

SESSIONS BREAKDOWN

PROGRAM

DAY
1

Wednesday 6th August 2014

- 7:30 – 8:45** **Registration**
- 9:00 – 10:00** **Conference Opening and Plenary Session**
- Welcome Address:**
 Prof. Haruna Yakubu
 Vice-Chancellor, University for Development Studies, Ghana
- Project Leaders Address:**
 Prof. Edwin A. Gyasi
 *Professor of Geography, Department of Geography and Resource Development,
 University of Ghana, Legon*
- Prof. Kazuhiko Takeuchi**
 Senior Vice Rector, United Nations University, Tokyo, Japan
- JICA Representative**
- Short Cultural Dance**
- 10:00 – 10:30** **Keynote 1:**
 Dr. Joseph Fening
 Director of Soil Research Institute, Kumasi, Ghana
- 10:30 – 11:00** **Keynote 2:**
 Dr. GJK Owusu
 Chairman, Ghana REDD Committee
- 11:00 – 11:30** **Keynote 3:**
 Prof. Wisdom Apkalu
 Associate Professor of Economics, UNU-WIDER, University of Ghana Office, Legon, Accra.
- 12:00 – 13:30** **Lunch / Poster Presentation (#1-6)**
- 13:30 – 17:30** **Parallel Sessions A & B**
- Session A:** Implication of Climate and Ecosystem Changes on Agricultural Production (I)
 Session B: Risk Assessment of Extreme Weather Events
- 18:00 – 19:30** **Conference Reception**

**DAY
2**Thursday 7th August 2014

- 8:00 – 12:00** **Parallel Sessions C & D**
 Session C: Coping and Adaptation Strategies; Knowledge Innovation
 Session D: Natural Resource Management and Interventions
- 12:00 – 13:30** **Lunch / Poster Presentation (#7-12)**
- 13:30 – 17:00** **Parallel Sessions E & F**
 Session E: Implication of Climate and Ecosystem Changes on Agricultural Production (II)
 Session F: Capacity Assessment and Resilience Enhancement
- 17:00 – 17:30** **Closing Session**
- 18:00 – 19:30** **Working Dinner**



POSTER PRESENTATIONS

13:00–13:30 **Poster Session 1**

P1
Urban and peri-urban agriculture and its implications on agroecosystem resilience, food and nutrition security

Takemore Chagomoka, Johannes Schlesinger, Axel Drescher
University of Freiburg, Germany

P2
Local knowledge and the causes of climate change: local perspectives and the policy implications for building community resilience in North-Western Ghana

Dramani File, Emmanuel Kanchebe Derbile
University for Development Studies, Wa Campus

P3
Variability in rainfall characteristics in the semi-deciduous forest zone of Ghana

Samuel Mesele, Quansah, C
Kwame Nkrumah University of Science and Technology, Kumasi

P4
Comparative analysis on livelihood approaches, resilience and transformability in agro-ecosystems in West Africa

Prince Amadichukwu
Our Soil Africa Foundation, Nigeria

P5
Communities vulnerability and resilience to climate shocks in the Niger basin of Benin

Boris Odilon Kounagbè Lokonon
WASCAL, Dakar

P6
Residents' perception and adaptation/coping strategies to climate-related disasters in Bankpama, Wa west district, Ghana

Fredrick Dayour, Godfred S. Jasaw, Yaw A. Boafo
University for Development Studies, Wa Campus

ORAL PRESENTATIONS

13:30–17:30 **Parallel Sessions A & B**

Session A:
Implication of Climate and Ecosystem Changes on Agricultural Production (I)

A1
The socioeconomic impacts of climate change on the livelihood and adaptation strategies of smallholder farmers in the Upper White Volta Basin of Ghana

J. Amikuzuno, I. Hathie, S. G. Adiku, D. S. MacCarthy
University for Development Studies, Tamale, Ghana

A2
Assessing the impacts of climate shocks on the performance of farm activities and adaptation policy responses

Boris Odilon Kounagbè Lokonon, Kimseyinga Savadogo
Université Cheikh Anta Diop, Senegal

A3
Sensitivity of cereals production in smallholder farmers' fields to climate change; the case of Upper White Volta Basin of Ghana

