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WASS

WASCAL SCIENCE SYMPOSIUM

Research. Innovation. Capacity Building

6-9 DECEMBER, 2022 / HOTEL LANCASTER, OUAGADOUGOU - BURKINA FASO



Germany



Benin



Burkina Faso



Cape Verde



Cote d'Ivoire



Gambia



Ghana



Mali



Niger



Nigeria



Senegal



Togo



ECOWAS

The image features several stylized water molecules (H2O) composed of blue spheres (oxygen) and white spheres (hydrogen) connected by white rods. These molecules are scattered across the white background, with a large one on the right side and smaller ones in the top-left and bottom corners.

BIENVENUE

WELCOME

WASSER

HERZLICH WILLKOMMEN



Main Agenda

- Official Opening Ceremony of the WASS 22 (Tuesday, 6th December 2022, 8:00-11:00 am GMT)
- Plenary Sessions (WASS 22, 6-9 December 2022, Hotel Lancaster, Ouagadougou, Burkina Faso).
- Parallel Sessions (WASS 22, 7th December 2022, Hotel Lancaster, Ouagadougou, Burkina Faso)
- Parallel “Exhibitions” (WASS 22, 8th December 2022, Hotel Lancaster, Ouagadougou, Burkina Faso).
- Parallel Sessions “continue” (WASS 22, 8th December 2022, Hotel Lancaster, Ouagadougou, Burkina Faso).
- Parallel Sessions “End” (WASS 22, 9th December 2022, Hotel Lancaster, Ouagadougou, Burkina Faso).

Room 1: Online: **Click Here to Join**
(ID: 849 6407 2073; Code: 930927)

Room 2: Online: **Click Here to Join**
(ID: 829 0035 6234; Code: 159993)

Room 3: Online: **Click Here to Join**
(ID: 870 8084 0119; Code: 929905)

Knowing WASCAL

WASCAL is a wholly West African international organization with focus on academic and transdisciplinary research, building graduate-level scientific capacity and serving policy makers in West Africa with science-based advice on adaptation to climate change impacts and land use management. It cooperates with many agencies and universities in the region, providing a knowledge platform of excellence for its partners. Since its establishment in 2012, WASCAL has drawn its strength from the members, comprising of eleven West African countries, and its German partners to pursue its vision of becoming one of

Africa's leading science-based institutions in the provision of climate services in and for West Africa. This, it has done successfully by the providing information and knowledge at the local, national, and regional levels to its West African member countries to cope with the adverse impacts of climate change and devise integrated mid and long-term options to build up resilient and productive socio-ecological landscapes, through its three main arms: climate change and environmental services, capacity building and renewable energy projects.

Our Competence Centre

WASCAL's Competence Centre, based in Ouagadougou, Burkina Faso serves as a reference point for climate change research, climate and environmental services provision. The centre has significantly improved the climate change research infrastructure and capacity, formulated, and carried out demand-driven research with development-oriented outcomes and generated sound, evidence-based knowledge across the sub-region. It has also donated and fixed ultra-modern Automatic Weather Stations and automatic hydrological sensors with governments of West Africa to enable them operate a more contemporary weather forecasting.

Our Capacity Building Programme

In terms of Capacity Building, the organization has provided full scholarships to 595 West African students at the master's and doctoral levels through its Graduate Studies Programme, which consists of ten (10) Doctoral and two (2) Master's programmes in Climate Change, and four (4) International Master's Programme in Energy and Green Hydrogen (IMP-EGH).

WASCAL has been guided by the use of unique approach in tackling climate change and promoting renewable energies, using transgenerational approach, driven by sustainability and long-term solutions

A. Main Agenda

Venue: Rooms 1-3. Available Online: (links on pg 6)

Time (GMT)	Monday, 5th Dec 2022 (Start 9:00 am)	Tuesday, 6th Dec 2022 (Start 9:00 am)	Wednesday, 7th Dec 2022 (Start 8:30 am)	Thursday, 8th Dec 2022 (Start 8:30 am)	Friday, 9th Dec 2022 (Start 9:00 am)
8:00-11:00	Visit of Dr. Karsten Hess	Plenary (Opening Ceremony) Room 1	Plenary (05 Keynotes: 20 mins each + 20 mins Panel) Room 1	3 Parallel sessions (Subtheme 1, 2 & 3 15 mins each abstract + Panel) Room 1, 2 & 3	3 Parallel sessions (Subtheme 4, 5 & 6, 15 mins + Panel) Room 1, 2 & 3
11:00-11:30	Arrival of Participants	Coffee Break			
11:30-13:00		Plenary (03 Keynotes: 20 mins + 20 mins Q/A) Room 1	3 Parallel sessions (Subtheme 1, 2 & 3 15 mins each abstract + Panel) Room 1, 2 & 3	Plenary (06 Special session + Panel for Alumni) Room 1	Plenary (05 Keynotes + 15 mins each + 15 mins Q/A session) Room 1
13:00-14:30		Lunch Break			
14:30-17:00		Plenary (05 Keynotes, 20 mins + 20 mins Q/A) Room 1	Parallel Exhibitions (Posters + Open day for kids) Exposition Room	Plenary (07 Keynotes, 20 mins each) Room 1	Closing Ceremony Room 1 Excursion
17:00 – 17:30	Announcement				

B. Official Opening Ceremony of the WASS 22

Venue: Room 1. Available Online: (link on pg 6)

