

START Grants for GEC Research in Africa: Project Titles

2004

	Title	PI	Institution	Country
A	A global change: monitoring the Indo-Atlantic connections south of Africa (GOODHOPE)	Isabelle Ansorge	University of Cape Town	South Africa
B	Assessing the impacts of climate change and variability on water resources in Uganda: developing an integrated approach at the sub-regional scale	Charles Basalirwa	Makerere University	Uganda
C	Inventory and mapping maritime pine populations in Morocco using satellite data and evaluation of their physiological response to environmental stresses	Abdelali Boulli	Université Cadi Ayyad	Morocco
D	Natural resource utilisation and land use conflicts in the Okavango Delta, Botswana	M.B.K. Darkoh	University of Botswana	Botswana
E	Societal pressures on groundwater resources in southeastern Nigeria	Ekanem Michael Ekanem	University of Uyo	Nigeria
F	Representativeness and long-range transport of carbon monoxide at Mount Kenya Global Atmospheric Watch (GAW) station	Josiah Murageh Kariuki	Kenya Meteorological Department	Kenya
G	Modeling the isotopic composition of Ethiopian lakes: a tool for understanding past and future variations in climate and water resources	Seifu Kebede	Addis Ababa University	Ethiopia
H	Methane and nitrous oxide fluxes in different ecosystems of Botswana	Wellington Masamba	H. Oppenheimer Okavango Research Center	Botswana

	Title	PI	Institution	Country
I	Variability and predictability of West African monsoon onset	Aïda Diongue Niang	Direction de la Météorologie Nationale du Sénégal	Senegal
J	Mapping deforestation rates and carbon fluxes in the Congo Basin Forest using multi-date SPOT-VGT imagery for 1999 to 2003	Donatien Njomo	University of Yaounde I	Cameroon
K	Environmental assessment of Lake Victoria Basin for the Africa Environmental Outlook (AEO) Report	Eric Odada	University of Nairobi	Kenya
L	Pan Africa PAGES Workshop on "African paleoperspectives: linking the past to the present and the future"	Daniel Olago	University of Nairobi	Kenya
M	Strengthening agricultural research capacity to generate technologies that adapt to climatic shifts and variability in Nigeria's dry belt	Olwasemire Olatunji	Ahmadu Bello University	Nigeria
N	Fire and climate change feedback in southern Africa	Mary Scholes	University of Witwatersrand	South Africa
O	Vulnerability assessment of maize and sorghum crops to climate variability and change in Kenya	Chris Shisanya	Kenyatta University	Kenya
P	Assessment of land use / land cover changes, socio-economic drivers and associated carbon fluxes in southwestern Uganda	Joy M.B. Tukahirwa	The Environmental Conservation Trust of Uganda, ECOTRUST	Uganda
Q	Setting the benchmark – what do we know/what is our future? A science review and synthesis workshop on the long-term impacts of environmental change in West Africa	Souleye Wade	Université Cheikh Anta Diop	Senegal

2005

	Title	PI	Institution	Country
A	Simulation of West African climate variability and change with an adapted regional climate model	Ernest A. Afiesimama	Nigerian Meteorological Agency	Nigeria
B	Vulnerability of selected Ethiopian lakes to climatic variability, neo-tectonism and water use	Tenalem Ayenew	Addis Ababa University	Ethiopia
C	The influence of atmospheric deposition on biogeochemical cycles in Lake Kivu	Jean-Jacques Bagalwa	Center of Research in Natural Science	Democratic Republic of the Congo
D	Stable isotope records of Holocene environmental change from Moroccan lakes: an emerging synthesis	Abdelfattah Benkaddour	Université Cadi Ayyad	Morocco
E	Supporting African expert contributions to LOICZ II (Land Ocean Interactions in the Coastal Zone) development at the IGBP/IHDP LOICZ II Inaugural Open Science Meeting 27-29 June 2005	Julius Francis	Western Indian Ocean Marine Science Association	Tanzania
F	Paleo-environmental reconstruction of Lake Ngami Basin, Botswana– the role of climate change in human biogeography	Philippa Hunstman-Mapila	University of Botswana	Botswana
G	African participation at the PAGES (Past Global Changes) Open Science Meeting	Mohammed Umer	Addis Ababa University	Ethiopia
H	Pilot project to strengthen the Nigerian meteorological agencies capacity to provide reliable rainfall prediction for use in making adaptive agricultural decisions	Nnadozie Okonkwo Nnoli	Nigerian Meteorological Agency	Nigeria
I	Trace gas and aerosol emissions from domestic burning in southern Africa	Stuart Piketh	University of the Witwatersrand	South Africa
J	Understanding the relative risks posed to agricultural productivity by air pollution and drought across the southern African region	Mark Zunckel	CSIR Division of Water, Environment and Forestry Technology	South Africa

