit exhibition</i>	
Session 1: Implementing AfrigeOSS continues ...		
14:00 – 14:30	<p><i>Country Profiles- National EO Landscape... cont.</i></p> <ul style="list-style-type: none"> • Johnson Owaro, Office of Prime Minister • Paradzayi Tagwireyi, UZ • Li Jia, RADI <p><i>Moderated discussion</i></p> <p>Expected outcomes:</p> <ul style="list-style-type: none"> • Mapping the national earth observations land scape towards national coordination; • Overview of national EO providers and users; capabilities to access and use EO data, incl. data policies, infrastructure and products etc. 	<p><i>Moderator: Mmboneni Muofhe, DST, South Africa</i></p> <p>Uganda Zimbabwe AOGEOSS</p>
Session 3: Engagement with Continental and Regional Initiatives		
14:30 – 15:45	<p><i>Session introduction</i></p> <p><i>Panel Remarks</i></p>	<p><i>Moderator: Halilu Shaba, NARSD, Nigeria</i></p> <p><i>Rapporteur: Bulelwa Semoli, NGI, South Africa</i></p>

	<ul style="list-style-type: none"> • Mahaman Bachir Saley, AUC • Humbulani Mudau, DST, South Africa • Ayenika Mbiydzenyuy, UNECA • Mahaman Bachir Saley, AUC • Saliou Ndoye, SERVIR WA • John Kiema, RCMRD • Belko Diallo, WASCAL <p><i>Moderation and discussion</i></p> <p>Expected Outcomes:</p> <ul style="list-style-type: none"> • Outline of on-going regional and continental activities and how they support the African agenda; • Synergies and linkages with AfriGEOSS; 	<p>African Space Programme</p> <p>ARMC</p> <p>UNGGIM-Africa</p> <p>GMES & Africa</p> <p>SERVIR West Africa</p> <p>SERVIR East and Southern Africa</p> <p>WASCAL</p>
15:45 – 16:00	<i>Refreshment - networking / visit exhibition</i>	
Session 4: Water for Life in Africa		
16:00 – 17:45	<p><i>Session introduction: AfriGEOSS Water Resource Management</i></p> <p><i>Panel remarks, short presentation</i></p> <ul style="list-style-type: none"> • Ben Ampomah, WRC, Ghana • Vincent Ssebugwawo, Nile Basin Initiative • Anthony Gidudu, Makerere Univ, Uganda • <i>Steven Greb, Wisconsin, USA (Remote)</i> • Massimo Menenti, TUD, The Netherlands • Li Jia, RADII-CAS, China <p><i>Moderated discussions</i></p> <p>Expected Outcomes:</p> <ul style="list-style-type: none"> • Identify critical issues, information needs and the role EO in Water Resources Management (WRM) in Africa. • Identify governance gaps in addressing WRM issues and requirements for information and strategies to improve the performance of the water sector; • Identify needs and opportunities for capacity building, and south-south cooperation; 	<p><i>Moderator: Kamal Labbassi, UCD, Morocco</i></p> <p><i>Rapporteur: Amos Kabo-bah, EORIC, Ghana</i></p>
17:45 – 18:00	<i>Key messages from Day-1 Proceedings</i>	<i>Mmboneni Muofhe, DST, South Africa</i> <i>Steven Ramage, GEO Secretariat</i>
18:00	<i>Adjourn – Free to Explore Sunyani</i>	

Day 2: Wednesday 14 June 2017

Time	Speaker	Topic
08:30 – 09h00	<i>Registration</i>	
Session 5: Food Security and Sustainable Agriculture		
09:00 – 10:30	<p><i>Session introduction</i></p> <p><i>Panel Remarks</i></p> <ul style="list-style-type: none"> • Godsway Banini, MoFA • Johnson Owaro, Office of Prime Minister, Uganda • Lilian Dungu (James Nyanga), RCMRD • Mercedes M. Vall-llossera, UPC • Michele Meroni, JRC • Sven Gilliams, VITO <p><i>Moderation and discussion</i></p> <p>Expected Outcomes:</p> <ul style="list-style-type: none"> • Update on the implementation of AfriGEOSS Agriculture Monitoring (AfriGAM) Initiative; • Understanding of available data and systems for food security; • Contribution and value of EO based systems for supporting food security related policies; 	<p><i>Moderator: George Chirima, ARC, South Africa</i></p> <p><i>Rapporteur: Phoebe Oduor, RCMRD</i></p>
10:30 – 11:00	<i>Refreshment – networking / visit exhibition</i>	
Session 6: Land Cover for Africa		
11:00 – 13:00	<p><i>Session introduction and moderator</i></p> <p><i>Panel remarks</i></p> <ul style="list-style-type: none"> • Daniel Benefor, EPA, Ghana • Foster Mensah, CERSGIS, Ghana • Issifou Alfari, AGRHYMET • Phoebe Oduor, RCMRD • Bulelwa Semoli, NGI, South Africa • Andreas Brink, JRC, European Commission • Kwame Hackman, TU, China 	<p><i>John Kiema, RCMRD</i></p> <p><i>Rapporteur: André Obregon, GEO Secretariat</i></p>