DAY 01
6th Dec
8-11am GMT

Moderator: Marc Belemsobgo Rapporteurs: Harriet Baffoe, Dr. Obed Appiah, Igor Bado

TIME	ACTIVITY
8:00 – 9:00	Registration of Participants Documentary: WASCAL a DECADE
9:00 – 9 :10	Statement Prof. Hassirou, Chair, WASCAL Governing Board
9:10 – 9 :20	Brief Statement by the ECOWAS representative
9:20 – 9 :30	Short statement by Head of RE and Green Hydrogen Technology, Federal Ministry of Education and Research, Germany: Prof Christoph Roevekamp
9 :30-9 :40	Address by Head of Division, Climate Research, Federal Ministry of Education and Research, Germany: Dr. Karsten Hess
9:40 – 09:50	Entertainment- Cultural group performance
09:50 – 10:00	Welcome Statement by the Honourable Minister of Higher Education, Research and Innovation, Burkina Faso: Prof. Adjima Thiombiano
10:00 – 10:30	Musical Entertainment (SLAM)
10:30-10:45	Statement and open declaration of conference by His Excellence Prof. Amadou Keïta Chairman of WASCAL ministerial Council
10:45 – 11 :00	Family Photo Debriefing (Press interviews)
	End of opening Ceremony (Coffee Break)

B. Cérémonie officielle d'ouverture du WASS 22

Lieu: Chambre 1. Disponible en ligne: (lien sur pg. 6)

JOUR 01

6 Dec

8:00-11:00

heures GMT

Moderateur: Marc Belemsobgo Rapporteurs: Harriet Baffoe, Dr. Obed Appiah, Igor Bado

HEURE	ACTIVITE
8:00 – 9:00	Inscription des participants Documentaire: WASCAL a DECADE
9:00 – 9:10	Allocution de Prof. Hassirou, Président du Conseil d'Administration de WASCAL
9:10 – 9:20	Breve allocution du représentant de la CEDEAO
9:20 – 9:30	Breve allocution du Chef de Division des énergies renouvelables et de la technologie de l'hydrogène vert au Ministère Fédéral allemand de l'Education et de la Recherche : Prof. Christoph Roevekamp
9:30-9:40	Discours du Chef de division, Recherche Climatique au Ministère Fédéral allemand de l'éducation et de la recherche : Dr. Karsten Hess,
9:40 – 09:50	Divertissement - Spectacle d'un groupe culturel
09:50 – 10:00	Discours de bienvenue de l'Honorable Ministre de l'Enseignement Supérieur, de la Recherche et de l'Innovation, Burkina Faso : Prof. Adjima Thiombiano
10:00 – 10:30	Interlude Musical (SLAM)
10:30-10:45	Discours d'ouverture du Symposium par Son Excellence Prof. Amadou Keïta Président du Conseil des Ministres de WASCAL
10:45 – 11:00	Photo de famille Interviews
	Fin de la Cérémonie d'ouverture (Pause-café)

OUR MISSION & VISION

OUR MISSION

WASCAL seeks to provide information and knowledge at the local, national and regional levels to its West African member countries to cope with the adverse impacts of climate change. We do this through Capacity Building support to young West African Scholars in fields of natural and social sciences and by strengthening West African universities and climate service departments in WASCAL member countries.

OUR VISION

WASCAL seeks to become one of Africa's leading institutions in the provision of climate services in and for West Africa.



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Combating Climate Change. Improving Livelihoods

C. Plenary Sessions

Venue: Room 1. Available Online: (link on pg 6)

6-9 DEC

8.30am-22.00pm GMT

Time (GMT)	Tuesday 6th Dec 2022 (Day 1, Start: 9:00 am)	Wednesday 7th Dec 2022 (Day 2, Start:8:30 am)	Thursday 8th Dec 2022 (Day 3)	Friday 9th Dec, 2022 (Day 4)
8:30 – 8:50		<p>Plenary Convener: Prof. Brice Sinsin (SAC), Co-convener: Prof Komi Agboka (GSP)</p>		
		<p>Updating Facts and Figures on Climate Extremes, Impacts and Cost of adaptation in West Africa. Speaker: Dr. Seyni Salack, RTC, WASCAL</p>		
8:50 – 9:10		<p>Water resources planning and management in the Volta basin. Speaker: Dr. Stefan Liersch, PIK, Potsdam, Germany</p>		
9:10 – 9:30	<p>Official opening ceremony (Moderator: Nii A. Commey)</p>	<p>The kids aren't alright Speaker: Prof Dr. Thierry Wim, Free University of Brussels, Belgium (Online)</p>	<p>Parallel Sessions (Contd)</p> <ul style="list-style-type: none"> - Subtheme 1 (Room 1) - Subtheme 2 (Room 2) - Subtheme 3 (Room 3) 	<p>Parallel Sessions (End)</p> <ul style="list-style-type: none"> - Subtheme 4 (Room 1) - Subtheme 5 (Room 2) - Subtheme 6 (Room 3)
9:30 – 9:50		<p>Climate change assessment and implications for land use and food security in West Africa. Speaker: Prof. Heiko Paeth, University of Würzburg, Germany (Online)</p>		
9:50 – 10:10		<p>Impacts of climate change on rainfed crops in West Africa Speaker: Dr. Benjamin Sultan, IRD (Online)</p>		

C. Plenary Sessions (Continued)

6-9 DEC

8.30am-22.00pm GMT

Venue: Room 1. Available Online: (link on pg 6)

