



Open Science conference on
Africa and Carbon Cycle
The CarboAfrica Project

Accra (Ghana)
25-27 November 2008

PROGRAMME Tuesday, 25 November 2008

Registration
08.00-08.45

Welcome address

(Chair Anastasios Kentarchos)

- 08.45 – Welcome from European Commission (A. Kentarchos)
- 09.00 – Welcome from Ghana (E. Obeng Dapah – Honourable Minister for Lands, Forestry & Mines)
- 09.15 – Welcome from FAO (M.H. Semedo)
- 09.30 – The CarboAfrica Project (R. Valentini)

10.00 – Coffee Break

Key note speeches on Africa and Global Carbon Cycle

(Chair Robert Scholes)

- 10.15 – Dynamics of the African carbon cycle: a continent of flux and variation (R. Scholes)
- 10.45 – Greenhouse gas inventories in Africa: constraints and perspectives (M. Khouma)

11.15 - Round Table on Africa and Global Change

(Chair Riccardo Valentini)

Participants: A. Kentarchos, J. Nkem, R. Scholes, L. Thiombiano, N.A. Kotey

12.30 Lunch

Each presentation should last 15 minutes + 5 minutes of questions

Terrestrial Carbon Observations in Africa and Ecosystem fluxes

(Chair D. Papale)

- 14.00 – Vegetation heterogeneity, does it matter? (L. Merbold)
- 14.20 – Estimation of Net Ecosystem Exchange at the Skukuza Flux Site, Kruger National Park, South Africa (A. Kirton)
- 14.40 – Effect of burning on soil-atmosphere greenhouse gas exchange in African grassland savanna in Congo Brazzaville (A. de Grandcourt)
- 15.00 – Semi-arid afforestation and its effect on land-atmosphere interactions (E. Rotenberg)

15.20 – Coffee Break

Terrestrial Carbon Observations in Africa and Ecosystem fluxes (continuation)

- 15.40 – LAMTO, Ivory Coast: A new station for monitoring CO₂ and CH₄ in the atmosphere (M. Ramonet)
- 16.00 – Ground-based remote sensing of atmospheric trace gases in the tropics (L. Amekudzi)

Soil and Vegetation: Carbon and GHGs emissions in Africa

(Chair M. Bonsu)

- 16.20 – Seasonal and inter-annual variations of LAI in a Sahelian environment, Gourma, Mali (E. Mougin)
- 16.40 – West Africa's savannahs under change: a holistic synthesis of positive and negative effects of agriculture and land cover changes on carbon cycling and trace gas emission (H. Nacro)

17.00 – Close of the first day

19.00 – Conference Dinner

PROGRAMME Wednesday, 26 November 2008

Soil and Vegetation: Carbon and GHG emissions in Africa (continuation)

- 08.00 – Understanding soil carbon dynamics for sustainable land management (E. Yeboah)
- 08.20 – Seasonal dynamics of soil carbon dioxide efflux in a restored young mangrove plantation at Gazi bay, Kenya (B. Yebei)
- 08.40 – Estimates of CO₂ emissions from soil organic carbon for different land uses (M. Bonsu)
- 09.00 – Soil respiration in a semi-arid ecosystem in Mali (V. Le Dantec)

Biogeochemical Modelling

(Chair N. Hanan)

- 09.20 – The CA model intercomparison - review and outlooks (U. Weber)
- 09.40 – Towards an African carbon budget from data-oriented modelling (M. Jung)

10.00 – Coffee Break

Biogeochemical Modelling (continuation)

- 10.20 – African Carbon Exchange II: A systems approach (N. Hanan)
- 10.40 – Land cover change, biogeochemical modeling of carbon stocks, and climate change in the Sahel/West Africa (L. Tieszen)
- 11.00 – Assimilation of land-surface temperature in the land surface model JULES over Africa (D. Ghent)
- 11.20 – Evaluation and improvement of the representation of Sahelian savannah in the vegetation model ORCHIDEE (P. Brender)

Impact of vegetation fires on African GHG budget

(Chair H. Balzter)

- 11.40 – Remote sensing methods for monitoring fire related biophysical parameters (H. Balzter)
- 12.00 – Analysis of satellite imagery to map burned areas in Sub-Saharan Africa (I. Palumbo)

12.20 – Lunch

Impact of vegetation fires on African GHG budget (continuation)

- 14.00 – Modelling tree - grass balance in savanna ecosystems: the importance of different factors (V. Lehsten)
- 14.20 – An enhanced estimate of pyrogenic carbon emissions from Africa using a synthesis of polar orbiting and geostationary active fire products (P. Freeborn)
- 14.40 – Synchronizing Fire Emission Measurements with Land Use Patterns in Zambia (B. Mhango)

15.00 – Coffee Break

15.20 – Poster Session

(Poster authors are requested to stay close to their posters)

17.00 – Close of the second day

PROGRAMME Thursday, 27 November 2008

Carbon sequestration and reduced emissions potentialities in Africa

(Chair S. Adu-Bredu)

- 08.00 – Carbon stock under four land-use systems in three varied ecological zones in Ghana (S. Adu-Bredu and collaborators)
- 08.30 – Ghana as a case study for CDM and REDD Africa's potential (M. Henry and collaborators)
- 09.00 – Carbon storage and the health of cocoa agroforestry ecosystems in Ghana (A. Asase)
- 09.20 – Above-ground biomass in Gabon (D. Maniatis)

09.40 – Helping small scale tree farmers in Africa participate in carbon trading: a case in central Kenya highlands (J. Kungu)

10.00 – Coffee Break

Carbon sequestration and reduced emissions potentialities in Africa (continuation)

- 10.20 – Carbon fluxes and deforestation (W. Kutsch)
- 10.40 – Potential for Carbon Sequestration in Terrestrial Forests of Zambia (A. Siampale)
- 11.00 – Promoting carbon sequestration through participatory land use planning by poor resource farmers in arid communal areas of Zimbabwe: a case study (R. Mugandani)
- 11.20 – Finding on Integrated Land use Assessment Project (ILUA), Biomass and Carbon stocks (J. M. Mukosha)

Demonstration projects and developing capacities in Africa

(Chair L. Thiombiano)

- 11.40 – Tropical Forests and Climate Change Adaptation (J. Nkem)
- 12.00 – SHARE: Soil Moisture for Hydrometeorologic applications in the SADC (Southern African Development Community) region (C. Pathe)

12.20 – Lunch

Demonstration projects and developing capacities in Africa

(Chair L. Thiombiano)

- 14.00 – Sustainable Production Intensification in Africa - a climate change perspective (T. Friedrich)
- 14.20 – TerrAfrica partnership; potential for climate change adaptation and mitigation in Sub-Saharan Africa (L. Thiombiano)
- 14.40 – Fostering shifts from existing fire behaviour patterns to more environmentally-friendly ones: challenges and approaches (L. Mammino)
- 15.00 – Cooperative Community Carbon Offsetting with Biodiversity and Social Co-Benefits: a case study of trees for global benefits programme in Uganda (P. Mwima)
- 15.20 – Local strategies of adaptation to climate change: 6 case studies in Burkina Faso (F. Bationo)

15.40 – Final remarks

16.00 – Conference closure



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