	<p><i>Moderated discussions</i></p> <p>Expected Outcomes:</p> <ul style="list-style-type: none"> • Raising awareness on the WGLCA and applications of land cover products • Roadmap towards establishing national and continental Community of Practice • Plans in achieving harmonization and standardisation on land cover data and classes. 	
13:00 – 14:00	<i>Lunch – networking / visit exhibition</i>	
Session 7: EO for Sustainable Forest Management in Africa		
14:00 – 15:30	<p><i>Session introduction and moderator</i></p> <p><i>Panel Remarks</i></p> <ul style="list-style-type: none"> • Ameyaw Kwayke, FC, Ghana • Florence Palla, COMIFAC • Stéphane Takoudjou MOMO, Université de Yaoundé 1, Cameroon • Beatrice Asenso Barnieh, RAIN, Ghana <p><i>Moderated discussion</i></p> <p>Expected Outcomes:</p> <ul style="list-style-type: none"> • Progress towards implementation of 2016 AfriGEOSS symposium’s SFM session recommendations; • State of national monitoring forest systems (methods, tools, initiatives) and perspectives; • Actual state and trends concerning forest cover extent and changes at national and regional level 	<p><i>Ghislain Moussavou, AGEOS, Gabon</i></p> <p><i>Rapporteur: Nana Ama Brown, GSSTI, Ghana</i></p>
15:30 – 16:00	<i>Refreshment – networking / visit exhibition</i>	
Session 8: EO towards Sustainable Urban Development in Africa		
16:00 – 17:45	<p><i>Session introduction and moderator</i></p> <p><i>Panel Remarks</i></p> <ul style="list-style-type: none"> • Dan Inkoom, KNUST, Ghana • Emmanuel Osei, GSSTI, Ghana • Nale Mudau, SANSA, South Africa • Donatien Beguy, UN Habitat • Andreas Brink, JRC, European Commission 	<p><i>Moderator: Mofoluso Fagbeja, AARCSSTE-E</i></p> <p><i>Rapporteur: Comfort Africa, GSSTI</i></p>

	<p><i>Moderation and discussion</i></p> <p>Expected Outcomes:</p> <ul style="list-style-type: none"> • Raise awareness on the activities of the Afrigeoss Sustainable Urban Development thematic area; • Promote use of Earth observation in support of national and global policies on urban development; • Provide overview of available EO data and tools on urban mapping and monitoring; 	
17:45- 18:00	<i>Key messages from Day-2 Proceedings</i>	<i>Mmboneni Muofhe, DST, South Africa Steven Ramage, GEO Secretariat</i>
<i>18:00</i>	<i>Adjourn</i>	
19:00	<i>Symposium Dinner hosted by EORIC</i>	

Day 3: Thursday 15 June 2017

Time	Speaker	Topic
08:30 – 09h00	Registration	
Session9: Climate Services for Adaptation		
09:00 – 10:30	<p>Session introduction</p> <p>Panel remarks</p> <ul style="list-style-type: none"> • Stephen Komla, GMA, Ghana • Benjamin Lamptey, ACMAD • Issifou Alfari , AGRHYMET • Belko Diallo, WASCAL • Benjamin Gyampoh, AAS, CIRCLE • Emmanuel Salmon, ICOS-RI <p>Moderated discussions</p> <p>Expected Outcomes:</p> <ul style="list-style-type: none"> • Raise awareness on the role of climate services for adaptation efforts in Africa; • Foster discussion on the role of climate adaptation in the context of AfriGEOSS; • Roadmap towards engagement with the relevant entities; 	<p>Moderator: André Obregon, GEO Secretariat</p> <p>Rapporteur: Lilian Ezenwa, CIRCLE</p>
10:30 – 11:00	Refreshment - networking / visit exhibition	
Session 10a: Infrastructure for Accessing and Processing EO Data		
11:00 – 12:00	<p>Session introduction</p> <p>Panel remarks – observing and data receiving / dissemination systems</p> <ul style="list-style-type: none"> • Nana Ama Brown Klutse, GSSTI, Ghana • Tendani Lavhengwa, SANSA, South Africa • Ghislain Moussavou, AGEOS, Gabon • Halilu Shaba, NARSDA, Nigeria • Mamadou Tounkara, NMO, Guinea • Yousef Torma, ASREN 	<p>Moderator: Imraan Saloojee, SANSA, South Africa</p> <p>Rapporteur: Emmanuel Osei, GSSTI, Ghana</p>
12:00 – 13:00	Panel Remarks – processing tools, products and	