Time (GMT)	Tuesday 6th Dec 2022	Wednesday 7th Dec 2022	Thursday 8th Dec 2022	Friday 9th Dec, 2022
10:10 – 10:30		The FURIFLOOD project, an interdisciplinary effort towards current and future flood-mitigation strategies for West Africa Speaker: Prof. Andreas Fink, KIT (Online)		
10:30 – 11:00		Q/A Session		
11:00 – 11:30	Coffee Break			
11:30 – 11:50	Plenary Convener: Dr. Hess Karsten (BMBF), Co-convener: Prof. Nicolas Barro (GB) WASCAL A Decade: Footprint in Research & Innovation (Phase 1 & Phase 2) Speaker: Prof. K. O. Ogunjobi, Director of the CoC, WASCAL.	Parallel Sessions - Subtheme 1 (Room 1) - Subtheme 2 (Room 2) - Subtheme 3 (Room 3) Panel of Discussion: All speakers	Special Plenary Session for WASCAL Alumni Convener: Prof. Kone Daouda (CBD), Co-convener: Prof Sidat Yaffa (GSP) - Climatic-induced shifts in the distribution of shea tree (<i>Mitellaria paradoxa</i> C.F. Gaertn.) in Burkina Faso: implications for forest management and planning -Kangbéni Dimobe - Influence of social status, secondary activity, and socio-demographic	Plenary Co-convener: Prof Zoungrana (GSP) Convener: Dr. Michael Thiel (Uni. Würzburg) Identifying climate indicators and end-user needs for the development of a decision support system (DSS). Speaker: Torsten Weber (Online)
11:50 – 12:10	WASCAL A Decade: Training the next generation of scientists for West Africa			Development of a Web Based Decision Support System to provide

C. Plenary Sessions (Continued)

Venue: Room 1. Available Online: (link on pg 6)

6-9 DEC

8.30am-22.00pm GMT

Time (GMT)	Tuesday 6th Dec 2022	Wednesday 7th Dec 2022	Thursday 8th Dec 2022	Friday 9th Dec, 2022
12:10 – 12:30	Speaker: Prof Daouda Kone, Director of Capacity Building Department, WASCAL		characteristics on willingness to pay for a basket of high-stress tolerant maize varieties in northern Benin -Tchègoun Michel ATCHIKPA	climate data and relevant indicators for climate change adaption. Speaker: Lorenz König (Online)
	The cooperation of WASCAL's Graduate Studies Programme with German institutions. Speaker: Dr. Michael Thiel (Uni Würzburg)		- Climate change impact on water balance of an agricultural catchment using an ensemble of climate simulations (Tiélé, Benin) - Quentin Fiacre TOGBEVI HONFIN	Multilingual topic modeling of geolocated tweets for assessing interests of migrants in West Africa. Speaker: Johannes Mast (Online)
			- Exploring the role of hydrogen fuel-cell as a future clean energy carrier in the Nigeria power sector towards net zero plan - Shari Babajide Epe -Do Drought-Heatwaves Co- occurrence become a Reality in the West African Monsoon System Under Global Warming? - Dakéga Saberma Ragatoa -Dispositif pilote d'essai intégratif pour la combinaison d'options agroécologiques dans des contextes locaux au Sahel - SANI ISSA Mahaman Sanoussi	Tree-ring-based climate reconstructions of the past century from riparian forests in Ghana's savannas. Speaker: Emmanuel Amoah Boakye (Online) Fundraising in Research, Innovations, Climate Environment Services: Opportunities and challenges. Speaker: Prof. Dr. Ananou- DLR-PT
12:30 – 13:00	Panel of Discussion: All speakers		Panel of Discussion: Alumni	Panel of Discussion: All speakers
13:00 - 14:30	Lunch Break		Lunch Break	Lunch Break

C. Plenary Sessions (Continued)

6-9 DEC

8.30am-22.00pm GMT

Venue: Room 1. Available Online: (link on pg 6)

Time (GMT)	Tuesday 6th Dec 2022	Wednesday 7th Dec 2022	Thursday 8th Dec 2022	Friday 9th Dec, 2022
14:30 – 14:50	<p>Plenary Convener: Dr. Stefan Liersch Co-convener: Prof. Sandrine Anquetin</p> <p>Resource mobilization and international research grants for sustainable impact. Speaker: Dr Akanimo Odon, University of Lancaster (Online)</p>	<p>Parallel Sessions (Contd)</p> <p>-Poster session (Coordinator: Dr. Bruno Korgo) -Open day for Kids (Coordinator: Dr. Safiétou Sanfo)</p>	<p>Plenary Convener: Dr. Moumini Savadogo, Co-convener: Prof. Sandrine Anquetin</p> <p>E-Waste in West Africa: The case of PV end-of-life waste Speaker: Dr Solomon Agbo, University, Ghana</p>	<p>Closing Ceremony (Moderator: Nii A. Commey)</p>
14:50 – 15:10	<p>Positioning West African Universities as Engines for Research and Innovation in meeting the UN SDGs and AU Agenda 2063. Speaker: Prof. Philip Oguntunde, FUTA Akure, Nigeria.</p>		<p>Renewable Energy and Bioeconomy: Potentials for sustainable development in West Africa. Speaker: Dr. Bruno Korgo, RTC, WASCAL</p>	
15:10 – 15:30	<p>Scientific and cultural inter-relationship: Opportunities and Challenges Speaker: Prof. Kusche, University of Mittweida, Germany</p>		<p>Cascading Risks and Climate and environment-induced migration in West Africa: Realities and Challenges. Speaker: Dr. Safiétou Sanfo, RTC, WASCAL</p>	
15:30 – 15:50	<p>The global Trend movement in Science Communication. Speaker: Dr. Inga-Maria Eichentopf, University of Applied Sciences Mittweida (Online)</p>		<p>Re-examining the role of migration to foster resilience to climate and environmental disasters in West Africa. Speaker: Dr Sangli Gabriel ISSP, University Joseph Ki Zerbo</p>	