D.S. MacCarthy, S.G.K. Adiku, B. S. Freduah, E. Koomson, J. Amikuzuno
University of Ghana, Legon, Accra

A4
Effects of climate change on tree species population and dispersion pattern within household farmlands and open parklands in the Talensi area of northern Ghana

Chimsah F. A., Dittoh S., Dzomeku I. K
University for Development Studies, Nyankpala Campus, Ghana

A5

Towards sustainable land and biodiversity management in traditional society of savannah ecological zone

Antwi Effah Kwabena, John Boakye-Danquah, Ruby Mensah, Osamu Saito, George Owusu
IR3S, The University of Tokyo, Japan

A6

Reducing woody species composition of riparian forests in farmlands in the moist savannas of Ghana: implication on managing risks to climate change impacts

Emmanuel A. Boakye, Dibi N'da Hyppolite, Victor R Barnes, Stefan Porembski, Michael Thiel, François N. Kouamé, Daouda Kone
Working Group on Forest Certification, Ghana

A7

Bushfires and agroecosystems change in northern Ghana: insights from rural households in the Wa West District, Upper West region

Yaw A. Boafo, Godfred Jasaw, Osamu Saito, J.Boakye-Danquah, Kazuhiko Takeuchi
United Nations University, Institute for the Advanced Study of Sustainability (UNU-IAS) Tokyo, Japan

A8

Using participatory scenario exploration exercise to examine agricultural land-use/cover change options in semi-arid Ghana

Biola K. Badmos, Grace B. Villamor, Sampson K. Agodzo, Samuel N. Odai, Samuel S. Guug
Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

A9

Measuring the economic impact of climate change on plantation agriculture in Nigerian: a Ricardian approach

Fonta M. William, Elias T. Ayuk, Safiétou Sanfo
WASCAL Competence Center, Ouagadougou, Burkina Faso

A10

The effects of climate variability on agricultural productivity in Ghana

Samuel A. Donkoh, William Adzawla, Gideon Danso-Abbeam, Victor Lolig, Geetha Mohan, & Hirotaka Matsuda
University for Development Studies

Session B:

Risk Assessment of Extreme Weather Events

B1

Expert-based assessment of driving forces of land use change and landscape services in the Upper East region, Ghana

Janina Kleemann, Dr. Christine Fürst, Gülendarm Baysal, Hongmi Koo, Justice Nana Inkoom
Center for Development Research (ZEF), Germany

B2

Variation analysis of rainfall and temperature in northern savannas of Ghana

Abagale, F. K., Kranjac-Berisavljevic, G., Shaibu, A-G. Gandaa, B. Z.
University for Development Studies, Tamale, Ghana

B3

Comparison of GSMaP mvk data with surface data at semi-arid regions in Africa

Hirohiko Ishikawa, Weiqiang MA, Ayilari-Naa A. Juati, Samuel O. Ansah
Kyoto University, Japan

B4

Modeling flood hazard zones at sub-district level with the rational model integrated with GIS and Remote Sensing approaches

Asare-Kyei, D.K
United Nations University, Institute for Environment and Human Security (UNU-EHS), Bonn, Germany

B5**Validating GSMAP satellite rainfall data with in situ data to facilitate the improvement of algorithms for rainfall estimation using satellite imagery for Ghana.**

Hirohiko Ishikawa, Ayilari-Naa Juati, Kobayashie Kenichiro, Samuel O Ansah, Peter Nunepkeku, Gordana Kranjac-Berisavljevic
Kyoto University, Japan

B6**Numerical weather prediction trial: the weather research and forecasting (WRF) model**

Hirohiko Ishikawa, Ayilari-Naa Juati, Samuel O. Ansah, Peter Nunepkeku, Kenichiro Kobayashi, Gordana Kranjac-Berisavljevic
Kyoto University, Japan

B7**Analysis of climate extremes in northern Ghana**

Ayilari-Naa Juati, Hirohiko Ishikawa, Charles Yorke, Samuel O. Ansah, Peter Nunepkeku, Kenichiro Kobayashie, Gordana Kranjac-Berisavljevic
Ghana Meteorological Agency, GHANA