	<p><i>services for applications</i></p> <ul style="list-style-type: none"> • Amos Kabo-bah, EORIC-UENR, Ghana • John Kiema, RCMRD • Belko Diallo, WASCAL • Bako Mamane, SERVIR WA • Mark Amo-boateng, EORIC-UENR, Ghana • Massimo Menenti, TUD, The Netherlands • George Chirima, ARC, South Africa 	
13:00 – 14:00	<i>Lunch - networking / visit exhibition</i>	
Session 10b: Infrastructure for Accessing and Processing EO Data continues		
11:00 – 13:00	<p>Moderated discussions – towards a coordinated data acquisition strategy for Africa through the Earth observation platform in the Africa Data Intensive Research Cloud.</p> <p>Expected Outcomes:</p> <ul style="list-style-type: none"> • Common understanding of the Africa Data Intensive Research Cloud; • Review of existing and planned data and infrastructure efforts in the continent; • Identify potential nodes/contributions to ADIRC • Outline elements of a roadmap towards an EO platform in the ADIRC; • Establish a task team to develop a roadmap towards an EO platform in the ADIRC; 	
15:30 – 16:00	<i>Refreshment - networking / visit exhibition</i>	
Session 11: Closing Ceremony		
16:00 – 17:00	<p><i>Session introduction and moderator</i></p> <ul style="list-style-type: none"> • Humbulani Mudau, DST, South Africa • <i>Announcement of 2018 Symposium</i> <p><i>Closing remarks and vote of thanks</i></p> <ul style="list-style-type: none"> • Steven Ramage, GEO Secretariat • Mmboneni Muofhe, DST, South Africa • Vice Chancellor, UENR, Ghana 	<p><i>Amos Kabo-bah, UENR, Ghana</i></p> <p><i>2017 AfriGEOSS Symposium Outcomes</i></p>
17:00	<i>Travel well ... Bon voyage ... Enjoy free Evening in Sunyani</i>	

Poster Lightning Talks

Time	Speaker	Topic
16:00 – 17:45	<p><u>Session 4: Water for Life in Africa</u></p> <ul style="list-style-type: none"> Kelebogile Mfundisi 	<p><i>Integrating Geoinformatics and Remote Sensing Data to Assess Impacts of Flooding on Land Productivity in the Zambezi River Floodplains, Namibia</i></p>
09:00 – 10:30	<p><u>Session 5: Food Security and Sustainable Agriculture</u></p> <ul style="list-style-type: none"> Mercy Badu 	<p><i>Edible Oilseed and Nut Resources In West Africa: A Critical Evaluation of their Chemical Composition in Addressing Food Security Challenges</i></p>
11:00 – 13:00	<p><u>Session 6: Land Cover for Africa</u></p> <ul style="list-style-type: none"> Kwame Hackman Wata Sama Issoufou 	<p><i>Landscape biodiversity assessment using simple land-use based ecological models</i></p> <p><i>Analysis of the impact of land restoration activities on biodiversity in the Tahoua and Tillabéry regions</i></p>
09:00 – 10:30	<p><u>Session 9: Climate Services for Adaptation</u></p> <ul style="list-style-type: none"> David Vackar & Eliška Lorencova Lilian Ifeoma Ezenwa Mamadou Tounkara 	<p><i>SEACRIFOG Project Introduction</i></p> <p><i>Climate Variability and Gender Differentials</i></p> <p><i>National resilience programm - Reduction risk disaster in Guinea.</i></p>
11:00 – 13:00	<p><u>Session 10a: Infrastructure for accessing and processing EO Data</u></p> <ul style="list-style-type: none"> Matthias Asare-Darko 	<p><i>Employing super-luminal speed of Gluons in RS technology</i></p>
14:00 – 15:30	<p><u>Session 10b: Infrastructure for accessing and processing EO Data</u></p> <ul style="list-style-type: none"> Paradzayi Tagwireyi 	<p><i>Spatial data infrastructure in Africa: a review of practices and perspectives</i></p>