C. Plenary Sessions (Continued)

Venue: Room 1. Available Online: (link on pg 6)

6-9 DEC

8.30am-22.00pm GMT

Time (GMT)	Tuesday 6th Dec 2022	Wednesday 7th Dec 2022	Thursday 8th Dec 2022	Friday 9th Dec, 2022
15:50 – 16:10	From Regional Earth System Modeling and -Observation towards Climate Resilience Research. Speaker: Prof. Harald Kunstmann, University of Augsburg, Germany (Online)		Potentials of Open data and Artificial Intelligence to fostering a new wave of digital solutions to climate change in West Africa. Speaker: Dr Dr. Stephen Moore, Ghana	Excursion (Site visit) (Coordinators: Dr Bruno Korgo and Mr Marc Belemsobgo)
16:10 – 16:30	Climate Change, COVID-19 Pandemic and Economic Development in ECOWAS Member Countries: The Critical Nexus. Speaker: Prof Mafimisebi Taiwo Ejola, FUTA, Nigeria.		Towards a profound digital transformation of climate change ecosystem for sustainable mitigation and adaption climate actions and services in West Africa: benefits, challenges, and opportunities. Speaker: Dr. Belko A. Diallo	
16:30 – 17:00	Panel Discussion: All speakers (30 mins)		Panel Discussion: All speakers (30 mins)	
17:00 – 17:20	Announcement Speaker: Marc Belemsobgo	Announcement Speaker: Marc Belemsobgo	Announcement Speaker: Marc Belemsobgo	
19:00-22:00	Ice Breaker/Cultural night			
				Group diner

WASCAL Priority Research Themes (WRAP 2.0) projects

Priority Research Theme: **01**

Land use and Cover/Land Degradation/Climate Change Nexus

CONCERT (Greenhouse gas emissions and mitigation options under climate and land use change in West Africa)
LANDSURF (Land surface processes as a determinant of climate change in Africa).

Priority Research Theme: **02**

Risks and Vulnerability to Climate Extremes

FURIFLOOD (Current and future risks of urban and rural flooding in West Africa)

Priority Research Theme: **03**

Rural-urban and Cross Border Migration in West Africa

MIGRAWARE (Rural-urban and cross-border MIGRAtion in West-Africa)
MiTra-WA (Migration and Translocality in West Africa)

Priority Research Theme: **04**

Sustainable Agriculture/Climate Smart Landscapes Nexus

GreenGaDe (Greenhouse Gas Determination in West Africa's Agricultural Landscapes)

Priority Research Theme: **05**

Renewable and Green hydrogen

D. Parallel Sessions

Venue: Rooms 1-3. Available Online: (links on pg 6)

7 DEC

11:30 – 1:00pm GMT

Time (GMT)	Subtheme 1: Land use/ land cover (LULC), Climate-smart Agriculture and food security (Room 1) Convener: IUCN, Co-convener: Dr. Sylvestre Da	Subtheme 2: Climate risk and vulnerability: monitoring, mitigation, and adaptability strategies (Room 2) Convener: CILSS, Co-convener: Dr. Kisito Kandji	Subtheme 3: Water Resources Management (Room 3) Convener: Stefan Liersch (PIK) Co-convener: Dr. Bio Torou Mouhamadou
11:30 – 11:45	Interaction between climate and land cover change over West Africa. Speaker: Eric Mensah Mortey	Rock outcrops in West Africa: hotspots for drought adapted plants. Speaker: Stefan Porembski	Water Resources, Human Security and “Our Common Future”: A failure of Humanity or a Delima of Sustainable Development Goals? Speaker: Prize McApreko
11:45 – 12:00	Bee pollination in West African Savannas – from ecological research towards applied economy Speaker: Katharina Stein, Rostock University	Stochastic simulation of daily precipitation extremes in West Africa. Speaker: Manuel Rauch	Forcing Effects of Climate Variables on Seasonal Water Consumption in Nouna, Burkina Faso. Speaker: Issouf TRAORE
12:00 – 12:15	Increasing agricultural productivity through smart farming: evidence from the Senegal peanut basin Speaker: Assane BEYE	Modélisation statistique de la variation interannuelle des précipitations dans la vallée du Sourou au Burkina Faso. Speaker: Issouf TRAORE	Evaluation hydrologique des produits satellitaires d'estimation de précipitations dans le bassin versant du Bani. Speaker: Fousseini KOUYATE
12:15 – 12:30	Land-based mitigation options for climate change in West Africa: first results from WRF-CTSM high-resolution simulation. Speaker: Souleymane SY, University of Augsburg	Deriving 19 years land surface temperature trend in two cities of Burkina Faso. Speaker: Valentin OUEDRAOGO	Apport de la Télédétection à la cartographie du risque d'inondation dans le bassin versant de Riviera- Bonoumin dans le District d'Abidjan. Speaker: Hermann VAMI, CURAT, Université Felix Houphouët-Boigny (UFHB)
12:30 – 12:45	Dégradation des écosystèmes et gestion durable des terres agricoles : coûts socioéconomiques de l'inaction dans la région nord du Burkina Faso Speaker: Soumaila Ouedraogo	Crop-livestock integration as farmers' resilience strategy to climate change in Burkina Faso Speaker: Charles Lamoussa Sanou	Impacts of Hydro-Climatic Trends and Upstream Water Management on Hydropower Generation At The Bagré Dam. Speaker: Gniabga Issoufou Yangouliba
12:45 – 13:00	Caractéristiques sociodémographique, structurale et agronomique des plantations d'anacardier (Anacardium occidentale L.) dans la commune de Ouessa (Sud-Ouest du Burkina faso) Speaker: Idrissa Sawadogo (Online)	Migration as an Adaptation Strategy to Food Insecurity in Climate-Affected Areas : Case from Diffa Region in Niger. Speaker: Aboubakr GAMBO BOUKARY	Effets combinés et séparés de la variabilité climatique et de la dynamique de l'occupation du sol sur les ressources en eau: cas du bassin versant transfrontalier du fleuve Cavally. Speaker : Blé Anouma Florest YAO
13:00 - 14:30	Lunch Break		