B8**Development of a Volta-river catchment flood model**

Kenichiro Kobayashi, Akihiko Kotera, Keisuke Kimura, Taku Notoya, Tomoki Kiriya, Masanori Inoue, Nobuhiko Sawai, Hirohiko Ishikawa, Ayilari-Naa Juati, Gordana Kranjac-Berisavljevic
Kobe University, Kobe, Japan

B9**Estimation of the amount of surface runoff contributed from Sissily-Kulpawn catchment within Ghana-Burkina Faso border using Curve Number (CN) method**

Gandaa Z. B, G. Kranjac-Berisavljevic
University for Development Studies, Tamale, Ghana

B10**Rainfall changes in the savannah zone of northern Ghana 1961–2010**

Kwadwo Owusu
University of Ghana, Legon, Accra, Ghana

**ORAL PRESENTATIONS****8:00-12:00****Parallel Sessions C & D****Session C:****Coping and Adaptation Strategies; Knowledge Innovation****C1****An assessment of rainfall variability under rain fed agriculture: perspectives from local knowledge systems and planning for community resilience in north-western Ghana**

Emmanuel Kanchebe Derbile, Dramani File
University for Development Studies

C2**Role of agricultural land use and farm management practices for food security and climate change adaptation in semi-arid region of Ghana**

Antwi Effah Kwabena, John Boakye-Danquah, Kwabena Awere-Gyekye, Owusu Barima, Gerald A. B. Yiran, Kofi Abekoe
IR3S, The University of Tokyo, Japan

C3**Community boundary and asset mapping: strategy for effective resource management in context of climate change adaptation**

Antwi Effah Kwabena, John Boakye-Danquah, Gerald A. B. Yiran, Sosthenes Kufobge, Owusu Barima
IR3S, The University of Tokyo, Japan

C4

Vulnerability of settled Fulani pastoralists to climate change and emerging innovations for adaptation in southwest Nigeria

Fabusoro, E., Sodiya, C. I., Fasona, M., Oyedepo, J.,
Fapojuwo, E. O., Alarima, C. I.
Federal University of Agriculture, Abeokuta, Nigeria

C5

Estimating surface water runoff using Curve Number (CN) method and its effect on crop cultivation in the Bontanse basin

Gandaa Z. B., G. Kranjac-Berisavljevic, Shaibu A-G
University for Development Studies, Tamale

C6

Micro-level farmers' adaptation strategies to climate change in the semi-arid tropics in Tolon district, Ghana

Geetha Mohan, Hiroataka Matsuda, Samuel A. Donkoh,
Adelina Mensah, Victor Lolig
IR3S, The University of Tokyo, Japan

C7

Ecosystem services assessment using a stakeholder-based approach: cases of Bolgatanga and Bongo districts in the Upper East region, Ghana

Hongmi Koo, Christine Fürst
Center for Development Research (ZEF), University of Bonn, Germany

C8

Farmer innovation and household resilience to climate shocks: insights from north-east Ghana

Justice A. Tambo, Tobias Wünscher
Center for Development Research (ZEF), University of Bonn, Germany

C9

Towards climate change adaptation modeling: lessons from farmer responses to environmental changes in Ghana

Edwin A. Gyasi, Kwabena Awere Gyekye
University of Ghana, Legon, Accra, Ghana

C10

Use of organic waste in urban horticulture - innovations and opportunities to increase agricultural resilience in Tamale metropolis, Ghana

Kranjac-Berisavljevic, G., Gandaa, B.Z
University for Development Studies, Tamale, Ghana

Session D:

Natural Resource Management and Interventions

D1 (Presentation Cancelled)

Transnational climate change resilience strategies for the sustainable landscape management in the Blue Nile river basins: linking climate knowledge from semi-arid of East Africa

Carlos. Pascual, B. Zaitchik, B. Semane
Future University, Khartoum, Sudan

D2

Women-farmers' perceptions and adaptations to climate change and variability in the transitional zone of Ghana: the case of Atuahenekrom in Sunyani Municipality

Faustina Essandoh-Yeddu
University of Ghana, Legon, Accra, Ghana

D3

Green farming practice for climate change mitigation and adaptation: experience with usual practice and vetiver technology

Effiom Oku
United Nations University, Institute for Natural Resources in Africa (UNU-INRA), Accra, Ghana