2006

	Title	PI	Institution	Country
A	A structure, biomass and net primary production in a dry tropical afro montane forest of Ethiopia	Getachew Tesfaye Abebe	Addis Ababa University	Ethiopia
B	High-resolution, multi-proxy study of speleothems and formation drip waters from Mechara Caves, southeastern Ethiopia: a tool for predicting drought frequency and long term climate variability	Asfawossen Asrat	Addis Ababa University	Ethiopia
C	Development of remote sensing tools to improve understanding and management of Lake Malawi and other African Rift Valley lakes	Geoffrey Chavula	University of Minnesota and University of Malawi (The Polytechnic)	Malawi
D	ARGO capacity building workshop for the Atlantic countries of Africa, 5-7 December 2006	Regina Folurunsho	Nigerian Institute for Oceanography and Marine Research	Nigeria
E	Climatic feedback of dust and biomass burning aerosol over West Africa	Abdourahmane Konare	Université Cocody	Cote d'Ivoire
F	Research protocols for assessing the impact of climate variability and change in rural Tanzania: water, food systems, vulnerability and adaptation	Emma T. Liwenga	University of Dar es Salaam	Tanzania
G	Land use and climate change effects on terrestrial C stocks in Uganda's cattle corridor	Abel Lufafa	Makerere University	Uganda
H	Assessment of land cover degradation following forest harvesting in the Mai-Ndombe and the Lisala region	Raymond S. Lumbuenamo	University of Kinshasa	Democratic Republic of the Congo
I	Mitigating phosphorous load into Lake Victoria catchment	Vincent O. Madadi	University of Nairobi	Kenya
J	Workshop to address issues relating to the prediction and predictability of east and southern Africa climate, May/June 2006, in Tanzania	Mohamed S. Mhita	Tanzania Meteorological Agency	Tanzania

	Title	PI	Institution	Country
K	Environmental change assessment in Africa: seasonal fluctuation in the atmospheric and water levels of methane and nitrous oxide in selected aquatic ecosystems in Uganda and Nigeria	Irene Naigaga	Makerere University	Uganda
L	Modeling land use – dust-climate feedbacks in West Africa	Ibrah Seidou Sanda	Université Abdou Mounmouni	Niger
M	Greenhouse gases, methane and carbon dioxide and the diminishing water resources in Lake Victoria basin, Kenya	Gelas Muse Simiyu	Moi University	Kenya
N	Projected changes in summer climate and the implications for growing maize in southern Africa	Mark Alexander Tadross	University of Cape Town	South Africa
O	Great hydraulic installations and food security in Burkina Faso: the case of the Bagré Dam	Tanga Pierre Zougrana	Université de Ouagadougou	Burkina Faso

2007

	Title	PI	Institution	Country
A	Climate change and ecosystem: assessment of CO ₂ fluxes and potential impacts on estuarine water resources and coastal environment of Bight of Bonny, Nigeria	Nsikak Udom Benson	Covenant University	Nigeria
B	Vulnerability of coastal habitats and dependent livelihoods to climate change	Jared Bosire	Kenya Marine and Fisheries Research Institute (KMFRI)	Kenya
C	Adapting to climate variability in the Senegal River basin in West Africa	Aliou Mamadou Dia	Université Cheikh Anta Diop	Senegal