E. Parallel “Exhibitions”

Venue: Exposition Room. Available Online: [Click here](#)
(ID: 848 2652 8960; Code: 857614)

7 DEC

14:30 – 17:00

Poster Display and Open Day for Kids

Time (GMT)	Poster Display Coordinators: Dr. Bruno Korho	Open day for Kids Coordinator: Dr. Safitétou Sanfo
14:30 – 17:00	<ol style="list-style-type: none"> 1. PS11: Rimwoogdo Ninon Gwladys ZONGO Effet de la variabilité climatique sur la productivité du maïs, mil et riz au Burkina Faso. 2. PS616: Rasmata ZOUNGRANA Coproduscope, un outil de bilan / conseil au producteur pour améliorer la valorisation des co-produits de l'agriculture et de l'élevage au Burkina Faso 3. PS104: N'golo David COULIBALY Extrêmes climatiques et production du maïs dans les zones soudano-sahélienne et soudanienne du Burkina Faso. 4. PS245: Judith Dagbé Agropastoralisme et changements climatiques : perception et stratégies d'acteurs de Koumbia et Nagréongo au Burkina Faso. 5. PS231: Abdoulie. F.R Jadama Impacts of Climate Extreme events on Academic Performance of learners in primary schools children in Selected Regions of The Gambia. 6. PS302 : Kevin S. Sambieni Spatial Distribution Of Water Reservoirs In The Sota Catchment (Benin, West Africa) And Implications For Local Development 7. PS102: Daouda Guébré Do woody fresh residue amendments affect the performance of sorghum and cowpea intercropping in Sahelian agrosystems ? 8. PS130: Ibitoyé BIAH Allometric equations for estimating stem biomass in tropical ecosystems in West Africa 9. PS140: Gnilane Diogoye Diouf Comparative study of seagrass meadows between Cape Verde and Senegal: highlighting seagrass structure, epifauna, and ecosystem services. 	<p>Horizon International (15 Elèves du Primaire toutes classes confondues)</p>

E. Parallel “Exhibitions” (Cont.)

Venue: Exposition Room. Available Online: [Click here](#)
(ID: 848 2652 8960; Code: 857614)

7 DEC

14:30 – 17:00

Poster Display and Open Day for Kids

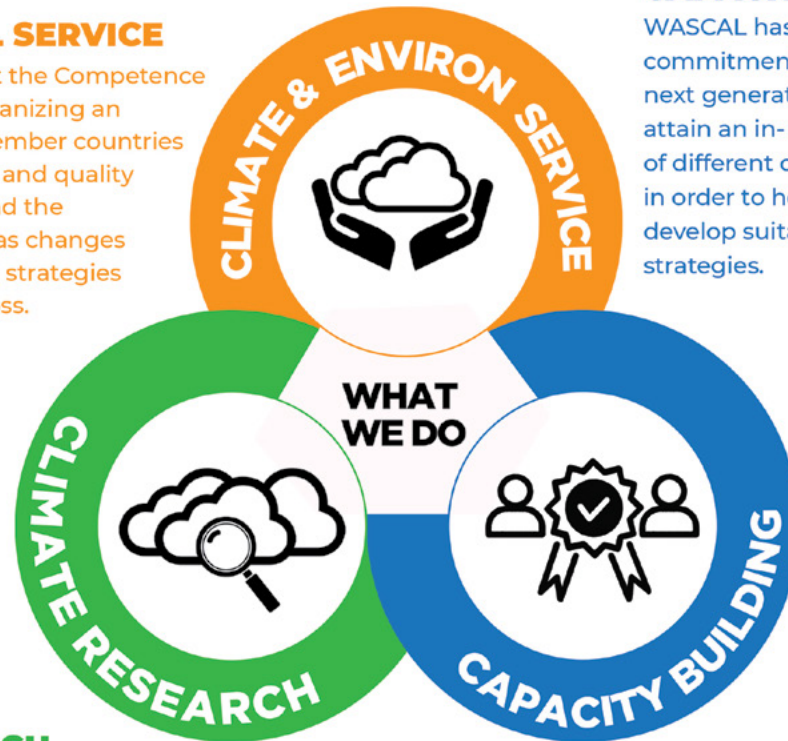
Time (GMT)	Poster Display Coordinators: Dr. Bruno Korho	Open day for Kids Coordinator: Dr. Safitétou Sanfo
	<p>10. PS214: Ouédraogo Harouna Socio-economic indigenous drivers of soils and water conservation practices use to cope with climate change in the region of plateau in Burkina Faso.</p> <p>11. PS238: Olawale Festus Olaniyan Integrated synthesis of evidence: Climate change adaptation strategies in the context of Gambian smallholder livestock farming</p> <p>12. PS244: Alou TRAORE Assessment of Temperature and Rainfall Variability, Trends, Farmers' Perceptions, and Adaptation Strategies in Southern Mali between 1960-2020</p> <p>13. PS303: N'da Jocelyne Maryse Christine Amichiatchi Extreme rainfall trend and its potential implications on water resources in some selected river watersheds in Côte d'Ivoire</p> <p>14. PS421: KONE Daouda Evaluation du Potentiel Eolien dans la Région Montagneuse de Man (Côte d'Ivoire) par une Etude Comparative des Données Satellitaires et In Situ du Vent</p> <p>15. PS505: Dr. Olajide O. Adeola Do Migration Flows Lead to Community Development? Evidence from Rural Communities in Oyo State, Nigeria</p> <p>16. PS509: Dr. Stefanie Wehner Translocality and development: Case studies from the Mitra WA project</p> <p>17. PS606: Coffi Gérard Franck Zinzindohoué Development Of Low-Cost Instrumentation For Advanced Underwater Ecology Observations</p> <p>18. PS621: Theriez Dominique Réussir la mise en place d'un observatoire de la ressource en eau grâce aux logiciels du marché</p> <p>19. N019 : Boris Ouattara Fire emissions dynamic during 2003-2021 with contributions from small fires assessed from satellite: a sub-Saharan African case study</p>	<p>Ecole Primaire Patte d'Oie A (15 Elèves du Primaire toutes classes confondues)</p>