D4

Non-timber forest products, climate change resilience and rural poverty alleviation in northern Ghana

Issaka Balma Yakubu
University for Development Studies, Tamale, Ghana

D5**Jatropha production in Malawi and Mozambique: delineating ecosystem services and human wellbeing trade-offs**

Alexandros Gasparatos, Graham von Maltitz
The University of Tokyo, Japan

D6**Changing diet to cope with climate change: exploring innovative pathways for developing ready-to-eat millet products through integrated millet development initiative**

Niaga F. Santuah, Dennis Chirawurah, George A. Agulijam
University for Development Studies, Tamale, Ghana

D7**The role and nature of trust in risk communication: insights from climate-induced risks prone rural communities in Wa West district, Ghana.**

Subhajyoti Samaddar, Muneta Yokomatsu,
 Martin Oteng-Ababio, Frederick Dayour, Togbiga Dzivenu,
 Hirohiko Ishikawa
Disaster Prevention Research Institute, Kyoto University, Japan

D8**Material flow analysis for Shea butter production systems and ecological sustainability in Ghana: an exploratory study**

Godfred Seidu Jasaw, Osamu Saito, Kazuhiko Takeuchi
United Nations University, Institute for the Advanced Study of Sustainability (UNU-IAS), Tokyo, Japan

D9 (Presentation Cancelled)**Investigating the sensitivity of household food security to agriculture-related shocks and the implication of informal social capital and natural resource capital: the case of rural households in Mpumalanga, South Africa**

Byela Tibesigwa, Martine Visser, Wayne Twine
University of Cape Town, Cape Town, South Africa

D10**Adaptive co-management of forest resources: a case of Takamaru-Yama Sennen-no Mori, Tokushima, Japan**

Sadahisa Kato, Naoki Iiyama, Noriko Minamoto,
 Mahito Kamada
United Nations University, Institute for the Advanced Study of Sustainability (UNU-IAS), Tokyo, Japan

POSTER PRESENTATIONS**13:00–13:30****Poster Session 2****P7****Collective action and farmers' private adaptation to climate change: evidence from the savanna region in Togo**

Mikemina PILO, Tobias Wünscher
Université Cheikh Anta Diop, Dakar, Senegal

P8**Evaluating the impact of cereal banking on food security and resilience building of rural households in the Gambia**

Raymond Jatta
Université Cheikh Anta Diop/Senegal, WASCAL

P9**Soil properties of six communities in the northern region of Ghana as affected by crop species and location.**

Vincent K. Avornyo, Osamu Ito
University for Development Studies, Faculty of Agriculture, Tamale- Ghana

P10**Application of DPSIR framework to extreme climatic effects in Northern Ghana**

K. O. Asubonteng, S.K. Loh
United Nations University, Institute for Natural Resources in Africa

P11**Estimation of USLE's C-Factor using vegetation indices (VIs) for soil erosion modeling in Lake Bosumtwi**

S.K. Loh, K. O. Asubonteng
CECAR – AFRICA-Japan International Cooperation Agency (JICA)

P12**Assessment of spatio-temporal patterns of terrestrial ecosystem to climate variations using satellite data in Ghana**

Ram Avtar, Osamu Saito, Hideki Kobayashi,
 Srikantha Herath, Kazuhiko Takeuchi
United Nations University, Institute of Advanced Studies in Sustainability (UNU-IAS)

ORAL PRESENTATIONS

13:30–17:00 Parallel Sessions E & F

Session E: Implication of Climate and Ecosystem Changes on Agricultural Production (II)

E1

Integrated assessment of vulnerability of rural households to climate stress across regional levels in Niger

Elhadji Iro Illa

Universite Cheikh Anta Diop de Dakar

E2

Gender and adoption of cowpea innovation in the context of climate change in Benin

Gilbert O Adjimoti, Sounkoura Adetonah

University of Ghana, Legon, Accra, Ghana

E3

Response of maize to climate adaptation strategies in the Sudan savanna of West Africa

Isaac Danso, Thomas Gaiser, Heidi Webber, Frank Ewert
Jesse B. Naab

University of Bonn, Institute of Crop Science and Resource Conservation, Germany

E4

Trends in NDVI and relationship with rainfall, population density and land use land cover change over the Bani river basin (West Africa)