	Title	PI	Institution	Country
D	The integration of climate change management into local air quality management planning in South Africa	R.D. Diab	University of KwaZulu-Natal	South Africa
E	Evaluation of impact of land use and land cover changes on climate, carbon cycle, and ecosystems in southwestern Nigeria	Olufunke Olubusayo Faboye	University of Ibadan	Nigeria
F	Assessment of climate variability impacts on coastal communities of East Africa	Juliet Hermes	University of Cape Town	South Africa
G	Land use and climate change effects on livelihoods and sediment and carbon loading in the Lake Tanganyika region	Mwanjalolo Majaliwa	ISP / Bukavu-DRC	Rwanda
H	Short-term impact of cultivating Miombo Woodlands on greenhouse gas exchange	Farai Mapanda	University of Zimbabwe	Zimbabwe
I	ENSO-based rainfall prediction and crop production in southern Ghana	Ferdinand Mawunya	University of Ghana	Ghana
J	Satellite-derived rainfall estimates (TRMM products) used for hydrological predictions of the Congo River flow: overview and preliminary results	Yoland Munzimi	University of Kinshasa	Democratic Republic of the Congo
K	Sources and distribution of volatile organic compounds in the marine boundary layer	Carl Palmer	University of Cape Town	South Africa
L	Lowland and highland ecosystem dynamics in Kenya	Stephen Rucina	National Museums of Kenya	Kenya
M	Impact of urban growth on surface climate: a case study in Oran, Algeria	A. Safia	National Center for Space Techniques	Algeria
N	Investigating projected climate change over Sahel and impact studies on selected crops using a modeling approach	Abdoulaye Sarr	Direction de la Météorologie Nationale du Sénégal	Senegal

2008

	Title	PI	Institution	Country
A	Project of support to the integration of the adaptation to the climate changes in the policies and national strategies of food safety in Burkina Faso	Mathieu Badolo	Institut d'applications et de vulgarisation en sciences	Burkina Faso
B	A case study: savannas and environmental change in Africa	Fadiala Dembele	Institut Polytechnique Rural de Katibougou	Mali
C	Ghana's post-2007 floods and households' vulnerability: gender, Age and Spatial Analysis	Benjamin Dovie	University of Ghana	Ghana
D	Effects of climate variability on species diversity and biomass productivity of a humid afro montane tropical forest of Ethiopia: Evidence from postfire forest regrowth	Tesfaye Abebe Getachew	Addis Ababa University	Ethiopia
E	The effects of anthropogenic disturbance and global climatic change to benthic macroinvertebrates assemblages in Uluguru Mountains Forest streams in Morogoro-Tanzania	Jeremiah Kyomo	University of Dar es Salaam	Tanzania
F	Developing capacities in carbon stock measurement across ecologies and land use systems in West Africa	Cheikh Mbow	Université Cheikh Anta Diop	Senegal
G	Comparative population-level responses to aridification: implications for future range changes of parasite, parasitoid, and pollinator communities given global warming scenarios	Michael McLeish	South African National Biodiversity Institute (SANBI)	South Africa
H	Landscape processes and biodiversity change along the Kwandu River in Caprivi, Namibia	Alfons Mosimane	University of Namibia	Namibia
I	Climate change and variability in semi arid central Tanzania: Assessment of farmer responses, adaptation and coping strategies to rainfall variability and the role of civil societies in enhancing farmer adaptations	P.K.T. Munishi	Sokoine University of Agriculture	Tanzania

	Title	PI	Institution	Country
J	Past climatic changes in Northern-Cameroon (Adamawa plateau) during the late Holocene	Victor François Nguetsop	University of Dschang	Cameroon
K	Integrated assessment of land use changes, organic carbon, greenhouse gases and spring water variability in the middle Nzoia River catchment, Kenya	Gelas Simiyu	Moi University	Kenya
L	Assessment of the impact of climate change and climate variability on maize production in the Lake Victoria Basin Uganda	John Wasige	Makerere University	Uganda
M	Ecotope water and CO ₂ fluxes for assessment of climate change effects on the Okavango Delta wetlands	Piotr Wolski	University of Botswana	Botswana

2009

	Title	PI	Institution	Country
A	Influence of fire and precipitation on woody vegetation composition and structure in Serengeti National Park, Tanzania	John Bukombe	Tanzania Wildlife Research Institute	Tanzania
B	Economic analyses of adaptation strategies of the fisheries sector of Senegal in relation to climate change	Ndiaga Diop	Université Cheikh Anta Diop	Senegal
C	Integration of indigenous knowledge systems in adapting to climate change and enhancing food security among the Kalenjin community of Rift Valley, Kenya	Emmanuel Chessum Kipkorir	Moi University	Kenya
D	Regional impacts of aerosol on West Africa climate	Abdourahamane Konare	Université Cocody	Cote d'Ivoire