CLIMATE & ENVIRONMENTAL SERVICE

The Climate Service unit at the Competence Centre is charged with organizing an observation network in member countries that will lead to consistent and quality information on weather and the hydrological cycle, as well as changes in land use, human coping strategies and biodiversity shifts or loss.

CAPACITY BUILDING

WASCAL has a strong commitment to help educate the next generation of scientists to attain an in-depth knowledge of different climate related issues in order to help the region develop suitable management strategies.



CLIMATE RESEARCH

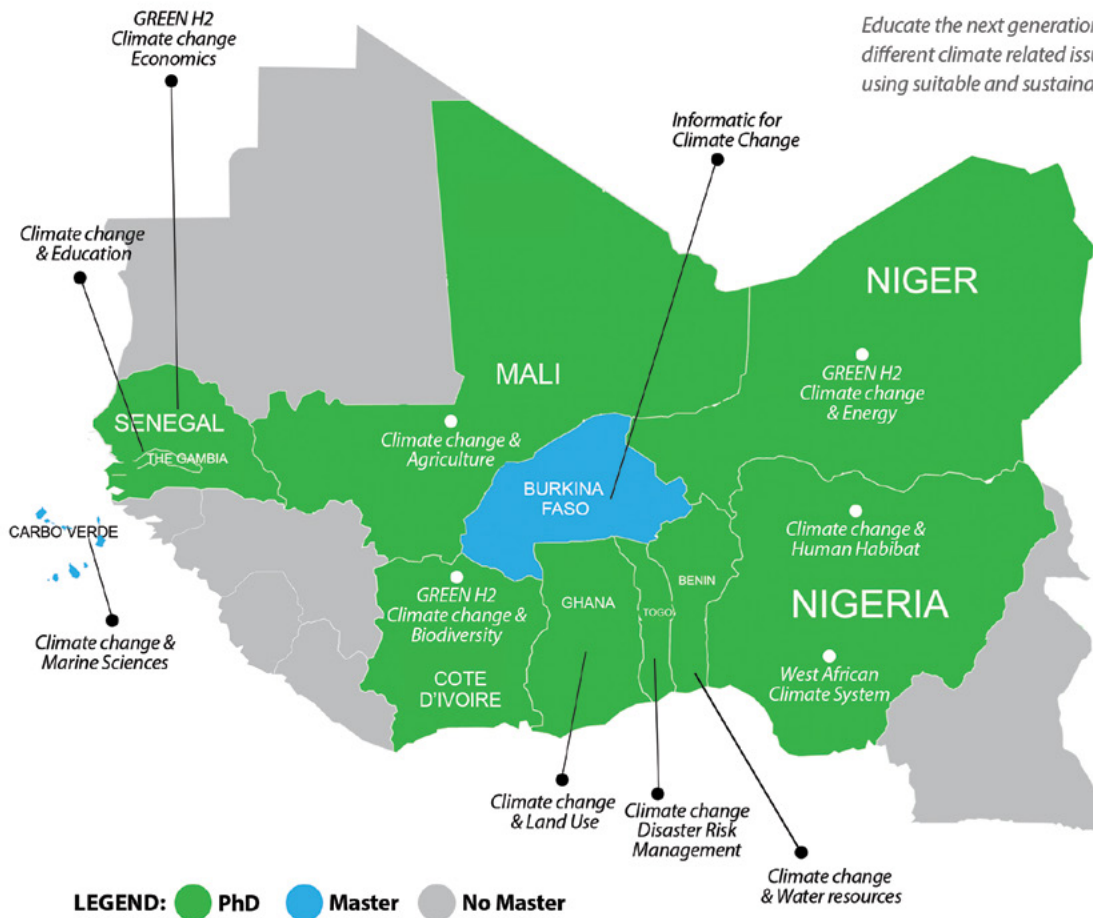
The research programme represents the scientific activities of the Competence Centre, and is implemented by the scientific staff of WASCAL in collaboration with West African and German research institutes. The WASCAL research programme brings together a German research consortium and an equivalent consortium on the West African side that together have designed a joint research program on adapted land use and management of land under changing climatic conditions.

