

“Global Change in Africa: Role of Space Observations”

**Conveners: Anny Cazenave (ISSI), Teodolina Lopez (OMP), David Baratoux (IRD)
Jean Kan Kouamé (CURAT, Côte d’Ivoire), Jérôme Benveniste (ESA), Lorena
Moreira (ISSI)**

ISSI Workshop (preliminary) Program, 11-15 January 2021

Update: 8 January 2021

Day 1, 11 January 2021		
Time	Topic	Speaker
13:30 – 13:45	Welcome and introducing ISSI	Tilman Spohn (ISSI)
13:45 – 14:00	Objectives of the workshop	Anny Cazenave (ISSI)
Session 1: Introductory session		Chair: Anny Cazenave
14:00 – 15:00	Global change in Africa; part 1	Omar Baddour (WMO, Switzerland)
15:00 – 16:00	Global change in Africa; part 2	Jean Kan Kouamé (CURAT, Côte d’Ivoire)
16:00 – 16:30	<i>Break</i>	
16:30 – 17:30	Space observations to monitor Global Change in Africa; the ESA programme	Jérôme Benveniste (ESA)
17:30 – 18:00	Discussion on session 1	All participants (lead: J. Benveniste)

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Day 2, 12 January 2021		
Time	Topic	Speaker
Session 2: Water resources in Africa		Chair: Stéphane Calmant
9:00 – 9:30	Identification of problems; Sahel & semi-arid regions	Frederique Seyler (IRD, Montpellier, France)
9:30 – 10:00	Identification of problems; Eastern & southern Africa	Alex Zizinga (Makerere Univ., Uganda)
10:00 – 10:30	The challenge of ground truth data for water resource management (west Africa)	Natalie Ceperley (Univ. Bern, Switzerland)
10:30 – 11:00	<i>Break</i>	
11:00 – 11:30	Remote sensing (laser & radar) of surface waters in African river basins	Stephane Calmant (IRD, French Guyana)
11:30 – 12:00	Applications of the SWOT mission over African river basins	Jean-François Cretaux (LEGOS, France)
12:00 – 12:30	Combined remote sensing techniques for estimating river discharge in Africa	Angelica Tarpanelli (IRPI, Italy)
12:30 – 14:00	<i>Lunch Break</i>	
Session 2: Water resources in Africa, continued		Chair: Jean Kan Kouame
14:00 – 14:30	Large scale water storage from GRACE	Anne Springer (Univ. Bonn, Germany)
14:30 – 15:00	The ESA EO AFRICA Project: African Framework for Research, Innovation, Communities and Applications	Benjamin Koetz (ESA)
15:00 – 15:30	<i>Break</i>	
15:30 – 16:00	EO monitoring of small water bodies	Manuela Grippa (OMP, France)
16:00 – 17:30	General discussion on session 2	All participants (leads : B. Koetz and S. Calmant)

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Day 3, 13 January 2021		
Time	Topic	Speaker
Session 3: Land use & deforestation: Impacts on Agriculture		Chair: Gayane Faye
9:30 – 10:00	Deforestation in Africa: current state	Frank Martin Seifert (ESA)
10:00 – 10:30	Drought risk assessment for agricultural systems	Jürgen Kusche (Univ. Bonn, Germany)
10:30 – 11:00	<i>Break</i>	
11:00 – 11:30	The CCI land cover project, application for Africa	Pierre Defourny (UC Louvain, Belgium)
11:30 – 12:00	The SEACRIFOG network	Jörg Helmschrot (SASSCAL, South Africa)
12:00 – 12:30	End users and societal needs	Chinwe Ifejika Speranza (Univ. Bern, Switzerland)
12:30 – 14:00	<i>Lunch Break</i>	
Session 4: Exploitation of mineral resources and environmental impacts		Chair: Teodolina Lopez
14:00 – 14:30	Impacts on the environment: what space observations can tell us?	Gayane Faye (Institut des Sciences de la Terre, Dakar, Sénégal)
14:30 – 15:00	Societal Impacts of mineral exploration	Matthieu Bolay (Graduate Institute-CCDP, Switzerland)
15:00 – 16:30	General discussion on sessions 3 & 4	All participants (leads: P. Defourny & T. Lopez)

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Day 4, 14 January 2021		
Time	Topic	Speaker
Session 5: Floods & droughts in Africa		Chair: Lorena Moreira
09:30 – 10:00	Flood hazards in Africa	Pauline Dibi Kangah (Univ. Felix Houphouet-Boigny, Ivory Coast)
10:00 – 10:30	Flood predictions and remote sensing	Marielle Gosset (IRD, France)
10:30 – 11:00	<i>Break</i>	
11:00 – 11:30	Impacts on environment and society; user needs	Fatima Driouech (Univ. Mohammed VI, Morocco)
11:30 – 12:30	General discussion on session 5	All participants (Lead F. Driouech & P. Dibi Kangah)
12:30 – 14:00	<i>Lunch Break</i>	
Session 6: Coastal Zones Changes		Chair: Jérôme Benveniste
14:00 – 14:30	Impacts of global change on African coastal zones and coastal ecosystems	Thomas Stieglitz (CEREGE, France)
14:30 – 15:00	Inventory of existing data and gaps	Rafael Almar (IRD, France)
15:00 – 15:30	The ESA Coastal Sea Level project in Africa	Anny Cazenave (ISSI)
15:30 – 16:00	Measuring bathymetry, shoreline change, etc. from space; applications to Africa	Olivier Arino (ESA)
16:00 – 16:30	<i>Break</i>	
16:30 – 17:00	General discussion on session 6	All participants (lead A. Cazenave & J. Benveniste)

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Day 5, 15 January 2021		
Time	Topic	Speaker
Session 7: Additional Societal Issues		Chair: Gayane Faye
10:00 – 10:30	Impacts on health of global change in Africa	Richard Damoah (USA & Ghana)
Session 9: Recommendations and preparation of the Special Issue for Surveys in Geophysics		Chair: Anny Cazenave
10:30 – 12:30	General discussion	All participants

END OF WORKSHOP