	Title	PI	Institution	Country
E	Volta Basin water resource management in present and future climate regimes	Benjamin L. Lamptey	International Water Management Institute	Ghana
F	Support for seven African scientists to participate in the 3rd International Conference: "African Monsoon Multidisciplinary Analysis (AMMA)" to be held in Ouagadougou, Burkina Faso, 20-24 July 2009	Thierry Lebel	Institut de Recherche pour le Développement	Burkina Faso
G	Modelling the dynamics of the Tanzanian coastal waters	Shigalia B. Mahongo	Tanzania Fisheries Research Institute	Tanzania
H	Impacts and adaptation to climate change for subsistence communities: lessons from Lesotho	Caxton Matarira	National University of Lesotho	Lesotho
I	Mapping wetland flooding regimes for improved methane emissions estimates	Kelebogile Mfundisi	H. Oppenheimer Okavango Research Centre	Botswana
J	Impact of climatic change on alpine plant species distribution, land cover and edaphic systems on Rwenzori Mountains in Uganda	Bob Nakileza	Makerere University	Uganda
K	Land use and climate change: potential impacts on human socio-economic developments, human-biodiversity conservation and management of southern Rift Valley wetlands, Kenya	Alfred Owino	Kenya Wildlife Service	Kenya
L	Climate change planning inside and outside protected areas	Andriaman-dimbisoa Razafimpahana	Réseau de la Biodiversité de Madagascar (REBIOMA)	Madagascar
M	Quaternary sedimentary record of monsoon winds variability and associated carbon and nitrogen burial rates on the East African continental margin	Yohanna Shagude	Institute of Marine Sciences	Tanzania

	Title	PI	Institution	Country
N	Pathogenicity and species shifts in plant parasitic nematodes affecting banana production in the East African Highlands: what is the influence of climate change?	Herbert Talwana	Makerere University	Uganda
O	Physiological responses of tsetse flies, vectors of trypanosomiases to simulated climate change: implications for prediction, management and control	John Terblanche	Stellenbosch University	South Africa
P	Assessment of global change impacts on groundwater in the coastal sedimentary basin of Benin (West Africa)	Henri Totin	University of Abomey-Calavi	Benin
Q	Support for five African scientists to participate in the 2nd East African Quaternary Research Association (EAQUA) Workshop to be held in Addis Ababa, Ethiopia 20 to 25 May 2009	Mohammed Umer	University of Addis Ababa	Ethiopia

2010

	Title	PI	Institution	Country
A	Vulnerability assessment and risk level of ecosystem services for climate change impacts and adaptation in Moroccan oases	Mohammed Messouli	Université Cadi Ayyad	Morocco
B	Strengthening the capability of communities and local institutions in southern Africa to respond to climate change through land use changes	Henry Raphael Mloza-Banda	University of Malawi	Malawi
C	The impact of environmental change on ecosystem services supporting human livelihoods: the case of Okavango River channel flows and Boteti River, Botswana	Gagoitseope Mmopelwa	H. Oppenheimer Okavango Research Centre	Botswana
D	Assessing soil-based ecological services and opportunities to sequester soil organic carbon in selected watersheds of Ethiopia	Abebe Shiferaw	International Livestock Research Institute	Ethiopia