EDUCATION AND RESEARCH & SERVICES IN WASCAL GRADUATE SCHOOLS

Graduate Studies Programme (GSP)

Seminars Short Course Training (SCT)

Visiting Scholars Programme (VSP) . In-service training



Educate the next generation of climate experts for Africa in different climate related issues for more resilience of the communities using suitable and sustainable management strategies.

Strengthen in relevant areas the existing human capacity of member countries to allow them to participate in the on-going global discourse on climate change and respond to current and future adaptation /mitigation challenges.

F. Parallel Sessions (Cont.)

Venue: Rooms 1-3. Available Online: (links on pg 6)

8 DEC

8:30 – 11:00 GMT

Time (GMT)	Subtheme 1: Land use/ land cover (LULC), Climate-smart Agriculture and food security (Room 1) Convener: IUCN Co-convener: Dr. Sylvestre Da	Subtheme 2: Climate risk and vulnerability: monitoring, mitigation, and adaptability strategies (Room 2) Convener: CILSS Co-convener: Dr. Seyni Salack	Subtheme 3: Water Resources Management (Room 3) Convener: VBA Co-convener: Dr. Bio Torou Mouhamadou
8:30 – 8:45	Modelling the aboveground biomass of different agroforestry systems in West Africa using ALOS, GEDI, and Sentinel data. Speaker: Dan Kanmegne Tamga	Urban Flash Flood and Extreme Rainfall Events Trend Analysis in Bamako, Mali Speaker: Mohamed Fofana	Rapid land Use Land Cover Changes and Water Yielding Capacity of Aquatic Ecosystems In the Bui Enclave of Ghana Speaker : Michael Addaney
8:45 – 9:00	Quantification du stock de carbone aérien dans les écosystèmes forestiers du centre du Bénin : influence des différentes structures anatomiques du bois des espèces ligneuses Speaker: Nassirine TAÏ	Coastal Sea Level Variability in Archipelagos: The situation of Cape Verde Speaker: Samuel Mintah Ayim	Study of urban flooding in the District of Abidjan (Côte d'Ivoire): Geohistorical approach. Speaker: Ibrahim SALIFOU TOURE
9:00 – 9:15	How land use changes affect carbon sequestration in Sudano Sahelian climate zone of Burkina Faso? Speaker: Valaire Séraphin Ouehoudja YARO	Caracterisation des Indices de Precipitation Extrêmes Historiques et Projetées dans le Bassin Beninois du Fleuve Niger (Benin) Speaker: YAROU Halissou	Modeling the Hydrological Response of the Dano Catchment in Burkina Faso to Climate and Landuse Change Speaker: Gloria C. Okafor
9:15 – 9:30	Agroforestry parks' shea tree and the climate. State-of-the-art and new hypothesis. Speaker: Serpantié Georges	Improving Rainfall Information and Rainwater Usage for Adapted Agricultural Production under High Climate Variability in Burkina Faso: First results of the AgRAIN project. Speaker: Jonas Meier, DLR (Online)	Spatio-temporal variability and change in rainfall in Oti River Basin, West Africa Speaker: Daniel Kwawuvi
9:30 – 9:45	Multi-scale Time series of biophysical parameters and vegetation structure in heterogeneous landscapes of West Africa. Speaker: Frank Thonfeld (Online)	Information Access on Climate Change and Rural Women Farmers' Adaptive Capacity in Semi-Arid Ghana. Speaker: Rose Afful (Online)	Assessment of the impacts of climate change on the Grand Saloum transboundary Wetland Complex (Senegal-Gambia) Speaker: BADJI Ousmane

F. Parallel Sessions (Cont.)

Venue: Rooms 1-3. Available Online: (links on pg 6)

8 DEC

8:30 – 11:00 GMT

Time (GMT)	Subtheme 1: Land use/ land cover (LULC), Climate-smart Agriculture and food security (Room 1) Convener: IUCN Co-convener: Dr. Sylvestre Da	Subtheme 2: Climate risk and vulnerability: monitoring, mitigation, and adaptability strategies (Room 2) Convener: CILSS Co-convener: Dr. Seyni Salack	Subtheme 3: Water Resources Management (Room 3) Convener: VBA Co-convener: Dr. Bio Torou Mouhamadou
9:45 – 10:00	Monitoring urban development using multi-temporal satellite data in West Africa. Speaker: Marta Sapena (Online)	Tackling climate change-related disturbances to sustain livelihoods: Perceptions and adaptation strategies of smallholder farmers in northeastern Burundi Speaker: Pacifique Batungwanayo (Online)	
10:00 – 10:15	Activité antifongique de plantes locales contre <i>Aspergillus</i> sp. et <i>Rhizoctonia</i> sp., agents responsables de pourritures du Gingembre (<i>Zingiber Officinale</i> R.) en post-récolte Speaker: Assiri KP (Online)	Comparison of different agricultural and rainy-season dependent indices over Africa and their representation in global and regional climate models. Speaker: Daniel Abel (Online)	
10:15 – 10:30	Land Use Changes Effects on Surface runoff in an urban catchment: A case study of Kumasi, Ghana. Speaker: Vida Akyeampong (Online)		
10:30 – 10:45	Panel Discussion: All Speakers	Panel Discussion: All Speakers	Panel Discussion: All Speakers
10:45 – 11:00			
11:00 - 11:30	Coffee Break		