Souleymane Traore

Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

E5

Impact of flood on the livelihood of farmers in semi-arid zone of Benin Republic

Alice Bonou, Tobias Wuenscher, Adama Diaw

University Cheikh Anta Diop, Dakar, Senegal

E6

Rice farmers' vulnerability to climatic variability: quantitative evidence for adaptation resource allocation from Ekiti State, Nigeria

Awolala David Olufemi

Universite Cheikh Anta Diop (UCAD), Dakar, Senegal

E7

Indigenous coping agricultural strategies of farmers to mitigate climate variability on farming in the Bawku West district of the Upper East region of Ghana

Apuswin Mercy Abarike, Richard W.N. Yeboah,
Israel K. Dzomeku

University for Development Studies, Tamale, Ghana

E8

Reducing greenhouse gas emission from ruminants through the use of indigenous browse plants

Ansah T., Wilkinson R.G., Huntington J., Dei H.K

University for Development Studies, Tamale, Ghana

E9

Evaluating yield response of paddy rice to irrigation with application of the aquacrop model in northern region of Ghana

S. Ganiyu, N.Kye-Baffour, W. Agyare

University for Development Studies, Tamale, Ghana

E10

Farmers' livelihoods and welfare impacts in Wa West district, Upper West region of Ghana

Samuel A. Donkoh, William Adzawla, Isaac Gershon,
Victor Lolig, Francis Obeng, Yasuko Kusakari,
Godfred Jasaw Kwabena Asubonteng, Frederick Dayour,
Togbiga Dzivenu, Bizoola Gandaa,

Gordana Kranjac-Berisavljevic

University for Development Studies (UDS) Nyankpala campus, Northern Region, Ghana

Session F: Capacity Assessment and Resilience Enhancement

F1

Studies of resilience efforts by farmers in northern Ghana: indigenous tillage practices used to reduce to the effect of rainfall and temperature variation

Gandaa Z. B, G. Kranjac-Berisavljevic
University for Development Studies, Tamale, Ghana

F2

Mainstreaming disaster risk reduction (DRR) strategies in school curricula in Ghana: an exploratory study

Priscilla Toloo Apronti, Osamu Saito, John Boakye Danquah,
Yaw Agyeman Boafo
United Nations University Institute for the Advanced Study of Sustainability, Tokyo, Japan

F3

Assessment of capacity building initiatives towards enhancing resilience to climate change in Ghana: the role of University education

Isaac Agyapong
University of Ghana, Legon, Accra, Ghana

F4

Capacity development approaches for improved resilience in rural communities: key lessons from Tolon district of northern Ghana

Romanus Ziem, Godfred Seidu Jasaw, Yasuko Kusakari,
Victor Lolig, Yaw Agyeman Boafo, Osamu Saito,
Kazuhiko Takeuchi
University for Development Studies, Nyankpala, Tamale-Ghana

F5

Enhancing sustainable development for rural communities in semi-arid regions of Ghana – evidence from Baleufli in Wa West District

Mujeeb Rahaman Adams, Godfred Seidu Jasaw
Centre for Society and Climate Change Affairs (CSCCA), Wa, UWR, Ghana

F6

Capacity assessment framework, processes and indicators: lessons from a sustainable rural livelihoods project in northern Ghana

Yasuko Kusakari, Hirotaka Matsuda, Kazuhiko Takeuchi
The University of Tokyo, Japan

F7

An assessment of the knowledge, attitudes and practices among organizations on climate change in Tolon and Wa West districts, northern Ghana

Victor Lolig, Godfred Seidu Jasaw, Francis Obeng,
Samuel Donkoh
University for Development Studies, Nyankpala, Tamale-Ghana

F8

Agronomic and marketing innovation enhances vegetable farmers' resilience

Eileen Bogweh Nchanji, Imogen Bellwood-Howard
Göttingen University, UrbanFoodPlus, Germany

F9

Determinants of climate change adaptation strategies by smallholder farmers in east Mamprusi district of northern region, Ghana

Francis K. Obeng, Robert Awassena
University for Development Studies, Nyankpala, Tamale-Ghana

F10

Disability, climate change and human security. Policy implications for Ghana

Simon Kwabena Dankyi
Goethe University, Frankfurt, Germany