2011-2012

	Title	PI	Institution	Country
A	Management of ecosystems services of the forests of southwest Nigeria in support of rural livelihoods and food security	Victor Adekunle	Federal University of Technology	Nigeria
B	Reducing tropical deforestation and the protection of ecosystem services to support food security in southwest Cameroon	Gordon Ajonina	Cameroon Wildlife Conservation Society	Cameroon
C	Sustainable farmland management in the context of climate change in inland valleys of southern Benin	Irénikatché Akponikpe	Université de Parakou	Benin
D	Changes in tree reproductive phenology: causes and implications in and around Budongo Forest Reserve, Uganda	Fred Babweteera	Budongo Conservation Field Station	Uganda
E	Impact of climate change on water resources, agriculture and food security in the Ethiopian Rift Valley: risk assessment and adaptation strategies for sustainable ecosystem services	Dagnachew Legesse Belachew	Addis Ababa University	Ethiopia
F	Improving seasonal forecast information for managing on-farm decisions	Olivier Crespo	University of Cape Town	South Africa
G	Integrating indigenous knowledge and scientific methods for flood Risk analyses, responses and adaptation in rural coastal communities in Nigeria	Oluseyi Olubunmi Fabiyi	Regional Centre for Training in Aerospace Surveys	Nigeria
H	Community-based management of ecosystems and natural resources for the improvement of rural livelihoods and food security in the Nigerian savannah	Mayowa Fasona	University of Lagos	Nigeria
I	Engaging farmers and climatologists in adaptation to climate variability and change in the Okavango Delta of Botswana	Oluwatoyin Kolawole	Okavango Research Institute	Botswana
J	The role of urban and peri-urban agriculture in enhancing food security and climate change resilience in East and West African cities	Shuaib Lwasa	Makerere University	Uganda

	Title	PI	Institution	Country
K	The application of earth observation methods for monitoring and assessment of agro-forestry in Senegal and Ghana	Cheikh Mbow	Université Cheikh Anta Diop	Senegal
L	Climate change adaptation for rural communities dependent on agriculture and tourism in marginal farming areas of the Hwange District, Zimbabwe	Charles Nhemachena	Council for Scientific and Industrial Research	Zimbabwe
M	Assessing adaptation responses by smallholder farmers in northern Ghana to climate change and biodiversity loss	Yaw Osei-Owusu	Conservation Alliance	Ghana
N	The impact of climate change on food security among coastal communities of Keiskamma, in the Eastern Cape, South Africa	Anthony Ribbink	Sustainable Seas Trust	South Africa
O	Sensitivity of coastal lagoon ecosystems to climate and related global changes: developing a North African lagoons network	Maria Snoussi	Institut de Recherche pour le Développement and University Mohamed V-Agdal, Rabat	Morocco
P	Targeting crop yield increases under future climate for greater food security in the upstream catchment of Lake Victoria Basin	John Wasige	Makerere University	Uganda

2013-2014

	Title	PI	Institution	Country
A	Modeling the potential impacts of afforestation on mitigating climate change and extreme events in Southern Africa	J. Babatunde Abiodun	University of Cape Town	South Africa
B	Implications of climate change on agricultural practices and food security in fragile mountain ecosystems: A case study of Mt. Elgon in Eastern Uganda	Yazidhi Bamutaze	Makerere University	Uganda

C	Vulnerability of settled Fulani agro-pastoralists' livelihoods to climate change and emerging innovations for adaptation and land accessibility in Southwest Nigeria	Eniola Fabusoro	Federal University of Agriculture, Abeokuta	Nigeria
D	Heat stress of sheep: Livestock monitoring in the Suid Bokkeveld of South Africa	Robyn S. Hetem	University of Witwatersrand	South Africa
E	An assessment of gender roles and traditional knowledge systems in enhancing climate change adaptation and household food security in Lake Victoria Basin, Uganda	Julius Bunny Lejju	Mbarara University of Science & Technology	Uganda
F	Linking agriculture and socio-economic drivers to assess vulnerability and food security in Morocco for The Horizon 2030	Mohammed Messouli	Université Cadi Ayyad	Morocco
G	Assessing adaptation capacity of crop management strategies for small holder farmers in Zimbabwe	Olivier Crespo	University of Cape Town	South Africa
H	Integrating indigenous and empirical knowledge to stabilise house-hold food security in a changing climate in smallholder communities of Zimbabwe	Hatirarami Nezomba	University of Zimbabwe	Zimbabwe
I	Enhancing resilience to climate change and variability: Cassava and sweet potatoes in Uganda	William George Otim-Nape	Africa Innovations Institute	Uganda
L	Coping with global environmental change: Resilience and adaptability of rural communities on the West Coast of South Africa	Anthony Palmer	Agricultural Research Council	South Africa
M	Trade-offs and synergies in climate change adaptation and mitigation in coffee systems	Petrus J.A. Van Asten	International Institute of Tropical Agriculture (IITA)	Uganda