G. Parallel Sessions (End)

Venue: Rooms 1-3. Available Online: (links on pg 6)

9 DEC

11:30 – 13:00

Time (GMT)	Subtheme 4: Renewable Energy and Bio-economy (Room 1) Convener: ANEREE Co-convener: Dr. Bruno Korgo	Subtheme 5: Rural-urban and cross-border migration and transboundary security (Room 2) Convener: Dr Sangli Gabriel (ISSP) Co-convener: Dr. Safiétou Sanfo	Subtheme 6: Big Data management and Information Technology (Room 3) Convener: Dr. Mohammadou Belem (Nazi Boni) Co-convener: Dr. Obed Appiah
	Africa's renewable energy resources: Potentials for clean energy development and green employment. Speaker: Yekeen A. Sanusi	Emerging Trends In Climate Change-Induced Migration In Africa. Speaker: Emmanuel Aweda	Extreme rainfall in West Africa: Data management, measurement, and statistical analysis in the FURIFLOOD project Speaker: Marlon Maranan
	Foreign Direct Investment, Energy Transition and Environmental degradation: Evidence from Sub-Sahara African countries. Speaker: AFO-LOKO Owodon	Revisiting the nexus between Climate Change, Migration and conflict in some selected African Countries: Evidence from Deep Learning Approaches. Speaker: Kekere Sule Ibrahim	Toward an integrated and multi-scale ontology for knowledge sharing and integration for migration pattern analysis in West-Africa. Speaker: Yasmina COMPAORE
	Assessing energy security within the electricity sector in the West African Economic and Monetary Union: Inter-country performances and trends analysis with policy implications. Speaker: Komlan H. S. Tete	Does climate variability influence out-migration in sub-Saharan Africa? A case study from the Nouna Health and Demographic Surveillance System Site (HDSS) in Burkina Faso from 1992 to 2016. Speaker: Zabre Pascal	Upscaling Site-Specific Climate-smart Agriculture and Land use practices to Enhance Regional production Systems in West-Africa. Speaker: Seyni Salack, WASCAL
	Global Horizontal Irradiance Forecasting using WRF-Solar Model in West Africa: A Case Study of Ghana. Speaker: Windmanagda Sawadogo	Les effets et les manifestations de la translocalité au Burkina Faso. Speaker: Komi Ameko AZIANU	Greenhouse Gas (GHG) Observation Network in the Sudanian Savanna Zone: General Overview of Equipment, Data, and Results. Speaker: Samuel Guug
	Multi-Criteria Assessment of Marine Gravitational Energy Storage Potential in Cabo Verde. Speaker: Hafeez O. Oladejo	Légimité et fonctionnalité des pistes de transhumance au Burkina Faso : le regard croisé des acteurs de la filière bétail-viande des régions frontalières des Hauts-Bassins,	Filling Gaps in Landscape Fire Detection, Smoke and Management in Africa. Speaker: Boris Ouattara

G. Parallel Sessions (End)

Venue: Rooms 1-3. Available Online: (links on pg 6)

9 DEC

11:30 – 13:00

Time (GMT)	Subtheme 4: Renewable Energy and Bio-economy (Room 1) Convener: ANEREE Co-convener: Dr. Bruno Korgo	Subtheme 5: Rural-urban and cross-border migration and transboundary security (Room 2) Convener: Dr Sangli Gabriel (ISSP) Co-convener: Dr. Safiétou Sanfo	Subtheme 6: Big Data management and Information Technology (Room 3) Convener: Dr. Mohammadou Belem (Nazi Boni) Co-convener: Dr. Obed Appiah
	Carbon emissions from open burning of agricultural biomass during fields preparation in Burkina Faso (West Africa). Speaker: Christian P. BOUGMA	des Cascades et du Sud-Ouest. Speaker: Guetbsom Hermane SALO Exploring the food-climate-migration nexus in West Africa by analyzing land surface dynamics and weather extremes in combination with expert interviews. Speaker: Alina Schürmann (Online)	Estimating missing rainfall data using multi-directional recurrent neural Networks : case of Burkina Faso. Speaker: Souleymane Zio
	Modern energy access and energy poverty in rural West Africa. A case study of off-grid solar access in rural Togo. Speaker: Etse Yawo Dzakpa	Multi-local Baseline Survey as a Method to Understand Translocality Speaker: Prof. Edmond Akwasi Agyeman	Optimal Temporal Filtering of Cosmic Neutron Signal to Reduce Soil Moisture Uncertainty. Speaker: Patrick DAVIES (Online)
	Évaluation du potentiel en énergie éolienne de la région Ouest montagneuse de la Côte d'Ivoire. Speaker: Kone Daouda (Online)	The agriculture-environment-migration nexus in Ghana. Speaker: Dr. Stefanie Wehner (Online)	Process-based understanding of ecosystem in WASCAL hydrometeorological observatory: models and observation. Speaker: Christiana Olusegun (Online)
	Panel Discussion: All Speakers	Panel Discussion: All Speakers	Panel Discussion: All Speakers
		Coffee Break!!!!	



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